

Supplemental file 1

Ferroptosis-associated molecular classification characterized by distinct tumor microenvironment profiles in colorectal cancer

Authors:

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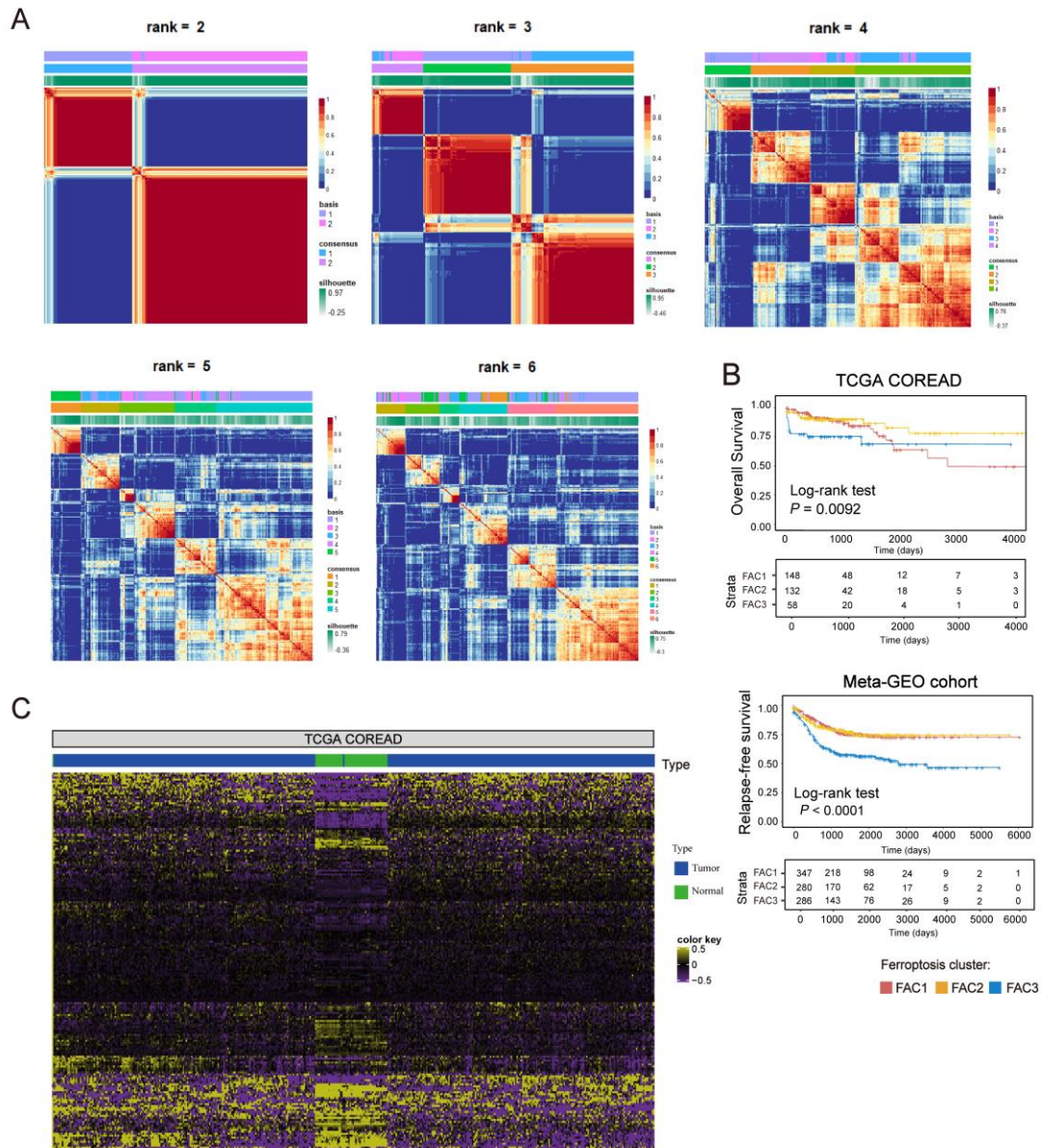


Figure S2. Ferroptosis-associated molecular classification in colorectal cancer, related to Figure 1

(A) Heatmap representation of NMF clustering for ferroptosis-associated genes in TCGA cohort with cluster numbers from 2 to 6. (B) Kaplan-Meier curves for overall survival of three NMF clusters in TCGA and for relapse-free survival of three clusters in meta-GEO cohort. The P value was calculated by the log-rank test. (C) Heatmap shows expression

of ferroptosis-associated genes in tumor and normal samples.

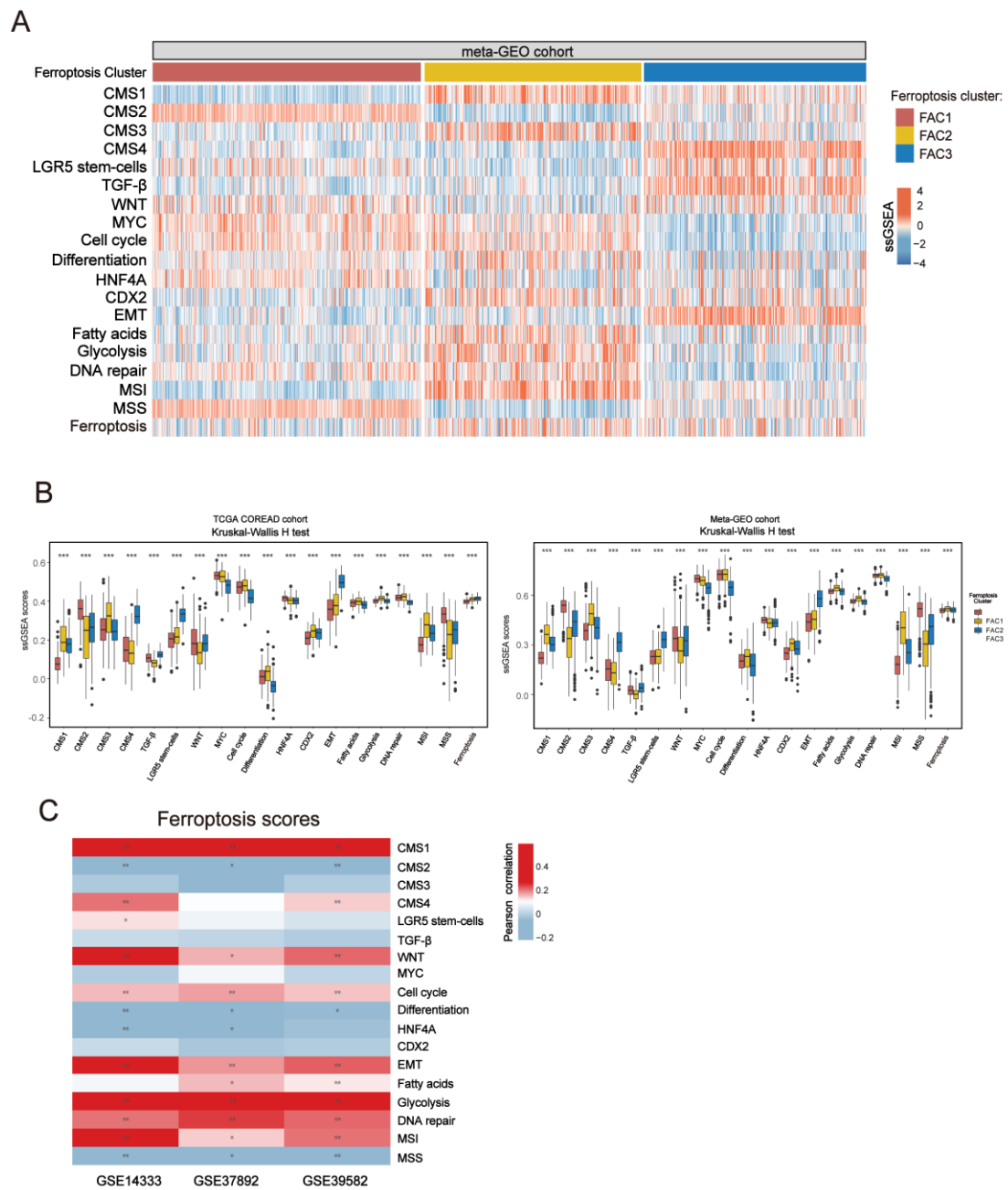


Figure S3. Clinical characteristics and biological molecular changes underlying three clusters in CRC, related to Figure 2

(A) Heatmap shows molecular characteristics of three clusters in meta-GEO cohort. (B) Quantification of gene signatures related to CMS

subtypes among three clusters of TCGA and meta-GEO cohort. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. (C) Heatmap shows correlation between ferroptosis score and gene signatures.

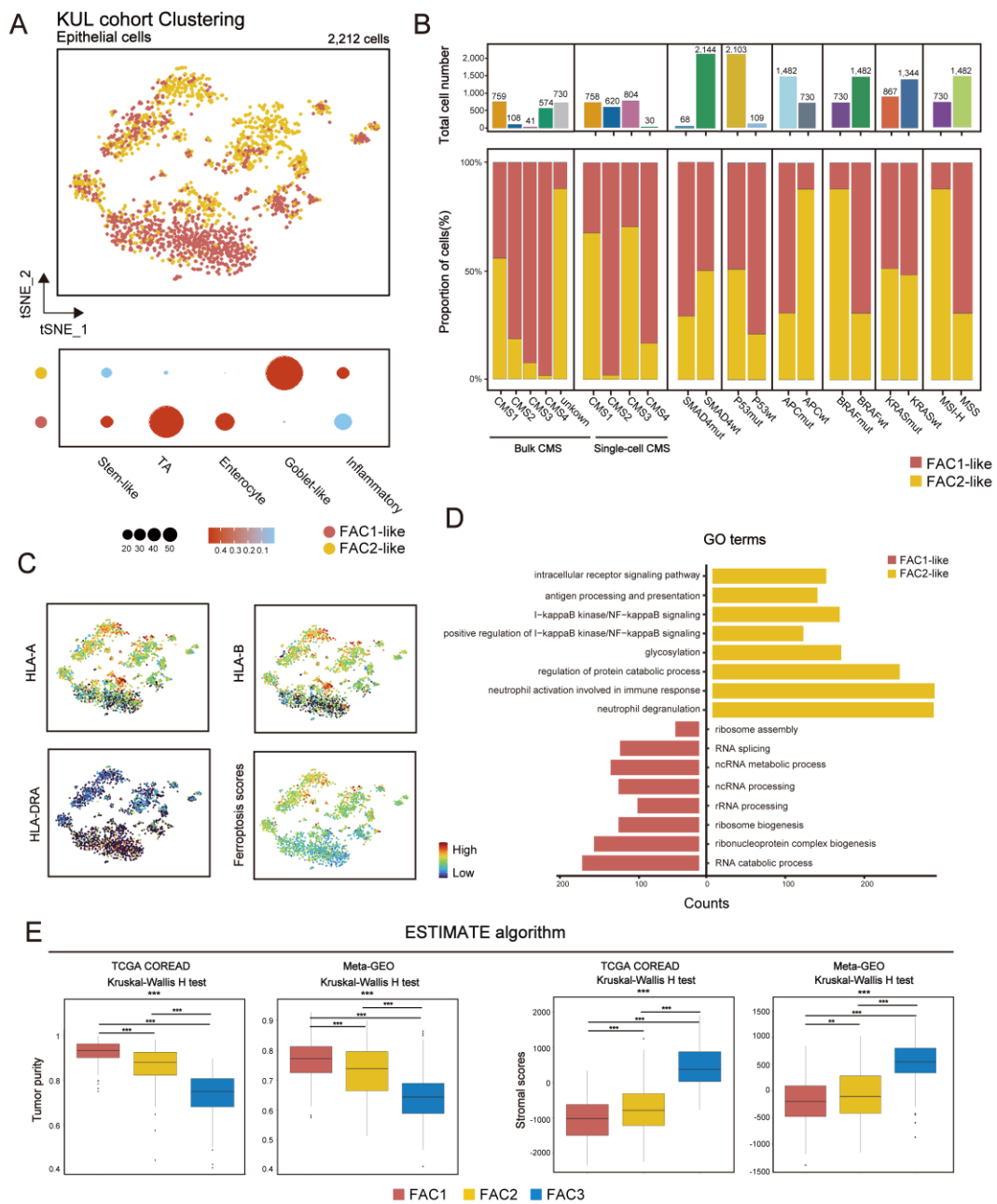


Figure S4. Single-cell transcriptome profiling of CRC cells based on

ferroptosis-associated molecular classification, related to Figure 3

(A) t-SNE visualization of 2,212 tumor epithelial cells from KUL single-cell cohort (top panel). Cells are colored according to clusters. Dot plot for the score of gene signatures associated with CRC cellular phenotype and responses to therapy in each cell type. Color represents the mean score in each cell cluster, and size indicates the fraction of cells expressing gene score (bottom panel). (B) Barplot shows the proportion of different molecular characteristics in CRC tumor cells. Bars are colored according to clusters. (C) t-SNE visualization of MHC-I (HLA-A, HLA-B), MHC-II (HLA-DRA) molecular expression and the score of ferroptosis-associated genes. (D) GO analysis of differential expressed genes between FAC1-like and FAC2-like CRC tumor cells. (E) Tumor purity and stromal score of three ferroptosis-associated clusters in TCGA and meta-GEO cohort. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. *P < 0.05; **P < 0.01; ***P < 0.001. The difference of two clusters was compared through the wilcox test. *P < 0.05; **P < 0.01; ***P < 0.001.

(A) Heatmap shows the ssGSEA score of 31 cell subtypes in three ferroptosis-associated clusters in meta-GEO cohort. (B-D) ssGSEA score of corresponding signatures among three clusters in TCGA and meta-GEO cohort. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. *P < 0.05; **P < 0.01; ***P < 0.001.

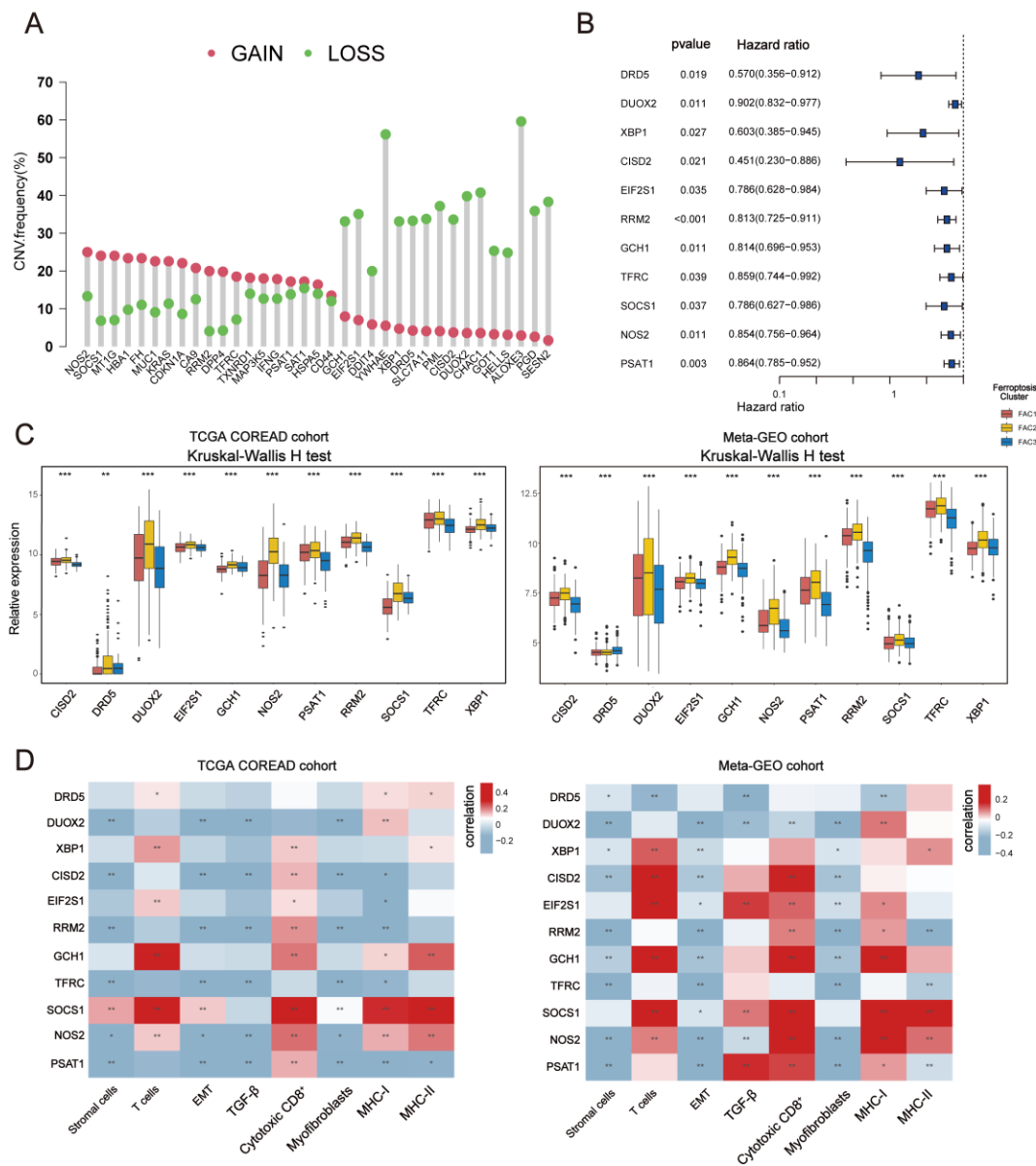


Figure S6. Identifying specific ferroptosis-associated genes correlated with immune activation, related to Figure 5

(A) CNV frequency of immune-activated Fersig in CRC tumors. (B) Univariate analysis of immune-activated Fersig in CRC patients. (C) Expression of immune-activated Fersig among three clusters. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. *P < 0.05; **P < 0.01; ***P < 0.001. (D) Correlation between immune-activated Fersig and different gene signatures, including stromal cells, T cells, cytotoxic CD8⁺ T, myofibroblasts, EMT, TGF- β , MHC-I and MHC-II.

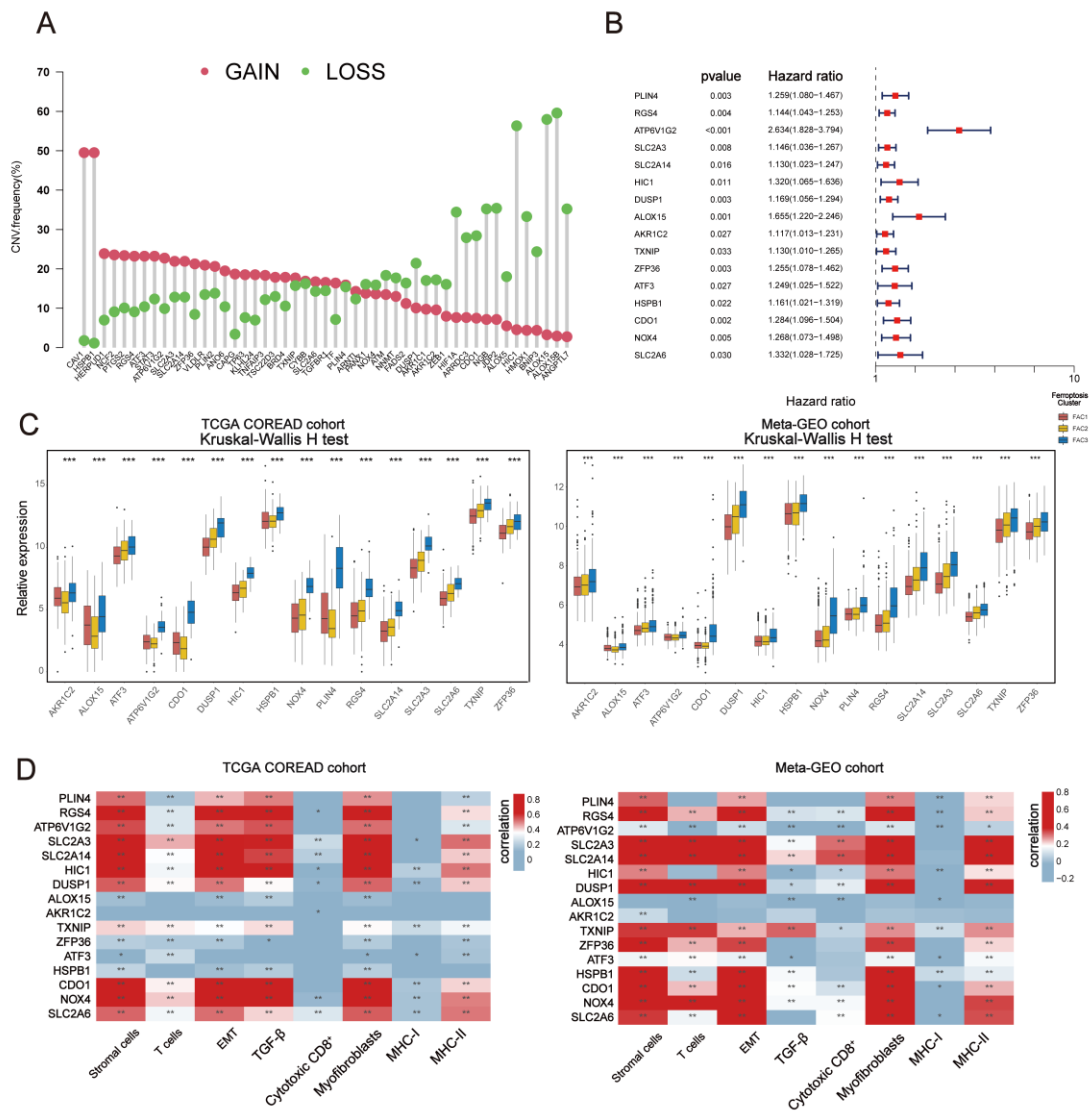


Figure S7. Identifying specific ferroptosis-associated genes correlated with stromal activation, related to Figure 6

(A) CNV frequency of stromal-activated Fersig in CRC tumors. (B) Univariate analysis of stromal-activated Fersig in CRC patients. (C) Expression of stromal-activated Fersig among three clusters. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. (D) Correlation between stromal-activated Fersig and different gene

signatures, including stromal cells, T cells, cytotoxic CD8⁺ T, myofibroblasts, EMT, TGF- β , MHC-I and MHC-II.

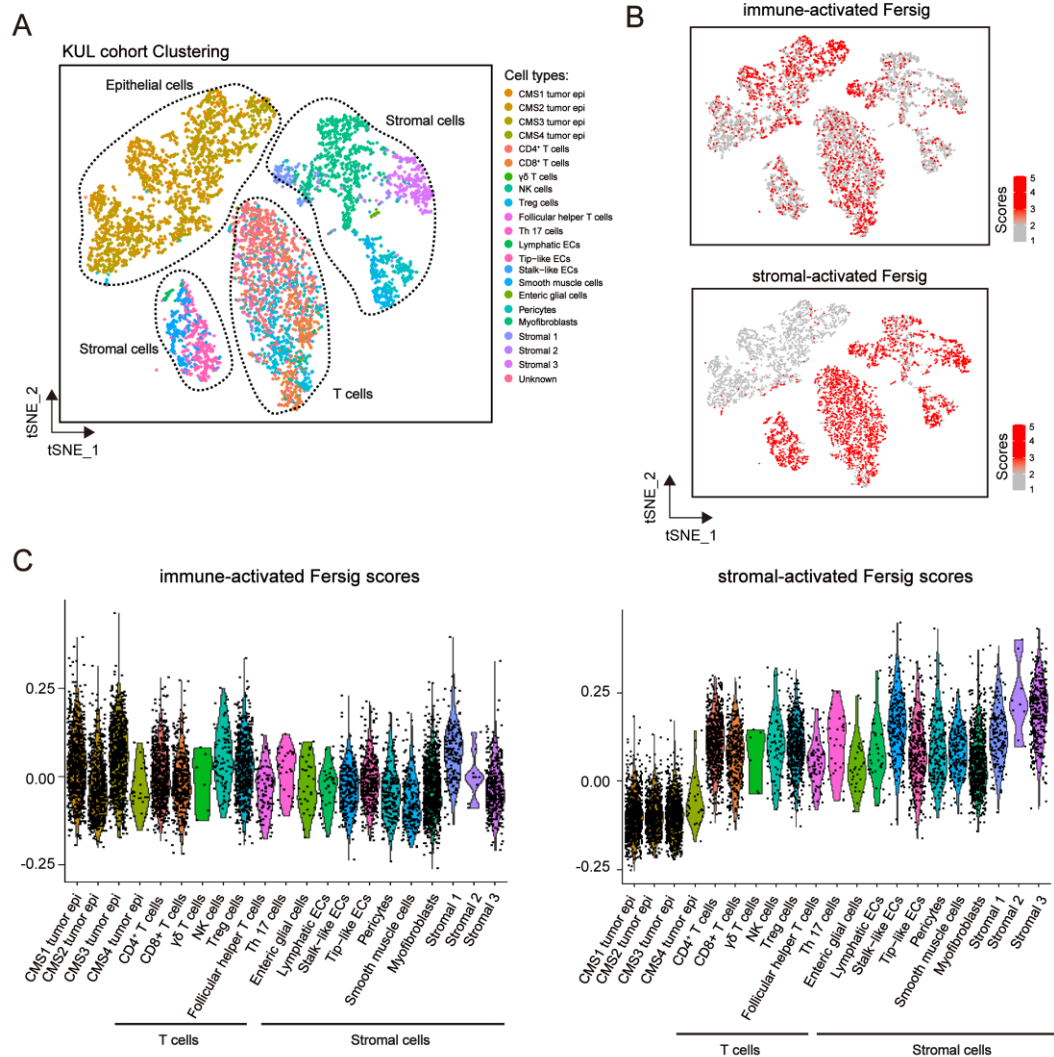


Figure S8. Examining expression of immune-activated and stromal-activated Fersig at single-cell level, related to Figure 7

(A) t-SNE visualization of 6,470 single cells of CRC in KUL cohort. Cells are colored according to cell types. (B) t-SNE visualization of score of immune-activated Fersig and stromal-activated Fersig. (C) Violin plots shows the score of immune-activated Fersig and stromal-activated Fersig

among different cell subtypes.

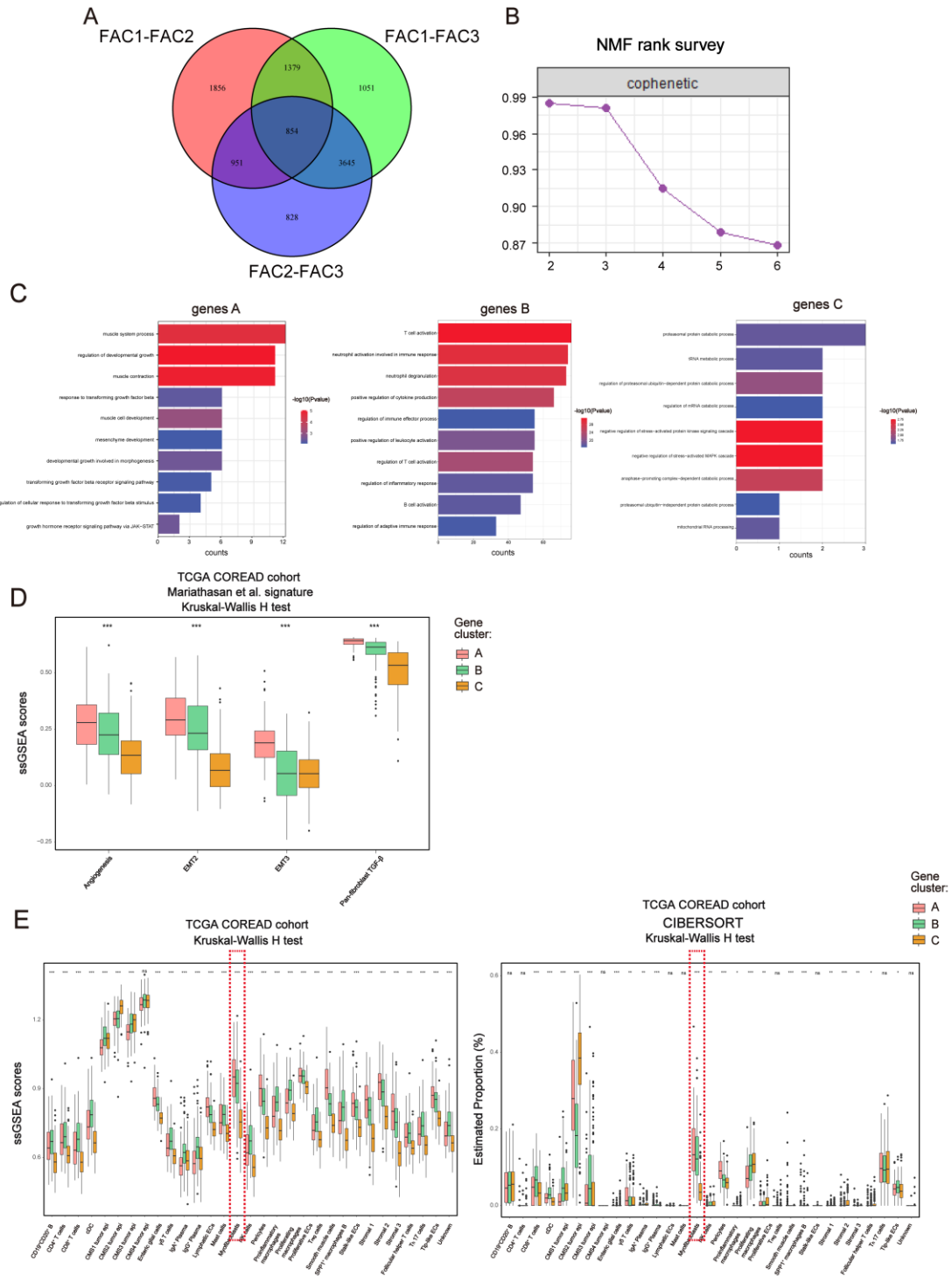


Figure S9. Ferroptosis phenotype-related DEGs in colorectal cancer, related to Figure 8

(A) Venn diagram shows shared genes between DEGs among three ferroptosis-associated clusters. (B) NMF rank survey was shown. The optimal number of clusters: $k=3$. (C) GO analyses of genes A-B. (D-E) ssGSEA score of corresponding signatures among three gene clusters.

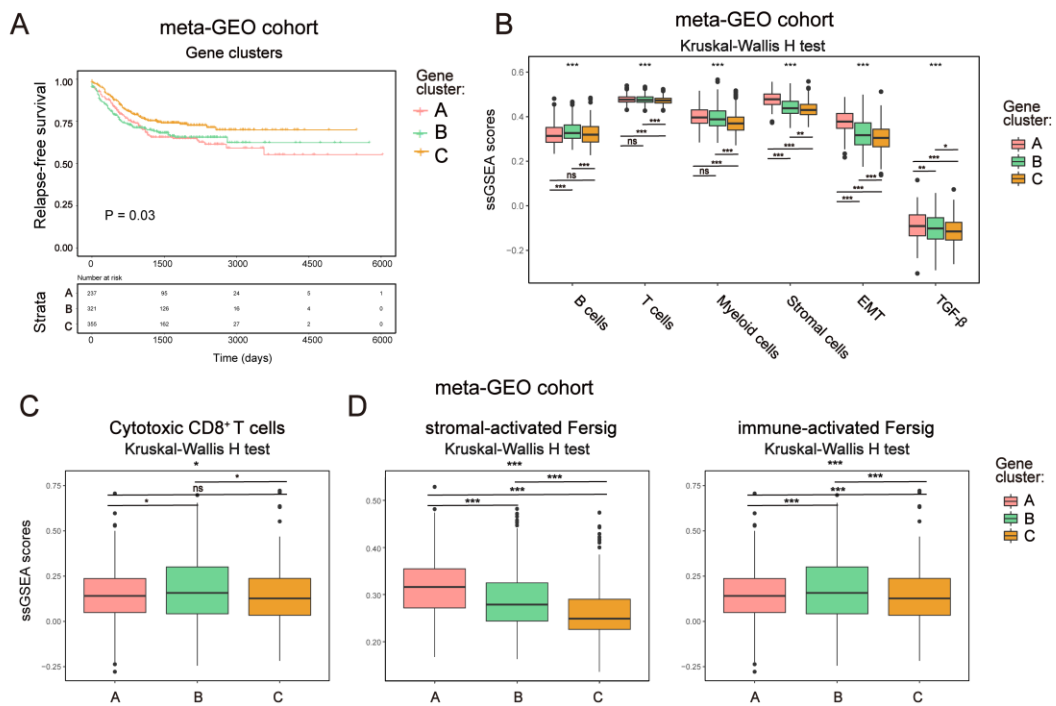


Figure S10. Ferroptosis phenotype-related DEGs in colorectal cancer, related to Figure 8

(A) Kaplan-Meier curves for overall survival of three gene clusters in meta-GEO cohort. The P value was calculated by the log-rank test. (B) ssGSEA score of signatures of TME cell types, EMT and TGF- β among three gene clusters in TCGA. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. *P < 0.05; **P < 0.01; ***P < 0.001. The difference of two clusters was compared through the

wilcox test. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. (C-D) ssGSEA score of signatures of cytotoxic CD8+ T cells, immune-activated and stromal-activated ferroptosis-associated genes among three gene clusters. The statistical difference of three clusters was compared through the Kruskal-Wallis H test. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$. The difference of two clusters was compared through the wilcox test. * $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.

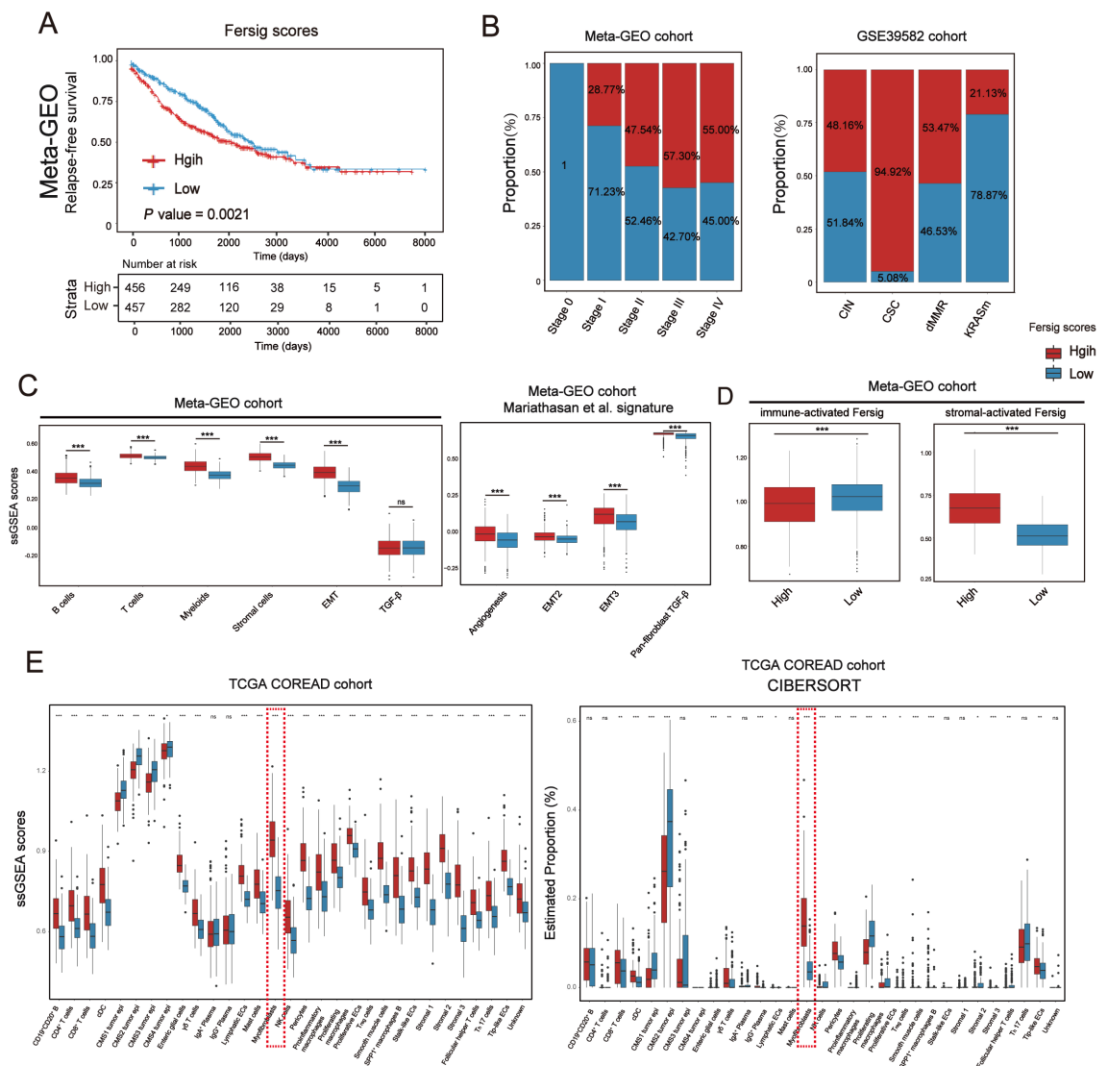


Figure S11. Further construction of Fersig score, related to Figure 9

(A) Kaplan-Meier curves for relapse-free survival of meta-GEO. The high and low groups were divided by the median value of the PCA score of Fersig. The P value was calculated by the log-rank test. (B) Barplots show the proportion of molecular characteristics between high and low groups of Fersig. (C) ssGSEA score of signatures of TME cell types, EMT, TGF- β and other stromal-related signatures between high and low groups in meta-GEO cohort. The difference of two clusters was compared through the wilcox test. *P < 0.05; **P < 0.01; ***P < 0.001. (D) ssGSEA score of immune-activated and stromal-activated Fersig between high and low groups in meta-GEO cohort. The difference of two clusters was compared through the wilcox test. *P < 0.05; **P < 0.01; ***P < 0.001. (E) ssGSEA score of 31 cell subtypes between high and low groups in meta-GEO cohort. The difference of two clusters was compared through the wilcox test. *P < 0.05; **P < 0.01; ***P < 0.001.

B. Supplementary Tables

Supplementary Table S1. The description of patients with bulk RNA expression data, including clinical characteristics and NMF clusters.

Please see separated Excel spreadsheet file.

Supplementary Table S2. The basic information for single-cell datasets.

Please see separated Excel spreadsheet file.

Supplementary Table S3. The biological information of ferroptosis-associated genes.

Please see separated Excel spreadsheet file.

Supplementary Table S4. The cell type annotation of single cells.

Please see separated Excel spreadsheet file.

Supplementary Table S5. Gene clusters in TCGA and meta-GEO cohorts, and genes A-C.

Please see separated Excel spreadsheet file.

Supplementary Table S6. The Fersig score of each database.

Please see separated Excel spreadsheet file.

Table S1. Basic information of bulk databases (TCGA, GSE14333, GSE39582 and (

samples	MSI status	Metastasis status	Stage
TCGA.3L.AA1B.01	MSS	M0	Stage I
TCGA.4N.A93T.01	MSS	M0	Stage III
TCGA.4T.AA8H.01	Indeterminate	MX	Stage II
TCGA.5M.AATE.01	MSS	M0	Stage II
TCGA.A6.5656.01	NA	M0	Stage I
TCGA.A6.5659.01	NA	M0	Stage I
TCGA.A6.5660.01	MSS	M0	Stage III
TCGA.A6.5662.01	MSS	M1	Stage IV
TCGA.A6.5666.01	MSI-L	M0	Stage II
TCGA.A6.5667.01	MSS	MX	Stage III
TCGA.A6.6140.01	MSS	M0	Stage II
TCGA.A6.6648.01	MSS	M1a	Stage IV
TCGA.A6.6652.01	MSS	M1	Stage IV
TCGA.A6.A56B.01	MSS	M0	Stage III
TCGA.AA.3496.01	MSI-L	M0	Stage II
TCGA.AA.3509.01	MSS	M0	Stage II
TCGA.AA.3511.01	MSS	M0	Stage II
TCGA.AA.3660.01	MSS	M0	Stage II
TCGA.AA.3662.01	MSS	M1	Stage IV
TCGA.AA.3675.01	MSS	M0	Stage II
TCGA.AA.A01X.01	MSS	M0	Stage III
TCGA.AD.6888.01	MSS	M0	Stage III
TCGA.AD.6890.01	MSS	MX	NA
TCGA.AD.6965.01	MSS	M0	Stage III
TCGA.AD.A5EK.01	MSS	MX	Stage I
TCGA.AF.3911.01	MSI-L	MX	Stage III
TCGA.AF.4110.01	MSS	MX	Stage IV
TCGA.AF.6136.01	MSS	MX	Stage III
TCGA.AF.6672.01	MSS	MX	Stage IV
TCGA.AF.A56L.01	MSS	M0	Stage III
TCGA.AF.A56N.01	MSS	M0	Stage II
TCGA.AG.3732.01	MSS	M0	Stage I
TCGA.AH.6544.01	MSS	M1	NA
TCGA.AH.6549.01	MSI-L	MX	NA
TCGA.AH.6643.01	MSS	M0	Stage III
TCGA.AH.6897.01	MSI-L	M0	Stage I
TCGA.AH.6903.01	MSS	M0	Stage III
TCGA.AM.5820.01	MSS	M1	Stage IV
TCGA.AY.A54L.01	MSI-L	M0	Stage I
TCGA.AY.A69D.01	MSI-L	M0	Stage II
TCGA.AY.A71X.01	MSS	M0	Stage I
TCGA.AY.A8YK.01	MSS	M1	Stage IV
TCGA.AZ.4684.01	MSI-L	M1	Stage IV
TCGA.CA.5255.01	MSS	M0	Stage II
TCGA.CA.5256.01	MSS	M0	Stage II
TCGA.CA.5797.01	MSS	M0	Stage II
TCGA.CA.6715.01	MSS	M0	Stage III
TCGA.CA.6716.01	MSS	M0	Stage II
TCGA.CI.6619.01	MSS	M1	Stage IV
TCGA.CI.6620.01	MSS	M1	Stage IV
TCGA.CI.6622.01	MSS	M0	Stage II
TCGA.CK.5912.01	MSS	MX	Stage I
TCGA.CK.5915.01	MSS	MX	Stage I
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TCGA.CL.5917.01	MSS	MX	Stage III
TCGA.CL.5918.01	MSS	MX	Stage II

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TCGA.CM.5344.01	MSS	M0	Stage III
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TCGA.CM.6165.01	MSS	M0	Stage II
TCGA.CM.6166.01	MSS	M0	Stage I
TCGA.CM.6170.01	MSS	M0	Stage I
TCGA.CM.6172.01	MSS	M0	Stage III
TCGA.CM.6676.01	MSI-L	M0	Stage I
TCGA.CM.6678.01	MSS	M1a	Stage IV
TCGA.D5.5537.01	MSS	MX	Stage II
TCGA.D5.5540.01	MSI-L	M0	Stage II
TCGA.D5.5541.01	MSS	M0	Stage III
TCGA.D5.6532.01	MSI-L	M0	Stage II
TCGA.D5.6533.01	MSS	M0	NA
TCGA.D5.6538.01	MSI-L	M0	Stage III
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TCGA.D5.6924.01	MSS	M0	Stage II
TCGA.D5.6926.01	MSS	M0	Stage III
TCGA.D5.6929.01	MSI-L	M1	Stage IV
TCGA.D5.6932.01	MSS	M0	Stage II
TCGA.DC.4745.01	MSS	M0	Stage III
TCGA.DC.4749.01	MSS	M0	Stage I
TCGA.DC.5869.01	MSS	M0	Stage III
TCGA.DC.6154.01	MSI-H	M1	Stage IV
TCGA.DC.6155.01	MSS	M0	Stage III
TCGA.DC.6157.01	MSS	M0	Stage I
TCGA.DC.6681.01	MSS	M1a	Stage IV
TCGA.DC.6682.01	MSS	M0	Stage II
TCGA.DC.6683.01	MSS	M0	Stage III
TCGA.DM.A1D0.01	MSS	M0	Stage II
TCGA.DM.A1D4.01	MSI-L	M0	Stage II
TCGA.DM.A1D6.01	MSS	M0	Stage II
TCGA.DM.A1D7.01	MSS	M0	Stage II
TCGA.DM.A1D8.01	MSS		NA
TCGA.DM.A1D9.01	MSS	M0	Stage II
TCGA.DM.A1HA.01	MSS	M0	Stage III
TCGA.DM.A282.01	MSS	M0	Stage II
TCGA.DM.A288.01	MSS	M0	Stage III
TCGA.DM.A28A.01	MSS	M0	Stage III
TCGA.DM.A28C.01	MSS	M0	Stage II
TCGA.DM.A28E.01	MSS	M0	Stage II
TCGA.DM.A28F.01	MSS	M0	Stage III
TCGA.DM.A28G.01	MSS	M0	Stage II
TCGA.DM.A28H.01	MSI-L	M0	Stage III
TCGA.DY.A0XA.01	MSS	M0	Stage II
TCGA.DY.A1DD.01	MSI-L	M0	Stage III
TCGA.DY.A1DF.01	MSI-L	M0	Stage III
TCGA.DY.A1H8.01	MSS	M0	Stage III
TCGA.EF.5830.01	MSS	M0	Stage II
TCGA.EF.5831.01	MSS	M0	Stage II
TCGA.EI.6508.01	MSS	M0	Stage III
TCGA.EI.6509.01	MSS	M0	Stage III
TCGA.EI.6512.01	MSS	M0	Stage III

TCGA.EI.6513.01	MSS	M0	Stage III
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TCGA.EI.7002.01	MSI-L	M1	Stage IV
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TCGA.F4.6808.01	MSS	M0	Stage I
TCGA.F4.6854.01	MSS	M0	Stage II
TCGA.F5.6571.01	MSI-L	M0	Stage II
TCGA.F5.6814.01	MSS	M0	Stage II
TCGA.F5.6861.01	MSS	M0	Stage II
TCGA.F5.6863.01	MSI-L	M0	Stage III
TCGA.F5.6864.01	MSI-L	M0	Stage III
TCGA.G4.6303.01	MSI-L	M1	Stage IV
TCGA.G4.6304.01	MSI-H	M0	Stage II
TCGA.G4.6307.01	MSS	M0	Stage III
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TCGA.G4.6315.01	MSS	M1	Stage IV
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TCGA.NH.A8F7.01	Indeterminate	MX	Stage II
TCGA.NH.A8F8.01	MSS	M1	Stage IV
TCGA.QG.A5YV.01	MSS	MX	Stage III
TCGA.QG.A5YX.01	MSI-L	MX	Stage II
TCGA.QG.A5Z1.01	MSI-L	MX	Stage III
TCGA.QL.A97D.01	MSS	MX	Stage I
TCGA.RU.A8FL.01	MSS	MX	Stage III
TCGA.SS.A7HO.01	MSS	M0	Stage II
TCGA.T9.A92H.01	MSS	M0	Stage II

GSE37892)

OS (days)	Dead	Sample type	NMF clusters	CMS subtypes
	475	0 Tumor	CC1	CMS2
	146	0 Tumor	CC1	NA
	385	0 Tumor	CC1	CMS3
	1200	0 Tumor	CC1	CMS2
	1001	0 Tumor	CC1	CMS2
	926	0 Tumor	CC1	CMS2
	888	0 Tumor	CC1	CMS2
	718	0 Tumor	CC1	CMS4
	995	0 Tumor	CC1	CMS2
	887	0 Tumor	CC1	CMS4
	734	0 Tumor	CC1	CMS2
	766	0 Tumor	CC1	CMS2
	751	0 Tumor	CC1	CMS2
	1595	1 Tumor	CC1	CMS4
	31	0 Tumor	CC1	CMS4
	1915	0 Tumor	CC1	CMS2
	212	0 Tumor	CC1	CMS4
	2375	0 Tumor	CC1	CMS2
	184	0 Tumor	CC1	CMS2
	1431	0 Tumor	CC1	CMS3
	791	0 Tumor	CC1	CMS2
	155	1 Tumor	CC1	CMS2
	746	0 Tumor	CC1	CMS2
	805	0 Tumor	CC1	CMS2
	500	0 Tumor	CC1	NA
	1148	0 Tumor	CC1	CMS2
	912	0 Tumor	CC1	CMS4
	741	0 Tumor	CC1	CMS3
	748	0 Tumor	CC1	CMS3
	2007	0 Tumor	CC1	CMS2
	360	0 Tumor	CC1	CMS2
	1003	0 Tumor	CC1	CMS3
	1173	0 Tumor	CC1	CMS3
	532	0 Tumor	CC1	CMS4
	21	1 Tumor	CC1	CMS4
	804	0 Tumor	CC1	NA
	592	0 Tumor	CC1	CMS3
	14	0 Tumor	CC1	NA
	525	0 Tumor	CC1	CMS3
	543	0 Tumor	CC1	CMS3
	588	0 Tumor	CC1	CMS3
	573	0 Tumor	CC1	CMS2
	1977	0 Tumor	CC1	CMS4
	376	0 Tumor	CC1	CMS1
	379	0 Tumor	CC1	CMS2
	383	0 Tumor	CC1	CMS2
	383	0 Tumor	CC1	CMS2
	371	0 Tumor	CC1	CMS2
	184	0 Tumor	CC1	CMS4
	1009	0 Tumor	CC1	NA
	1362	0 Tumor	CC1	CMS2
	1466	1 Tumor	CC1	NA
	0	0 Tumor	CC1	CMS2
	425	1 Tumor	CC1	CMS2
	2376	0 Tumor	CC1	CMS4
	218	0 Tumor	CC1	CMS2

761	0 Tumor	CC1	NA
670	0 Tumor	CC1	CMS4
457	0 Tumor	CC1	CMS2
518	0 Tumor	CC1	CMS4
457	0 Tumor	CC1	CMS2
427	0 Tumor	CC1	NA
883	0 Tumor	CC1	CMS2
488	0 Tumor	CC1	CMS4
669	0 Tumor	CC1	CMS2
457	0 Tumor	CC1	CMS2
335	0 Tumor	CC1	CMS3
337	0 Tumor	CC1	CMS2
335	0 Tumor	CC1	CMS3
456	1 Tumor	CC1	CMS2
1706	0 Tumor	CC1	NA
1701	0 Tumor	CC1	CMS2
555	0 Tumor	CC1	CMS2
775	0 Tumor	CC1	CMS2
521	0 Tumor	CC1	CMS2
308	0 Tumor	CC1	CMS4
378	0 Tumor	CC1	CMS4
435	0 Tumor	CC1	CMS4
275	0 Tumor	CC1	CMS4
408	0 Tumor	CC1	CMS4
346	0 Tumor	CC1	CMS4
639	0 Tumor	CC1	NA
762	0 Tumor	CC1	CMS2
943	0 Tumor	CC1	CMS2
365	0 Tumor	CC1	CMS2
425	0 Tumor	CC1	NA
1581	0 Tumor	CC1	CMS2
790	0 Tumor	CC1	CMS4
762	0 Tumor	CC1	NA
762	0 Tumor	CC1	CMS2
3974	0 Tumor	CC1	CMS2
2821	1 Tumor	CC1	NA
1518	1 Tumor	CC1	CMS3
405	1 Tumor	CC1	NA
383	1 Tumor	CC1	NA
4270	0 Tumor	CC1	NA
4000	0 Tumor	CC1	NA
4233	0 Tumor	CC1	CMS2
427	1 Tumor	CC1	NA
805	1 Tumor	CC1	CMS2
2475	1 Tumor	CC1	NA
3648	0 Tumor	CC1	NA
1094	1 Tumor	CC1	CMS2
1849	1 Tumor	CC1	CMS3
3561	0 Tumor	CC1	NA
3846	0 Tumor	CC1	CMS2
1741	1 Tumor	CC1	CMS2
734	1 Tumor	CC1	CMS4
992	1 Tumor	CC1	NA
106	0 Tumor	CC1	CMS2
127	0 Tumor	CC1	CMS4
636	0 Tumor	CC1	CMS3
517	0 Tumor	CC1	CMS4
538	0 Tumor	CC1	CMS1

497	0 Tumor	CC1	CMS2
496	0 Tumor	CC1	CMS4
499	0 Tumor	CC1	CMS2
350	0 Tumor	CC1	CMS2
364	0 Tumor	CC1	CMS2
1087	0 Tumor	CC1	CMS4
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1024	0 Tumor	CC1	CMS2
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1160	0 Tumor	CC1	CMS2
23	1 Tumor	CC1	CMS4
14	0 Tumor	CC1	CMS4
1882	1 Tumor	CC1	CMS4
1631	0 Tumor	CC1	NA
1674	0 Tumor	CC1	CMS2
1935	0 Tumor	CC1	CMS4
1883	0 Tumor	CC1	CMS2
1095	0 Tumor	CC1	CMS2
1696	0 Tumor	CC1	CMS2
804	0 Tumor	CC1	CMS3
553	0 Tumor	CC1	CMS2
182	1 Tumor	CC1	CMS1
389	0 Tumor	CC1	CMS3
543	0 Tumor	CC1	CMS2
167	1 Tumor	CC1	CMS4
1301	0 Tumor	CC1	CMS2
1003	0 Tumor	CC1	CMS3
202	1 Tumor	CC1	CMS4
666	0 Tumor	CC1	NA
1177	0 Tumor	CC1	NA
1829	0 Tumor	CC1	NA
362	0 Tumor	CC1	CMS2

Table S1. Basic information of bulk databases (TCGA, GSE14333, GSE39582 and GSE376

samples	Stage	RFS (days)	RFS.event	Sample type
GSM358341	stage I	109.2		0 Tumor
GSM358342	stage I	435.9		1 Tumor
GSM358343	stage I	494.1		0 Tumor
GSM358344	stage I	592.5		0 Tumor
GSM358345	stage I	600.6		0 Tumor
GSM358346	stage I	718.8		0 Tumor
GSM358347	stage I	810.6		1 Tumor
GSM358348	stage I	868.8		0 Tumor
GSM358349	stage I	1313.7		0 Tumor
GSM358350	stage I	1567.2		0 Tumor
GSM358351	stage I	1653.9		0 Tumor
GSM358352	stage I	1733.7		0 Tumor
GSM358353	stage I	1785.9		0 Tumor
GSM358354	stage I	1923		0 Tumor
GSM358355	stage I	1931.1		0 Tumor
GSM358356	stage I	1976.4		0 Tumor
GSM358357	stage I	2015.7		0 Tumor
GSM358358	stage I	2034.6		0 Tumor
GSM358359	stage I	2055.3		0 Tumor
GSM358360	stage I	2282.1		0 Tumor
GSM358361	stage I	2468.7		0 Tumor
GSM358362	stage I	2508		0 Tumor
GSM358363	stage I	2511.9		0 Tumor
GSM358364	stage I	2523.9		0 Tumor
GSM358365	stage I	3276.3		0 Tumor
GSM358366	stage I	3576.3		0 Tumor
GSM358367	stage I	3681.6		0 Tumor
GSM358368	stage I	4276.5		0 Tumor
GSM358370	stage I	684		0 Tumor
GSM358371	stage I	432		0 Tumor
GSM358373	stage I	1632		0 Tumor
GSM358374	stage I	1935		0 Tumor
GSM358375	stage I	54		0 Tumor
GSM358376	stage I	1260		0 Tumor
GSM358377	stage I	1695		0 Tumor
GSM358378	stage I	1089		0 Tumor
GSM358380	stage I	1326		0 Tumor
GSM358381	stage I	1563		0 Tumor
GSM358382	stage I	900		0 Tumor
GSM358383	stage I	1317		0 Tumor
GSM358384	stage I	2424		0 Tumor
GSM358385	stage II	67.8		0 Tumor
GSM358386	stage II	180.3		1 Tumor
GSM358387	stage II	298.8		1 Tumor
GSM358388	stage II	423.9		1 Tumor
GSM358389	stage II	427.8		1 Tumor
GSM358390	stage II	451.5		0 Tumor
GSM358391	stage II	471.3		0 Tumor
GSM358392	stage II	538.5		0 Tumor
GSM358393	stage II	545.4		0 Tumor
GSM358394	stage II	580.8		1 Tumor
GSM358395	stage II	660.6		0 Tumor
GSM358396	stage II	671.4		1 Tumor
GSM358397	stage II	671.4		1 Tumor
GSM358398	stage II	725.7		0 Tumor
GSM358399	stage II	756.3		1 Tumor

GSM358400	stage II	757.2	0 Tumor
GSM358401	stage II	768.3	0 Tumor
GSM358402	stage II	795.9	0 Tumor
GSM358403	stage II	799.8	0 Tumor
GSM358404	stage II	804.6	0 Tumor
GSM358405	stage II	814.5	0 Tumor
GSM358406	stage II	829.2	1 Tumor
GSM358407	stage II	858.9	0 Tumor
GSM358408	stage II	865.8	0 Tumor
GSM358409	stage II	876.6	0 Tumor
GSM358410	stage II	931.8	0 Tumor
GSM358411	stage II	996	0 Tumor
GSM358412	stage II	1010.7	0 Tumor
GSM358413	stage II	1077	0 Tumor
GSM358414	stage II	1102.5	0 Tumor
GSM358415	stage II	1119.3	1 Tumor
GSM358416	stage II	1119.3	0 Tumor
GSM358417	stage II	1177.5	0 Tumor
GSM358418	stage II	1349.1	0 Tumor
GSM358419	stage II	1401.3	0 Tumor
GSM358420	stage II	1435.8	0 Tumor
GSM358421	stage II	1495.2	0 Tumor
GSM358422	stage II	1564.2	0 Tumor
GSM358423	stage II	1575	0 Tumor
GSM358424	stage II	1659.9	0 Tumor
GSM358425	stage II	1677.6	0 Tumor
GSM358426	stage II	1740.6	0 Tumor
GSM358427	stage II	1788	0 Tumor
GSM358428	stage II	1798.8	0 Tumor
GSM358429	stage II	1897.5	0 Tumor
GSM358430	stage II	1945.8	0 Tumor
GSM358431	stage II	2119.5	0 Tumor
GSM358432	stage II	2281.2	0 Tumor
GSM358433	stage II	2373.9	0 Tumor
GSM358434	stage II	2407.5	0 Tumor
GSM358435	stage II	2558.4	0 Tumor
GSM358436	stage II	2592.9	0 Tumor
GSM358437	stage II	2669.7	0 Tumor
GSM358438	stage II	2809.8	1 Tumor
GSM358439	stage II	3208.2	0 Tumor
GSM358440	stage II	3323.7	0 Tumor
GSM358441	stage II	3557.4	0 Tumor
GSM358442	stage II	363	0 Tumor
GSM358443	stage II	888	0 Tumor
GSM358444	stage II	1110	0 Tumor
GSM358445	stage II	855	0 Tumor
GSM358446	stage II	1689	0 Tumor
GSM358447	stage II	1422	0 Tumor
GSM358448	stage II	405	0 Tumor
GSM358449	stage II	1704	0 Tumor
GSM358450	stage II	1584	0 Tumor
GSM358451	stage II	1359	0 Tumor
GSM358452	stage II	1671	0 Tumor
GSM358453	stage II	1200	0 Tumor
GSM358454	stage II	426	1 Tumor
GSM358455	stage II	123	0 Tumor
GSM358456	stage II	1785	0 Tumor
GSM358457	stage II	1287	0 Tumor

GSM358458	stage II	978	1 Tumor
GSM358459	stage II	939	0 Tumor
GSM358460	stage II	1017	0 Tumor
GSM358461	stage II	1431	0 Tumor
GSM358462	stage II	1146	0 Tumor
GSM358463	stage II	1332	0 Tumor
GSM358464	stage II	1344	0 Tumor
GSM358465	stage II	1710	0 Tumor
GSM358466	stage II	1212	0 Tumor
GSM358467	stage II	156	0 Tumor
GSM358468	stage II	348	0 Tumor
GSM358469	stage II	1752	0 Tumor
GSM358470	stage II	1086	0 Tumor
GSM358471	stage II	1362	0 Tumor
GSM358472	stage II	1527	0 Tumor
GSM358473	stage II	1677	0 Tumor
GSM358474	stage II	429	1 Tumor
GSM358475	stage II	1014	0 Tumor
GSM358476	stage II	1140	0 Tumor
GSM358477	stage II	2226	0 Tumor
GSM358478	stage II	2547	0 Tumor
GSM358479	stage III	27.6	0 Tumor
GSM358480	stage III	47.1	1 Tumor
GSM358481	stage III	99.6	1 Tumor
GSM358482	stage III	127.2	0 Tumor
GSM358483	stage III	156.6	0 Tumor
GSM358484	stage III	160.5	1 Tumor
GSM358485	stage III	246.3	1 Tumor
GSM358486	stage III	249.3	1 Tumor
GSM358487	stage III	257.4	1 Tumor
GSM358488	stage III	286.8	1 Tumor
GSM358489	stage III	357	1 Tumor
GSM358490	stage III	441.6	1 Tumor
GSM358491	stage III	482.1	1 Tumor
GSM358492	stage III	567.9	1 Tumor
GSM358493	stage III	568.8	0 Tumor
GSM358494	stage III	599.4	0 Tumor
GSM358495	stage III	613.2	0 Tumor
GSM358496	stage III	631.2	1 Tumor
GSM358497	stage III	638.1	1 Tumor
GSM358498	stage III	667.5	0 Tumor
GSM358499	stage III	700.2	1 Tumor
GSM358500	stage III	723.9	1 Tumor
GSM358501	stage III	745.5	1 Tumor
GSM358502	stage III	787.8	0 Tumor
GSM358503	stage III	807.6	0 Tumor
GSM358504	stage III	827.4	1 Tumor
GSM358505	stage III	832.2	1 Tumor
GSM358506	stage III	881.7	1 Tumor
GSM358507	stage III	940.8	0 Tumor
GSM358508	stage III	957.6	0 Tumor
GSM358509	stage III	1025.7	1 Tumor
GSM358510	stage III	1107.6	1 Tumor
GSM358511	stage III	1107.6	0 Tumor
GSM358512	stage III	1142.1	0 Tumor
GSM358513	stage III	1161.6	0 Tumor
GSM358514	stage III	1231.8	1 Tumor
GSM358515	stage III	1340.1	0 Tumor

GSM358516	stage III	1342.2	0 Tumor
GSM358517	stage III	1434	0 Tumor
GSM358518	stage III	1473.3	0 Tumor
GSM358519	stage III	1512.9	0 Tumor
GSM358520	stage III	1517.7	0 Tumor
GSM358521	stage III	1585.8	0 Tumor
GSM358522	stage III	1647	0 Tumor
GSM358523	stage III	1753.5	0 Tumor
GSM358524	stage III	1772.1	0 Tumor
GSM358525	stage III	1780.2	0 Tumor
GSM358526	stage III	1929.9	0 Tumor
GSM358527	stage III	1947.9	0 Tumor
GSM358528	stage III	1966.5	0 Tumor
GSM358529	stage III	2162.7	0 Tumor
GSM358530	stage III	2230.8	0 Tumor
GSM358531	stage III	2235.9	0 Tumor
GSM358532	stage III	2383.8	1 Tumor
GSM358533	stage III	2568.3	0 Tumor
GSM358534	stage III	2575.2	1 Tumor
GSM358535	stage III	2688.6	0 Tumor
GSM358536	stage III	2852.1	0 Tumor
GSM358537	stage III	2985.3	0 Tumor
GSM358538	stage III	3155.1	0 Tumor
GSM358539	stage III	3369.9	0 Tumor
GSM358540	stage III	927	0 Tumor
GSM358541	stage III	720	0 Tumor
GSM358542	stage III	948	0 Tumor
GSM358543	stage III	1488	0 Tumor
GSM358544	stage III	456	1 Tumor
GSM358545	stage III	726	0 Tumor
GSM358546	stage III	2073	0 Tumor
GSM358547	stage III	2043	0 Tumor
GSM358548	stage III	309	1 Tumor
GSM358549	stage III	1776	0 Tumor
GSM358550	stage III	1842	0 Tumor
GSM358551	stage III	450	0 Tumor
GSM358552	stage III	1734	0 Tumor
GSM358553	stage III	564	0 Tumor
GSM358554	stage III	135	1 Tumor
GSM358555	stage III	1143	1 Tumor
GSM358556	stage III	1212	0 Tumor
GSM358557	stage III	171	1 Tumor
GSM358558	stage III	306	0 Tumor
GSM358559	stage III	2541	0 Tumor
GSM358560	stage III	507	0 Tumor
GSM358561	stage III	285	1 Tumor
GSM358562	stage III	2061	0 Tumor
GSM358563	stage III	1785	0 Tumor
GSM358564	stage III	561	0 Tumor
GSM358565	stage III	2124	0 Tumor
GSM358566	stage III	133.2	1 Tumor
GSM358567	stage III	1200	1 Tumor
GSM358568	stage III	2187	1 Tumor
GSM358569	stage III	540	1 Tumor

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Table S1. Basic information of bulk databases (TCGA, GSE14333, GSE39582 and GSE371)

samples	Stage	RFS (days)	RFS.event	Sample type
GSM971957	stage IV		0	1 Tumor
GSM971958	stage IV		0	1 Tumor
GSM971959	stage II		120	1 Tumor
GSM971960	stage I		2220	0 Tumor
GSM971961	stage IV		30	1 Tumor
GSM971962	stage III		2190	0 Tumor
GSM971963	stage II		510	1 Tumor
GSM971964	stage III		1050	0 Tumor
GSM971965	stage II		990	0 Tumor
GSM971966	stage III		1890	0 Tumor
GSM971968	stage II		2790	1 Tumor
GSM971969	stage I		1890	0 Tumor
GSM971970	stage I		2580	0 Tumor
GSM971971	stage IV		1950	0 Tumor
GSM971972	stage I		2250	0 Tumor
GSM971973	stage II		1380	0 Tumor
GSM971974	stage IV		1680	0 Tumor
GSM971975	stage II		1380	0 Tumor
GSM971976	stage II		1080	0 Tumor
GSM971977	stage III		1470	0 Tumor
GSM971978	stage I		3270	0 Tumor
GSM971979	stage II		1590	0 Tumor
GSM971980	stage III		1770	0 Tumor
GSM971981	stage II		1440	0 Tumor
GSM971982	stage III		1260	0 Tumor
GSM971983	stage III		2610	0 Tumor
GSM971984	stage II		150	1 Tumor
GSM971985	stage 0		210	0 Tumor
GSM971986	stage II		2040	0 Tumor
GSM971987	stage II		2040	0 Tumor
GSM971988	stage IV		450	1 Tumor
GSM971989	stage I		480	1 Tumor
GSM971990	stage I		360	0 Tumor
GSM971991	stage II		1650	0 Tumor
GSM971992	stage II		600	0 Tumor
GSM971993	stage II		1680	0 Tumor
GSM971994	stage II		1290	0 Tumor
GSM971995	stage II		750	0 Tumor
GSM971996	stage III		2280	0 Tumor
GSM971997	stage III		2670	0 Tumor
GSM971998	stage III		540	1 Tumor
GSM971999	stage III		30	0 Tumor
GSM972000	stage III		270	1 Tumor
GSM972001	stage III		2190	0 Tumor
GSM972002	stage III		750	1 Tumor
GSM972003	stage IV		0	1 Tumor
GSM972004	stage IV		2670	0 Tumor
GSM972005	stage IV		0	1 Tumor
GSM972006	stage IV		0	1 Tumor
GSM972007	stage IV		60	0 Tumor
GSM972008	stage IV		60	1 Tumor
GSM972009	stage IV		0	1 Tumor
GSM972010	stage IV		300	1 Tumor
GSM972011	stage IV		540	1 Tumor
GSM972012	stage IV		3030	0 Tumor
GSM972013	stage IV		1290	0 Tumor

GSM972014	stage IV	0	1 Tumor
GSM972015	stage II	2730	0 Tumor
GSM972016	stage II	420	1 Tumor
GSM972017	stage III	1290	0 Tumor
GSM972018	stage III	3510	0 Tumor
GSM972019	stage III	630	1 Tumor
GSM972020	stage III	270	1 Tumor
GSM972021	stage III	150	1 Tumor
GSM972022	stage III	2460	0 Tumor
GSM972023	stage III	180	1 Tumor
GSM972024	stage III	1110	1 Tumor
GSM972025	stage III	1590	0 Tumor
GSM972026	stage III	960	1 Tumor
GSM972027	stage III	2820	0 Tumor
GSM972028	stage III	2340	0 Tumor
GSM972029	stage III	1080	0 Tumor
GSM972030	stage III	1560	0 Tumor
GSM972031	stage II	1650	0 Tumor
GSM972032	stage II	1800	0 Tumor
GSM972033	stage II	1500	0 Tumor
GSM972034	stage II	1500	0 Tumor
GSM972035	stage II	1170	0 Tumor
GSM972036	stage II	1500	0 Tumor
GSM972037	stage II	990	0 Tumor
GSM972038	stage II	30	0 Tumor
GSM972039	stage IV	0	1 Tumor
GSM972040	stage II	1890	0 Tumor
GSM972041	stage II	1650	0 Tumor
GSM972042	stage II	1530	0 Tumor
GSM972043	stage IV	0	1 Tumor
GSM972044	stage II	1260	0 Tumor
GSM972045	stage IV	0	1 Tumor
GSM972046	stage II	630	1 Tumor
GSM972047	stage II	990	0 Tumor
GSM972048	stage IV	0	1 Tumor
GSM972049	stage II	780	0 Tumor
GSM972050	stage II	570	0 Tumor
GSM972051	stage IV	0	1 Tumor
GSM972052	stage II	450	0 Tumor
GSM972053	stage II	870	0 Tumor
GSM972054	stage II	780	0 Tumor
GSM972055	stage II	2790	0 Tumor
GSM972056	stage II	2760	0 Tumor
GSM972057	stage II	780	0 Tumor
GSM972058	stage II	1800	0 Tumor
GSM972059	stage II	1770	0 Tumor
GSM972060	stage II	2460	0 Tumor
GSM972061	stage II	1290	0 Tumor
GSM972062	stage II	0	1 Tumor
GSM972063	stage II	2100	0 Tumor
GSM972064	stage IV	0	1 Tumor
GSM972065	stage II	1380	0 Tumor
GSM972066	stage IV	0	1 Tumor
GSM972067	stage II	5490	0 Tumor
GSM972068	stage II	90	1 Tumor
GSM972069	stage II	6030	0 Tumor
GSM972070	stage II	2040	0 Tumor
GSM972071	stage II	5490	0 Tumor

GSM972072	stage II	5160	0 Tumor
GSM972073	stage II	4890	0 Tumor
GSM972074	stage II	30	1 Tumor
GSM972075	stage II	1320	0 Tumor
GSM972076	stage II	4590	0 Tumor
GSM972077	stage II	780	1 Tumor
GSM972078	stage II	1620	1 Tumor
GSM972079	stage II	5040	0 Tumor
GSM972080	stage II	1590	1 Tumor
GSM972081	stage II	780	0 Tumor
GSM972082	stage II	3570	1 Tumor
GSM972083	stage II	3810	0 Tumor
GSM972084	stage II	3870	0 Tumor
GSM972085	stage II	2910	0 Tumor
GSM972086	stage II	1290	0 Tumor
GSM972087	stage II	240	1 Tumor
GSM972088	stage II	2370	0 Tumor
GSM972089	stage II	2610	0 Tumor
GSM972090	stage II	2070	0 Tumor
GSM972091	stage II	1350	1 Tumor
GSM972092	stage II	1410	0 Tumor
GSM972093	stage II	2220	0 Tumor
GSM972094	stage II	1830	0 Tumor
GSM972095	stage II	2010	0 Tumor
GSM972096	stage III	90	1 Tumor
GSM972097	stage III	360	1 Tumor
GSM972098	stage III	450	0 Tumor
GSM972099	stage III	450	0 Tumor
GSM972100	stage III	750	0 Tumor
GSM972101	stage III	630	1 Tumor
GSM972102	stage III	1380	0 Tumor
GSM972103	stage III	840	1 Tumor
GSM972104	stage III	1230	0 Tumor
GSM972105	stage III	960	0 Tumor
GSM972106	stage III	270	1 Tumor
GSM972107	stage III	1800	0 Tumor
GSM972108	stage III	3090	0 Tumor
GSM972109	stage III	1080	0 Tumor
GSM972110	stage III	120	1 Tumor
GSM972111	stage III	390	1 Tumor
GSM972112	stage III	960	0 Tumor
GSM972113	stage III	540	1 Tumor
GSM972114	stage III	1380	0 Tumor
GSM972115	stage III	330	1 Tumor
GSM972116	stage III	60	1 Tumor
GSM972117	stage III	330	1 Tumor
GSM972118	stage III	570	1 Tumor
GSM972119	stage III	750	1 Tumor
GSM972120	stage III	1080	0 Tumor
GSM972121	stage III	1050	0 Tumor
GSM972122	stage III	570	1 Tumor
GSM972123	stage II	2130	0 Tumor
GSM972124	stage II	2250	0 Tumor
GSM972125	stage II	420	1 Tumor
GSM972126	stage II	1890	0 Tumor
GSM972127	stage II	2550	0 Tumor
GSM972128	stage II	2790	0 Tumor
GSM972129	stage II	330	0 Tumor

GSM972130	stage II	1650	0 Tumor
GSM972131	stage II	2580	0 Tumor
GSM972132	stage II	1830	0 Tumor
GSM972133	stage III	810	1 Tumor
GSM972134	stage III	210	1 Tumor
GSM972135	stage II	120	1 Tumor
GSM972136	stage III	1830	1 Tumor
GSM972137	stage II	270	1 Tumor
GSM972138	stage II	1350	1 Tumor
GSM972139	stage III	1140	1 Tumor
GSM972140	stage II	1680	1 Tumor
GSM972141	stage III	450	1 Tumor
GSM972142	stage III	60	1 Tumor
GSM972143	stage II	4620	0 Tumor
GSM972144	stage II	3630	0 Tumor
GSM972145	stage III	4050	0 Tumor
GSM972146	stage III	1980	0 Tumor
GSM972147	stage II	4200	0 Tumor
GSM972148	stage III	3810	0 Tumor
GSM972149	stage II	3960	0 Tumor
GSM972150	stage III	3270	0 Tumor
GSM972151	stage III	2310	0 Tumor
GSM972152	stage III	1680	0 Tumor
GSM972153	stage II	1980	0 Tumor
GSM972154	stage III	90	1 Tumor
GSM972155	stage III	180	1 Tumor
GSM972156	stage III	3360	0 Tumor
GSM972157	stage III	3540	0 Tumor
GSM972158	stage III	3600	0 Tumor
GSM972159	stage III	2790	0 Tumor
GSM972160	stage II	1170	1 Tumor
GSM972161	stage II	270	1 Tumor
GSM972162	stage III	2310	0 Tumor
GSM972163	stage II	1230	0 Tumor
GSM972164	stage III	90	1 Tumor
GSM972165	stage II	1080	1 Tumor
GSM972166	stage III	90	1 Tumor
GSM972167	stage II	1080	1 Tumor
GSM972168	stage III	120	1 Tumor
GSM972169	stage II	4920	0 Tumor
GSM972170	stage III	2190	0 Tumor
GSM972171	stage III	3900	0 Tumor
GSM972172	stage II	120	1 Tumor
GSM972173	stage II	450	1 Tumor
GSM972174	stage III	2910	0 Tumor
GSM972175	stage III	840	1 Tumor
GSM972176	stage III	1050	1 Tumor
GSM972177	stage II	600	1 Tumor
GSM972178	stage III	630	1 Tumor
GSM972179	stage II	510	1 Tumor
GSM972180	stage II	570	1 Tumor
GSM972181	stage III	390	1 Tumor
GSM972182	stage II	690	1 Tumor
GSM972183	stage III	330	1 Tumor
GSM972184	stage II	120	1 Tumor
GSM972185	stage III	660	1 Tumor
GSM972186	stage III	420	1 Tumor
GSM972187	stage II	270	1 Tumor

GSM972188	stage III	330	1 Tumor
GSM972189	stage III	5760	0 Tumor
GSM972190	stage II	3240	0 Tumor
GSM972191	stage III	3660	0 Tumor
GSM972192	stage II	4740	0 Tumor
GSM972193	stage III	2190	0 Tumor
GSM972194	stage III	2490	0 Tumor
GSM972195	stage II	3600	0 Tumor
GSM972196	stage II	2190	0 Tumor
GSM972197	stage II	1500	0 Tumor
GSM972198	stage III	1710	0 Tumor
GSM972199	stage III	1980	0 Tumor
GSM972200	stage II	1620	0 Tumor
GSM972201	stage III	2010	0 Tumor
GSM972202	stage III	1590	0 Tumor
GSM972203	stage III	1620	0 Tumor
GSM972204	stage II	120	1 Tumor
GSM972205	stage II	210	1 Tumor
GSM972206	stage II	0	1 Tumor
GSM972207	stage III	1020	1 Tumor
GSM972208	stage IV	0	1 Tumor
GSM972209	stage IV	0	1 Tumor
GSM972210	stage IV	0	1 Tumor
GSM972211	stage III	1710	0 Tumor
GSM972212	stage IV	0	1 Tumor
GSM972213	stage IV	0	1 Tumor
GSM972214	stage IV	0	1 Tumor
GSM972215	stage III	1410	0 Tumor
GSM972216	stage IV	0	1 Tumor
GSM972217	stage IV	0	1 Tumor
GSM972218	stage IV	0	1 Tumor
GSM972219	stage IV	0	1 Tumor
GSM972220	stage III	30	0 Tumor
GSM972221	stage II	1950	0 Tumor
GSM972222	stage II	1710	0 Tumor
GSM972223	stage II	990	0 Tumor
GSM972224	stage III	600	1 Tumor
GSM972225	stage II	1110	0 Tumor
GSM972226	stage II	600	0 Tumor
GSM972227	stage IV	600	0 Tumor
GSM972228	stage II	30	0 Tumor
GSM972229	stage II	0	0 Tumor
GSM972230	stage III	810	0 Tumor
GSM972231	stage IV	420	0 Tumor
GSM972232	stage IV	630	0 Tumor
GSM972233	stage II	450	0 Tumor
GSM972234	stage IV	300	0 Tumor
GSM972235	stage III	210	0 Tumor
GSM972236	stage IV	360	0 Tumor
GSM972237	stage I	750	0 Tumor
GSM972238	stage III	570	0 Tumor
GSM972239	stage II	420	0 Tumor
GSM972240	stage IV	420	0 Tumor
GSM972241	stage II	510	0 Tumor
GSM972242	stage I	510	0 Tumor
GSM972243	stage II	60	0 Tumor
GSM972244	stage I	420	0 Tumor
GSM972245	stage IV	0	0 Tumor

GSM972246	stage III	0	0 Tumor
GSM972247	stage II	180	0 Tumor
GSM972248	stage II	420	0 Tumor
GSM972249	stage I	420	0 Tumor
GSM972250	stage III	360	0 Tumor
GSM972251	stage IV	210	0 Tumor
GSM972252	stage IV	480	0 Tumor
GSM972253	stage IV	480	0 Tumor
GSM972254	stage IV	270	1 Tumor
GSM972255	stage II	150	0 Tumor
GSM972256	stage IV	390	1 Tumor
GSM972257	stage II	270	1 Tumor
GSM972258	stage II	0	0 Tumor
GSM972259	stage II	870	0 Tumor
GSM972260	stage IV	390	0 Tumor
GSM972261	stage III	210	0 Tumor
GSM972262	stage II	150	0 Tumor
GSM972263	stage III	2280	0 Tumor
GSM972264	stage II	2190	0 Tumor
GSM972265	stage III	1800	0 Tumor
GSM972266	stage IV	600	0 Tumor
GSM972267	stage II	2010	0 Tumor
GSM972268	stage III	1440	0 Tumor
GSM972269	stage I	2370	0 Tumor
GSM972270	stage II	1950	0 Tumor
GSM972271	stage III	390	1 Tumor
GSM972272	stage IV	450	0 Tumor
GSM972273	stage 0	480	0 Tumor
GSM972274	stage III	1710	0 Tumor
GSM972275	stage II	90	1 Tumor
GSM972276	stage III	1290	0 Tumor
GSM972277	stage II	1530	0 Tumor
GSM972278	stage I	1350	0 Tumor
GSM972279	stage III	1560	0 Tumor
GSM972280	stage II	1380	0 Tumor
GSM972281	stage I	1680	0 Tumor
GSM972282	stage I	1530	0 Tumor
GSM972283	stage II	1530	0 Tumor
GSM972284	stage IV	810	0 Tumor
GSM972285	stage II	60	0 Tumor
GSM972286	stage II	1110	0 Tumor
GSM972287	stage II	1290	0 Tumor
GSM972288	stage IV	1050	0 Tumor
GSM972289	stage IV	510	0 Tumor
GSM972290	stage I	1170	0 Tumor
GSM972291	stage III	300	1 Tumor
GSM972292	stage II	750	0 Tumor
GSM972293	stage I	1500	0 Tumor
GSM972294	stage II	750	0 Tumor
GSM972295	stage III	1830	0 Tumor
GSM972296	stage 0	660	0 Tumor
GSM972297	stage I	1380	0 Tumor
GSM972298	stage II	270	0 Tumor
GSM972299	stage IV	1230	0 Tumor
GSM972300	stage 0	1230	0 Tumor
GSM972301	stage III	3150	0 Tumor
GSM972302	stage III	810	0 Tumor
GSM972303	stage I	570	0 Tumor

GSM972304	stage II	900	0 Tumor
GSM972305	stage III	930	0 Tumor
GSM972306	stage II	1680	0 Tumor
GSM972307	stage II	2460	0 Tumor
GSM972308	stage III	2760	0 Tumor
GSM972309	stage II	2850	0 Tumor
GSM972310	stage III	750	0 Tumor
GSM972311	stage II	3180	0 Tumor
GSM972312	stage II	2910	0 Tumor
GSM972313	stage I	2730	0 Tumor
GSM972314	stage III	1380	0 Tumor
GSM972315	stage I	2520	0 Tumor
GSM972316	stage II	2490	0 Tumor
GSM972317	stage II	150	1 Tumor
GSM972318	stage II	1080	0 Tumor
GSM972319	stage II	2340	0 Tumor
GSM972320	stage III	300	1 Tumor
GSM972321	stage III	270	0 Tumor
GSM972322	stage II	1980	1 Tumor
GSM972323	stage III	2400	0 Tumor
GSM972324	stage II	2460	0 Tumor
GSM972325	stage III	1590	1 Tumor
GSM972326	stage II	2550	0 Tumor
GSM972327	stage II	2490	0 Tumor
GSM972328	stage III	2340	1 Tumor
GSM972329	stage II	2340	0 Tumor
GSM972330	stage II	2580	0 Tumor
GSM972331	stage II	2250	0 Tumor
GSM972332	stage II	2610	0 Tumor
GSM972333	stage II	2400	0 Tumor
GSM972334	stage III	2310	0 Tumor
GSM972335	stage I	1380	0 Tumor
GSM972336	stage III	1500	0 Tumor
GSM972337	stage III	1230	0 Tumor
GSM972338	stage II	2220	0 Tumor
GSM972339	stage III	2280	0 Tumor
GSM972340	stage II	1440	1 Tumor
GSM972341	stage III	2070	0 Tumor
GSM972342	stage I	840	0 Tumor
GSM972343	stage II	1560	0 Tumor
GSM972344	stage II	2250	0 Tumor
GSM972345	stage III	1230	1 Tumor
GSM972346	stage III	2160	0 Tumor
GSM972347	stage II	210	0 Tumor
GSM972348	stage II	1860	0 Tumor
GSM972349	stage III	150	0 Tumor
GSM972351	stage II	720	0 Tumor
GSM972352	stage III	2220	1 Tumor
GSM972353	stage II	3990	0 Tumor
GSM972354	stage III	690	1 Tumor
GSM972355	stage II	510	1 Tumor
GSM972357	stage II	1260	0 Tumor
GSM972358	stage II	2430	0 Tumor
GSM972359	stage II	360	1 Tumor
GSM972360	stage III	4230	0 Tumor
GSM972361	stage III	540	1 Tumor
GSM972362	stage III	2940	0 Tumor
GSM972363	stage III	4200	0 Tumor

GSM972364	stage III	3090	0 Tumor
GSM972365	stage III	1410	0 Tumor
GSM972366	stage III	420	1 Tumor
GSM972367	stage III	2850	0 Tumor
GSM972368	stage III	2760	0 Tumor
GSM972369	stage III	540	1 Tumor
GSM972370	stage III	960	1 Tumor
GSM972371	stage III	2430	0 Tumor
GSM972372	stage III	990	1 Tumor
GSM972373	stage III	1110	1 Tumor
GSM972374	stage III	2700	0 Tumor
GSM972375	stage III	3510	0 Tumor
GSM972376	stage III	2610	0 Tumor
GSM972377	stage III	2460	0 Tumor
GSM972378	stage III	2580	0 Tumor
GSM972379	stage III	2850	0 Tumor
GSM972380	stage III	180	1 Tumor
GSM972381	stage II	810	1 Tumor
GSM972382	stage II	1110	1 Tumor
GSM972383	stage II	2760	0 Tumor
GSM972384	stage II	3180	0 Tumor
GSM972385	stage II	1890	0 Tumor
GSM972386	stage II	2700	0 Tumor
GSM972387	stage II	720	1 Tumor
GSM972388	stage II	2490	0 Tumor
GSM972389	stage II	2790	0 Tumor
GSM972390	stage III	180	1 Tumor
GSM972391	stage II	1290	1 Tumor
GSM972392	stage II	630	1 Tumor
GSM972393	stage II	150	1 Tumor
GSM972394	stage III	180	1 Tumor
GSM972395	stage III	4410	0 Tumor
GSM972396	stage II	3210	0 Tumor
GSM972397	stage II	3150	0 Tumor
GSM972398	stage II	1920	0 Tumor
GSM972399	stage III	2700	0 Tumor
GSM972400	stage IV	240	1 Tumor
GSM972401	stage II	0	0 Tumor
GSM972402	stage II	0	1 Tumor
GSM972403	stage II	1680	0 Tumor
GSM972404	stage II	1440	0 Tumor
GSM972405	stage II	2370	0 Tumor
GSM972406	stage II	3180	0 Tumor
GSM972407	stage II	3960	0 Tumor
GSM972408	stage II	960	0 Tumor
GSM972409	stage II	3120	0 Tumor
GSM972410	stage II	2730	0 Tumor
GSM972411	stage III	3750	0 Tumor
GSM972412	stage III	150	1 Tumor
GSM972413	stage III	480	1 Tumor
GSM972414	stage II	1590	0 Tumor
GSM972415	stage III	240	1 Tumor
GSM972416	stage II	150	1 Tumor
GSM972417	stage II	4380	0 Tumor
GSM972418	stage II	2100	0 Tumor
GSM972419	stage III	900	1 Tumor
GSM972420	stage III	180	1 Tumor
GSM972421	stage III	660	1 Tumor

GSM972422	stage II	390	1 Tumor
GSM972423	stage II	390	1 Tumor
GSM972424	stage II	3120	0 Tumor
GSM972425	stage III	1770	0 Tumor
GSM972426	stage II	2430	0 Tumor
GSM972427	stage II	1590	0 Tumor
GSM972428	stage III	1650	0 Tumor
GSM972429	stage III	1860	0 Tumor
GSM972430	stage II	1590	0 Tumor
GSM972431	stage III	1620	0 Tumor
GSM972432	stage III	570	1 Tumor
GSM972433	stage III	90	1 Tumor
GSM972434	stage II	570	1 Tumor
GSM972435	stage III	420	1 Tumor
GSM972436	stage II	60	1 Tumor
GSM972437	stage IV	0	1 Tumor
GSM972438	stage IV	0	1 Tumor
GSM972439	stage IV	0	1 Tumor
GSM972440	stage II	1560	0 Tumor
GSM972441	stage IV	0	1 Tumor
GSM972442	stage IV	0	1 Tumor
GSM972443	stage II	1440	0 Tumor
GSM972444	stage III	150	1 Tumor
GSM972445	stage II	1050	0 Tumor
GSM972447	stage II	930	0 Tumor
GSM972449	stage III	570	1 Tumor
GSM972450	stage II	570	1 Tumor
GSM972451	stage II	2910	0 Tumor
GSM972452	stage III	2970	0 Tumor
GSM972453	stage III	3000	0 Tumor
GSM972454	stage I	2250	0 Tumor
GSM972455	stage III	2220	0 Tumor
GSM972456	stage II	0	0 Tumor
GSM972457	stage III	1020	1 Tumor
GSM972458	stage II	510	0 Tumor
GSM972459	stage II	360	0 Tumor
GSM972460	stage II	2880	0 Tumor
GSM972461	stage II	2880	0 Tumor
GSM972462	stage I	2640	0 Tumor
GSM972464	stage I	2580	0 Tumor
GSM972465	stage II	2520	0 Tumor
GSM972466	stage III	2250	0 Tumor
GSM972467	stage III	2160	0 Tumor
GSM972468	stage II	720	0 Tumor
GSM972469	stage I	2580	0 Tumor
GSM972470	stage II	2550	0 Tumor
GSM972472	stage II	2400	0 Tumor
GSM972473	stage II	1350	1 Tumor
GSM972474	stage III	270	1 Tumor
GSM972475	stage II	2610	0 Tumor
GSM972476	stage III	1920	0 Tumor
GSM972477	stage II	2430	0 Tumor
GSM972478	stage II	2070	0 Tumor
GSM972479	stage III	90	0 Tumor
GSM972480	stage II	2070	0 Tumor
GSM972481	stage III	1950	0 Tumor
GSM972482	stage II	1260	0 Tumor
GSM972483	stage II	690	1 Tumor

GSM972484	stage II	2280	0 Tumor
GSM972485	stage II	2250	0 Tumor
GSM972486	stage II	990	0 Tumor
GSM972487	stage II	2010	0 Tumor
GSM972488	stage II	1470	0 Tumor
GSM972489	stage II	2220	0 Tumor
GSM972490	stage II	2220	0 Tumor
GSM972491	stage II	2100	0 Tumor
GSM972492	stage I	2040	0 Tumor
GSM972493	stage II	1770	0 Tumor
GSM972494	stage I	1710	0 Tumor
GSM972495	stage III	540	1 Tumor
GSM972496	stage I	4260	0 Tumor
GSM972497	stage III	30	0 Tumor
GSM972498	stage III	570	1 Tumor
GSM972499	stage III	2160	0 Tumor
GSM972501	stage III	3180	0 Tumor
GSM972502	stage II	3930	0 Tumor
GSM972503	stage II	4380	0 Tumor
GSM972504	stage III	720	1 Tumor
GSM972505	stage II	4320	0 Tumor
GSM972506	stage II	4230	0 Tumor
GSM972507	stage III	1260	0 Tumor
GSM972508	stage I	4020	0 Tumor
GSM972509	stage I	420	0 Tumor
GSM972510	stage II	2580	0 Tumor
GSM972511	stage III	1410	0 Tumor
GSM972512	stage III	120	1 Tumor
GSM972513	stage III	390	1 Tumor
GSM972515	stage II	3540	0 Tumor
GSM972516	stage II	1980	0 Tumor
GSM972517	stage II	960	1 Tumor
GSM972518	stage III	450	1 Tumor
GSM972519	stage II	330	1 Tumor
GSM972520	stage III	1860	0 Tumor
GSM972521	stage II	2280	0 Tumor
GSM972522	stage II	2970	0 Tumor

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Subtype	NMF clusters
CINWntUp	CC2
CSC	CC3
KRASm	CC2
CINImmuneDown	CC1
CSC	CC3
CSC	CC3
dMMR	CC2
CINImmuneDown	CC2
CINImmuneDown	CC3
CINWntUp	CC1
CSC	CC3
dMMR	CC2
KRASm	CC2
dMMR	CC2
CINImmuneDown	CC2
CINWntUp	CC2
KRASm	CC2
CINImmuneDown	CC1
CINWntUp	CC1
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
KRASm	CC2
CINWntUp	CC3
CINnormL	CC3
dMMR	CC2
KRASm	CC2
KRASm	CC2
CINWntUp	CC1
CINImmuneDown	CC1
KRASm	CC2
CINWntUp	CC1
CINnormL	CC2
CSC	CC3
dMMR	CC2
CINnormL	CC2
CINnormL	CC2
CINWntUp	CC1
CINImmuneDown	CC1
KRASm	CC2
CINImmuneDown	CC2
CINImmuneDown	CC1
KRASm	CC1
CINWntUp	CC3
CSC	CC3
CSC	CC3
CINnormL	CC3
CINWntUp	CC3
CSC	CC3
KRASm	CC2
CINWntUp	CC1

CINWntUp	CC1
dMMR	CC2
dMMR	CC2
CINImmuneDown	CC3
CINWntUp	CC3
CSC	CC3
CINnormL	CC3
dMMR	CC3
CINImmuneDown	CC3
KRASm	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CSC	CC3
CINWntUp	CC3
CINnormL	CC3
CINnormL	CC3
dMMR	CC3
CINWntUp	CC1
CINWntUp	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
KRASm	CC2
KRASm	CC2
CINWntUp	CC1
CSC	CC3
CINWntUp	CC1
CINWntUp	CC1
KRASm	CC2
CINImmuneDown	CC1
KRASm	CC2
KRASm	CC2
CINWntUp	CC3
CINWntUp	CC1
CINImmuneDown	CC1
KRASm	CC2
KRASm	CC2
CSC	CC3
CINWntUp	CC1
CINWntUp	CC1
CSC	CC3
dMMR	CC2
dMMR	CC2
CINImmuneDown	CC1
dMMR	CC2
dMMR	CC3
CINWntUp	CC1
CINImmuneDown	CC3
CINnormL	CC3
CINImmuneDown	CC3
CSC	CC3
CINImmuneDown	CC3
CINImmuneDown	CC1
CINWntUp	CC3
CSC	CC3
CINWntUp	CC1
CINnormL	CC3
CINWntUp	CC1

CSC	CC2
CSC	CC3
CINImmuneDown	CC1
dMMR	CC2
dMMR	CC2
CINnormL	CC3
CINWntUp	CC3
dMMR	CC3
dMMR	CC2
CINImmuneDown	CC2
dMMR	CC3
CINWntUp	CC3
CINnormL	CC3
CINImmuneDown	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CINnormL	CC3
CSC	CC3
CINImmuneDown	CC1
KRASm	CC2
CINWntUp	CC3
CINWntUp	CC1
CINWntUp	CC3
CINWntUp	CC1
CINImmuneDown	CC1
CSC	CC3
KRASm	CC2
CINWntUp	CC1
KRASm	CC2
CINnormL	CC3
CINnormL	CC3
dMMR	CC2
CSC	CC3
CINWntUp	CC3
CINWntUp	CC1
CINnormL	CC3
CINWntUp	CC1
dMMR	CC2
KRASm	CC2
KRASm	CC2
CSC	CC3
CSC	CC3
KRASm	CC2
CINnormL	CC3
CINnormL	CC3
dMMR	CC2
CINImmuneDown	CC2
CINWntUp	CC1
CINWntUp	CC2
KRASm	CC2
CINWntUp	CC1
CINImmuneDown	CC1
CINnormL	CC1
CINnormL	CC3
CINWntUp	CC1
CINnormL	CC3
CINWntUp	CC3
dMMR	CC2

CINWntUp	CC1
CSC	CC3
CINWntUp	CC1
CINnormL	CC3
CINWntUp	CC3
KRASm	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CSC	CC3
CINWntUp	CC3
CINWntUp	CC1
CINWntUp	CC3
CINImmuneDown	CC1
CINnormL	CC3
dMMR	CC3
CINWntUp	CC1
CINWntUp	CC1
CINImmuneDown	CC3
CINnormL	CC3
KRASm	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC2
CINnormL	CC1
CINWntUp	CC3
CSC	CC3
KRASm	CC2
CINWntUp	CC3
CINImmuneDown	CC3
CINWntUp	CC3
CINnormL	CC3
CINWntUp	CC1
CINnormL	CC3
CINImmuneDown	CC1
CINWntUp	CC1
dMMR	CC2
CINImmuneDown	CC1
CINWntUp	CC3
dMMR	CC3
dMMR	CC3
CINImmuneDown	CC1
CINnormL	CC3
CINImmuneDown	CC1
CINWntUp	CC3
CINnormL	CC3
KRASm	CC3
CINWntUp	CC3
dMMR	CC2
CSC	CC3
CINImmuneDown	CC3
KRASm	CC2
CSC	CC3
CINImmuneDown	CC3
CSC	CC3
dMMR	CC3

CINImmuneDown	CC3
dMMR	CC2
CINWntUp	CC1
KRASm	CC2
dMMR	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
KRASm	CC2
dMMR	CC2
KRASm	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
CINnormL	CC1
CINWntUp	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC3
CINWntUp	CC3
CINnormL	CC3
CINWntUp	CC3
CINWntUp	CC3
CINWntUp	CC3
CSC	CC3
CINWntUp	CC1
KRASm	CC2
CINWntUp	CC3
dMMR	CC2
CINWntUp	CC2
CINImmuneDown	CC1
CINWntUp	CC1
KRASm	CC2
CINWntUp	CC1
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC1
KRASm	CC2
KRASm	CC2
KRASm	CC2
dMMR	CC2
CINImmuneDown	CC1
CSC	CC3
CSC	CC3
CINWntUp	CC1
CSC	CC3
CINWntUp	CC1
CINWntUp	CC1
CINWntUp	CC1
CINWntUp	CC1
CSC	CC2
CSC	CC3
dMMR	CC2
CINWntUp	CC2
CINImmuneDown	CC1
CINnormL	CC3
CINImmuneDown	CC1

CINWntUp	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
CINWntUp	CC1
CINImmuneDown	CC1
CINWntUp	CC3
CINWntUp	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
KRASm	CC3
CINImmuneDown	CC3
dMMR	CC2
CSC	CC3
dMMR	CC2
dMMR	CC2
dMMR	CC2
dMMR	CC1
CINImmuneDown	CC1
KRASm	CC2
KRASm	CC3
dMMR	CC2
CINWntUp	CC1
CINImmuneDown	CC1
KRASm	CC1
dMMR	CC2
CSC	CC3
dMMR	CC2
dMMR	CC2
dMMR	CC2
CSC	CC2
dMMR	CC2
CINWntUp	CC2
dMMR	CC1
dMMR	CC2
CINWntUp	CC1
dMMR	CC2
dMMR	CC2
dMMR	CC2
CINWntUp	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CSC	CC1
dMMR	CC2
dMMR	CC2
dMMR	CC2
KRASm	CC1
KRASm	CC2
dMMR	CC3
dMMR	CC2
CINWntUp	CC1
KRASm	CC1
CINnormL	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1

KRASm	CC2
dMMR	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
dMMR	CC2
CINImmuneDown	CC1
CINImmuneDown	CC2
CINWntUp	CC3
CINWntUp	CC1
CINWntUp	CC1
dMMR	CC2
KRASm	CC2
dMMR	CC2
dMMR	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
CINnormL	CC1
CINnormL	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
KRASm	CC2
KRASm	CC1
dMMR	CC2
CINWntUp	CC1
CINnormL	CC1
dMMR	CC2
CINWntUp	CC1
dMMR	CC2
CINImmuneDown	CC1
dMMR	CC2
CINImmuneDown	CC1
CINnormL	CC1
dMMR	CC2
CINnormL	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
CSC	CC1
dMMR	CC2
CINWntUp	CC1
CINImmuneDown	CC1
CSC	CC3
CINnormL	CC1
CINWntUp	CC3
dMMR	CC2
dMMR	CC1
CINWntUp	CC3
CINnormL	CC3
CINWntUp	CC1
CINnormL	CC3
CINWntUp	CC1
CSC	CC3
CINImmuneDown	CC1
CINWntUp	CC1

KRASm	CC2
CSC	CC3
CINnormL	CC3
CSC	CC3
CINImmuneDown	CC1
CINWntUp	CC3
CINImmuneDown	CC1
CINWntUp	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINnormL	CC1
CSC	CC3
CINWntUp	CC1
CINWntUp	CC3
CINWntUp	CC1
KRASm	CC1
CSC	CC3
CINWntUp	CC1
CINWntUp	CC1
CINnormL	CC1
CINWntUp	CC1
CSC	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
KRASm	CC2
KRASm	CC2
dMMR	CC2
CINImmuneDown	CC1
CINWntUp	CC3
CINnormL	CC3
CINWntUp	CC1
KRASm	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINnormL	CC2
CSC	CC3
CINWntUp	CC3
dMMR	CC2
CINImmuneDown	CC1
CINWntUp	CC1
dMMR	CC2
CINWntUp	CC3
CINWntUp	CC3
CSC	CC3
CINWntUp	CC3
CINImmuneDown	CC1
CSC	CC3
CSC	CC3
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC3
CINWntUp	CC3
CINWntUp	CC1
CINWntUp	CC3
dMMR	CC3
CINWntUp	CC3

CSC	CC3
CINnormL	CC3
CINnormL	CC3
dMMR	CC3
CINnormL	CC3
CINWntUp	CC3
CINWntUp	CC3
KRASm	CC2
dMMR	CC2
CINWntUp	CC3
CINnormL	CC3
CSC	CC3
CINImmuneDown	CC2
CINImmuneDown	CC3
CINImmuneDown	CC1
CINWntUp	CC3
CSC	CC3
CINnormL	CC3
CSC	CC3
CINnormL	CC3
CINImmuneDown	CC2
KRASm	CC2
CSC	CC2
dMMR	CC2
dMMR	CC2
CINnormL	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
dMMR	CC2
KRASm	CC2
CINnormL	CC1
dMMR	CC2
CINWntUp	CC1
KRASm	CC1
dMMR	CC2
KRASm	CC2
CINWntUp	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
dMMR	CC2
CINImmuneDown	CC1
CSC	CC3
CINWntUp	CC1
CINWntUp	CC1
dMMR	CC2
KRASm	CC2
KRASm	CC2
CINnormL	CC1
KRASm	CC2
CSC	CC3
KRASm	CC2
CINnormL	CC1
CSC	CC3
KRASm	CC2
CINWntUp	CC1
dMMR	CC2
CINWntUp	CC1

CINWntUp	CC1
CINWntUp	CC1
CINWntUp	CC1
KRASm	CC2
KRASm	CC2
KRASm	CC2
CINImmuneDown	CC1
CINWntUp	CC1
CINWntUp	CC1
CINWntUp	CC1
dMMR	CC2
CINWntUp	CC1
KRASm	CC1
CINWntUp	CC1
CINImmuneDown	CC1
dMMR	CC2
CINWntUp	CC1
KRASm	CC2
CINnormL	CC3
CINImmuneDown	CC3
CINImmuneDown	CC2
CINnormL	CC3
dMMR	CC2
CINImmuneDown	CC1
CINImmuneDown	CC1
KRASm	CC1
CINWntUp	CC1
KRASm	CC2
CINWntUp	CC1
CINImmuneDown	CC1
CINImmuneDown	CC1
CINWntUp	CC1
CINnormL	CC3
CINnormL	CC3
dMMR	CC2
CSC	CC3
dMMR	CC3

Table S1. Basic information of bulk databases (TCGA, GSE14333, GSE39582 and

samples	Stage	RFS (days)	RFS.event	
GSM929508	stage II	438.9999999		1
GSM929511	stage III		858	1
GSM929622	stage III		78	1
GSM929546	stage II		263	1
GSM929623	stage III	350.0000001		1
GSM929539	stage II	383.0000001		1
GSM929614	stage III		561	1
GSM929496	stage III		165	1
GSM929574	stage III		645	1
GSM929590	stage III	551.0000001		1
GSM929586	stage II	750.9999999		1
GSM929585	stage II	840.9999999		1
GSM929612	stage III		993	1
GSM929609	stage III		204	1
GSM929497	stage III		209	1
GSM929593	stage III		438	1
GSM929591	stage II		519	1
GSM929551	stage II		1387	1
GSM929587	stage II		1150	1
GSM929523	stage III	300.9999999		1
GSM929519	stage III	779.0000001		1
GSM929524	stage III		591	1
GSM929525	stage III		111	1
GSM929599	stage III		1015	1
GSM929617	stage III	336.9999999		1
GSM929576	stage III		137	1
GSM929572	stage III		366	1
GSM929499	stage III	965.0000001		1
GSM929504	stage III	965.0000001		1
GSM929610	stage III		1156	1
GSM929498	stage III		1140	1
GSM929618	stage III	608.0000001		1
GSM929575	stage III	549.9999999		1
GSM929577	stage III		426	1
GSM929502	stage III		199	1
GSM929503	stage III		200	1
GSM929500	stage III		1721	1
GSM929494	stage II		1705	0
GSM929495	stage II		1211	0
GSM929501	stage III		1757	0
GSM929505	stage II		2773	0
GSM929506	stage II		1259	0
GSM929507	stage II		2600	0
GSM929509	stage II		2308	0
GSM929510	stage II	357.9999999		0
GSM929512	stage III	981.9999999		0
GSM929513	stage III		1259	0
GSM929514	stage II		2168	0
GSM929515	stage II		1941	0
GSM929516	stage II		1695	0
GSM929517	stage II		1399	0
GSM929518	stage III	461.0000001		0
GSM929520	stage III		1107	0
GSM929521	stage III		1100	0
GSM929522	stage III		1083	0
GSM929526	stage III		459	0

GSM929527	stage III	774.9999999	0
GSM929528	stage II	1621	0
GSM929529	stage II	1096	0
GSM929530	stage II	1240	0
GSM929531	stage II	1355	0
GSM929532	stage II	1348	0
GSM929533	stage II	1369	0
GSM929534	stage II	1390	0
GSM929535	stage II	1326	0
GSM929536	stage II	1736	0
GSM929537	stage II	1349	0
GSM929538	stage II	1285	0
GSM929540	stage II	1948	0
GSM929541	stage II	1700	0
GSM929542	stage II	1553	0
GSM929543	stage II	1282	0
GSM929544	stage II	1006	0
GSM929545	stage II	1323	0
GSM929547	stage II	1456	0
GSM929548	stage II	2429	0
GSM929549	stage II	2654	0
GSM929550	stage II	2124	0
GSM929552	stage II	1444	0
GSM929553	stage II	2274	0
GSM929554	stage II	1878	0
GSM929555	stage II	2059	0
GSM929556	stage II	468.9999999	0
GSM929557	stage II	899.0000001	0
GSM929558	stage II	1788	0
GSM929559	stage II	17.00000001	0
GSM929560	stage II	1032	0
GSM929561	stage II	39	0
GSM929562	stage II	804	0
GSM929563	stage II	816	0
GSM929564	stage II	590.0000001	0
GSM929565	stage II	1693	0
GSM929566	stage II	1834	0
GSM929567	stage II	1522	0
GSM929568	stage II	1545	0
GSM929569	stage II	2101	0
GSM929570	stage II	1210	0
GSM929571	stage II	1534	0
GSM929573	stage III	1430	0
GSM929578	stage III	999	0
GSM929579	stage II	1685	0
GSM929580	stage II	1663	0
GSM929581	stage II	1680	0
GSM929582	stage II	1939	0
GSM929583	stage II	1771	0
GSM929584	stage II	1779	0
GSM929588	stage II	2155	0
GSM929589	stage III	1904	0
GSM929592	stage III	1432	0
GSM929594	stage III	1820	0
GSM929595	stage III	1804	0
GSM929596	stage III	3137.000001	0
GSM929597	stage III	1787	0
GSM929598	stage III	1668	0

GSM929600	stage III	2163	0
GSM929601	stage III	1853	0
GSM929602	stage II	1096	0
GSM929603	stage III	1496	0
GSM929604	stage III	2818	0
GSM929605	stage III	1407	0
GSM929606	stage III	1099	0
GSM929607	stage III	2864	0
GSM929608	stage III	1149	0
GSM929611	stage III	1327	0
GSM929613	stage II	1416	0
GSM929615	stage III	2135	0
GSM929616	stage II	160	0
GSM929619	stage II	1887	0
GSM929620	stage II	2624	0
GSM929621	stage II	2860	0

Tumor	CC2
Tumor	CC1
Tumor	CC1
Tumor	CC3
Tumor	CC2
Tumor	CC2
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC2
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Tumor	CC3
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC1
Tumor	CC3
Tumor	CC1
Tumor	CC3
Tumor	CC3

Table S2. Basic information of single-cell databases (GSE144735) (SMC and KI

Tumor	Sample type	Gender	Age	TNM stage	Stage
SMC01-T	Colorectal cancer	F		64 T3 N0 M0	IIA
SMC02-T	Colorectal cancer	M		66 T3 N1b M0	IIIB
SMC03-T	Colorectal cancer	F		83 T4b N2a M0	IIIC
SMC04-T	Colorectal cancer	M		69 T3 N1b M0	IIIB
SMC05-T	Colorectal cancer	F		58 T3 N0 M0	IIA
SMC06-T	Colorectal cancer	M		46 T3 N1b M0	IIIB
SMC07-T	Colorectal cancer	F		67 T2 N0 M0	I
SMC08-T	Colorectal cancer	M		68 T3 N1b M0	IIIB
SMC09-T	Colorectal cancer	M		75 T3 N0 M0	IIA
SMC10-T	Colorectal cancer	F		77 T3 N0 M0	IIA
SMC11-T	Colorectal cancer	F		38 T2 N1a M0	IIIA
SMC14-T	Colorectal cancer	M		77 T4a N1b M0	IIIB
SMC15-T	Colorectal cancer	M		56 T3 N0 M0	IIA
SMC16-T	Colorectal cancer	M		59 T4a N1b M0	IIIB
SMC17-T	Colorectal cancer	M		47 T4a N1b M0	IIIB
SMC18-T	Colorectal cancer	F		63 T3 N0 M0	IIA
SMC19-T	Colorectal cancer	F		80 T3 N1 M0	IIIB
SMC20-T	Colorectal cancer	F		65 T4a N1c M0	IIIB
SMC21-T	Colorectal cancer	M		51 T3 N1 M1a	IVA
SMC22-T	Colorectal cancer	M		76 T3 N1b M0	IIIB
SMC23-T	Colorectal cancer	F		67 T3 N1b M0	IIIB
SMC24-T	Colorectal cancer	F		48 T1 N0 M0	I
SMC25-T	Colorectal cancer	F		57 T3 N2b M1a	IVA

JL cohorts)

Anatomic regic	Left/Right-sided	MSI
rectum	left	MSS
rectum	left	MSS
hepatic flexure	right	MSI-H
sigmoid	left	MSS
ascending	right	MSS
hepatic flexure	right	MSI-H
ascending	right	MSS
sigmoid	left	MSS
sigmoid	left	MSS
ascending	right	MSI-H
sigmoid	left	MSS
rectosigmoid	left	MSS
sigmoid	left	MSS
ascending	right	MSS
hepatic flexure	right	MSS
sigmoid	left	MSS
ascending	right	MSS
ascending	right	MSS
rectum	left	MSS
sigmoid	left	MSS
ascending	right	MSS
ascending	right	MSI-H
sigmoid	left	MSS

Pathological subtype	Bulk CMS subtypes
Adenocarcinoma, well differentiated	CMS3
Adenocarcinoma, well differentiated	CMS4
Adenocarcinoma, poorly differentiated	CMS1
Adenocarcinoma, moderately differentiated	CMS4
Adenocarcinoma, well differentiated with mucin production (<10%)	CMS3
Adenocarcinoma, well differentiated	CMS1
Adenocarcinoma, well differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS1
Adenocarcinoma, well differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS1
Adenocarcinoma, well differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS4
Adenocarcinoma, well differentiated	CMS1
Adenocarcinoma, moderately differentiated	CMS3
Mucinous adenocarcinoma	CMS4
Adenocarcinoma, moderately differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS3
Mucinous adenocarcinoma	CMS4
Adenocarcinoma, moderately differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS2
Adenocarcinoma, moderately differentiated	CMS2
Adenocarcinoma, well differentiated with mucin production (10%)	CMS4
Adenocarcinoma, moderately differentiated	CMS2

KRAS	BRAF	TP53	APC	SMAD4
Mutant	Wildtype	Mutant	Mutant	Wildtype
Wildtype	Wildtype	Mutant	Mutant	Mutant
Wildtype	Mutant	Wildtype	Mutant	Wildtype
Mutant	Wildtype	Mutant	Mutant	Wildtype
Mutant	Wildtype	Wildtype	Mutant	Wildtype
Mutant	Wildtype	Wildtype	Wildtype	Wildtype
Mutant	Wildtype	Mutant	Mutant	Wildtype
Wildtype	Wildtype	Mutant	Mutant	Wildtype
Wildtype	Wildtype	Mutant	Mutant	Wildtype
Wildtype	Mutant	Wildtype	Wildtype	Wildtype
Wildtype	Wildtype	Mutant	Mutant	Wildtype
Mutant	Wildtype	Wildtype	Wildtype	Wildtype
Wildtype	Wildtype	Wildtype	Mutant	Wildtype
Wildtype	Wildtype	Wildtype	Wildtype	Wildtype
Wildtype	Mutant	Wildtype	Wildtype	Mutant
Wildtype	Wildtype	Mutant	Mutant	Wildtype
Mutant	Wildtype	Mutant	Mutant	Wildtype
Mutant	Wildtype	Mutant	Wildtype	Wildtype
Wildtype	Wildtype	Mutant	Mutant	Mutant
Wildtype	Mutant	Mutant	Mutant	Wildtype
Mutant	Wildtype	Mutant	Mutant	Wildtype
Mutant	Wildtype	Wildtype	Mutant	Mutant
Wildtype	Wildtype	Mutant	Mutant	Wildtype

Table S2. Basic information of single-cell databases (GSE144735) (SMC

Patient	Core	Sample type	Gender	Age
KUL01	KUL01-T	Colorectal cancer	F	81
KUL19	KUL19-T	Colorectal cancer	F	86
KUL21	KUL21-T	Colorectal cancer	F	50
KUL28	KUL28-T	Colorectal cancer	M	52
KUL30	KUL30-T	Colorectal cancer	M	84
KUL31	KUL31-T	Colorectal cancer	M	85

and KUL cohorts)

TNM stage	Stage	Anatomic region	Left/Right-sided	MSI
pT4aN0	IIB	caecum	right	MSI-H
pT3N1b	IIIB	rectosigmoid	left	MSS
pT4aN1aM1a	IVA	sigmoid	left	MSS
pT3N0L1	IIA	sigmoid	left	MSS
pT3N0L1	IIA	ascending	right	MSS
pT1N0	I	sigmoid	left	MSS

Pathological subtype

Global moderately differentiated adenocarcinoma with mixed glandular, mucinous growth pattern, moderate

Moderately differentiated adenocarcinoma NST

Moderately differentiated adenocarcinoma

Moderately differentiated adenocarcinoma

Moderately differentiated adenocarcinoma

Well differentiated adenocarcinoma NST

Bulk CMS subtypes	TP53	APC	KRAS	BRAF	SMAD4
Unknown	Mutant	Wildtype	Wildtype	Mutant	Wildtype
CMS4	Mutant	Mutant	Wildtype	Wildtype	Wildtype
CMS1	Mutant	Mutant	Mutant	Wildtype	Wildtype
CMS2	Mutant	Mutant	Wildtype	Wildtype	Wildtype
CMS2	Wildtype	Mutant	Mutant	Wildtype	Mutant
CMS3	Wildtype	Mutant	Mutant	Wildtype	Wildtype

Table S3. Bi

Symbol

RPL8

IREB2

ATP5MC3

CS

EMC2

ACSF2

NOX1

CYBB

NOX3

NOX4

NOX5

DUOX1

DUOX2

G6PD

PGD

VDAC2

TP53

ACSL4

LPCAT3

NRAS

KRAS

HRAS

CARS1

KEAP1

HMOX1

ATG5

ATG7

NCOA4

ALOX12

ALOX12B

ALOX15

ALOX15B

ALOXE3

PHKG2

SAT1

EGFR

MAPK3

MAPK1

ZEB1

DPP4

CDKN2A

PEBP1

SOCS1

CDO1

MYB

CHAC1

LINC00472

PRKAA2

PRKAA1

ELAVL1

BAP1

ABCC1

MIR6852

ACVR1B

TGFB1

IFNG
ANO6
HMGB1
TNFAIP3
ATF3
ATM
YY1AP1
EGLN2
MIOX
TAZ
MTDH
IDH1
FBXW7
PANX1
DNAJB6
LONP1
PTGS2
DUSP1
NOS2
NCF2
MT3
UBC
ALB
TXNRD1
SRXN1
GPX2
BNIP3
OXSR1
SELENOS
ANGPTL7
CHAC1
SLC7A11
DDIT4
LOC284561
ASNS
TSC22D3
DDIT3
JDP2
SESN2
SLC1A4
PCK2
TXNIP
VLDLR
GPT2
PSAT1
LURAP1L
SLC7A5
HERPUD1
XBP1
ATF3
SLC3A2
CBS
ATF4
ZNF419
KLHL24
TRIB3
ZFP69B
ATP6V1G2

VEGFA
GDF15
TUBE1
ARRDC3
CEBPG
SNORA16A
RGS4
BLOC1S5-TX
LOC390705
EIF2S1
HSD17B11
AGPAT3
SETD1B
HMOX1
TF
FTL
RPL8
ATP5MC3
TFRC
MAFG
FTH1
DRD5
DRD4
MAP3K5
MAPK14
SLC2A1
SLC2A3
SLC2A6
SLC2A8
SLC2A12
GLUT13
SLC2A14
EIF2AK4
ALOX5
ALOX12
ALOX15
HMGB1
ELAVL1
HBA1
NNMT
PLIN4
HIC1
STMN1
RRM2
CAPG
HNF4A
NGB
YWHAE
GABPB1
AURKA
MIR4715
RIPK1
PRDX1
MIR30B
SLC7A11
GPX4
AKR1C1
AKR1C2

AKR1C3
RB1
HSPB1
HSF1
NFE2L2
SQSTM1
NQO1
HMOX1
FTH1
MUC1
MT1G
SLC40A1
CISD1
HSPA5
ATF4
TP53
HELLS
SCD
FADS2
SRC
STAT3
PML
NFS1
TP63
CDKN1A
MIR137
VDAC2
FH
CISD2
MIR9-1
MIR9-2
MIR9-3
CBS
ISCU
ACSL3
OTUB1
CD44
LINC00336
BRD4
PRDX6
MIR17
SESN2
NF2
ARNTL
HIF1A
JUN
CA9
TMBIM4
PLIN2
AIFM2
LAMP2
ZFP36
PROM2
CHMP5
CHMP6
CAV1
GCH1

ological information of ferroptosis-associated genes (human genes)

Name

Ribosomal protein L8
Iron response element binding protein 2
ATP synthase membrane subunit c locus 3
Citrate synthase
ER membrane protein complex subunit 2
Acyl-CoA synthetase family member 2
Nicotinamide adenine dinucleotide phosphate (NADPH) oxidase (NOX) 1
Cytochrome b-245 beta chain
Nicotinamide adenine dinucleotide phosphate (NADPH) oxidase (NOX) 3
Nicotinamide adenine dinucleotide phosphate (NADPH) oxidase (NOX) 4
Nicotinamide adenine dinucleotide phosphate (NADPH) oxidase (NOX) 5
Dual oxidase 1
Dual oxidase 2
Glucose-6-phosphate dehydrogenase
Phosphoglycerate dehydrogenase
Voltage-dependent anion channels 2
Tumor protein p53
Acyl-CoA synthetase long chain family member 4
Lysophosphatidylcholine acyltransferase 3
NRAS proto-oncogene, GTPase
KRAS proto-oncogene, GTPase
HRas proto-oncogene, GTPase
Cysteinyl-tRNA synthetase 1
Kelch like ECH associated protein 1
Heme oxygenase 1
Autophagy related 5
Autophagy related 7
Nuclear receptor coactivator 4
Arachidonate 12-lipoxygenase, 12S type
Arachidonate 12-lipoxygenase, 12R type
Arachidonate 15-lipoxygenase
Arachidonate 15-lipoxygenase type B
Arachidonate lipoxygenase 3
Phosphorylase kinase catalytic subunit gamma 2
Spermidine/spermine N1-acetyltransferase 1
Epidermal growth factor receptor
Mitogen-activated protein kinase 3
Mitogen-activated protein kinase 1
Zinc finger E-box binding homeobox 1
Dipeptidyl peptidase 4
Cyclin dependent kinase inhibitor 2A
Phosphatidylethanolamine binding protein 1
Suppressor of cytokine signaling 1
Cysteine dioxygenase type 1
MYB proto-oncogene, transcription factor
ChaC glutathione specific gamma-glutamylcyclotransferase 1
Long intergenic non-protein coding RNA 472
Protein kinase AMP-activated catalytic subunit alpha 2
Protein kinase AMP-activated catalytic subunit alpha 1
ELAV like RNA binding protein 1
BRCA1 associated protein 1
ATP binding cassette subfamily C member 1
microRNA 6852
Activin A receptor type 1B
Transforming growth factor beta receptor 1

Interferon gamma
Anoctamin 6
High mobility group box 1
TNF alpha induced protein 3
Activating transcription factor 3
ATM serine/threonine kinase
YY1 associated protein 1
Egl-9 family hypoxia inducible factor 2
Myo-inositol oxygenase
Tafazzin
Metadherin
Isocitrate dehydrogenase (NADP(+)) 1
F-box and WD repeat domain containing 7
Pannexin 1
DnaJ heat shock protein family (Hsp40) member B6
Lon peptidase 1, mitochondrial
Prostaglandin-endoperoxide synthase 2
Dual specificity phosphatase 1
Nitric oxide synthase 2
Neutrophil cytosolic factor 2
Metallothionein 3
Ubiquitin C
Albumin
Thioredoxin reductase 1
Sulfiredoxin 1
Glutathione peroxidase 2
BCL2 interacting protein 3
Oxidative stress responsive kinase 1
Selenoprotein S
Angiopoietin like 7
ChaC glutathione specific gamma-glutamylcyclotransferase 1
Solute carrier family 7 member 11
DNA damage inducible transcript 4
NA
Asparagine synthetase (glutamine-hydrolyzing)
TSC22 domain family member 3
DNA damage inducible transcript 3
Jun dimerization protein 2
Sestrin 2
Solute carrier family 1 member 4
Phosphoenolpyruvate carboxykinase 2, mitochondrial
Thioredoxin interacting protein
Very low density lipoprotein receptor
Glutamic--pyruvic transaminase 2
Phosphoserine aminotransferase 1
Leucine rich adaptor protein 1 like
Solute carrier family 7 member 5
Homocysteine inducible ER protein with ubiquitin like domain 1
X-box binding protein 1
Activating transcription factor 3
Solute carrier family 3 member 2
Cystathionine beta-synthase
Activating transcription factor 4
Zinc finger protein 419
Kelch like family member 24
Tribbles pseudokinase 3
ZFP69 zinc finger protein B
ATPase H+ transporting V1 subunit G2

Vascular endothelial growth factor A
Growth differentiation factor 15
Tubulin epsilon 1
Arrestin domain containing 3
CCAAT enhancer binding protein gamma
Small nucleolar RNA, H/ACA box 16A
Regulator of G protein signaling 4
BLOC1S5-TXNDC5 readthrough (NMD candidate)
NA
Eukaryotic translation initiation factor 2 subunit 1
Hydroxysteroid 17-beta dehydrogenase 11
1-acylglycerol-3-phosphate O-acyltransferase 3
SET domain containing 1B, histone lysine methyltransferase
Heme oxygenase 1
Transferrin
Ferritin light chain
Ribosomal protein L8
ATP synthase membrane subunit c locus 3
Transferrin receptor
MAF bZIP transcription factor G
Ferritin heavy chain 1
Dopamine receptor D5
Dopamine receptor D4
Mitogen-activated protein kinase kinase kinase 5
Mitogen-activated protein kinase 14
Solute carrier family 2 member 1
Solute carrier family 2 member 3
Solute carrier family 2 member 6
Solute carrier family 2 member 8
Solute carrier family 2 member 12
NA
Solute carrier family 2 member 14
Eukaryotic translation initiation factor 2 alpha kinase 4
Arachidonate 5-lipoxygenase
Arachidonate 12-lipoxygenase, 12S type
Arachidonate 15-lipoxygenase
High mobility group box 1
ELAV like RNA binding protein 1
Hemoglobin subunit alpha 1
Nicotinamide N-methyltransferase
Perilipin 4
HIC ZBTB transcriptional repressor 1
Stathmin 1
Ribonucleotide reductase regulatory subunit M2
Capping actin protein, gelsolin like
Hepatocyte nuclear factor 4 alpha
Neuroglobin
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon
GA binding protein transcription factor subunit beta 1
Aurora kinase A
microRNA 4715
Receptor interacting serine/threonine kinase 1
Peroxiredoxin 1
microRNA 30b
Solute carrier family 7 member 11
Glutathione peroxidase 4
Aldo-keto reductase family 1 member C1
Aldo-keto reductase family 1 member C2

Aldo-keto reductase family 1 member C3
RB transcriptional corepressor 1
Heat shock protein family B (small) member 1
Heat shock transcription factor 1
Nuclear factor, erythroid 2 like 2
Sequestosome 1
NAD(P)H quinone dehydrogenase 1
Heme oxygenase 1
Ferritin heavy chain 1
Mucin 1, cell surface associated
Metallothionein 1G
Solute carrier family 40 member 1
CDGSH iron sulfur domain 1
Heat shock protein family A (Hsp70) member 5
Activating transcription factor 4
Tumor protein p53
Helicase, lymphoid specific
Stearoyl-CoA desaturase
Fatty acid desaturase 2
SRC proto-oncogene, non-receptor tyrosine kinase
Signal transducer and activator of transcription 3
Promyelocytic leukemia
NFS1 cysteine desulfurase
Tumor protein p63
Cyclin dependent kinase inhibitor 1A
microRNA 137
Voltage dependent anion channel 2
Fumarate hydratase
CDGSH iron sulfur domain 2
microRNA 9-1
microRNA 9-2
microRNA 9-3
Cystathionine beta-synthase
Iron-sulfur cluster assembly enzyme
Acyl-CoA synthetase long chain family member 3
OTU deubiquitinase, ubiquitin aldehyde binding 1
CD44 molecule (Indian blood group)
Long intergenic non-protein coding RNA 336
Bromodomain containing 4
Peroxiredoxin 6
microRNA 17
Sestrin 2
Neurofibromin 2
Aryl hydrocarbon receptor nuclear translocator like
Hypoxia inducible factor 1 subunit alpha
Jun proto-oncogene, AP-1 transcription factor subunit
Carbonic anhydrase 9
Transmembrane BAX inhibitor motif containing 4
Perilipin 2
Apoptosis inducing factor mitochondria associated 2
Lysosomal associated membrane protein 2
ZFP36 ring finger protein
Prominin 2
Charged multivesicular body protein 5
Charged multivesicular body protein 6
Caveolin 1
GTP cyclohydrolase 1

HGNC_ID
HGNC:10368
HGNC:6115
HGNC:843
HGNC:2422
HGNC:28963
HGNC:26101
HGNC:7889
HGNC:2578
HGNC:7890
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HGNC:31452
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HGNC:13744
HGNC:12801
HGNC:785
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HGNC:28053
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HGNC:701
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HGNC:6204
HGNC:1383
HGNC:24257
HGNC:248
HGNC:21411
HGNC:6501
HGNC:12862
HGNC:20685
HGNC:26942
HGNC:25675
HGNC:1527
HGNC:4193

Evidence

Required in erastin-induced ferroptosis. Silencing of it conferred against erastin-induced ferroptosis.
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Required in erastin-induced ferroptosis. Silencing of it conferred against erastin-induced ferroptosis.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Suppresses erastin-induced ferroptosis when inhibited by inhibitor.
Required in erastin-induced ferroptosis.
Required in erastin-induced ferroptosis.
Required in erastin-induced ferroptosis.
Inhibits cystine uptake and sensitizes cells to ferroptosis. Erastin induced high levels of cell death in p53+
Deletion of this gene likely suppress ferroptosis by limiting the membrane-resident pool of oxidation-se
Deletion of this gene likely suppress ferroptosis by limiting the membrane-resident pool of oxidation-se
NRAS12V mutant protects RMS13 cells from ferroptotic cell death.
KRAS12V mutant protects RMS13 cells from ferroptotic cell death.
HRAS12V mutant protects RMS13 cells from ferroptotic cell death.
Required for ferroptosis in diverse cell contexts. Knockdown of CARS inhibited erastin-induced death by
Knockdown of Keap1 reversed loss of p62-increased degradation of NRF2 in ferroptosis. Keap1 knockdo
Zinc protoporphyrin IX, a HO-1 inhibitor, prevented Erastin-triggered ferroptotic cancer cell death. Over
Knockout or knockdown limited erastin-induced ferroptosis.
Knockout or knockdown limited erastin-induced ferroptosis.
Inhibition suppressed ferroptosis, and overexpression promoted ferroptosis.
Silencing ALOX genes made cells resistant to ferroptosis.
Silencing ALOX genes made cells resistant to ferroptosis.
Silencing ALOX genes made cells resistant to ferroptosis.
Silencing ALOX genes made cells resistant to ferroptosis. Erastin-induced cell death was rescued by silen
Silencing ALOX genes made cells resistant to ferroptosis. Erastin-induced cell death was rescued by silen
U-2-OS cells became resistant to erastin upon PHKG2 silencing. Erastin-treated HT-1080 cells were resc
p53-mediated activation of SAT1 contributes to ferroptotic cell death in the presence of ROS stress. Kno
Cell death in activated EGFR mutant cells occurs by ferroptosis. Inhibiting EGFR and MAPK signaling resc
Inhibiting EGFR and MAPK signaling rescued cell viability following cystine withdrawal.
Inhibiting EGFR and MAPK signaling rescued cell viability following cystine withdrawal.
Knockout of ZEB1 prevents cell death induced by GPX4 inhibition.
Required for ferroptosis in TP53-deficient CRC cells.
Combination of ARF induction and ROS treatment induced ferroptotic cell death. Knockdown of endoge
Elevated levels of PEBP1 resulted in increased sensitivity of HK2 cells to RSL3 whereas lowered contents c
Expression of SOCS1 sensitized cells to ferroptosis inducer. This effect of SOCS1 was efficiently blocked b
CDO1 suppression contributes to ferroptosis resistance.
Erastin-induced ferroptosis was restrained when c-Myb was suppressed.
CHAC1 degradation of GSH might enhance cystine-starvation-induced cell death.
Increases erastin-induced growth inhibition, whereas depletion of P53RRA decreased erastin-induced gr
Inhibition of PRKAA/AMPKalpha diminishes ferroptosis.
Inhibition of PRKAA/AMPKalpha diminishes ferroptosis.
ELAVL1 siRNA led to ferroptosis resistance, whereas ELAVL1 plasmid contributed to classical ferroptotic c
Suppresses SLC7A11-mediated cystine uptake and promotes ferroptosis. BAP1 mutants lose their abilitie
Accelerates ferroptosis. Disruption of MRP1 inhibited ferroptosis potently.
Promotes ferroptosis. Binds to LINC0033 and serves as a negative upstream regulator of CBS-mediated t
Inhibition attenuated erastin-induced ferroptosis.
Inhibition attenuated erastin-induced ferroptosis.

Up-regulated (≥ 2 fold) in erastin-treated samples.
Up-regulated (≥ 2 fold) in erastin-treated samples.
Up-regulated (≥ 2 fold) in erastin-treated samples.
Up-regulated (≥ 2 fold) in erastin-treated samples.
Up-regulated (≥ 2 fold) in erastin-treated samples.
Down-regulated (≥ 2 fold) in erastin-treated samples.
Down-regulated (≥ 2 fold) in erastin-treated samples.
Down-regulated (≥ 2 fold) in erastin-treated samples.
Down-regulated (≥ 2 fold) in erastin-treated samples.
Phosphorylated in erastin-treated sample.
Enriched in RSL3-resistant cells.
Enriched in RSL3-resistant cells.
Enriched in GPX4 inhibitor ML162-resistant cells.
Its expression increased in response to artesunate-induced ferroptosis, indicating activation of ROS-mec
Its expression is decreased in patients.
Its expression is decreased in patients.
Significantly reduced in tumor tissues
Significantly reduced in tumor tissues
Expression of this gene is increased in patients.
The interaction between NRF2 and MafG was increased in response to erastin and sorafenib.
An increase of endogenous FTH1 level during ferroptosis. Degradation of FTH1 protein upon ferroptosis
Ferroptotic erastin induces DRD5 gene expression in ferroptosis.
Antiferroptotic dopamine suppressed dopamine receptor D4 protein degradation. Ferroptotic erastin pro
Cold stress evokes ferroptosis, and the ASK1-p38 pathway is activated downstream of lipid peroxide, lea
Cold stress evokes ferroptosis, and the ASK1-p38 pathway is activated downstream of lipid peroxide, lea
Increased at LSH overexpression. Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Increased at LSH overexpression. Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Increased at LSH overexpression. Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Increased at LSH overexpression. Decreased at LSH knockdown. LSH can inhibit ferroptosis.
Decreased at LSH knockdown. LSH can inhibit ferroptosis.
CHAC1 degradation of GSH enhances cystine-starvation-induced ferroptosis through the activated GCN
Overexpression sensitizes cells to ferroptosis.
Overexpression sensitizes cells to ferroptosis.
Overexpression sensitizes cells to ferroptosis.
Associated with ferroptotic cell death. Ferroptosis activators induce HMGB1 release.
Binds to and increases the expression of the negative ferroptosis regulator LINC00336.
Upregulated in cells treated with ferroptosis inducer erastin. Stimulates ferroptosis possibly in a GSH-dep
Upregulated in cells treated with ferroptosis inducer erastin. Stimulates ferroptosis possibly in a GSH-dep
Upregulated in cells treated with ferroptosis inducer erastin. Stimulates ferroptosis possibly in a GSH-dep
Essential for stimulation of pro-ferroptotic gene transcription upon ferroptosis induction.
Downregulated in cells treated with ferroptosis inducer erastin. Suppresses ferroptosis possibly in a GSH-
Downregulated in cells treated with ferroptosis inducer erastin. Suppresses ferroptosis possibly in a GSH-
Downregulated in cells treated with ferroptosis inducer erastin. Suppresses ferroptosis possibly in a GSH-
Essential for stimulation of anti-ferroptotic gene transcription.
Human neuroglobin (hNgb)-EGFP-expressing SH-SY5Y cells to be significantly more resistant to ferropt
Required by RSL3 (a ferroptosis inducer) to inactivate GPX4 (a ferroptosis inhibitor).
Downregulated by lncRNA GABPB1-AS1 upon erastin treatment.
Inhibition of AURKA or reconstitution of miR-4715-3p inhibited GPX4 and induced cell death, suggesting
Inhibition of AURKA or reconstitution of miR-4715-3p inhibited GPX4 and induced cell death, suggesting
Reduced expression results in resistance to ferroptosis.
Necessary to ferroptosis-related lipid peroxidation.
Upregulation of miR-30b-5p in preeclampsia models plays a pivotal role in ferroptosis.
Silencing of SLC7A11 sensitized HT-1080 cells to erastin-induced death, whereas transfection of HT-108
RNAi-mediated GPX4 knockdown induces ferroptosis.
Up-regulated in DU-145 erastin-resistant clones. Participate in the detoxification of toxic lipid metabolit
Up-regulated in DU-145 erastin-resistant clones. Participate in the detoxification of toxic lipid metabolit

Up-regulated in DU-145 erastin-resistant clones. Participate in the detoxification of toxic lipid metabolites. Rb knock-down cells exposed to sorafenib encounter ferroptosis. Lack of Rb sensitized HCC cells to the i
Knockdown of HSF1 and HSPB1 enhances erastin-induced ferroptosis, whereas heat shock pretreatment
Knockdown of HSF1 and HSPB1 enhances erastin-induced ferroptosis, whereas heat shock pretreatment
NRF2 plays a central role in protecting hepatocellular carcinoma (HCC) cells against ferroptosis
The interaction between p62 and Keap1 increased following erastin and sorafenib treatment. Knockdown
Knockdown of p62, quinone oxidoreductase-1, heme oxygenase-1, and ferritin heavy chain-1 by RNA i
Knockdown of p62, quinone oxidoreductase-1, heme oxygenase-1, and ferritin heavy chain-1 by RNA i
Knockdown of p62, quinone oxidoreductase-1, heme oxygenase-1, and ferritin heavy chain-1 by RNA i
MUC1-C (C-terminal subunit) blocks erastin-induced ferroptosis and induces increases in GSH.
A negative regulator of ferroptosis in HCC cells. Knockdown of MT-1G by RNA interference increases glu
Involved in siramesine and lapatinib-induced ferroptotic cell death. Its expression is decreased after treat
Genetic inhibition of CISD1 contributes to erastin-induced ferroptosis. Stabilization of the iron sulfur clus
Negatively regulates ferroptosis. Suppression of HSPA5 expression increased erastin-induced death. Ove
Inhibition of ATF4 expression increased erastin-induced cell death. ATF4 results in the induction of HSPA
Inhibits ferroptosis in human colorectal cancer (CRC) cells. Loss of TP53 restored erastin sensitivity. Inhibi
LSH inhibits ferroptosis by decreasing the intracellular levels of iron and lipid ROS.
Depletion of the SCD1 and FADS2 metabolic genes induces ferroptosis.
Depletion of the SCD1 and FADS2 metabolic genes induces ferroptosis.
Src-STAT3 activation renders the cell unable to undergo to ferroptosis. Src inhibition decreased cell viab
Src-STAT3 activation renders the cell unable to undergo to ferroptosis.
PML expression turned cells highly resistant to ferroptosis.
Suppression of NFS1 cooperates with inhibition of cysteine transport to trigger ferroptosis in vitro and sl
Delta Np63 alpha can inhibit ferroptosis independent of p53. Overexpression protects cells from ferroptoc
Required to to suppress ferroptosis.
Suppresses ferroptosis both in vitro and in vivo.
Overexpression could partially protect cells from ferroptosis.
FH inactivation (FH-/-) proves synthetic lethal with inducers of ferroptosis. FH-/- sensitizes cells to mult
Overexpression conferred resistance to ferroptosis. Inhibition blocked resistance to ferroptotic cell death
Overexpression of miR-9 suppressed GOT1, which subsequently reduced ferroptosis. Suppression of miF
Overexpression of miR-9 suppressed GOT1, which subsequently reduced ferroptosis. Suppression of miF
Overexpression of miR-9 suppressed GOT1, which subsequently reduced ferroptosis. Suppression of miF
Inhibition triggers ferroptosis in hepatocellular carcinoma.
Over expression significantly attenuated DHA induced ferroptosis.
Required for exogenous monounsaturated fatty acids to protect cells against ferroptosis. Negatively corr
Inactivation promotes ferroptosis by down-regulating SLC7A11 levels. Overexpression is critical for tumo
Knockdown sensitizes cells to ferroptosis.
Overexpression inhibits ferroptosis. Knockdown promotes ferroptosis.
Inhibition induces ferroptosis.
A negative regulator of ferroptotic cell death.
Protects endothelial HUVEC cells from erastin-induced ferroptosis. Overexpression significantly reduced
Has cytoprotective effect against ferroptosis. In cells expressing Sesn2, erastin-induced cell death, ROS fr
Genetic inactivation of NF2 rendered cancer cells more sensitive to ferroptosis. Mediates cell density-dep
Degradation of the protein is critical for ferroptosis. Blocking ARNTL degradation diminished ferroptotic tur
Destabilizing HIF1A facilitated ferroptotic tumor cell death.
O-GlcNAcylated c-Jun represents an obstructive factor to ferroptosis.
Inhibition induces ferroptosis.
Protects against ferroptosis in HCC cells. Inhibition increased ferroptotic cel death.
An indispensable gene and protein in the suppression of ferroptosis caused by abnormal lipometabolism
A glutathione-independent ferroptosis suppressor. Pharmacological targeting of FSP1 strongly synergize
Knockdown promoted ferroptosis.
ZFP36 plasmid impaired FBXW7 plasmid-induced HSC ferroptosis. Overexpression of Zfp36 impaired era
Induced by ferroptotic stress and promotes resistance to ferroptotic cell death. Facilitates ferroptosis resi
Ferroptosis activators increase ESCRT-III subunits (e.g., CHMP5 and CHMP6). Knockdown of CHMP5 or C
Ferroptosis activators increase ESCRT-III subunits (e.g., CHMP5 and CHMP6). Knockdown of CHMP5 or C
Cav-1 deficiency aggravated ferroptosis. Short hairpin RNA of Cav-1 promoted ferroptosis, which was ar
Gch1 overexpression and its downstream metabolites BH4/BH2 rescue from ferroptosis. Inhibition of GC

Test method

shRNA screening, qPCR, gene silencing
shRNA screening, qPCR, gene silencing
shRNA screening, qPCR, gene silencing
shRNA screening, qPCR, gene silencing
shRNA screening, qPCR, gene silencing
shRNA screening, qPCR, gene silencing
Inhibition test by diphenylene iodonium (DPI) and GKT137831.
Inhibition test by diphenylene iodonium (DPI).
Inhibition test by diphenylene iodonium (DPI).
Inhibition test by diphenylene iodonium (DPI) and GKT137831.
Inhibition test by diphenylene iodonium (DPI).
Inhibition test by diphenylene iodonium (DPI).
Inhibition test by diphenylene iodonium (DPI).
shRNA silencing, RT-qPCR
shRNA silencing, RT-qPCR
shRNA silencing, RT-qPCR
Cell death kinetics, shRNA, western blotting, RT-PCR, ChIP assay, cystine uptake assay
Retroviral-mediated insertional mutagenesis and sequencing
Retroviral-mediated insertional mutagenesis and sequencing
Cell viability assessed by MTT assay, western blot
Cell viability assessed by MTT assay, western blot
Cell viability assessed by MTT assay, western blot
siRNA screen, shRNA, western blot, cell viability
Western blot, shRNA knockdown, cell viability
Cell viability assay, qRT-PCR, western blot
shRNA
shRNA
shRNA, gene transfection
qPCR
qPCR
qPCR
qPCR, siRNA
qPCR, siRNA
shRNA suppressor screen, qPCR, cellular iron staining, cell viability
qRT-PCR, siRNA, CRISPR-cas9, western blot
Fluorescence-activated cell sorting (FACS) analysis, cell viability
Immunoblots, lucifer yellow infiltration, cell viability, fluorescence-activated cell sorting (FACS)
Immunoblots, lucifer yellow infiltration, cell viability, fluorescence-activated cell sorting (FACS)
sgRNA, cell viability
Cell death, RNAi, western blot, enzyme activity
RNAi, immunoblot, phase-contrast image, cell death quantification
Western blot, siRNA, cell death assay
Cell death assay, cell viability assay, qPCR
siRNA, western blot, MTT assay
Western blot, siRNA, qRT-PCR, MTT assay
Western blot, real-time PCR, cell viability assay, siRNA, GSH assay kit
Bisulfite sequencing, RNA pull-down, mass spectrometry, RNA immunoprecipitation, qRT-PCR
siRNA, western blot, cell viability assay, GSH assay, lipid peroxidation assay, iron assay
siRNA, western blot, cell viability assay, GSH assay, lipid peroxidation assay, iron assay
Immunohistochemistry, hydroxyproline assay, immunofluorescence, cell viability assay, western
Flow cytometry, cell viability assay, cell death assay, western blot, gene knockout, lipid peroxidation
Western blot, GSH assay, dead cell counts, gene transfection, CRISPR/Cas9, cell viability assay, qRT-PCR, gene knockdown, luciferase assay, gene overexpression, MTT assay, colony-formation
Western blot, siRNA, glutathione assay, RT-PCR, cell viability assay
Western blot, siRNA, glutathione assay, RT-PCR, cell viability assay

RNA-seq
RNA-seq
RNA-seq
RNA-seq
RNA-seq
RNA-seq
RNA-seq
RNA-seq
RNA-seq
Western blot
Gene trap insertion
Gene trap insertion
Gene trap insertion
Western blotting
Gene expression analysis
Gene expression analysis
Gene expression analysis
Gene expression analysis
Gene expression analysis
Western blot
Immunoblotting, q-PCR
Western blot, Q-PCR
Western blot, Q-PCR
LDH assay, immunoblot, RNAi, CCK-8
LDH assay, immunoblot, RNAi, CCK-8
ChIP analysis, RT-qPCR
RT-qPCR
RT-qPCR
RT-qPCR
RT-qPCR
RT-qPCR
RT-qPCR
Western blot, real-time PCR, cell viability assay, siRNA, GSH assay kit
Western blot, mass spectrometry, cell viability assay, gene overexpression
Western blot, mass spectrometry, cell viability assay, gene overexpression
Western blot, mass spectrometry, cell viability assay, gene overexpression
ELISA, western blot, RNAi
RNA pulldown, mass spectrometry, qRT-PCR, gene overexpression, gene knockdown, western
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Immunohistochemistry, immunofluorescence, western blot, qPCR, metabolites examination, CI
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Tandem mass tags, RNA-seq, DNase-seq, qPCR, Western blot, IHC
Immunohistochemistry, immunofluorescence, western blot, qPCR, metabolites examination, CI
Cell death, cell viability, lipid peroxidation assay, RT-qPCR
Mass spectrometry, siRNA, western blot
RT-qPCR, western blot, siRNA, cell viability, lipid peroxidation assay
qRT-PCR, western blot, lentiviral infection, CellTiter-Glo luminescence assay
qRT-PCR, western blot, lentiviral infection, CellTiter-Glo luminescence assay
Cell viability, western blot, RNA-seq, GSH assay, qRT-PCR, immunofluorescence imaging
Western blot, siRNA, flow cytometry, cell viability, RT-PCR
GSH assay, MDA measurement, western blot, immunohistochemistry, microarray, RT-qPCR, Ial
RT-qPCR, siRNA, gene transfection, cell viability
Affinity-based chemoproteomics, western blotting, and RNAi
RNA-seq, glutamate release assay, cell growth, flow cytometry
RNA-seq, glutamate release assay, cell growth, flow cytometry

RNA-seq, glutamate release assay, cell growth, flow cytometry
RNA interference, cell viability assay, oxidative stress measurement
RNAi, RT-qPCR, western blot, cell viability
RNAi, RT-qPCR, western blot, cell viability
Cell Viability Analysis, western blot, RNAi, qRT-PCR
Immunoprecipitation assay, shRNA knockdown, iron assay, lipid peroxidation assay, glutathior
qRT-PCR, RNA interference
qRT-PCR, RNA interference
qRT-PCR, RNA interference
shRNA, GSH level measurement, cell death test
RNA interference, cell viability assay, colony formation assay, western blot, qRT-PCR, glutathio
Western blot, densitometry quantification, siRNA, gene transfection, cell death test
Cytotoxicity assays, western blot, q-PCR, RNAi
Cell viability assay, western blot, shRNA, gene transfection
CCK8 cell viability assay, clonogenic cell survival assay, western blot, q-PCR, RNAi
RNAi, live-cell imaging, cell viability, qPCR, western blot
Plate-colony formation assay; measurement of total ROS, Lipid ROS, and intracellular iron
shRNA, RT-qPCR, MTT assay, total iron detection, lipid ROS detection
shRNA, RT-qPCR, MTT assay, total iron detection, lipid ROS detection
Immunoblotting, RNAi, qPCR, western blot, cell viability
Immunoblotting, RNAi, qPCR, western blot, cell viability
Cell death assessment
RNAi, cell viability assay, flow cytometry
siRNA, cell death quantification
CRISPR, shRNA, immunoblotting, cell-cycle profile, cell death quantification
Immunoblotting, luciferase reporter assay, qRT-PCR, cell viability assay, colony formation assa
Western blot, cell viability assay
CRISPR/Cas9, sgRNA, cell viability assay, immunoblotting, qPCR,
Cell viability and death assay, GSH and ROS levels and lipid peroxidation assays, RNAi, gene tr
Immunoblotting, luciferase reporter assay, qPCR, cell viability assay, MDA assay, iron assay, gl
Immunoblotting, luciferase reporter assay, qPCR, cell viability assay, MDA assay, iron assay, gl
Immunoblotting, luciferase reporter assay, qPCR, cell viability assay, MDA assay, iron assay, gl
Cell viability, western blotting, LC/ESI-MS/MS, flow cytometry, xenograft mice
Cell viability, cell cycle, ROS determination, western blot, immunofluorescence, ectopic expres
Dead cell count, gene knockout, confocal imaging, thin-layer chromatography, BODIPY 493/5
CRISPR/Cas9, RNAi, cell death, western blot, qRT-PCR
Western blot, siRNA, cell death
qRT-PCR, MTT assay, colony-formation assay, lipid ROS assays, iron assay, immunoblotting
Cell proliferation assay, migration and invasion assays, RT-PCR, western blot, immunohistoche
Western blot, flow cytometry, SRB assay, gene transfection, shRNA, LOOH quantification
Lentivirus transduction, CCK-8 assay, DYE670 staining assay, ROS staining assay, RT-qPCR, we
MTT assay, RT-PCR, luciferase assay, immunoblot, siRNA, Lipid peroxidation assay, GSH meas
Cell death, cell viability, lipid peroxidation, immunoblotting, CRISPR/Cas9, ChIP assay, qRT-PC
Cytotoxicity assays, western blot, immunoprecipitation, RNA interference, gene transfection, q
Cytotoxicity assays, western blot, immunoprecipitation, RNA interference, gene transfection, q
Immunofluorescence, western blotting, immunohistochemistry, cell viability, colony formation,
qRT-PCR, western blot, cell viability assay, siRNA, ROS detection
Cell viability and clonogenic survival assay, immunofluorescence, western blot, RNAi, gene trai
Cell proliferation and clonogenic assay, cell survival analysis, xenografts tumor, RNA-seq, RT?c
Expression cloning, cell death, cell viability, LDH assay, western blot, LC-MS, NADH consumpti
Cell viability, western blot, ROS induction, glutathione assay, lipid peroxidation assay
Cell viability, lipid peroxidation, iron, GSH and ROS assays, western blot, RT-PCR, RNA-seq
RNA-seq, western blot, qPCR, siRNA, cell count, cell death, iron assay
RNAi, western blot, iron, malondialdehyde and cytotoxicity assays
RNAi, western blot, iron, malondialdehyde and cytotoxicity assays
Immunofluorescence, western blot, ROS detection
CRISPR activation screening, qRT-PCR, cell viability, cell counts, western blot

Test in
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Test setting

NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
NRAS mutant HT-1080 fibrosarcoma cells; KRAS mutant Calu-1 non small cell lung cancer cell
KRAS mutant Calu-1 non small cell lung cancer cell
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KRAS mutant Calu-1 non small cell lung cancer cell
KRAS mutant Calu-1 non small cell lung cancer cell
KRAS mutant Calu-1 non small cell lung cancer cell
H1299, U2OS and MCF7 cells, mouse embryonic fibroblasts
Chronic myeloid leukemia cell line KBM7
Chronic myeloid leukemia cell line KBM7
RMS13 cells
RMS13 cells
RMS13 cells
HT-1080 fibrosarcoma cells, BJeLR fibroblast cells, Panc1 cells, A673 (Ewing's sarcoma) and 143B (osteosarcoma)
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
HT-1080 fibrosarcoma cells, mice lung fibroblastic cells
Mouse embryonic fibroblasts, human pancreatic cancer cell lines (PANC1 and PANC2.03), and the human
Mouse embryonic fibroblasts, human pancreatic cancer cell lines (PANC1 and PANC2.03), and the human
PANC1 or HT-1080 cells
G-401 cells
G-401 cells
G-401 cells
G-401, BJeLR and HT-1080 cells
G-401, BJeLR and HT-1080 cells
U-2-OS, HT-1080 cells
H1299, U2OS cells, mouse embryonic fibroblasts, mouse xenograft
Human mammary epithelial) cells
Human mammary epithelial) cells
Human mammary epithelial) cells
KP4 pancreatic cancer cells
TP53-/- HCT116 cells, athymic nude mice
H1299, Saos2, U2OS cells, mouse embryonic fibroblasts
HK2, HAEC and HT22 cells
U2OS or IMR90 cells
Gastric cancer cells AGS, BGC823, athymic nude mice
Gastric cancer cells AGS, BGC823, MKN45, SGC7901, and MGC803
MDA-MB-231, Hs 578T, and HCC 1937 cells
Lung cancer A549, SPCA1, and H522 cells
HCT116 and CX-1 cells
HCT116 and CX-1 cells
Human liver specimens and hepatic stellate cell; C57BL/6 mice; mouse hepatocyte and hepatic stellate cell
HEK-293T, Caki1, 786-O, 769-P, ACHN and NCI-H226 cell lines; RCC4, UMRC2, SLR20, and UMRC6 cell
HAP1, H1299, U-2 OS cells
A549 and SPC-A-1 cells
HK-2 cells
HK-2 cells

HT-1080 cells
HT-1080 cells
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HT-1080 cells
HT-1080 cells
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HT-1080 cells
HT-1080 cells
Chronic myeloid leukemia cell line KBM7
Chronic myeloid leukemia cell line KBM7
Chronic myeloid leukemia cell line KBM7
Pancreatic adenocarcinoma cell line Panc-1 cells
Patient PDAC tissues
Patient PDAC tissues
Patient PDAC tissues
Patient PDAC tissues
Patient PDAC tissues
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
HT1080 cells
PANC1 cells
PANC1 cells
A549 cells
A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
H358, A549 cells
MDA-MB-231, Hs 578T, and HCC 1937 cells
HEK293 cells
HEK293 cells
HEK293 cells
HT1080 and PANC1 cells, mouse embryonic fibroblasts
H358, PC9, SPC-A-1, and A549 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
HepG2, Bel-7402 cells
SH-SY5Y cells
HEK293T cells
HepG2, Huh7, and Hep3B cells
OE33, STKM2, MKN45 cells
OE33, STKM2, MKN45 cells
Patient-derived fibroblasts
Primary corneal endothelial cells, B4G12 and HT1080 cells
Trophoblasts, preeclampsia model, HTR-8/SVneo and TEV-1 cells
HT-1080 cells
HRAS mutant BJeLR-engineered tumor cells, HT-1080 cells, xenograft mouse model (athymic nude mice)
DU-145 prostate cancer cells
DU-145 prostate cancer cells

DU-145 prostate cancer cells
HCC cell lines Huh7 and PLC/PRF5; Balb/c nude mice received tumour xenografts derived from HCC cell:
HeLa and U2OS cells, human xenograft mouse tumor derived from HeLa (#CCL-2) cells.
HeLa and U2OS cells, human xenograft mouse tumor derived from HeLa (#CCL-2) cells.
HepG2, Hepa1-6, Hep3B, and SNU-182 cells, C57BL/6 mice
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
HepG2, Hepa1-6, Hep3B, and SNU-182 cells
MDA-MB-468, BT-20 cells
HCC cells (HepaG2, Hep3B, and Huh7 cells), nude mice.
MDA MB 231 and SKBr3 cells
HepG2 and Hep3B cells
Pancreatic ductal adenocarcinoma cell lines (PANC1, CFPAC1, MiaPaCa2), nude mice, B6 mice
Pancreatic ductal adenocarcinoma cells (e.g., PANC1, CFPAC1, MiaPaCa2, and Panc2.03)
HCT116, athymic nude mice
Lung cancer H358 and PC9 cells, SCID Mice
A549 cancer cells
A549 cancer cells
MCF-10A and SUM-159 cells
MCF-10A and SUM-159 cells
IMR90 cells
MDA-MB-231 cells, NOD.CB17 Scid/J mice
ME-180 cells
HT-1080 cells
Melanoma cell lines A375 and G-361, C57BL/6 mice
HT1080 cells
UOK262, HT1080, HK2, A498 cells
Head and neck cancer cells
A375 and G-361 cells
A375 and G-361 cells
A375 and G-361 cells
HepG2 cells, female ICR mice
HL60, KG1, THP-1 cells
HEK293, HT-1080 cells
H1299, SK-N-BE(2)C, T24, UM-UC-3, SW780 cells, nude mice
H1299 cells
A549 and SPC-A-1 cells
MDA-MB-231, Hs578T, H1299, A549 and MCF-10A cells, female athymic BALB/c nude mice
H1299 cells
HUVEC cells
HepG2 and AML-12 cell lines, mouse embryonic fibroblasts cells, ICR mice
Mouse embryonic fibroblasts, NF639 cells, human epithelial tumour cells, human mesothelioma cells, xer
Calu-1, THP1, HT1080, and HL-60 cells, athymic nude mice
Calu-1, THP1, HT1080, and HL-60 cells, athymic nude mice
Bel-7402, SMMC-7721 cells, athymic nude mice
Mesothelioma cell lines ACC-Meso-1, NCI-H2373 and NCI-H2052, mesothelial cell line MeT-5A
Hep G2, Huh-7, SMMC-7721 and PLC/PRF/5 cells, nude mice
SGC7901 and MGC803 cells, nude mice
MCF-7, HT1080, Pfa1 cells
ARPE-19, hFRPE cells
Hepatic stellate cells, C57BL/6 mice
MCF10A, Hs578t and MDA-MB-231 cells
PANC1 and HepG2 cells, athymic nude or B6 mice
PANC1 and HepG2 cells, athymic nude or B6 mice
LO2 cells, mice model
HT-1080,786-O, A-498, Caki-1, AU565, DU4475, MCF-7 cells

Pathway	Confidence
RPL8 :+: Ferroptosis	Validated
IREB2 :+: Ferroptosis	Validated
ATP5MC3 :+: Ferroptosis	Validated
CS :+: Ferroptosis	Validated
EMC2 :+: Ferroptosis	Validated
ACSF2 :+: Ferroptosis	Validated
NOX1 :+: Ferroptosis	Deduced
CYBB :+: Ferroptosis	Deduced
NOX3 :+: Ferroptosis	Deduced
NOX4 :+: Ferroptosis	Deduced
NOX5 :+: Ferroptosis	Deduced
DUOX1 :+: Ferroptosis	Deduced
DUOX2 :+: Ferroptosis	Deduced
G6PD :+: Ferroptosis	Validated
PGD :+: Ferroptosis	Validated
VDAC2 :+: Ferroptosis	Validated
TP53 :-: SLC7A11, SLC7A11 :+: Cystine,	Validated
ACSL4 :+: Ferroptosis	Predicted
LPCAT3 :+: Ferroptosis	Predicted
NRAS :+: Ferroptosis	Deduced
KRAS :+: Ferroptosis	Deduced
HRAS :+: Ferroptosis	Deduced
CARS1 :-: Transsulfuration pathway, Træ	Validated
KEAP1 :-: NFE2L2, NFE2L2 :-: Ferroptos	Validated
HMOX1 :+: Lipid ROS, Lipid ROS :+: Fer	Validated
ATG5 :+: Ferroptosis	Validated
ATG7 :+: Ferroptosis	Validated
NCOA4 :-: FTH1, FTH1 :-: Ferroptosis	Validated
ALOX12 :+: PUFAs peroxidation, PUFAs	Validated
ALOX12B :+: PUFAs peroxidation, PUFA	Validated
ALOX15 :+: PUFAs peroxidation, PUFAs	Validated
ALOX15B :+: PUFAs peroxidation, PUFA	Validated
ALOXE3 :+: PUFAs peroxidation, PUFAs	Validated
PHKG2 :+: PUFAs peroxidation, PUFAs µ	Validated
SAT1 :+: ALOX15, ALOX15 :+: Lipid RO!	Validated
EGFR :+: MAPK, MAPK :+: Ferroptosis	Validated
MAPK :-: GPX4, GPX4 :-: Lipid ROS, MA	Validated
MAPK :-: GPX4, GPX4 :-: Lipid ROS, MA	Validated
ZEB1 :+: Lipid ROS, Lipid ROS :+: Ferro	Validated
DPP4 :+: Lipid ROS, Lipid ROS :+: Ferro	Validated
CDKN2A :-: NFE2L2, NFE2L2 :+: SLC7A:	Validated
(PEBP1/15LO) :+: Ferroptosis	Validated
SOCS1 :+: p53, p53 :-: SLC7A11, SLC7A	Validated
CDO1 :-: GPX4, GPX4 :-: Ferroptosis	Validated
MYB :+: CDO1, CDO1 :-: GPX4, GPX4 :-	Validated
CHAC1 :-: GSH, GSH :-: Ferroptosis	Validated
LINC00472 :+: p53, p53 :+: Ferroptosis	Validated
PRKAA2 :+: (BECN1/SLC7A11), (BECN1/	Validated
PRKAA1 :+: (BECN1/SLC7A11), (BECN1/	Validated
ELAVL1 :+: Ferroptosis	Validated
BAP1 :-: SLC7A11, SLC7A11 :-: Lipid RC	Validated
ABCC1 :-: GSH, GSH :-: Ferroptosis	Validated
MIR6852 :-: CBS, CBS :-: Ferroptosis	Validated
ACVR1B :-: NFE2L2, NFE2L2 :-: Ferroptc	Validated
TGFBR1 :-: NFE2L2, NFE2L2 :-: Ferroptc	Validated

Screened	Further study needed to conf
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Deduced	_NA_
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SLC7A11 :+: Cystine, Cystine :-: Ferropt	Validated
GPX4 :-: Lipid ROS, Lipid ROS :+: Ferro	Validated
AKR1C1 :-: Ferroptosis	Validated
AKR1C2 :-: Ferroptosis	Validated

AKR1C3 :-: Ferroptosis Validated
 RB1 :-: Ferroptosis Validated
 HSPB1 :-: Ferroptosis Validated
 HSF1 :-: Ferroptosis Validated
 NFE2L2 :+ : (NQO1/HMOX1/FTH1), (NQ Validated
 SQSTM1 :-: KEAP1, KEAP1 :-: NFE2L2, ↑ Validated
 NQO1 :-: Ferroptosis Validated
 HMOX1 :-: Ferroptosis Validated
 FTH1 :-: Ferroptosis Validated
 MUC1 :+ : System Xc- , System Xc- :+ : G Validated
 MT1G :-: Ferroptosis Validated
 SLC40A1 :-: Lipid ROS, Lipid ROS :+ : Fe Validated
 CISD1 :-: Mitochondrial lipid ROS, Mito Validated
 HSPA5 :+ : GPX4, GPX4 :-: Lipid ROS, Lip Validated
 ATF4 :+ : HSPA5, HSPA5 :+ : GPX4, GPX4 Validated
 TP53 :+ : Nucleus DPP4, Nucleus DPP4 : Validated
 HELLS :+ : GLUT1, HELLS :+ : SCD, HELLS Validated
 SCD :-: Ferroptosis Validated
 FADS2 :-: Ferroptosis Validated
 SRC :+ : STAT3, STAT3 :-: ACSL4, ACSL4 Validated
 STAT3 :-: ACSL4, ACSL4 :+ : Ferroptosis Validated
 PML :-: Ferroptosis Validated
 NFS1 :-: TFRC, TFRC :+ : Ferroptosis Validated
 TP63 :-: Ferroptosis Validated
 CDKN1A :+ : GSH, GSH :-: Lipid ROS, Lip Validated
 MIR137 :-: SLC1A5, SLC1A5 :+ : Glutami Validated
 VDAC2 :-: Ferroptosis Validated
 FH :+ : GPX4, GPX4 :-: Ferroptosis Validated
 CISD2 :-: Lipid ROS, Lipid ROS :+ : Ferro Validated
 MIR9 :-: GOT1, GOT1 :+ : alpha KG, alph Validated
 MIR9 :-: GOT1, GOT1 :+ : alpha KG, alph Validated
 MIR9 :-: GOT1, GOT1 :+ : alpha KG, alph Validated
 CBS :-: Ferroptosis Validated
 ISCU :+ : GSH, GSH :-: Ferroptosis Validated
 ACSL3 :-: Ferroptosis Validated
 OTUB1 :+ : SLC7A11, SLC7A11 :-: Ferro Validated
 CD44 :+ : SLC7A11, SLC7A11 :-: Ferropt Validated
 (LINC00336/ELAVL1) :-: Ferroptosis Validated
 BRD4 :-: Ferritinophagy, Ferritinophagy Validated
 PRDX6 :-: Lipid ROS, Lipid ROS :+ : Ferr Validated
 MIR17 :-: A20, A20 :+ : ACSL4, ACSL4 :+ Validated
 SESN2 :-: Lipid ROS, Lipid ROS :+ : Ferr Validated
 NF2 :-: YAP, YAP :+ : Ferroptosis Validated
 ARNTL :-: EGLN2, EGLN2 :-: HIF1A, HIF Validated
 HIF1A :-: Lipid ROS, Lipid ROS :+ : Ferr Validated
 JUN :+ : GSH, GSH :-: Ferroptosis, JUN :-: Deduced
 CA9 :-: Ferroptosis Validated
 S1R :-: Ferroptosis Validated
 PLIN2 :-: Ferroptosis Screened
 FPS1 :+ : CoQ10, CoQ10 :-: Lipid ROS, L Validated
 LAMP2 :+ : Cysteine, Cysteine :+ : GSH, C Validated
 ZFP36 :-: ATG16L1, ATG16L1 :+ : Ferrop Validated
 Prominin2 :+ : Ferritin-containing MVB, Validated
 CHMP5 :-: Ferroptosis Validated
 CHMP6 :-: Ferroptosis Validated
 CAV-1 :+ : xCT, xCT :+ : GPX4, GPX4 :-: F Validated
 GCH1 :+ : Phospholipid, Phospholipid :- Validated

Caution

NA

NA

NA

NA

NA

NA

The presented inhibition study is not sufficient to confirm its role in ferroptosis.

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The acetylation-defective mutant (p53[3KR]) also retains the ability to induce ferroptosis upon reactive o

Author prediction based on gene function.

Author prediction based on gene function.

Inferred as a promoter because RAS mutant is resistant to ferroptosis.

Inferred as a promoter because RAS mutant is resistant to ferroptosis.

Inferred as a promoter because RAS mutant is resistant to ferroptosis.

NA

NA

Other articles (PMID 26403645, 28515173) suggest it a suppressor.

NA

NA

NA

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Activated by p53.

NA

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Also triggers apoptosis.

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Vascular endothelial growth factor A
Growth/differentiation factor 15
Tubulin epsilon chain
Arrestin domain-containing protein 3
CCAAT/enhancer-binding protein gamma
NA
Regulator of G-protein signaling 4
NA
NA
Eukaryotic translation initiation factor 2 subunit 1
Estradiol 17-beta-dehydrogenase 11
1-acyl-sn-glycerol-3-phosphate acyltransferase gamma
Histone-lysine N-methyltransferase SETD1B
Heme oxygenase 1
Serotransferrin
Ferritin light chain
60S ribosomal protein L8
ATP synthase F(0) complex subunit C3
Transferrin receptor protein 1
Transcription factor MafG
Ferritin heavy chain
D(1B) dopamine receptor
D(4) dopamine receptor
Mitogen-activated protein kinase kinase kinase 5
Mitogen-activated protein kinase 14
Solute carrier family 2
Solute carrier family 2
Solute carrier family 2
Solute carrier family 2
Solute carrier family 2
NA
Solute carrier family 2
eIF-2-alpha kinase GCN2
Arachidonate 5-lipoxygenase
Arachidonate 12-lipoxygenase
Arachidonate 15-lipoxygenase
High mobility group protein B1
ELAV-like protein 1
Hemoglobin subunit alpha
Nicotinamide N-methyltransferase
Perilipin-4
Hypermethylated in cancer 1 protein
Stathmin
Ribonucleoside-diphosphate reductase subunit M2
Macrophage-capping protein
Hepatocyte nuclear factor 4-alpha
Neuroglobin
14-3-3 protein epsilon
GA-binding protein subunit beta-1
Aurora kinase A
NA
Receptor-interacting serine/threonine-protein kinase 1
Peroxiredoxin-1
NA
NA
NA
NA
NA

Protein encoded
60S ribosomal protein L8
Iron-responsive element-binding protein 2
ATP synthase F(0) complex subunit C3
Citrate synthase
ER membrane protein complex subunit 2
Medium-chain acyl-CoA ligase ACSF2
NADPH oxidase 1
Cytochrome b-245 heavy chain
NADPH oxidase 3
NADPH oxidase 4
NADPH oxidase 5
Dual oxidase 1
Dual oxidase 2
Glucose-6-phosphate 1-dehydrogenase
6-phosphogluconate dehydrogenase
Voltage-dependent anion-selective channel protein 2
Cellular tumor antigen p53
Long-chain-fatty-acid--CoA ligase 4
Lysophospholipid acyltransferase 5
GTPase NRas
GTPase KRas
GTPase HRas
Cysteine--tRNA ligase
Kelch-like ECH-associated protein 1
Heme oxygenase 1
Autophagy protein 5
Ubiquitin-like modifier-activating enzyme ATG7
Nuclear receptor coactivator 4
Arachidonate 12-lipoxygenase
Arachidonate 12-lipoxygenase
Arachidonate 15-lipoxygenase
Arachidonate 15-lipoxygenase B
Hydroperoxide isomerase ALOXE3
Phosphorylase b kinase gamma catalytic chain
Diamine acetyltransferase 1
Epidermal growth factor receptor
Mitogen-activated protein kinase 3
Mitogen-activated protein kinase 1
Zinc finger E-box-binding homeobox 1
Dipeptidyl peptidase 4
Cyclin-dependent kinase inhibitor 2A
Phosphatidylethanolamine-binding protein 1
Suppressor of cytokine signaling 1
Cysteine dioxygenase type 1
Transcriptional activator Myb
Glutathione-specific gamma-glutamylcyclotransferase 1
Putative uncharacterized protein encoded by LINC00472
5'-AMP-activated protein kinase catalytic subunit alpha-2
5'-AMP-activated protein kinase catalytic subunit alpha-1
ELAV-like protein 1
Ubiquitin carboxyl-terminal hydrolase BAP1
Multidrug resistance-associated protein 1
NA
Activin receptor type-1B
TGF-beta receptor type-1

Interferon gamma
Anoctamin-6
High mobility group protein B1
Tumor necrosis factor alpha-induced protein 3
Cyclic AMP-dependent transcription factor ATF-3
Serine-protein kinase ATM
YY1-associated protein 1
Egl nine homolog 2
Inositol oxygenase
Tafazzin
Protein LYRIC
Isocitrate dehydrogenase [NADP] cytoplasmic
F-box/WD repeat-containing protein 7
Pannexin-1
DnaJ homolog subfamily B member 6
Lon protease homolog, mitochondrial
P35354 (PGH2_HUMAN)
P28562 (DUS1_HUMAN)
P35228 (NOS2_HUMAN)
P19878 (NCF2_HUMAN)
P25713 (MT3_HUMAN)
P0CG48 (UBC_HUMAN)
P02768 (ALBU_HUMAN)
Q16881 (TRXR1_HUMAN)
Q9BYN0 (SRXN1_HUMAN)
P18283 (GPX2_HUMAN)
Q12983 (BNIP3_HUMAN)
O95747 (OXSR1_HUMAN)
Q9BQE4 (SELS_HUMAN)
O43827 (ANGL7_HUMAN)
Q9BUX1 (CHAC1_HUMAN)
Q9UPY5 (XCT_HUMAN)
Q9NX09 (DDIT4_HUMAN)
NA
P08243 (ASNS_HUMAN)
Q99576 (T22D3_HUMAN)
P0DPQ6 (DT3UO_HUMAN)
Q8WYK2 (JDP2_HUMAN)
P58004 (SESN2_HUMAN)
P43007 (SATT_HUMAN)
Q16822 (PCKGM_HUMAN)
Q9H3M7 (TXNIP_HUMAN)
P98155 (VLDLR_HUMAN)
Q8TD30 (ALAT2_HUMAN)
Q9Y617 (SERC_HUMAN)
Q8IV03 (LUR1L_HUMAN)
Q01650 (LAT1_HUMAN)
Q15011 (HERP1_HUMAN)
P17861 (XBP1_HUMAN)
P18847 (ATF3_HUMAN)
P08195 (4F2_HUMAN)
P35520 (CBS_HUMAN)
P18848 (ATF4_HUMAN)
Q96HQ0 (ZN419_HUMAN)
Q6TFL4 (KLH24_HUMAN)
Q96RU7 (TRIB3_HUMAN)
Q9UJL9 (ZF69B_HUMAN)
O95670 (VATG2_HUMAN)

P15692 (VEGFA_HUMAN)
Q99988 (GDF15_HUMAN)
Q9UJT0 (TBE_HUMAN)
Q96B67 (ARRD3_HUMAN)
P53567 (CEBPG_HUMAN)
NA
P49798 (RGS4_HUMAN)
NA
NA
P05198 (IF2A_HUMAN)
Q8NBQ5 (DHB11_HUMAN)
Q9NRZ7 (PLCC_HUMAN)
Q9UPS6 (SET1B_HUMAN)
P09601 (HMOX1_HUMAN)
P02787 (TRFE_HUMAN)
P02792 (FRIL_HUMAN)
P62917 (RL8_HUMAN)
P48201 (AT5G3_HUMAN)
P02786 (TFR1_HUMAN)
O15525 (MAFG_HUMAN)
P02794 (FRIH_HUMAN)
P21918 (DRD5_HUMAN)
P21917 (DRD4_HUMAN)
Q99683 (M3K5_HUMAN)
Q16539 (MK14_HUMAN)
P11166 (GTR1_HUMAN)
P11169 (GTR3_HUMAN)
Q9UGQ3 (GTR6_HUMAN)
Q9NY64 (GTR8_HUMAN)
Q8TD20 (GTR12_HUMAN)
NA
Q8TDB8 (GTR14_HUMAN)
Q9P2K8 (E2AK4_HUMAN)
P09917 (LOX5_HUMAN)
P18054 (LOX12_HUMAN)
P16050 (LOX15_HUMAN)
P09429 (HMGB1_HUMAN)
Q15717 (ELAV1_HUMAN)
P69905 (HBA_HUMAN)
P40261 (NNMT_HUMAN)
Q96Q06 (PLIN4_HUMAN)
Q14526 (HIC1_HUMAN)
P16949 (STMN1_HUMAN)
P31350 (RIR2_HUMAN)
P40121 (CAPG_HUMAN)
P41235 (HNF4A_HUMAN)
Q9NPG2 (NGB_HUMAN)
P62258 (1433E_HUMAN)
Q06547 (GABP1_HUMAN)
O14965 (AURKA_HUMAN)
NA
Q13546 (RIPK1_HUMAN)
Q06830 (PRDX1_HUMAN)
NA
Cystine/glutamate transporter
Phospholipid hydroperoxide glutathione peroxidase
Aldo-keto reductase family 1 member C1
Aldo-keto reductase family 1 member C2

Aldo-keto reductase family 1 member C3
Retinoblastoma-associated protein
Heat shock protein beta-1
Heat shock factor protein 1
Nuclear factor erythroid 2-related factor 2
Sequestosome-1
NAD(P)H dehydrogenase [quinone] 1
Heme oxygenase 1
Ferritin heavy chain
Mucin-1
Metallothionein-1G
Solute carrier family 40 member 1
CDGSH iron-sulfur domain-containing protein 1
Endoplasmic reticulum chaperone BiP
Cyclic AMP-dependent transcription factor ATF-4
Cellular tumor antigen p53
Lymphoid-specific helicase
Acyl-CoA desaturase
Acyl-CoA 6-desaturase
Proto-oncogene tyrosine-protein kinase Src
Signal transducer and activator of transcription 3
Protein PML
Cysteine desulfurase
Tumor protein 63
Cyclin-dependent kinase inhibitor 1
NA
Voltage-dependent anion-selective channel protein 2
Fumarate hydratase
CDGSH iron-sulfur domain-containing protein 2
NA
NA
NA
Cystathionine beta-synthase
Iron-sulfur cluster assembly enzyme ISCU
Long-chain-fatty-acid--CoA ligase 3
Ubiquitin thioesterase OTUB1
CD44 antigen
Putative uncharacterized protein encoded by LINC00336
Bromodomain-containing protein 4
Peroxiredoxin-6
NA
Sestrin-2
Merlin
Aryl hydrocarbon receptor nuclear translocator-like protein 1
Hypoxia-inducible factor 1-alpha
Transcription factor AP-1
Carbonic anhydrase 9
Protein lifeguard 4
Perilipin-2
Apoptosis-inducing factor 2
Lysosome-associated membrane glycoprotein 2
mRNA decay activator protein ZFP36
Prominin-2
Charged multivesicular body protein 5
Charged multivesicular body protein 6
Caveolin-1
GTP cyclohydrolase 1

UniProtKB	PMID	Remark
P62917 (RL8_HUMAN)	22632970	_NA_
P48200 (IREB2_HUMAN)	22632970	_NA_
P48201 (AT5G3_HUMAN)	22632970	ATP5G3 in article
O75390 (CISY_HUMAN)	22632970	_NA_
Q15006 (EMC2_HUMAN)	22632970	TTC35 in article
Q96CM8 (ACSF2_HUMAN)	22632970	_NA_
Q9Y5S8 (NOX1_HUMAN)	22632970	_NA_
P04839 (CY24B_HUMAN)	22632970	NOX2 in article
Q9HBY0 (NOX3_HUMAN)	22632970	_NA_
Q9NPH5 (NOX4_HUMAN)	22632970	_NA_
Q96PH1 (NOX5_HUMAN)	22632970	_NA_
Q9NRD9 (DUOX1_HUMAN)	22632970	_NA_
Q9NRD8 (DUOX2_HUMAN)	22632970	_NA_
P11413 (G6PD_HUMAN)	22632970	_NA_
P52209 (6PGD_HUMAN)	22632970	_NA_
P45880 (VDAC2_HUMAN)	22632970	_NA_
P04637 (P53_HUMAN)	25799988	_NA_
O60488 (ACSL4_HUMAN)	25965523	_NA_
Q6P1A2 (MBOA5_HUMAN)	25965523	_NA_
P01111 (RASN_HUMAN)	26157704	_NA_
P01116 (RASK_HUMAN)	26157704	_NA_
P01112 (RASH_HUMAN)	26157704	_NA_
P49589 (SYCC_HUMAN)	26184909	CARS in article
Q14145 (KEAP1_HUMAN)	26403645	_NA_
P09601 (HMOX1_HUMAN)	26405158	HO-1 in article
Q9H1Y0 (ATG5_HUMAN)	27245739	_NA_
O95352 (ATG7_HUMAN)	27245739	_NA_
Q13772 (NCOA4_HUMAN)	27245739	_NA_
P18054 (LOX12_HUMAN)	27506793	_NA_
O75342 (LX12B_HUMAN)	27506793	_NA_
P16050 (LOX15_HUMAN)	27506793	_NA_
O15296 (LX15B_HUMAN)	27506793	_NA_
Q9BYJ1 (LOXE3_HUMAN)	27506793	_NA_
P15735 (PHKG2_HUMAN)	27506793	_NA_
P21673 (SAT1_HUMAN)	27698118	_NA_
P00533 (EGFR_HUMAN)	28297659	_NA_
P27361 (MK03_HUMAN)	28297659	ERK1 in article
P28482 (MK01_HUMAN)	28297659	ERK2 in article
P37275 (ZEB1_HUMAN)	28678785	_NA_
P27487 (DPP4_HUMAN)	28813679	_NA_
P42771 (CDN2A_HUMAN)	28985506	ARF in article
P30086 (PEBP1_HUMAN)	29053969	_NA_
O15524 (SOCS1_HUMAN)	29081404	_NA_
Q16878 (CDO1_HUMAN)	29144989	_NA_
P10242 (MYB_HUMAN)	29144989	C-Myb in article
Q9BUX1 (CHAC1_HUMAN)	29383104	_NA_
Q9H8W2 (CF155_HUMAN)	29588351	P53RRA in article
P54646 (AAPK2_HUMAN)	30057310	PRKAA in article
Q13131 (AAPK1_HUMAN)	30057310	AMPK alpha in article
Q15717 (ELAV1_HUMAN)	30081711	_NA_
Q92560 (BAP1_HUMAN)	30202049	_NA_
P33527 (MRP1_HUMAN)	30726737	MRP1 in article
NA	30787392	_NA_
P36896 (ACV1B_HUMAN)	30804470	ALK4 in article
P36897 (TGFR1_HUMAN)	30804470	ALK5 in article

24844246 May promote ferroptosis. marker
 24844246 May promote ferroptosis. marker
 24844246 May promote ferroptosis. marker
 24844246 May promote ferroptosis. marker
 24844246 May promote ferroptosis. marker
 24844246 May inhibit ferroptosis. marker
 24844246 May inhibit ferroptosis. marker
 24844246 MUTED-TXNDC5 in article. M marker
 24844246 Not found in HGNC. May inh marker
 24844246 eIF2alpha in article. May pror marker
 25965523 May promote ferroptosis. marker
 25965523 May promote ferroptosis. marker
 25965523 May promote ferroptosis. marker
 26097885 HO-1 in article. May promote marker
 26097885 May promote ferroptosis. marker
 26097885 May promote ferroptosis. marker
 26097885 May promote ferroptosis. marker
 26097885 ATP5G3 in article. May prom marker
 26097885 May inhibit ferroptosis. marker
 26403645 May inhibit ferroptosis. marker
 27514700 _NA_ marker
 27793671 May promote ferroptosis. marker
 27793671 May inhibit ferroptosis. marker
 28887319 ASK1 in article. May promote marker
 28887319 p38 in article. May promote f marker
 28900510 GLUT1 in article. May inhibit marker
 28900510 GLUT3 in article. May inhibit marker
 28900511 GLUT6 in article. May inhibit marker
 28900512 GLUT8 in article. May inhibit marker
 28900513 GLUT12 in article. May inhibit marker
 28900514 Not found in HGNC. May inh marker
 28900515 GLUT14 in article. May inhibit marker
 29383104 GCN2 in article. May promote marker
 29632885 5-LOX in article marker
 29632885 p12-LOX in article marker
 29632885 15-LOX-1 in article marker
 30686534 May promote ferroptosis. marker
 30787392 May inhibit ferroptosis. marker
 31108460 May promote ferroptosis. marker
 31108460 May promote ferroptosis. marker
 31108460 May promote ferroptosis. marker
 31108460 May promote ferroptosis. marker
 31108460 May inhibit ferroptosis. marker
 31108460 May inhibit ferroptosis. marker
 31108460 May inhibit ferroptosis. marker
 31108460 May inhibit ferroptosis. marker
 31108460 May inhibit ferroptosis. marker
 31405213 May inhibit ferroptosis. marker
 31581313 14-3-3epsilon in article. May marker
 31700067 May inhibit ferroptosis. marker
 31740746 May inhibit ferroptosis. marker
 31740746 miR-4715-3p in article. May marker
 31827280 May promote ferroptosis. marker
 31901729 May promote ferroptosis. marker
 31926626 miR-30b-5p in article. May p marker
 Q9UPY5 (XCT_HUMAN) 22632970 _NA_
 P36969 (GPX4_HUMAN) 24439385 _NA_
 Q04828 (AK1C1_HUMAN) 24844246 _NA_
 P52895 (AK1C2_HUMAN) 24844246 _NA_

P42330 (AK1C3_HUMAN)	24844246 _NA_
P06400 (RB_HUMAN)	25444922 _NA_
P04792 (HSPB1_HUMAN)	25728673 _NA_
Q00613 (HSF1_HUMAN)	25728673 _NA_
Q16236 (NF2L2_HUMAN)	26403645 NRF2 in article
Q13501 (SQSTM_HUMAN)	26403645 p62 in article.
P15559 (NQO1_HUMAN)	26403645 _NA_
P09601 (HMOX1_HUMAN)	26403645 HO1 in article
P02794 (FRIH_HUMAN)	26403645 _NA_
P15941 (MUC1_HUMAN)	26930718 _NA_
P13640 (MT1G_HUMAN)	27015352 MT-1G in article
Q9NP59 (S40A1_HUMAN)	27441659 Ferroportin-1 (FPN) in article
Q9NZ45 (CISD1_HUMAN)	27510639 _NA_
P11021 (BIP_HUMAN)	28130223 _NA_
P18848 (ATF4_HUMAN)	28130223 _NA_
P04637 (P53_HUMAN)	28813679 _NA_
Q9NRZ9 (HELLS_HUMAN)	28900510 LSH in article
O00767 (ACOD_HUMAN)	28900510 SCD1 in article
O95864 (FADS2_HUMAN)	28900510 _NA_
P12931 (SRC_HUMAN)	28972104 _NA_
P40763 (STAT3_HUMAN)	28972104 _NA_
P29590 (PML_HUMAN)	29081404 _NA_
Q9Y697 (NFS1_HUMAN)	29168506 _NA_
Q9H3D4 (P63_HUMAN)	29212036 Delta Np63 alpha in article
P38936 (CDN1A_HUMAN)	29346757 Encoding p21
NA	29348676 _NA_
P45880 (VDAC2_HUMAN)	29569437 _NA_
P07954 (FUMH_HUMAN)	29917289 _NA_
Q8N5K1 (CISD2_HUMAN)	29928961 _NA_
NA	30035324 miR-9 in article
NA	30035324 miR-9 in article
NA	30035324 miR-9 in article
P35520 (CBS_HUMAN)	30258181 _NA_
Q9H1K1 (ISCU_HUMAN)	30557609 _NA_
O95573 (ACSL3_HUMAN)	30686757 _NA_
Q96FW1 (OTUB1_HUMAN)	30709928 _NA_
P16070 (CD44_HUMAN)	30709928 _NA_
Q6ZUF6 (NC336_HUMAN)	30787392 _NA_
O60885 (BRD4_HUMAN)	30988278 _NA_
P30041 (PRDX6_HUMAN)	31036877 _NA_
NA	31160087 miR-17-92 in article
P58004 (SESN2_HUMAN)	31323261 Sesn2 in article
P35240 (MERL_HUMAN)	31341276 Also known as merlin
O00327 (BMAL1_HUMAN)	31355331 _NA_
Q16665 (HIF1A_HUMAN)	31355331 _NA_
P05412 (JUN_HUMAN)	31394193 c-Jun in article
Q16790 (CAH9_HUMAN)	31442913 _NA_
Q9HC24 (LFG4_HUMAN)	31507082 S1R in article
Q99541 (PLIN2_HUMAN)	31520166 Also known as ADRP
Q9BRQ8 (AIFM2_HUMAN)	31634899 FSP1 in article
P13473 (LAMP2_HUMAN)	31672277 _NA_
P26651 (TTP_HUMAN)	31679460 _NA_
Q8N271 (PROM2_HUMAN)	31735663 Prominin2 in article
Q9NZZ3 (CHMP5_HUMAN)	31761326 _NA_
Q96FZ7 (CHMP6_HUMAN)	31761326 _NA_
Q03135 (CAV1_HUMAN)	31877357 Cav-1 in article
P30793 (GCH1_HUMAN)	31989025 _NA_

Table S4. The annotation of single cells

cell name	annotation
SMC01.T.AAACCTGCATACGCCG	CC1
SMC01.T.AAACCTGGTCGCATAT	CC1
SMC01.T.AAACCTGTCCCTTGCA	CC1
SMC01.T.AAACGGGAGGGAAACA	CC1
SMC01.T.AAACGGGGTATAGGTA	CC2
SMC01.T.AAAGATGAGGCCGAAT	CC1
SMC01.T.AAAGATGCATGGATGG	CC1
SMC01.T.AAAGATGTCACGACTA	CC2
SMC01.T.AAAGATGTCCGTTGCT	CC1
SMC01.T.AAAGCAACAGTCGATT	CC1
SMC01.T.AAAGTAGAGAGGTACC	CC1
SMC01.T.AAAGTAGAGGGCTTGA	CC2
SMC01.T.AAAGTAGCAAGGACAC	CC1
SMC01.T.AAAGTAGCAAGTAGTA	CC1
SMC01.T.AAAGTAGTCAGCATGT	CC1
SMC01.T.AAAGTAGTCTAACTGG	CC1
SMC01.T.AAAGTAGTCTCGCATC	CC1
SMC01.T.AAATGCCAGGATCGCA	CC1
SMC01.T.AAATGCCTCATTGTTGGG	CC1
SMC01.T.AACACGTTCTGGCGAC	CC1
SMC01.T.AACCATGCATCACGTA	CC1
SMC01.T.AACCATGCATCGACGC	CC1
SMC01.T.AACCATGGTATAGTAG	CC1
SMC01.T.AACCATGTCACAGTAC	CC1
SMC01.T.AACCATGTCCTTGACC	CC1
SMC01.T.AACCGCGAGTAGCGGT	CC1
SMC01.T.AACCGCGCAGCTCGAC	CC2
SMC01.T.AACCGCGTCTAACCGA	CC2
SMC01.T.AACCGCGTCTTTACGT	CC1
SMC01.T.AACGTTGGTAAGGGAA	CC1
SMC01.T.AACGTTGGTGCGGTAA	CC2
SMC01.T.AACTCAGGTTCCGGCA	CC1
SMC01.T.AACTCCCGTTTGTTGG	CC1
SMC01.T.AACTCCCTCTGCAGTA	CC1
SMC01.T.AACTCTTAGTCCGTAT	CC1
SMC01.T.AACTCTTCACAACGCC	CC1
SMC01.T.AACTCTTGTTGCTCTC	CC1
SMC01.T.AACTCTTGTTGCGTTA	CC1
SMC01.T.AACTCTTTCTGGTATG	CC1
SMC01.T.AACTTTACAGGCTAGCA	CC1
SMC01.T.AACTTTTCGTACTCGCG	CC1
SMC01.T.AACTTTTCGTTCCGGGCT	CC1
SMC01.T.AAGACCTAGGTAAACT	CC1
SMC01.T.AAGACCTCAGTGGAGT	CC2
SMC01.T.AAGCCGCTCCAAACTG	CC1
SMC01.T.AAGGAGCAGCGTCCG	CC1
SMC01.T.AAGGAGCCACATGGGA	CC1
SMC01.T.AAGGAGCCACTGAAGG	CC2
SMC01.T.AAGGAGCCATCGGACC	CC1
SMC01.T.AAGGAGCTCAGGCAAG	CC1
SMC01.T.AAGGAGCTCTAGAGTC	CC1
SMC01.T.AAGGCAGCAAAGGCGT	CC1
SMC01.T.AAGGTTCCACGTCTCT	CC1
SMC01.T.AAGGTTCTCCAATGGT	CC1
SMC01.T.AAGTCTGAGTAAGTAC	CC2
SMC01.T.AAGTCTGAGTGGTCCC	CC1

SMC01.T.AATCCAGAGTGCGTGA	CC1
SMC01.T.AATCCAGGTTTGTGG	CC2
SMC01.T.AATCCAGTCCGCGGTA	CC1
SMC01.T.AATCGGTAGTGGAGTC	CC2
SMC01.T.AATCGGTAGTGGCACA	CC1
SMC01.T.AATCGGTCAATCGAAA	CC1
SMC01.T.AATCGGTGTCCAATA	CC1
SMC01.T.ACACCAAGTACAGTTC	CC2
SMC01.T.ACACCAATCTCATTCA	CC1
SMC01.T.ACACTGACATTCTCAT	CC2
SMC01.T.ACACTGATCCTCCTAG	CC1
SMC01.T.ACAGCCGGTCTAGCCG	CC1
SMC01.T.ACAGCCGTCCCTAATT	CC1
SMC01.T.ACAGCTAGTTTGGCGC	CC1
SMC01.T.ACAGCTATCTGATTCT	CC1
SMC01.T.ACATACGAGTTGAGAT	CC2
SMC01.T.ACATACGCACGAAACG	CC1
SMC01.T.ACATACGTCTATCCCG	CC1
SMC01.T.ACATCAGGTAGCGTGA	CC1
SMC01.T.ACATCAGTCAGAGACG	CC1
SMC01.T.ACCAGTAAGATCGGGT	CC1
SMC01.T.ACCAGTATCGTCCAGG	CC1
SMC01.T.ACCCACTGTACTTAGC	CC1
SMC01.T.ACCGTAATCCCTGACT	CC1
SMC01.T.ACCTTTAAGTCGATAA	CC1
SMC01.T.ACCTTTATCCCACTTG	CC1
SMC01.T.ACCTTTATCGGTTCCGG	CC1
SMC01.T.ACGAGCCACATTCTGA	CC1
SMC01.T.ACGAGGACAATCAGAA	CC1
SMC01.T.ACGAGGAGTCTCTCTG	CC2
SMC01.T.ACGATACGTAGGGTAC	CC1
SMC01.T.ACGCAGCAGGTTACCT	CC1
SMC01.T.ACGCAGCGTGTAAAGTA	CC2
SMC01.T.ACGCAGCTCTACCTGC	CC1
SMC01.T.ACGCCAGCACTGCCAG	CC1
SMC01.T.ACGCCGAAGCTGCCCA	CC2
SMC01.T.ACGCCGAGTAACGTTC	CC1
SMC01.T.ACGCCGAGTCGTTGTA	CC2
SMC01.T.ACGCCGATCTAACTGG	CC1
SMC01.T.ACGGAGAAGGATGGAA	CC2
SMC01.T.ACGGAGACACGGTGTCT	CC1
SMC01.T.ACGGCCAGTCATGCCG	CC1
SMC01.T.ACGGGCTAGGTGCAAC	CC1
SMC01.T.ACGGGCTAGTTCGCGC	CC1
SMC01.T.ACGGGTCAGATCGATA	CC1
SMC01.T.ACGGGTCAGTGTCCAT	CC1
SMC01.T.ACTATCTCACCTCGGA	CC1
SMC01.T.ACTATCTCATATGGTC	CC1
SMC01.T.ACTATCTGTATAGTAG	CC2
SMC01.T.ACTATCTTCACTTCAT	CC1
SMC01.T.ACTGAACAGGTGCTTT	CC1
SMC01.T.ACTGAACCAAGACG	CC2
SMC01.T.ACTGAGTGTTGACGTT	CC1
SMC01.T.ACTGAGTTCAATACCG	CC1
SMC01.T.ACTGATGAGGTTACCT	CC1
SMC01.T.ACTGATGTCAGCTCGG	CC2
SMC01.T.ACTGATGTCCGCATCT	CC1
SMC01.T.ACTGCTCAGCTCAACT	CC1

SMC01.T.ACTGCTCGTTAGAACA	CC1
SMC01.T.ACTGTCCAGCTGAAAT	CC1
SMC01.T.ACTGTCCAGTCCCACG	CC1
SMC01.T.ACTGTCCGTTTGTGTG	CC2
SMC01.T.ACTGTCCTCAATACCG	CC2
SMC01.T.ACTGTCCTCACGATGT	CC1
SMC01.T.ACTGTCCTCCAGGGCT	CC1
SMC01.T.ACTGTCCTCGCCAGCA	CC1
SMC01.T.ACTTACTGTTACGACT	CC1
SMC01.T.ACTTACTGTTAGGGTG	CC2
SMC01.T.ACTTGTTAGACGCACA	CC1
SMC01.T.ACTTGTTAGGCCATAG	CC1
SMC01.T.ACTTGTTTCATATGAGA	CC1
SMC01.T.ACTTTCAGTAGGCATG	CC1
SMC01.T.ACTTTCATCCTTTCTC	CC1
SMC01.T.AGACGTTGTGGCTCCA	CC1
SMC01.T.AGAGCGACACCCTATC	CC1
SMC01.T.AGAGCGACATGGATGG	CC1
SMC01.T.AGAGCGAGTCGCGTGT	CC1
SMC01.T.AGAGCTTAGAGCCTAG	CC1
SMC01.T.AGAGCTTAGGTGCTTT	CC1
SMC01.T.AGAGCTTAGTTTAGGA	CC1
SMC01.T.AGAGTGGAGACACTAA	CC2
SMC01.T.AGAGTGGTCTGTGCAA	CC2
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SMC01.T.AGATCTGCATCAGTCA	CC1
SMC01.T.AGATCTGGTGATGTCT	CC2
SMC01.T.AGATTGCAGTGTGAAT	CC1
SMC01.T.AGCAGCCGTAGATTAG	CC2
SMC01.T.AGCAGCCGTATGAAAC	CC1
SMC01.T.AGCAGCCTCAAAGTAG	CC1
SMC01.T.AGCAGCCTCTAGAGTC	CC1
SMC01.T.AGCATACAGATGGCGT	CC1
SMC01.T.AGCATACAGCAGGTCA	CC1
SMC01.T.AGCATAACCACCGGAAA	CC1
SMC01.T.AGCATACTCCACGTGG	CC1
SMC01.T.AGCATACTCCGCGCAA	CC1
SMC01.T.AGCATACTCTTACCTA	CC2
SMC01.T.AGCCTAACAAGTTCTG	CC2
SMC01.T.AGCCTAACAGTTCCCT	CC1
SMC01.T.AGCCTAATCAGCGATT	CC1
SMC01.T.AGCGTATAGAGCTGCA	CC1
SMC01.T.AGCGTATCAGGTGGAT	CC2
SMC01.T.AGCGTCGAGATTACCC	CC1
SMC01.T.AGCGTCGGTGTGGCTC	CC1
SMC01.T.AGCTCCTTCACATGCA	CC1
SMC01.T.AGCTCTCAGCGATAGC	CC1
SMC01.T.AGCTCTCAGGTGACCA	CC1
SMC01.T.AGCTCTCCAACGATGG	CC1
SMC01.T.AGCTTGATCACTCCTG	CC1
SMC01.T.AGGCCACAGCTGCCCA	CC1
SMC01.T.AGGCCACGTTAAGAAC	CC2
SMC01.T.AGGCCACTCCGCTGTT	CC1
SMC01.T.AGGCCGTGTGGTGTAG	CC1
SMC01.T.AGGCCGTTTCAGAAATG	CC1
SMC01.T.AGGCCGTTTCATTTGGG	CC1
SMC01.T.AGGGAGTAGTGACATA	CC1
SMC01.T.AGGGAGTCAATCACAC	CC1

SMC01.T.AGGGATGGTTCCACGG	CC1
SMC01.T.AGGGATGTCACCTTAT	CC2
SMC01.T.AGGGTGAGTCGCCATG	CC1
SMC01.T.AGGGTGATCACGAAGG	CC1
SMC01.T.AGGTCATAGCATCATC	CC1
SMC01.T.AGGTCATTCCCGACTT	CC1
SMC01.T.AGTAGTCTCTCAAGTG	CC1
SMC01.T.AGTCTTTTCTATCCTA	CC1
SMC01.T.AGTGAGGAGTGTCCCG	CC1
SMC01.T.AGTGAGGGTGCGGTAA	CC1
SMC01.T.AGTGGGAAGTTACGGG	CC2
SMC01.T.AGTGGGAGTCGGCTCA	CC1
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SMC01.T.ATAACGCCATCCCCT	CC1
SMC01.T.ATAACGCGTTTGACTG	CC2
SMC01.T.ATAAGAGCAAATTGCC	CC1
SMC01.T.ATAAGAGTCAAGAAGT	CC1
SMC01.T.ATAGACCAGCAGGCTA	CC1
SMC01.T.ATAGACCTCTTTACGT	CC1
SMC01.T.ATCACGACATTAGGCT	CC1
SMC01.T.ATCATCTCATCTATGG	CC2
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SMC01.T.ATCTACTGTATTTCGTG	CC2
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SMC01.T.ATGCGATGTTGGTTTG	CC1
SMC01.T.ATGCGATTCCATGAGT	CC2
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SMC01.T.GAAGCAGTCGGAAACG	CC1
SMC01.T.GAATAAGAGAAGGTTT	CC1
SMC01.T.GAATGAAAGCTAACTC	CC2
SMC01.T.GAATGAATCTCTAAGG	CC1
SMC01.T.GACACGCAGACAGACC	CC2
SMC01.T.GACACGCTCAATCACG	CC2
SMC01.T.GACAGAGAGGATGGAA	CC1
SMC01.T.GACAGAGGTGCCTGCA	CC2
SMC01.T.GACCAATGTCAAAGCG	CC1
SMC01.T.GACCAATGTTCCACC	CC1
SMC01.T.GACCAATTCGGCGGTT	CC1
SMC01.T.GACCTGGGTCTAACGT	CC1
SMC01.T.GACGCGTAGTATCTCG	CC1
SMC01.T.GACGCGTTCGCACTCT	CC1
SMC01.T.GACGGCTAGCGAGAAA	CC1
SMC01.T.GACGGCTAGGACGAAA	CC1
SMC01.T.GACGGCTAGTGCAAGC	CC1
SMC01.T.GACGGCTAGTGCCATT	CC1
SMC01.T.GACGGCTCATACTACG	CC1
SMC01.T.GACGTGCAGAGCTATA	CC1
SMC01.T.GACGTGCGTAGGAGTC	CC1
SMC01.T.GACGTGCGTCTCCACT	CC1
SMC01.T.GACGTTACACGACTCG	CC1
SMC01.T.GACGTTACATTGTGCA	CC1
SMC01.T.GACTAACC AAAGAATC	CC1
SMC01.T.GACTAACGTTCCACGG	CC2
SMC01.T.GACTACAAGGATTCCG	CC1
SMC01.T.GACTACACACTTCTGC	CC1
SMC01.T.GACTACAGTCACCCAG	CC1
SMC01.T.GACTACAGTTAAGGGC	CC1
SMC01.T.GACTACAGTTGCCTCT	CC2
SMC01.T.GACTGCGCAATGGAAT	CC1
SMC01.T.GACTGCGCATTAAACCG	CC1
SMC01.T.GACTGCGGTAAGCACG	CC1
SMC01.T.GAGCAGACACAGCCCA	CC1
SMC01.T.GAGCAGATCGTCTGAA	CC1
SMC01.T.GAGCAGATCTTGTCAT	CC2
SMC01.T.GAGTCCGAGCAGGCTA	CC1
SMC01.T.GAGTCCGGTCAGAGGT	CC1
SMC01.T.GATCAGTCATCCGTGG	CC1
SMC01.T.GATCAGTGTATAGGGC	CC1
SMC01.T.GATCAGTTCATGTCTT	CC1
SMC01.T.GATCGATAGCATGGCA	CC1
SMC01.T.GATCGATAGCTAACAA	CC1
SMC01.T.GATCGATCACCAGGCT	CC1
SMC01.T.GATCGATCACCAGGTC	CC1
SMC01.T.GATCGATGTCTTTAT	CC1
SMC01.T.GATCGATTCTGTGCAA	CC1
SMC01.T.GATCGCGCACCAAGGTC	CC1
SMC01.T.GATCGCGCATCTACGA	CC1
SMC01.T.GATCGCGGTAGCCTCG	CC2
SMC01.T.GATCTAGAGCTCTCGG	CC1
SMC01.T.GATCTAGGTGACTCAT	CC2
SMC01.T.GATGAAAAGTGGAGTC	CC2
SMC01.T.GATGAAAACAAAGGAAG	CC1
SMC01.T.GATGAAAAGTCGCGTGT	CC1
SMC01.T.GATGAGGAGGACCACA	CC1

SMC01.T.GATGAGGAGGCATGTG	CC1
SMC01.T.GATGAGGCACCCAGTG	CC1
SMC01.T.GATGAGGCACGAGGTA	CC1
SMC01.T.GATGAGGGTGTGGTG	CC1
SMC01.T.GATGCTAAGCGCCTCA	CC1
SMC01.T.GATGCTATCTTCTGGC	CC1
SMC01.T.GATTCAGAGGTGTGGT	CC1
SMC01.T.GATTCAGCAGTTAACC	CC1
SMC01.T.GATTCAGGTTAGGGTG	CC1
SMC01.T.GATTCAGTCTGGAGCC	CC1
SMC01.T.GCAAAGTACTGTAA	CC1
SMC01.T.GCAAAGTACTCCAGGA	CC2
SMC01.T.GCAAAGTACTCAGTCCA	CC2
SMC01.T.GCACATAACTGCGC	CC1
SMC01.T.GCACATAGTCAACATC	CC1
SMC01.T.GCACATAGTCCTCCAT	CC1
SMC01.T.GCACATAGTTGGAGGT	CC1
SMC01.T.GCACTCTAGAAACCGC	CC2
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SMC01.T.GCACTCTACGAGAGT	CC1
SMC01.T.GCAGCCAAGTAGGTGC	CC2
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SMC01.T.GCTCTGTGTTCCCGAG	CC1
SMC01.T.GCTCTGTTCCGTACC	CC1
SMC01.T.GCTGCAGAGATGCGAC	CC1
SMC01.T.GCTGCAGAGTTGTCGT	CC2
SMC01.T.GCTGCAGCAGGGTTAG	CC1
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SMC01.T.GCTGGGTAGTCTCGGC	CC1
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SMC01.T.GCTGGGTTCTTAGCCC	CC1
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SMC01.T.GGACATTAGCAGCGTA	CC1
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SMC01.T.GGATTACTCTTGCCGT	CC1
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SMC01.T.GGGATGACAACTGTC	CC2
SMC01.T.GGGATGAGTTCCGTCT	CC1
SMC01.T.GGGATGATCTGAAAGA	CC1

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SMC01.T.GGGCATCCAGTCCTTC	CC1
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SMC01.T.GGGTCTGAGGTCCGAT	CC2
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SMC01.T.GGGTCTGCATGCCTAA	CC1
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SMC01.T.GTACTTTTCGCCAAAT	CC2
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SMC01.T.TACGGGCGTACAGCAG	CC2
SMC01.T.TACGGGCGTCAAAGAT	CC2

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SMC01.T.TGCGTGGAGATTACCC	CC2
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SMC01.T.TGCTACCGTAAACCTC	CC1
SMC01.T.TGCTGCTAGAGAGCTC	CC1
SMC01.T.TGCTGCTCATGCCCGA	CC2
SMC01.T.TGGACGCAGGATGCGT	CC2
SMC01.T.TGGACGCCACAGAGGT	CC1
SMC01.T.TGGACGCGTATAGGGC	CC2
SMC01.T.TGGACGCTCTGGTATG	CC1
SMC01.T.TGGCCAGAGTTGAGAT	CC1
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SMC01.T.TGGCGCATCTGTGCAA	CC1
SMC01.T.TGGCTGGAGCTAGGCA	CC1
SMC01.T.TGGCTGGGTAATTGGA	CC1
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SMC01.T.TGGGCGTCTCTTGAT	CC1
SMC01.T.TGGTTAGAGGCTAGGT	CC1
SMC01.T.TGGTTCCCATGACATC	CC1
SMC01.T.TGTATTCCACATAACC	CC1
SMC01.T.TGTATTCCATCGACGC	CC1
SMC01.T.TGTCCCAAGAGTACAT	CC1
SMC01.T.TGTCCCAAGGTTTC	CC1
SMC01.T.TGTGGTACAGGACGTA	CC2
SMC01.T.TGTGGTAGTATGGTTC	CC1
SMC01.T.TGTGTTTAGTGCTGCC	CC1
SMC01.T.TGTGTTTCAGGCTCAC	CC1
SMC01.T.TGTGTTTTACCGGGT	CC1
SMC01.T.TTAACTCAGACTCGGA	CC1
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SMC01.T.TTAGGACCAACGCACC	CC1
SMC01.T.TTAGGACTCAGCATGT	CC1
SMC01.T.TTAGGACTCCTCCTAG	CC1
SMC01.T.TTAGGACTCTAACTCT	CC1
SMC01.T.TTAGGCAAGGAACTGC	CC1
SMC01.T.TTAGGCATCCGCAGTG	CC1

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SMC01.T.TTATGCTTCAGCAACT	CC1
SMC01.T.TTATGCTTCGGCGCAT	CC2
SMC01.T.TTCGAAGCACAGGAGT	CC1
SMC01.T.TTCGAAGCTAACCGA	CC1
SMC01.T.TTCGGTCAGAAACCAT	CC1
SMC01.T.TTCGGTCTACCATCA	CC2
SMC01.T.TTCGGTCTTTACCGC	CC1
SMC01.T.TTCTACAAGGCTACGA	CC1
SMC01.T.TTCTACACATGCCTTC	CC1
SMC01.T.TTCTACATCGGATGGA	CC2
SMC01.T.TTCTACATCTTGACGA	CC2
SMC01.T.TTCTCAAGTCTACCTC	CC1
SMC01.T.TTCTCAATCAACCAAC	CC1
SMC01.T.TTCTCCTTCGGACAAG	CC1
SMC01.T.TTCTTAGAGCCTTGAT	CC1
SMC01.T.TTGAACGAGTGTGGCA	CC1
SMC01.T.TTGAACGGTCCGAAGA	CC2
SMC01.T.TTGACTTAGGGTCTCC	CC2
SMC01.T.TTGACTTGTCTCATCC	CC2
SMC01.T.TTGCCGTAGATGCGAC	CC2
SMC01.T.TTGCCGTGTCGTGGCT	CC1
SMC01.T.TTGCGTCAGTGGTAGC	CC1
SMC01.T.TTGCGTCCAACAACCT	CC1
SMC01.T.TTGCGTTCGTACGCACC	CC1
SMC01.T.TTGCGTTCGTTGCGCAC	CC1
SMC01.T.TTGCGTCTCACTTATC	CC1
SMC01.T.TTGCGTCTCCCAAGAT	CC2
SMC01.T.TTGCGTCTCCTCAACC	CC2
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SMC01.T.TTTGTACAGGGTATG	CC1
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SMC02.T.AACACGTGTGGAAAGA	CC1
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SMC02.T.AACTTTCGTTTCGCTAA	CC1

SMC02.T.AAGACCTGTGACCAAG	CC2
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SMC03.T.AAACCTGTCAGTTTGG	CC2
SMC03.T.AAACGGGAGATGGGTC	CC2

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SMC03.T.AAAGCAAAGATCACGG	CC2
SMC03.T.AAAGCAAGTAGGCTGA	CC2
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SMC03.T.AACCATGGTAGGCATG	CC2
SMC03.T.AACCGCGCATTGACA	CC2
SMC03.T.AACTCAGTCCGCATCT	CC2
SMC03.T.AACTCCCGTCACAAGG	CC2
SMC03.T.AACTCTTTCCTGTAGA	CC2
SMC03.T.AACTGGTCAGTCGTGC	CC2
SMC03.T.AACTGGTGTCTCCACT	CC2
SMC03.T.AACTTTCAGAGTACCG	CC2
SMC03.T.AACTTTCGTCTGATCA	CC2
SMC03.T.AACTTTCAGTACGT	CC2
SMC03.T.AACTTTCGCGCTTGG	CC2
SMC03.T.AAGACCTGTCTGGCT	CC2
SMC03.T.AAGACCTGTGTTGAT	CC2
SMC03.T.AAGGAGCAGGGCTTCC	CC2
SMC03.T.AAGGAGCCAGTAAGCG	CC2
SMC03.T.AAGGAGTCCACGTTC	CC2
SMC03.T.AAGGAGTCTGTACGGC	CC2
SMC03.T.AAGGCAGAGCTGTCTA	CC2
SMC03.T.AAGGTTTCAAGTACTCT	CC2
SMC03.T.AAGGTTCCATGTCCTC	CC2
SMC03.T.AATCCAGAGCCAGTAG	CC2
SMC03.T.AATCCAGAGTACGTAA	CC2
SMC03.T.AATCCAGGTTTGTGTG	CC2
SMC03.T.AATCCAGTCTTTTCTC	CC2
SMC03.T.AATCGGTTTCGCCAGCA	CC2
SMC03.T.AATCGGTTCTATGTGG	CC1
SMC03.T.ACACCAATCGCTTGTC	CC2
SMC03.T.ACACCCTAGTGCTGCC	CC2
SMC03.T.ACAGCCGCAACTTGAC	CC2
SMC03.T.ACAGCCGCACCACGTG	CC1
SMC03.T.ACAGCTAAGCTAACAA	CC2
SMC03.T.ACAGCTAAGTCAAGGC	CC2
SMC03.T.ACATACGGTAGCTCCG	CC2
SMC03.T.ACATACGTCAGAAATG	CC1
SMC03.T.ACATCAGTCATAAAGG	CC2
SMC03.T.ACATGGTAGAGGTTGC	CC2
SMC03.T.ACCAGTATCTACGAGT	CC2
SMC03.T.ACCCACTAGAGTCGGT	CC2
SMC03.T.ACCCACTAGCCACTAT	CC2
SMC03.T.ACCGTAACACCTATCC	CC2
SMC03.T.ACCGTAAGTGTCTCT	CC2
SMC03.T.ACCGTAATCTGTCCGT	CC2
SMC03.T.ACGAGCCGTCTGGTCG	CC2
SMC03.T.ACGAGGACACATAACC	CC2
SMC03.T.ACGATGTAGGATGGAA	CC2
SMC03.T.ACGCAGCAGCCCAACC	CC2
SMC03.T.ACGCAGCCAAGTCTGT	CC2
SMC03.T.ACGCCAGTCAAAGTAG	CC1

SMC03.T.ACGCCGACAGGATTGG	CC2
SMC03.T.ACGGAGATCAATCACG	CC2
SMC03.T.ACGGCCAAGCCAGTTT	CC2
SMC03.T.ACGGCCATCATTGCGA	CC2
SMC03.T.ACTATCTAGGAGCGAG	CC2
SMC03.T.ACTATCTAGGATGGAA	CC2
SMC03.T.ACTGAGTCAAGTTGTC	CC2
SMC03.T.ACTGAGTTCAGTCAGT	CC2
SMC03.T.ACTGATGCAGTTCATG	CC2
SMC03.T.ACTGATGTCCACGTTT	CC2
SMC03.T.ACTGTCCAGAGCTATA	CC2
SMC03.T.ACTGTCCAGGGATCTG	CC2
SMC03.T.ACTGTCCTCTGATTCT	CC2
SMC03.T.ACTGTCCTCTTGTATC	CC2
SMC03.T.ACTTACTAGGCGCTCT	CC2
SMC03.T.ACTTACTAGTACGCGA	CC2
SMC03.T.ACTTACTAGTCCCACG	CC2
SMC03.T.ACTTACTCAATAAGCA	CC2
SMC03.T.ACTTACTTCACATAGC	CC2
SMC03.T.ACTTACTTCCGCATAA	CC2
SMC03.T.ACTTGTTGTTACGACT	CC2
SMC03.T.ACTTGTTGTTGCCTCT	CC2
SMC03.T.ACTTGTTTCAGGCGAA	CC2
SMC03.T.ACTTTCATCCACGCAG	CC2
SMC03.T.ACTTTCATCTAACGGT	CC2
SMC03.T.AGAATAGGTCAATGTC	CC2
SMC03.T.AGAATAGTCGGGAGTA	CC2
SMC03.T.AGACGTTAGATATACG	CC2
SMC03.T.AGACGTTAGCTGGAAC	CC2
SMC03.T.AGACGTTCAATAAGCA	CC2
SMC03.T.AGAGCGAGTATTCTCT	CC2
SMC03.T.AGAGCGAGTCTGCCAG	CC2
SMC03.T.AGAGCGATCTTGAGGT	CC2
SMC03.T.AGAGTGGCACCAGTTA	CC2
SMC03.T.AGAGTGGCATCAGTCA	CC2
SMC03.T.AGAGTGGTCGGCTACG	CC2
SMC03.T.AGAGTGGTCTGACCTC	CC2
SMC03.T.AGATCTGAGATCCGAG	CC2
SMC03.T.AGATTGCTCTGTTTGT	CC2
SMC03.T.AGCAGCCCAATAAGCA	CC2
SMC03.T.AGCATACAGGTGCAAC	CC2
SMC03.T.AGCATACCAAGCCATT	CC2
SMC03.T.AGCATACGTCTAGGTT	CC2
SMC03.T.AGCCTAAAGCCAACAG	CC2
SMC03.T.AGCGGTCAGACACTAA	CC2
SMC03.T.AGCGGTCAGCTAACTC	CC2
SMC03.T.AGCGTATAGGCCATAG	CC2
SMC03.T.AGCGTATCACGACGAA	CC2
SMC03.T.AGCGTCGCAAGCTGTT	CC2
SMC03.T.AGCGTCGCAGTAAGAT	CC2
SMC03.T.AGCTCCTTCTATCCTA	CC2
SMC03.T.AGCTCTCAGTGAACGC	CC2
SMC03.T.AGCTCTCGTCTCCAT	CC2
SMC03.T.AGCTTGAGTCTCTTTA	CC2
SMC03.T.AGCTTGAGTGTAAGTA	CC2
SMC03.T.AGGCCACAGATAGCAT	CC1
SMC03.T.AGGCCACGTGTATGGG	CC2
SMC03.T.AGGCCGTGTGCGCTTG	CC2

SMC03.T.AGGCCGTGTTTACTG	CC2
SMC03.T.AGGCCGTTACATGCA	CC2
SMC03.T.AGGGAGTAGCTGTTCA	CC2
SMC03.T.AGGGAGTCAAGTACCT	CC2
SMC03.T.AGGGAGTGTAGCGTGA	CC2
SMC03.T.AGGGAGTGTTCGCGAC	CC1
SMC03.T.AGGGATGCACAGGTTT	CC2
SMC03.T.AGGGTGACAATGTAAG	CC2
SMC03.T.AGGGTGAGTCGACTGC	CC2
SMC03.T.AGGGTGAGTGCCTGCA	CC2
SMC03.T.AGGTCATCAACACGCC	CC2
SMC03.T.AGGTCATGTGATGTGG	CC2
SMC03.T.AGTAGTCAGGTAGCTG	CC2
SMC03.T.AGTAGTCGTCCGTTAA	CC2
SMC03.T.AGTAGTCTCATTGCGA	CC2
SMC03.T.AGTCTTTAGACCTTTG	CC2
SMC03.T.AGTCTTTAGTGTTC	CC2
SMC03.T.AGTGAGGCACTCAGGC	CC1
SMC03.T.AGTGAGGCACTGTGTA	CC2
SMC03.T.AGTGAGGCAGTTCCT	CC2
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SMC03.T.AGTTGGTCAAGTAATG	CC2
SMC03.T.AGTTGGTTCATGCTC	CC2
SMC03.T.ATAAGAGTCAATAAGG	CC2
SMC03.T.ATAGACCCAGCGTCCA	CC2
SMC03.T.ATCACGAAGCGTGAAC	CC2
SMC03.T.ATCACGAGTAAGTGGC	CC2
SMC03.T.ATCATCTAGACTGTAA	CC2
SMC03.T.ATCATGGGTAAGGATT	CC2
SMC03.T.ATCCACCAGACACGAC	CC1
SMC03.T.ATCCACCCACAGGTTT	CC2
SMC03.T.ATCCGAAGTTAAGACA	CC2
SMC03.T.ATCGAGTTCCTAACGG	CC2
SMC03.T.ATCTACTAGGTTACCT	CC2
SMC03.T.ATCTACTGTCATGCCG	CC2
SMC03.T.ATCTGCCTCATCTGTT	CC2
SMC03.T.ATCTGCCTCGTGGGAA	CC2
SMC03.T.ATGAGGGAGCGAGAAA	CC2
SMC03.T.ATGAGGGTCATATCGG	CC2
SMC03.T.ATGCGATCATGGTCTA	CC2
SMC03.T.ATGGGAGGTAAGGGAA	CC2
SMC03.T.ATGTGTGAGTATGACA	CC2
SMC03.T.ATTACTCTAGAGTC	CC2
SMC03.T.ATTATCCGTACACCGC	CC2
SMC03.T.ATTATCCGTCGCGAAA	CC2
SMC03.T.ATTCTACAGTACGTAA	CC2
SMC03.T.ATTCTACTCGCATGAT	CC2
SMC03.T.ATTCTACTCGCCATAA	CC2
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SMC03.T.ATTGGTGGTTCGAATC	CC2
SMC03.T.ATTTCTGAGCGTCAAG	CC2
SMC03.T.ATTTCTGAGCTAAGAT	CC2
SMC03.T.CAACCAACAGGACGTA	CC2
SMC03.T.CAACCTCAGAATAGGG	CC2
SMC03.T.CAACCTCAGTCTCGGC	CC2

SMC03.T.CAACTAGAGATGTGGC	CC2
SMC03.T.CAACTAGCACATGTGT	CC2
SMC03.T.CAACTAGCACCTCGGA	CC2
SMC03.T.CAACTAGTCACTCTTA	CC2
SMC03.T.CAAGATCAGGGTTTCT	CC2
SMC03.T.CAAGATCCATGCCCGA	CC2
SMC03.T.CAAGATCTCATGTCCC	CC2
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SMC03.T.CAAGTTGTCTGGAGCC	CC2
SMC03.T.CACAAACAGTTGTCTGT	CC2
SMC03.T.CACAAACGTCATATCG	CC2
SMC03.T.CACACAATCCACGAAT	CC2
SMC03.T.CACACCTTCACCACCT	CC1
SMC03.T.CACACCTTCCTTTCTC	CC2
SMC03.T.CACACCTTCGGCTACG	CC2
SMC03.T.CACAGGCTCGTCGTTC	CC2
SMC03.T.CACATAGCAGACGCCT	CC2
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SMC03.T.CACATTTTCCCTCAGT	CC2
SMC03.T.CACATTTTCTAAGTG	CC2
SMC03.T.CACATTTTTCGCTTAGA	CC2
SMC03.T.CACCACTGTACAGTTC	CC2
SMC03.T.CACCAGGGTAAACCTC	CC2
SMC03.T.CACCTTGCAGGGTTAG	CC2
SMC03.T.CACCTTGGTTATCCGA	CC2
SMC03.T.CACCTTGTATATCGG	CC1
SMC03.T.CACCTTGTCTGGAGCC	CC2
SMC03.T.CACTCCACACAGGCCT	CC2
SMC03.T.CACTCCATCTGAGTGT	CC1
SMC03.T.CAGAATCAGAAACCTA	CC2
SMC03.T.CAGAATCCACTGTTAG	CC2
SMC03.T.CAGAGAGAGCACGCCT	CC2
SMC03.T.CAGAGAGAGCTAAGAT	CC2
SMC03.T.CAGAGAGCATAAGACA	CC2
SMC03.T.CAGAGAGTCCCAAGAT	CC2
SMC03.T.CAGATCAGTAATCACC	CC2
SMC03.T.CAGATCATCACTTCAT	CC1
SMC03.T.CAGCAGCAGACAAGCC	CC2
SMC03.T.CAGCAGCCATCCCATC	CC2
SMC03.T.CAGCAGCGTCCTGCTT	CC2
SMC03.T.CAGCAGCGTGCAACGA	CC2
SMC03.T.CAGCAGCTCGGCCGAT	CC2
SMC03.T.CAGCATAGTTACGACT	CC2
SMC03.T.CAGCCGACACCGGAAA	CC1
SMC03.T.CAGCGACAGCCCTAAT	CC2
SMC03.T.CAGCGACTCAGTGCAT	CC2
SMC03.T.CAGCGACTCGGTTAAC	CC2
SMC03.T.CAGCTAATCCATGAAC	CC2
SMC03.T.CAGGTGCCAATGCCAT	CC2
SMC03.T.CAGTAACAGAGTAATC	CC2
SMC03.T.CAGTAACGTACAGTGG	CC1
SMC03.T.CAGTCCTAGGTACTCT	CC2
SMC03.T.CAGTCCTGTTCCACTC	CC2
SMC03.T.CAGTCCTTCTTGAGGT	CC2
SMC03.T.CATATTCAGCGACGTA	CC2
SMC03.T.CATCAGAGTTATCCGA	CC2
SMC03.T.CATCCACTCTTATCTG	CC2
SMC03.T.CATCGGGAGTCGCCGT	CC2

SMC03.T.CATGACACATCGATGT	CC2
SMC03.T.CATGCCTAGTGCTGCC	CC2
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SMC03.T.CATGGCGCATCACGTA	CC2
SMC03.T.CATGGCGGTAGGAGTC	CC2
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SMC03.T.CATGGCGTCAAGCCTA	CC2
SMC03.T.CATTATCAGTGGTAGC	CC2
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SMC03.T.CATTTCGAGAATTCCC	CC2
SMC03.T.CATTTCGCGTCCGACGT	CC2
SMC03.T.CCACCTATCGCCTGAG	CC2
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SMC03.T.CCACTACGTTTGCGC	CC2
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SMC03.T.CCATTTCGAGGTCTCG	CC2
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SMC03.T.CCCAATCTCACCATAG	CC2
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SMC03.T.CCTAAAGTCCGCATCT	CC2
SMC03.T.CCTACACCATACTACG	CC1
SMC03.T.CCTACCACATGCCTTC	CC1
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SMC03.T.CGAATGTCAGCCAGAA	CC2
SMC03.T.CGACCTTCATGTCCTC	CC2
SMC03.T.CGACTTCAGACAATAC	CC2
SMC03.T.CGACTTCAGATCCGAG	CC2

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SMC03.T.CGGACGTGTTCGTCTC	CC2
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SMC03.T.CGTGAGCAGGCAATTA	CC2
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SMC03.T.CGTGTAACACGAAAGC	CC2
SMC03.T.CGTGTAAGTCTCCACT	CC1

SMC03.T.CGTGTCTCAGTAAGAT	CC2
SMC03.T.CGTTAGAAGGTA CTCT	CC2
SMC03.T.CGTTAGATCTTGTCAT	CC2
SMC03.T.CGTTCTGGTTTACTCT	CC2
SMC03.T.CGTTGGGCACCCTATC	CC2
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SMC03.T.CTCCTAGTCACCGTAA	CC1
SMC03.T.CTCGAAATCTCCAGGG	CC2
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SMC03.T.CTGAAGTAGCGAAGGG	CC2
SMC03.T.CTGAAGTAGTGACATA	CC2
SMC03.T.CTGAAGTGCCAACTA	CC2
SMC03.T.CTGATAGAGTGGAGTC	CC2
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SMC03.T.GACACGCGTGTATGGG	CC2
SMC03.T.GACACGCGTTCTCATT	CC2
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SMC03.T.GACGCGTTCACGTGG	CC2
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SMC03.T.GACGGCTAGTTGAGTA	CC2
SMC03.T.GACGGCTCACAGACTT	CC2
SMC03.T.GACGTGCCATGCAATC	CC2
SMC03.T.GACGTTAAGGTAGCCA	CC2
SMC03.T.GACGTTATCCGCATAA	CC2
SMC03.T.GACTAACGTCGGCATC	CC2
SMC03.T.GACTACATCTTGTCAT	CC2
SMC03.T.GACTGCGGTTGGGACA	CC2
SMC03.T.GACTGCGTCAAGGCTT	CC2
SMC03.T.GAGCAGACATACCATG	CC2
SMC03.T.GAGGTGACATTCCTGC	CC2
SMC03.T.GAGGTGATCGTAGGAG	CC2
SMC03.T.GAGGTGATCTTTACAC	CC2
SMC03.T.GAGTCCGGTGTGAAAT	CC2
SMC03.T.GATCGATAGTGTACTC	CC2
SMC03.T.GATCGATCACGAAACG	CC2
SMC03.T.GATCGATGTCTCGTTC	CC1
SMC03.T.GATCGCGGTAAATGAC	CC2
SMC03.T.GATCGTATCTGAGGGA	CC2
SMC03.T.GATCTAGCATACTACG	CC2
SMC03.T.GATCTAGCATGCCCGA	CC2
SMC03.T.GATCTAGGTTCCGGGCT	CC2
SMC03.T.GATGAAAGTTGGACCC	CC2
SMC03.T.GATGAGGGTTGGGACA	CC2
SMC03.T.GATGAGGTCATACGGT	CC2
SMC03.T.GATGCTACACATCCAA	CC2
SMC03.T.GATGCTACATAGTAAG	CC2

SMC03.T.GATTCAGTCCACGACG	CC2
SMC03.T.GCAAACCTCACATCTTT	CC2
SMC03.T.GCAAACCTCACCATGTA	CC2
SMC03.T.GCAAACCTGTATAAACG	CC2
SMC03.T.GCAATCAAGATCCCAGC	CC2
SMC03.T.GCAATCAAGCATGGCA	CC2
SMC03.T.GCAATCAGTTCAACCA	CC2
SMC03.T.GCACATATCGTACCGG	CC2
SMC03.T.GCACTCTTCGCATGAT	CC2
SMC03.T.GCAGCCAAGCTCCTCT	CC2
SMC03.T.GCAGCCACAAGTCTAC	CC2
SMC03.T.GCAGTTAGTACAGACG	CC2
SMC03.T.GCATAACAAGAAACCAT	CC2
SMC03.T.GCATAACAAGGCACATG	CC2
SMC03.T.GCATAACAACGCACC	CC2
SMC03.T.GCATGCGAGACTAGAT	CC1
SMC03.T.GCATGCGTCACCAGGC	CC2
SMC03.T.GCATGTACAAGTCATC	CC2
SMC03.T.GCCAAATAGAACTCGG	CC2
SMC03.T.GCCAAATGTGTTAAGA	CC2
SMC03.T.GCCAAATGTTCCACTC	CC2
SMC03.T.GCCTCTAAGTCTCCTC	CC2
SMC03.T.GCCTCTATCTATCGCC	CC2
SMC03.T.GCGACCAGTTATTCTC	CC2
SMC03.T.GCGACCATCACAATGC	CC2
SMC03.T.GCGACCATCAGCACAT	CC2
SMC03.T.GCGAGAATCAGCTTAG	CC2
SMC03.T.GCGAGAATCCAACCAA	CC2
SMC03.T.GCGCAACAGCTTTGGT	CC2
SMC03.T.GCGCAACCACACCGAC	CC2
SMC03.T.GCGCAACTCCAAACAC	CC2
SMC03.T.GCGCAGTTCATTATCC	CC2
SMC03.T.GCGGGTTCACCTTGTC	CC2
SMC03.T.GCGGGTTTCTTCCTTC	CC2
SMC03.T.GTCCTAGTATAATGG	CC2
SMC03.T.GCTCTGTAGAAGGTTT	CC2
SMC03.T.GCTCTGTAGACTACAA	CC2
SMC03.T.GCTCTGTGTTCAACCA	CC2
SMC03.T.GCTGCGACAGCGTAAG	CC2
SMC03.T.GCTGCGAGTAAGAGGA	CC2
SMC03.T.GCTGGGTGAGTAAGCG	CC2
SMC03.T.GCTTCCAAGCAAATCA	CC2
SMC03.T.GGAAAGCCAAGCGATG	CC2
SMC03.T.GGAAAGCGTGACCAAG	CC2
SMC03.T.GGAAAGCTCATCGGAT	CC2
SMC03.T.GGAACTTAGGTGATAT	CC2
SMC03.T.GGAACTTGTCGCTTTC	CC2
SMC03.T.GGAATAACAATTCCTT	CC2
SMC03.T.GGAATAATCACGGTTA	CC2
SMC03.T.GGACATTTCAACACTG	CC2
SMC03.T.GGACGTCTCACTGGGC	CC2
SMC03.T.GGAGCAAAGATGCGAC	CC2
SMC03.T.GGAGCAAAGGTCGGAT	CC2
SMC03.T.GGATGTTCAATCAGAA	CC2
SMC03.T.GGATTACCAAGTGACAG	CC2
SMC03.T.GGCAATTAGTGACTC	CC2
SMC03.T.GGCAATTTCAAACCAC	CC2
SMC03.T.GGCGACTGTGCGGTCT	CC2

SMC03.T.GGCGACTTCCGTACAA	CC2
SMC03.T.GGCGTGTGTAAAGGAG	CC2
SMC03.T.GGCTCGAGTACTTAGC	CC2
SMC03.T.GGCTGGTCAAATACAG	CC2
SMC03.T.GGCTGGTTCTCCAACC	CC2
SMC03.T.GGGAATGAGTGACATA	CC2
SMC03.T.GGGAATGCAACAACCT	CC2
SMC03.T.GGGACCTTCACAATGC	CC2
SMC03.T.GGGCACTGTACCAGTT	CC2
SMC03.T.GGGCACTGTGCGACTAT	CC2
SMC03.T.GGGCATCGTCCGGATCC	CC2
SMC03.T.GGGCATCGTGGTACAG	CC2
SMC03.T.GGGCATCTCATATCGG	CC2
SMC03.T.GGGTCTGCAGCTGTGC	CC2
SMC03.T.GGGTTGCAGAAGGACA	CC2
SMC03.T.GGGTTGCAGCAGCGTA	CC2
SMC03.T.GGGTTGCAGTGATCGG	CC2
SMC03.T.GGGTTGCCAGCCTTTC	CC2
SMC03.T.GGTATTGAGATGAGAG	CC2
SMC03.T.GGTGAAGAGACATAAC	CC2
SMC03.T.GGTGAAGAGGACTGGT	CC1
SMC03.T.GGTGAAGAGTCGAGTG	CC1
SMC03.T.GGTGAAGGTTACGCGC	CC2
SMC03.T.GGTGCGTAGATTACCC	CC2
SMC03.T.GGTGCGTTCCATGAAC	CC2
SMC03.T.GGTGTTATCCCATTG	CC1
SMC03.T.GGTGTTATCTCCGGTT	CC2
SMC03.T.GTAAACGTCATTCAGG	CC2
SMC03.T.GTAAACGTTTCGTGGTCCG	CC2
SMC03.T.GTAACTGAGAATCTCC	CC2
SMC03.T.GTACGTACAGACGCTC	CC2
SMC03.T.GTACGTAGTATAATGG	CC2
SMC03.T.GTACGTATCCGTTGTC	CC2
SMC03.T.GTACTCCGTGAGGCTA	CC2
SMC03.T.GTACTCCTCAGTACGT	CC2
SMC03.T.GTACTTTTCAAGAAGT	CC2
SMC03.T.GTAGGCCAGGGTGTTC	CC2
SMC03.T.GTAGGCCTCCCTTGCA	CC1
SMC03.T.GTAGTCACACCTTGTC	CC2
SMC03.T.GTAGTCACACTGAAGG	CC2
SMC03.T.GTATCTTTCCTTGCCA	CC2
SMC03.T.GTATTCTCACTTGGAT	CC1
SMC03.T.GTATTCTGTAAATGAC	CC2
SMC03.T.GTATTCTTCTAACCGA	CC2
SMC03.T.GTCAAGTAGTGCAAGC	CC1
SMC03.T.GTCAAGTCAAGGGTCA	CC2
SMC03.T.GTCAAGTTCTATCCTA	CC2
SMC03.T.GTCAACAAGGTTTCA	CC2
SMC03.T.GTCAACAAGTTGTCTTT	CC2
SMC03.T.GTCACGGCATTTCACT	CC2
SMC03.T.GTCATTTGTCTGATCA	CC1
SMC03.T.GTCCTCAAGGAATCGC	CC2
SMC03.T.GTCCTCAAGTTCGCGC	CC2
SMC03.T.GTCCTCACAGCAGTTT	CC2
SMC03.T.GTCGGGTGTGGTGTAG	CC2
SMC03.T.GTCGTAAAGAGGTTAT	CC2
SMC03.T.GTCGTAAAGTTATCGC	CC2
SMC03.T.GTCGTAAACATACTACG	CC2

SMC03.T.GTCGTAAGTTCGTGAT	CC1
SMC03.T.GTCGTAATCCATGAGT	CC2
SMC03.T.GTCTCGTAGACCTTTG	CC2
SMC03.T.GTCTCGTGTTAAGATG	CC2
SMC03.T.GTCTCGTTCAAGGCTT	CC2
SMC03.T.GTCTCGTTCCGGGTGT	CC2
SMC03.T.GTCTTCGCACGGTAGA	CC2
SMC03.T.GTGAAGGTCACAACGT	CC2
SMC03.T.GTGCAGCAGGGATCTG	CC2
SMC03.T.GTGCAGCCAGACGTAG	CC2
SMC03.T.GTGCAGCCATTAGGCT	CC2
SMC03.T.GTGCATACAGTTCCT	CC2
SMC03.T.GTGCGGTAGCACACAG	CC2
SMC03.T.GTGCGGTCAGTAGAGC	CC1
SMC03.T.GTGCTTCCAGAGCCAA	CC2
SMC03.T.GTGCTTCCAGCTGTAT	CC2
SMC03.T.GTTAAGCGTAGGCATG	CC2
SMC03.T.GTTACAGGTCGGGTCT	CC2
SMC03.T.GTTACAGGTGTCCTCT	CC2
SMC03.T.GTTACAGTCCGGGTGT	CC2
SMC03.T.GTTCATTAGAAACGAG	CC2
SMC03.T.GTTCGGGAGATATACG	CC2
SMC03.T.GTTCTCGCAGCTCGAC	CC1
SMC03.T.GTTCTCGGTAGCTGCC	CC2
SMC03.T.GTTTCTAAGAAACGCC	CC2
SMC03.T.GTTTCTAAGCGTTGCC	CC2
SMC03.T.GTTTCTATCCACGAAT	CC2
SMC03.T.GTTTCTATCCGAAGAG	CC2
SMC03.T.TAAACCGCACGAAAGC	CC2
SMC03.T.TAAACCGTCGGTGTTA	CC2
SMC03.T.TAAGAGACACTACAGT	CC2
SMC03.T.TAAGCGTAGCTAGTGG	CC2
SMC03.T.TAAGTGCAGTACACCT	CC2
SMC03.T.TAAGTGCCAATCTACG	CC2
SMC03.T.TAAGTGCTCACTATTC	CC2
SMC03.T.TACACGACACAGATTC	CC2
SMC03.T.TACAGTGAGAAACCTA	CC2
SMC03.T.TACAGTGCACAAGCCC	CC2
SMC03.T.TACCTATAGAGTAATC	CC2
SMC03.T.TACGGATAGTGTCCAT	CC2
SMC03.T.TACGGGCAGTTTCCTT	CC2
SMC03.T.TACGGGCTCCGCATCT	CC2
SMC03.T.TACGGTATCCCTGACT	CC2
SMC03.T.TACTCATAGCAGCGTA	CC2
SMC03.T.TACTCATCAGCTGTAT	CC2
SMC03.T.TACTCATGTCTCACCT	CC1
SMC03.T.TACTTACAGCGCTTAT	CC2
SMC03.T.TACTTACGTAAGGATT	CC2
SMC03.T.TACTTACTCTTTATG	CC2
SMC03.T.TACTTGTTCCCTGACT	CC2
SMC03.T.TAGACCATCATATCGG	CC2
SMC03.T.TAGAGCTCAATGGAAT	CC2
SMC03.T.TAGCCGGAGGAATCGC	CC2
SMC03.T.TAGTTGGAGCGACGTA	CC2
SMC03.T.TAGTTGGCATGCTAGT	CC2
SMC03.T.TAGTTGGTCAAAGTAG	CC1
SMC03.T.TAGTTGGTCACCGTAA	CC2
SMC03.T.TATCAGGGTGTAATGA	CC2

SMC03.T.TATCAGGTCCTAGGGC	CC2
SMC03.T.TATGCCCAGACTTTCG	CC2
SMC03.T.TATGCCCTCGTTTAGG	CC2
SMC03.T.TATTACCCACACGCTG	CC2
SMC03.T.TCAACGATCCAAACTG	CC2
SMC03.T.TCAACGATCCGAACGC	CC2
SMC03.T.TCAACGATCTTAGCCC	CC2
SMC03.T.TCAATCTTCATCGGAT	CC2
SMC03.T.TCAATCTTCATCTGTT	CC2
SMC03.T.TCACAAGCACGAAACG	CC2
SMC03.T.TCACAAGTCCCAACGG	CC1
SMC03.T.TCACAAGTCGTGGGAA	CC2
SMC03.T.TCACGAACATAGACTC	CC1
SMC03.T.TCACGAATCACCAGGC	CC2
SMC03.T.TCAGCTCCAAGTTGTC	CC2
SMC03.T.TCAGCTCGTGCAGACA	CC2
SMC03.T.TCAGGTAAGATGTGTA	CC2
SMC03.T.TCAGGTACACAAGACG	CC2
SMC03.T.TCATTACTCGGCATCG	CC2
SMC03.T.TCATTGTGTCAGAGACG	CC2
SMC03.T.TCATTGTCCGCTGTT	CC2
SMC03.T.TCCACACGTATGAAAC	CC1
SMC03.T.TCCCGATAGTGGTCCC	CC1
SMC03.T.TCGAGGCGTGTGACGA	CC2
SMC03.T.TCGCGAGTCCGTACAA	CC2
SMC03.T.TCGCGTTAGTATCTCG	CC2
SMC03.T.TCGGGACCAATGGACG	CC2
SMC03.T.TCGGGACTCCACGACG	CC2
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SMC03.T.TCTCTAATCAACACTG	CC2
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SMC03.T.TCTGGAAGTTACCGAT	CC2
SMC03.T.TCTGGAAGTTTAGGAA	CC2
SMC03.T.TCTGGAATCGCAAAC	CC2
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SMC03.T.TGACGGCGTTTGACAC	CC2
SMC03.T.TGACGGCTCCCAAGTA	CC2
SMC03.T.TGACTAGAGCGTTCCG	CC2
SMC03.T.TGACTAGGTCTAACGT	CC2
SMC03.T.TGACTAGTCATCGCTC	CC2

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SMC03.T.TGACTTTAGTCTCCTC	CC2
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SMC03.T.TGAGAGGGTGGCCCTA	CC2
SMC03.T.TGAGAGGTCAAACAAG	CC1
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SMC03.T.TGCCCATCAGTCGTGC	CC2
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SMC03.T.TGGCTGGAGACCCACC	CC2
SMC03.T.TGGCTGGAGCTAACTC	CC2
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SMC03.T.TGGTTCCGTGATAAGT	CC1
SMC03.T.TGTATTACAGGTGCTTT	CC2
SMC03.T.TGTATTCCACAGGTTT	CC2
SMC03.T.TGTATTTCGTGTTTGTG	CC2
SMC03.T.TGTCCCACAGGTTTCA	CC2
SMC03.T.TGTCCCACATAAAGGT	CC2
SMC03.T.TGTCCCAGTCACAAGG	CC2
SMC03.T.TGTCCCAGTTCATGGT	CC2
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SMC03.T.TGTGTTTCATCCCATC	CC1
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SMC03.T.TTCGGTCCAGGAACGT	CC2
SMC03.T.TTCGGTCCATGGGACA	CC2
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SMC04.T.AACTCAGCAGTAGAGC	CC1
SMC04.T.AACTCTTGTTTGTGTG	CC1
SMC04.T.AACTGGTTCGTGGGAA	CC1
SMC04.T.AAGGTTCTCAAGAAGT	CC1
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SMC04.T.AATCCAGGTCCATGA	CC1
SMC04.T.AATCCAGTCCCAACGG	CC2
SMC04.T.AACTGAAGAATTCCC	CC1
SMC04.T.AACTGATCGTCCAGG	CC1

SMC04.T.ACATCAGGTAACCTC	CC1
SMC04.T.ACATGGTAGATCCCGC	CC1
SMC04.T.ACCAGTAAGATGAGAG	CC2
SMC04.T.ACCAGTAAGTTAAGTG	CC1
SMC04.T.ACGAGCCGTTAGAACA	CC1
SMC04.T.ACGAGCCTCCATGAGT	CC1
SMC04.T.ACGATACAGACTGTAA	CC2
SMC04.T.ACGATACCATTGGCGC	CC1
SMC04.T.ACGCCGATCAACACTG	CC1
SMC04.T.ACGGAGAGTTACCAGT	CC1
SMC04.T.ACGGCCAAGCGTTTAC	CC1
SMC04.T.ACGGCCATCGGACAAG	CC1
SMC04.T.ACTGATGTCTCTTGAT	CC1
SMC04.T.ACTGTCCAGGCTATCT	CC1
SMC04.T.ACTGTCCGTTTCGCGAC	CC2
SMC04.T.AGACGTTAGATCACGG	CC1
SMC04.T.AGACGTTAGGAGTTGC	CC1
SMC04.T.AGAGCTTGTAAGCACG	CC1
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SMC04.T.AGCGTATCAAGGACTG	CC2
SMC04.T.AGCTCTCGTACGACCC	CC1
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SMC04.T.ATGGGAGGTCCAGTTA	CC1
SMC04.T.ATGTGTGGTGATGTCT	CC1
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SMC04.T.ATTATCCTCGTGACAT	CC1
SMC04.T.ATTCTACGTAGCGTGA	CC1
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SMC04.T.CAAGATCCAAGGTTTC	CC1
SMC04.T.CAAGATCTCTGTCTAT	CC1
SMC04.T.CACAAACAGCCGTCGT	CC1
SMC04.T.CACAGGCCAGGACCCT	CC1
SMC04.T.CACAGGCTCACGACTA	CC1
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SMC04.T.CAGGTGCGTTATGTGC	CC1

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SMC04.T.CATATTTCGTACAAGG	CC2
SMC04.T.CATCGAAAGTTAGCGG	CC1
SMC04.T.CATCGAACAGACGTAG	CC1
SMC04.T.CATCGAAGTAGCCTCG	CC1
SMC04.T.CATCGGGTCCGAATGT	CC1
SMC04.T.CATGCCTCAAGGACAC	CC1
SMC04.T.CATGCCTCACACCGCA	CC1
SMC04.T.CATTATCGTTATCCGA	CC1
SMC04.T.CCACGGACAATGTTGC	CC1
SMC04.T.CCACGGACACCAGGTC	CC1
SMC04.T.CCAGCGACATCGTCGG	CC1
SMC04.T.CCATGTCAGCAGGCTA	CC1
SMC04.T.CCATTGCAAAGTCAA	CC1
SMC04.T.CCCAATCCAGACGCTC	CC1
SMC04.T.CCCAATCGTAAGGGAA	CC1
SMC04.T.CCCATACAGCACCGCT	CC1
SMC04.T.CCCATACAGTGTTAGA	CC1
SMC04.T.CCCTCCTGTGCACTTA	CC1
SMC04.T.CCGTACTAGTGTACGG	CC1
SMC04.T.CCGTTCAAGCCACCTG	CC2
SMC04.T.CCTACCAAGGCAGTCA	CC1
SMC04.T.CCTAGCTCATTTCAGG	CC1
SMC04.T.CCTAGCTTCACCCTCA	CC1
SMC04.T.CCTTCGACAAACGTGG	CC2
SMC04.T.CCTTCGAGTAAATGAC	CC2
SMC04.T.CCTTTCTAGGTGATTA	CC1
SMC04.T.CCTTTCTGTACCATCA	CC1
SMC04.T.CGACCTTGTTATTCTC	CC1
SMC04.T.CGACCTTTCGGAGCAA	CC1
SMC04.T.CGAGAAGGTGTGACGA	CC1
SMC04.T.CGAGAAGTCGTTTGCC	CC1
SMC04.T.CGAGCACACGAAACG	CC1
SMC04.T.CGATCGGCAGATCTGT	CC1
SMC04.T.CGATCGGGTTAAAGAC	CC2
SMC04.T.CGCCAAGAGACTGTAA	CC1
SMC04.T.CGCGGTATCAGGTTCA	CC1
SMC04.T.CGCTGGACAAGCCTAT	CC1
SMC04.T.CGGACACAGAGCTTCT	CC1
SMC04.T.CGGACACTCCGCATCT	CC1
SMC04.T.CGGACACTCGGATGTT	CC1
SMC04.T.CGGACGTTTCAGGCAAG	CC1
SMC04.T.CGGCTAGAGATCCTGT	CC1
SMC04.T.CGGGTCACACAGGAGT	CC1
SMC04.T.CGGGTCAGTTGTGGCC	CC1
SMC04.T.CGGGTCATCACCTCGT	CC1
SMC04.T.CGTAGCGCATGCCCGA	CC1
SMC04.T.CGTAGCGGTCCTGTC	CC1
SMC04.T.CGTGTAAGGAATGGA	CC1
SMC04.T.CGTGTAATCCGCGCAA	CC1
SMC04.T.CGTTGGGAGAAGAAGC	CC1
SMC04.T.CGTTGGGAGACTGTAA	CC1
SMC04.T.CTAACTTAGCCAGTAG	CC1
SMC04.T.CTAACTTGTCACACGC	CC1
SMC04.T.CTAATGGCAGGTGCCT	CC1
SMC04.T.CTACGTCCAGTCTTCC	CC1
SMC04.T.CTACGTGTTTTGTGTG	CC1

SMC04.T.CTAGTGAAGAATCTCC	CC1
SMC04.T.CTAGTGATCGCACTCT	CC1
SMC04.T.CTCATTACACTAAGTC	CC1
SMC04.T.CTCGGGACATTCCTCG	CC1
SMC04.T.CTCGTATCAGAGACG	CC1
SMC04.T.CTCTACGGTCTAGAGG	CC1
SMC04.T.CTGAAACCAGCCTTGG	CC1
SMC04.T.CTGATAGGTTTGTTC	CC1
SMC04.T.CTGCCTACACGCGAAA	CC1
SMC04.T.CTGCCTATCACAATGC	CC1
SMC04.T.CTGCGGACAATCTACG	CC1
SMC04.T.CTGCTGTTACAGGCC	CC1
SMC04.T.CTGCTGTTCACTTACT	CC2
SMC04.T.CTGGTCTCAAAGAATC	CC1
SMC04.T.CTGTGCTCATATGAGA	CC1
SMC04.T.CTGTGCTGTGATAAAC	CC1
SMC04.T.CTGTTTATCGAGAACG	CC1
SMC04.T.CTTAACTTCTCCAGGG	CC1
SMC04.T.CTTACCGCACTTAACG	CC1
SMC04.T.CTTAGGAAGTAGGTGC	CC1
SMC04.T.CTTAGGACAAGGTTCT	CC1
SMC04.T.CTTTGCGAGCAACGGT	CC1
SMC04.T.CTTTGCGGTCATCGGC	CC1
SMC04.T.GAAACTCCACCTCGTT	CC1
SMC04.T.GAACGGAGTTTGGGCC	CC1
SMC04.T.GAATAAGAGGTGATAT	CC1
SMC04.T.GACAGAGCATGAAGTA	CC1
SMC04.T.GACAGAGGTGCACCAC	CC1
SMC04.T.GACCAATTCAGTTGAC	CC1
SMC04.T.GACCTGGTCAATCACG	CC1
SMC04.T.GACGTGCGTTCCTCCA	CC1
SMC04.T.GACGTGCGTTCGCTAA	CC1
SMC04.T.GACTGCGAGAAGAAGC	CC1
SMC04.T.GAGGTGACACCAGGTC	CC1
SMC04.T.GAGTCCGTCTCGCATC	CC1
SMC04.T.GATCGCGTCCAACCAA	CC1
SMC04.T.GATGAAAAGATCGGGT	CC1
SMC04.T.GATGAAACAAGTTCTG	CC1
SMC04.T.GATGCTAGTGGTCCGT	CC1
SMC04.T.GATGCTATCGCCCTTA	CC1
SMC04.T.GCAAACCTCACGGCGTT	CC1
SMC04.T.GCAATCAGTAAGGGCT	CC1
SMC04.T.GCACTCTGTACAAGTA	CC1
SMC04.T.GCAGCCACACCGTTGG	CC1
SMC04.T.GCAGCCAGTGCGAAT	CC1
SMC04.T.GCGAGAAAGCGATGAC	CC1
SMC04.T.GCGAGAAGTAGCGTCC	CC1
SMC04.T.GCGCAACAGAGTGACC	CC1
SMC04.T.GCGCAACTCAGGCAAG	CC1
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SMC04.T.GCGCAGTCACCGTTGG	CC1
SMC04.T.GCGCAGTTCATCTGTT	CC1
SMC04.T.GCGCGATTCCCTTGCCA	CC1
SMC04.T.GCGGGTTGTAGGCATG	CC2
SMC04.T.GCGGGTTTCACATGCA	CC1
SMC04.T.GCTGCAGAGAAACCTA	CC1
SMC04.T.GCTGGGTGTGCCTGTG	CC1
SMC04.T.GCTTCCACATCCTAGA	CC1

SMC04.T.GCTTGAATCAGTGCAT	CC1
SMC04.T.GGAAAGCAGATCCCGC	CC1
SMC04.T.GGAAAGCTCGGTCTAA	CC1
SMC04.T.GGAACTTTCTGGAGCC	CC1
SMC04.T.GGAATAAGTCGCGTGT	CC1
SMC04.T.GGACGTCCACAAGCCC	CC1
SMC04.T.GGACGTCTGTTATTCTC	CC2
SMC04.T.GGACGTCTCCAAATGC	CC1
SMC04.T.GGACGTCTCGTCTGAA	CC1
SMC04.T.GGAGCAAGTTTGTGTG	CC1
SMC04.T.GGATGTTAGAGGGCTT	CC1
SMC04.T.GGCGACTTCATCACCC	CC1
SMC04.T.GGCGTGTTCTAAGCCA	CC1
SMC04.T.GGCTCGACAACGATCT	CC1
SMC04.T.GGCTCGACACAGGCCT	CC1
SMC04.T.GGGTCTGTCGCTTGTC	CC1
SMC04.T.GGTATTGGTACCGGCT	CC1
SMC04.T.GTAACGTCAGCCTTGG	CC2
SMC04.T.GTACTTTAGCAACGGT	CC1
SMC04.T.GTACTTTTCCAGATCA	CC1
SMC04.T.GTACTTTTCTTCCTTC	CC1
SMC04.T.GTAGGCCAGATCCCGC	CC1
SMC04.T.GTAGTCATCACTTATC	CC1
SMC04.T.GTATTCTCATTAGGCT	CC1
SMC04.T.GTCAAGTCAAGCTGAG	CC1
SMC04.T.GTCGGGTAGTACGCGA	CC1
SMC04.T.GTCGGGTGTACTTAGC	CC1
SMC04.T.GTCGTAATCCCATTAT	CC1
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SMC04.T.GTGTGCGGTCAGTGGA	CC1
SMC04.T.GTTACAGAGCACCGCT	CC1
SMC04.T.GTTACAGGTAGCTCCG	CC1
SMC04.T.GTTCATTAGAGAGCTC	CC1
SMC04.T.GTTCGGGCAGACGCAA	CC1
SMC04.T.TAAGAGAGTCAGTGGA	CC1
SMC04.T.TACACGACAACGCGC	CC1
SMC04.T.TACACGATCAGTTTGG	CC1
SMC04.T.TACCTTAAGATCTGCT	CC1
SMC04.T.TACCTTATCCGCGCAA	CC1
SMC04.T.TACCTTATCGCGCAA	CC1
SMC04.T.TACGGTACACACAGAG	CC1
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SMC04.T.TAGCCGGCATTAAACCG	CC1
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SMC04.T.TCACAAGTCTAACTCT	CC1
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SMC04.T.TCAGATGTCCGTAGTA	CC1
SMC04.T.TCAGCTCCACCACCAG	CC1

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SMC04.T.TCGCGAGAGCGCCTTG	CC1
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SMC04.T.TCGCGTTGTACCATCA	CC1
SMC04.T.TCGCGTTTCCGTCAA	CC1
SMC04.T.TCGTACCAGGACGAAA	CC1
SMC04.T.TCGTACCCATCACGTA	CC1
SMC04.T.TCGTAGATCCACGAAT	CC2
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SMC04.T.TGAGCATAGACCACGA	CC1
SMC04.T.TGATTTCTCCTCGCAT	CC1
SMC04.T.TGCACCTCAATGGACG	CC2
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SMC04.T.TGCACCTTCTTTCCTC	CC1
SMC04.T.TGCCAAAAGGCGATAC	CC2
SMC04.T.TGCCAAATCCGAACGC	CC1
SMC04.T.TGCCCATTCGTCGTTT	CC1
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SMC04.T.TGTCCCAGTCAATGTC	CC2
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SMC04.T.TTTCCTCGTGCTCTTC	CC1
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SMC05.T.CCGTACTAGTATGACA	CC2

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SMC05.T.CGTCAGGTCGCGCAA	CC2
SMC05.T.CTTAACTAGAGGTACC	CC2
SMC05.T.GAGGTGAAGAGGTTAT	CC2
SMC05.T.GTCATTTGTTTACTCT	CC2
SMC05.T.GTCTCGTGTTACGGAG	CC2
SMC05.T.GTGTGCGGTAACGACG	CC2
SMC05.T.TCGCGTTTCCGCAGTG	CC1
SMC05.T.TCGTAGAGTGTGAAAT	CC2
SMC05.T.TCTATTGTGACAGCC	CC2
SMC06.T.AAAGTAGGTTCCCTTG	CC1
SMC06.T.AACACGTAGCTAACTC	CC1
SMC06.T.AACTCTTGTGAGCGAT	CC1
SMC06.T.AATCGGTTCAATACCG	CC2
SMC06.T.ACACCAAAGGAACTGC	CC1
SMC06.T.ACAGCCGGTATTCTCT	CC2
SMC06.T.ACAGCTATCAAGAAGT	CC1
SMC06.T.ACATACGAGACCTAGG	CC2
SMC06.T.ACATCAGAGTGTGAAT	CC1
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SMC06.T.ACGATACAGTAGGCCA	CC2
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SMC06.T.ACTGATGGTAAACGCG	CC1
SMC06.T.ACTTTCAGTCTCTTAT	CC2
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SMC06.T.ATAACGCTCTTAACCT	CC2
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SMC06.T.ATCCACCAGATGGCGT	CC2
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SMC06.T.ATCCGAAGTTACGTCA	CC1
SMC06.T.ATCGAGTGTAAGGGCT	CC1
SMC06.T.ATCGAGTTCAGTGTTG	CC1
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SMC06.T.ATGGGAGAGGTACTCT	CC2
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SMC06.T.ATTTCTGTCTATCTGCC	CC2
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SMC06.T.CACACTCCAGATGGCA	CC2

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SMC06.T.CACTCCACAGTCTTCC	CC2
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SMC06.T.CCTTTCTTCTCTGTGC	CC2
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SMC06.T.CGAGCACTCCTTTCGG	CC2
SMC06.T.CGCCAAGCAGCGATCC	CC2
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SMC06.T.GACAGAGGTGTGGTTT	CC2

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SMC06.T.GCCAAATAGAACTGTA	CC2
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SMC06.T.GCTGCGAAGACAAAGG	CC2
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SMC06.T.GCTTCCACATAGACTC	CC2
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SMC06.T.GGCCGATAGTGGTAGC	CC2
SMC06.T.GGCGACTAGAGCCCAA	CC2
SMC06.T.GGCGACTCAGCCTTTC	CC2
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SMC06.T.GTACTCCAGAAACCTA	CC1
SMC06.T.GTACTCCAGTTACCCA	CC2
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SMC06.T.TCATTACTCTTGAGAC	CC2
SMC06.T.TCATTTGCAGGGCATA	CC2
SMC06.T.TCCCGATAGCCAGTAG	CC2
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SMC06.T.TCTGGAAGTCCGTGAC	CC2
SMC06.T.TCTGGAAGTGACTCAT	CC1

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SMC06.T.TGACTTTTCCGAATGT	CC1
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SMC06.T.TGAGGGATCTAACTCT	CC1
SMC06.T.TGAGGGATCTTCGAGA	CC2
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SMC06.T.TGGCGCACATCTACGA	CC2
SMC06.T.TGTCCCATCGCAGGCT	CC2
SMC06.T.TGTGGTAGTCATATGC	CC1
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SMC06.T.TTGCCGTGTTAGATGA	CC1
SMC06.T.TTGCCTCAGGGCACTA	CC2
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SMC06.T.TTGGAACCATAGGATA	CC2
SMC06.T.TTGGAACCATTCACTT	CC1
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SMC07.T.AACTCAGTCACCCTCA	CC1
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SMC07.T.AAGACCTCATCTCCCA	CC1
SMC07.T.AAGCCGCCAGCTGCTG	CC1
SMC07.T.AAGCCGCGTGTGGT	CC1
SMC07.T.AAGGAGCGTTGGGACA	CC1
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SMC07.T.AAGGTTCCAATCACAC	CC1
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SMC07.T.ACATCAGGTTCGAGATG	CC1
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SMC07.T.ACCTTTAAGCGCCTCA	CC1
SMC07.T.ACGAGCCCACGCTTTC	CC1
SMC07.T.ACGATGTCAAAGGTGC	CC1
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SMC07.T.ACGCCAGAGTGGTCCC	CC1
SMC07.T.ACGCCAGTCGCTAGCG	CC1
SMC07.T.ACGCCGAAGCTAGGCA	CC1

SMC07.T.ACGGGCTCACCTATC	CC1
SMC07.T.ACGTCAAGTGCAGGTA	CC2
SMC07.T.ACTATCTCAAGAAGAG	CC1
SMC07.T.ACTGAACAGGCTAGCA	CC1
SMC07.T.ACTGAACCACAGGAGT	CC1
SMC07.T.ACTGAACGTGCATCG	CC1
SMC07.T.ACTGATGAGTCCGTAT	CC1
SMC07.T.ACTGTCCAGCCCAGCT	CC1
SMC07.T.ACTGTCCCAGCGAACA	CC2
SMC07.T.ACTGTCCGTGATGATA	CC2
SMC07.T.ACTGTCCGTGTGGTTT	CC1
SMC07.T.ACTTACTTCTCTAGGA	CC1
SMC07.T.AGAATAGAGGGTCGAT	CC1
SMC07.T.AGAGTGGTCTTATCTG	CC1
SMC07.T.AGATCTGAGTTGTCGT	CC1
SMC07.T.AGATCTGCAGTCCTTC	CC1
SMC07.T.AGATTGCAGCACACAG	CC1
SMC07.T.AGCAGCCTCAAGCCTA	CC1
SMC07.T.AGCCTAAGTCGGATCC	CC1
SMC07.T.AGCCTAATCCTGCAGG	CC1
SMC07.T.AGCGGTCCAAGGTTTC	CC1
SMC07.T.AGCGTATAGTTGTAGA	CC1
SMC07.T.AGCGTATCATTCACTT	CC1
SMC07.T.AGCGTCGTCTACTTAC	CC1
SMC07.T.AGCTCCTAGTACGACG	CC1
SMC07.T.AGCTCCTAGTGTACGG	CC1
SMC07.T.AGCTCTCCAGTAGAGC	CC1
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SMC07.T.AGGCCGTAGAGTGACC	CC1
SMC07.T.AGGCCGTCACACCGCA	CC1
SMC07.T.AGGCCGTTCCGGTGTTA	CC1
SMC07.T.AGGTCATTACATAGC	CC1
SMC07.T.AGGTCATTGCGATCG	CC1
SMC07.T.AGTAGTCCAGGGCATA	CC1
SMC07.T.AGTCTTTAGCGATTCT	CC1
SMC07.T.AGTCTTTGTAGCACGA	CC1
SMC07.T.AGTGAGGTCAACTCTT	CC1
SMC07.T.AGTGGGAAGCTACCGC	CC1
SMC07.T.AGTTGGTCATGAAGTA	CC1
SMC07.T.ATAGACCTCTGATACG	CC1
SMC07.T.ATCATGGAGTGTACGG	CC1
SMC07.T.ATCATGGGTCTGGTCTG	CC1
SMC07.T.ATCCGAATCAGCAACT	CC1
SMC07.T.ATCTACTCATGCCACG	CC1
SMC07.T.ATCTACTGTTAAGATG	CC1
SMC07.T.ATGAGGGGTATAAACG	CC1
SMC07.T.ATGCGATTCCACGAAT	CC1
SMC07.T.ATGGGAGGTGACTACT	CC1
SMC07.T.ATGGGAGTCCTGCAGG	CC1
SMC07.T.ATGGGAGTCTGCCCTA	CC1
SMC07.T.ATGTGTGAGATCCCGC	CC1
SMC07.T.ATGTGTGAGATCCGAG	CC1
SMC07.T.ATGTGTGTGGCCGAT	CC1
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SMC07.T.ATTGGACTCTGCAGTA	CC1
SMC07.T.ATTTCTGGTAGCAAAT	CC1

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SMC07.T.CAAGGCCTCGAACGGA	CC1
SMC07.T.CAAGTTGGTTTGTGTG	CC1
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SMC07.T.CACAAACTCTAACTGG	CC1
SMC07.T.CACACAACATTAGGCT	CC1
SMC07.T.CACACCTAGCTAAACA	CC1
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SMC07.T.CACACCTGTCAGAGGT	CC1
SMC07.T.CACACTCGTTTCGCTC	CC1
SMC07.T.CACACTCTCTTTACGT	CC2
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SMC07.T.CACAGTAAGCGTGAAC	CC1
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SMC07.T.CACATTTTCCTAGGGC	CC1
SMC07.T.CACCACTAGCTGTTCA	CC1
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SMC07.T.CACCAGGTCCAGGGCT	CC1
SMC07.T.CACTCCATCTCACATT	CC1
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SMC07.T.CAGCTAATCACCATAG	CC2
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SMC07.T.CCAATCCAGGTCCGAT	CC1

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SMC07.T.CGGCTAGTCTACTTAC	CC2
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SMC07.T.TCTCTAATCCGCGCAA	CC1
SMC07.T.TCTTCGGGTAAACGCG	CC2
SMC07.T.TCTTCGGTCCGCCGAT	CC1
SMC07.T.TCTTCGGTCTTCCTTC	CC1
SMC07.T.TCTTTCCAGCATCATC	CC2
SMC07.T.TCTTTCCAGTGTGAAT	CC1
SMC07.T.TCTTTCTCTGGTTCC	CC1
SMC07.T.TGAAAGATCCAAATGC	CC1
SMC07.T.TGACGGCAGAAGGGTA	CC1
SMC07.T.TGACGGCAGATATGGT	CC1
SMC07.T.TGACGGCCAAGCCCAC	CC1
SMC07.T.TGACTAGCATTACGAC	CC1
SMC07.T.TGACTTTAGGGTATCG	CC2
SMC07.T.TGACTTTGTCTTCTCG	CC1
SMC07.T.TGAGCCGGTCAACAAGG	CC1
SMC07.T.TGCCCATCATGGGACA	CC1
SMC07.T.TGCCCTAAGCTAGCCC	CC1
SMC07.T.TGCCCTAGTAAATACG	CC2
SMC07.T.TGCCCTAGTCGTTGTA	CC1
SMC07.T.TGCCCTAGTCTCTTTA	CC1
SMC07.T.TGCCCTAGTCTTGATG	CC1
SMC07.T.TGCGCAGCAGGCAGTA	CC1
SMC07.T.TGCGGGTGTGCGATAT	CC1
SMC07.T.TGCGTGGCACTCTGTC	CC2
SMC07.T.TGCGTGGTCTCATTCA	CC1

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SMC07.T.TGCTGCTCACGGATAG	CC1
SMC07.T.TGGACGCAGACAAGCC	CC1
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SMC07.T.TGGACGCGTGAGTATA	CC1
SMC07.T.TGGCCAGCACAAAGACG	CC1
SMC07.T.TGGCCAGTCGGGAGTA	CC1
SMC07.T.TGGCGCACACGACTCG	CC1
SMC07.T.TGGCTGGGTAGCCTCG	CC1
SMC07.T.TGGCTGGTCTGATTCT	CC1
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SMC07.T.TGGGCGTAGTATCTCG	CC1
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SMC07.T.TGGTTCCCAGCGTTCG	CC1
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SMC07.T.TGTTCCGTCTGCGGCA	CC1
SMC07.T.TTAGGACCATATGAGA	CC1
SMC07.T.TTAGGCAAGGCTCAGA	CC1
SMC07.T.TTAGGCACAGACGTAG	CC1
SMC07.T.TTAGGCAGTTAAGATG	CC1
SMC07.T.TTAGTTCAGGCAGGTT	CC1
SMC07.T.TTAGTTCGTGTGACCC	CC1
SMC07.T.TTCCAGCACTTCGAA	CC1
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SMC07.T.TTTGCGCTCGGTGTTA	CC1
SMC07.T.TTTGGTTGTGACTCAT	CC2
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SMC08.T.ACTGAGTGTATCGGT	CC1
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SMC08.T.AGTTGGTGTTCCACAA	CC1
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SMC08.T.ATCCGAATCTGCTGCT	CC1
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SMC09.T.AACCATGTCTGGTTCC	CC2

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SMC09.T.AACTCCCGTTTAAGCC	CC1
SMC09.T.AACTCTTAGCGATGAC	CC1
SMC09.T.AACTCTTGTAAGTAGT	CC1
SMC09.T.AACTCTTGTTAAAGAC	CC1
SMC09.T.AACTCTTTCAGCTGGC	CC2
SMC09.T.AACTGGTAGGAACTGC	CC1
SMC09.T.AACTGGTCAGCGTAAG	CC1
SMC09.T.AACTGGTCATCACGAT	CC1
SMC09.T.AACTGGTGTCCGACGT	CC1
SMC09.T.AACTTCTCGAATGGG	CC1
SMC09.T.AACTTCTCTCCGGTT	CC2
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SMC09.T.AAGCCGCCAGCATGAG	CC1
SMC09.T.AAGGAGCAGAGCTATA	CC1
SMC09.T.AAGGAGCAGGGTTTCT	CC1
SMC09.T.AAGGAGCGTTGTCTTT	CC1
SMC09.T.AAGGAGCTCCTTGGTC	CC1
SMC09.T.AAGGCAGAGCGATCCC	CC1
SMC09.T.AAGGCAGAGCGTTGCC	CC1
SMC09.T.AAGGCAGCAATAACGA	CC1
SMC09.T.AAGGCAGCAATACGCT	CC1
SMC09.T.AAGGCAGCACAACTGT	CC1
SMC09.T.AAGGCAGGTAATTGGA	CC1
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SMC09.T.AAGGTTCCGTTTGGCGC	CC2
SMC09.T.AAGGTTCTCAAGATCC	CC1
SMC09.T.AAGGTTCTCGGAGGTA	CC1
SMC09.T.AAGTCTGCAGAAGCAC	CC1
SMC09.T.AAGTCTGGTCCCGACA	CC1
SMC09.T.AAGTCTGGTTTAAGCC	CC1
SMC09.T.AAGTCTGTCCTAGTGA	CC1
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SMC09.T.AATCCAGGTGATGTGG	CC1
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SMC09.T.ACACCAAAGCTAGTCT	CC1
SMC09.T.ACACCAACAATCGAAA	CC1
SMC09.T.ACACCAAGTTAGTGGG	CC1
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SMC09.T.ACACCAATCCACTGGG	CC1
SMC09.T.ACACCCTCAGATCTGT	CC1
SMC09.T.ACACCCTGTCAGGACA	CC1
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SMC09.T.ACACCGGAGCACCGCT	CC1
SMC09.T.ACACCGGAGTCTCGGC	CC1
SMC09.T.ACACCGGGTTAAAGAC	CC1

SMC09.T.ACACCGGTCGCGTTTC	CC1
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SMC09.T.ACACTGATCGCCCTTA	CC1
SMC09.T.ACACTGATCTCTTGAT	CC1
SMC09.T.ACAGCCGAGAAGATTC	CC1
SMC09.T.ACAGCCGGTCAGCTAT	CC1
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SMC09.T.ACCCACTAGGACAGCT	CC1
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SMC09.T.ACGCCAGTCTCGGACG	CC2

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SMC09.T.AGACGTTGTTTCGTCTC	CC2

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SMC09.T.CAGAATCTCATGTCCC	CC1
SMC09.T.CAGAATCTCGGATGGA	CC1
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SMC09.T.CAGAGAGGTAGGAGTC	CC1
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SMC09.T.CAGCGACTCCTAGAAC	CC1
SMC09.T.CAGCGACTCTGCCAGG	CC1
SMC09.T.CAGCTAAAGACAGGCT	CC1
SMC09.T.CAGCTAACACTGTGTA	CC2
SMC09.T.CAGCTAAGTAGGCATG	CC1
SMC09.T.CAGCTAATCAGCTCTC	CC1
SMC09.T.CAGCTAATCGAACGGA	CC1
SMC09.T.CAGCTGGGTGTTTGGT	CC1
SMC09.T.CAGCTGGTCTTGCAAT	CC1
SMC09.T.CAGGTGCAGCTAACAA	CC1
SMC09.T.CAGGTGCAGGTGCACA	CC1

SMC09.T.CAGGTGCAGTACGATA	CC1
SMC09.T.CAGGTGCCACGGTAGA	CC1
SMC09.T.CAGGTGCGTAAACACA	CC1
SMC09.T.CAGTAACCAGTATGCT	CC1
SMC09.T.CAGTAACGTCCGATCC	CC1
SMC09.T.CAGTAACGTGCAACGA	CC1
SMC09.T.CAGTAACTCCGTTGTC	CC1
SMC09.T.CAGTCCTAGGCTATCT	CC2
SMC09.T.CAGTCCTCACTGCCAG	CC1
SMC09.T.CAGTCCTGTAGAAAGG	CC1
SMC09.T.CAGTCCTGTTGTTTGG	CC1
SMC09.T.CAGTCCTTCAAGAAGT	CC1
SMC09.T.CAGTCCTTCGGATGGA	CC1
SMC09.T.CATATGGAGTAGTGCG	CC1
SMC09.T.CATATGGAGTGGGATC	CC1
SMC09.T.CATATGGTCGAACTGT	CC1
SMC09.T.CATATGGTCGCGGATC	CC2
SMC09.T.CATATGGTCGTCCGTT	CC1
SMC09.T.CATATTCAGCTGTTCA	CC1
SMC09.T.CATATTCGAATGCCAT	CC1
SMC09.T.CATATTCGTGGCTCCA	CC1
SMC09.T.CATATTCAGCTGGC	CC1
SMC09.T.CATCAAGAGAAACCGC	CC1
SMC09.T.CATCAAGCACGAAACG	CC1
SMC09.T.CATCAAGCACGTCAGC	CC1
SMC09.T.CATCAAGTCTCAAACG	CC2
SMC09.T.CATCAGACAAGGACAC	CC2
SMC09.T.CATCAGAGTAGGACAC	CC2
SMC09.T.CATCAGAGTCAAAGCG	CC1
SMC09.T.CATCAGAGTTGCCTCT	CC1
SMC09.T.CATCAGATCAAACCGT	CC1
SMC09.T.CATCCACAGGTAGCTG	CC1
SMC09.T.CATCCACCATGTCCTC	CC1
SMC09.T.CATCGAAAGGATTCGG	CC1
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SMC09.T.CATCGAAGTTAAGAAC	CC1
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SMC09.T.CATCGGGCAGCCACCA	CC2
SMC09.T.CATCGGGCATGAACCT	CC1
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SMC09.T.CATCGGGTCACTTACT	CC1
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SMC09.T.CATGGCGCATACTACG	CC1
SMC09.T.CATGGCGGTCTTGCGG	CC1
SMC09.T.CATTATCAGGACTGGT	CC2
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SMC09.T.CATTATCCAGGACGTA	CC1

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SMC09.T.CATTATCGTTGGAGGT	CC1
SMC09.T.CATTCCGCATCCGTGG	CC2
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SMC09.T.CATTCCGCTTCTGTTT	CC1
SMC09.T.CATTCCGCTCGGATGTT	CC1
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SMC09.T.CCAATCCAGGCCGAAT	CC1
SMC09.T.CCAATCCCACGAGGTA	CC2
SMC09.T.CCAATCCGTATGGTTC	CC2
SMC09.T.CCAATCCGTCTAGGTT	CC1
SMC09.T.CCAATCCGTCTAGTCA	CC1
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SMC09.T.GAACGGATCATGCTCC	CC1
SMC09.T.GAAGCAGAGATGGCGT	CC1
SMC09.T.GAAGCAGAGCAATCTC	CC1
SMC09.T.GAAGCAGGTAACGCGA	CC1
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SMC09.T.GAAGCAGTCCTCAACC	CC2
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SMC09.T.GAATAAGAGACTGGGT	CC1
SMC09.T.GAATAAGAGCTTTGGT	CC1
SMC09.T.GAATAAGAGGTTCTA	CC1
SMC09.T.GAATAAGTCATACGGT	CC1
SMC09.T.GAATGAACAATCGGTT	CC1
SMC09.T.GAATGAACAGGTTTCA	CC1
SMC09.T.GAATGAAGTTCCACAA	CC1
SMC09.T.GACAGAGAGAGTTGGC	CC1
SMC09.T.GACAGAGAGCTAAACA	CC1
SMC09.T.GACAGAGGTAACCAAC	CC2
SMC09.T.GACAGAGGTCATACTG	CC1
SMC09.T.GACAGAGTCAAGATCC	CC1
SMC09.T.GACCAATAGGTGGGTT	CC1
SMC09.T.GACCAATAGGTTCTA	CC1
SMC09.T.GACCAATGTCTCTCTG	CC1
SMC09.T.GACCAATTCCGCAGTG	CC1
SMC09.T.GACCAATTCTATCCTA	CC2
SMC09.T.GACCAATTCTGAAAGA	CC1
SMC09.T.GACCTGGGTTCCATGA	CC1
SMC09.T.GACCTGGTCTGAGTGT	CC1
SMC09.T.GACGCGTCACCCATGG	CC1
SMC09.T.GACGCGTTCTGGAGCC	CC1
SMC09.T.GACGGCTGTACAGCAG	CC1
SMC09.T.GACGGCTGTCCAGTTA	CC1
SMC09.T.GACGGCTGTGCAACGA	CC1
SMC09.T.GACGGCTGTGTTTGTG	CC2
SMC09.T.GACGGCTTACATACG	CC2
SMC09.T.GACGGCTTCTCCAGGG	CC1
SMC09.T.GACGTGCTCAACTCTT	CC1
SMC09.T.GACGTTACACCACCAG	CC1
SMC09.T.GACGTTAGTGTTCTTT	CC1
SMC09.T.GACTAACCATGCATGT	CC1
SMC09.T.GACTAACGTTACCAGT	CC1
SMC09.T.GACTAACGTTTGACAC	CC1

SMC09.T.GACTAACTCCAATGGT	CC1
SMC09.T.GACTAACTCCCTAATT	CC2
SMC09.T.GACTACAAGCTAGGCA	CC2
SMC09.T.GACTACACACCACCAG	CC2
SMC09.T.GACTACACAGTGGGAT	CC1
SMC09.T.GACTACAGTAAGTGTA	CC1
SMC09.T.GACTACAGTGCACCAC	CC1
SMC09.T.GACTGCGCAAGCGCTC	CC1
SMC09.T.GACTGCGGTCTGCAAT	CC1
SMC09.T.GACTGCGTCTCTGTCTG	CC1
SMC09.T.GAGCAGACAGCGTCCA	CC1
SMC09.T.GAGCAGACATAGAAAC	CC1
SMC09.T.GAGCAGACATGAGCGA	CC1
SMC09.T.GAGCAGAGTGTTGGGA	CC1
SMC09.T.GAGGTGACACACAGAG	CC1
SMC09.T.GAGGTGAGTACGACCC	CC1
SMC09.T.GAGGTGATCACCCGAG	CC1
SMC09.T.GAGGTGATCCTATGTT	CC2
SMC09.T.GAGGTGATCTTCCTTC	CC1
SMC09.T.GAGTCCGAGTCCAGGA	CC1
SMC09.T.GAGTCCGCACTCGACG	CC1
SMC09.T.GAGTCCGGTTACGCGC	CC2
SMC09.T.GAGTCCGGTTGGAGGT	CC1
SMC09.T.GAGTCCGTCGTAGATC	CC1
SMC09.T.GATCAGTAGTGAATTG	CC1
SMC09.T.GATCAGTCATGAACCT	CC1
SMC09.T.GATCAGTGTGTGGCTC	CC2
SMC09.T.GATCAGTGTCTGTTT	CC1
SMC09.T.GATCGATAGAGTCGGT	CC2
SMC09.T.GATCGATCAATGGTCT	CC2
SMC09.T.GATCGATCATGTTCCC	CC1
SMC09.T.GATCGATGTAAGAGAG	CC2
SMC09.T.GATCGATTCGCGGATC	CC2
SMC09.T.GATCGCGAGCAGATCG	CC2
SMC09.T.GATCGCGAGGCTATCT	CC1
SMC09.T.GATCGCGTCCTCTAGC	CC1
SMC09.T.GATCGTAAGACTAGAT	CC1
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SMC09.T.GATCGTAAGGGAGTAA	CC1
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SMC09.T.GATGAAATCCTGTACC	CC1
SMC09.T.GATGAGGCATCGGACC	CC1
SMC09.T.GATGAGGGTCAGGACA	CC1
SMC09.T.GATGAGGTCCTACAGA	CC1
SMC09.T.GATGCTAAGATGGGTC	CC1
SMC09.T.GATGCTAAGTCGATAA	CC2
SMC09.T.GATGCTACAGGACCCT	CC1
SMC09.T.GATGCTACAGTCGATT	CC1
SMC09.T.GATGCTATCAGTTAGC	CC1
SMC09.T.GATGCTATCCCAGGTG	CC1
SMC09.T.GATGCTATCGGCGGTT	CC1
SMC09.T.GATTCAGAGATATGCA	CC2
SMC09.T.GATTCAGAGCGTTTAC	CC1

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SMC09.T.GATTCAGGTCTCAACA	CC1
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SMC09.T.GCAAAGTGTATTAGCC	CC1
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SMC09.T.GTCCTATCCCATTAT	CC1
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SMC09.T.GTGCGAGTATAGGTA	CC1
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SMC09.T.GGAATAAAGCTCTCGG	CC2
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SMC09.T.TAAACCGGTGTGCCTG	CC2
SMC09.T.TAAGAGAAGTCATCCA	CC2
SMC09.T.TAAGAGACATAAAGGT	CC1
SMC09.T.TAAGAGACATACGCTA	CC1
SMC09.T.TAAGAGAGTAATCGTC	CC1
SMC09.T.TAAGAGAGTCATATCG	CC1
SMC09.T.TAAGAGATCAAACCGT	CC1
SMC09.T.TAAGAGATCCTTGCCA	CC1
SMC09.T.TAAGAGATCGTATCAG	CC1
SMC09.T.TAAGCGTAGGCTCTTA	CC1
SMC09.T.TAAGCGTCAAGCGTAG	CC1
SMC09.T.TAAGCGTTCAATAAGG	CC1
SMC09.T.TAAGTGCAGGTGCAAC	CC1
SMC09.T.TAAGTGCCACGGCCAT	CC2
SMC09.T.TAAGTGCCATCACCCCT	CC2
SMC09.T.TACACGAAGGTGCTTT	CC1
SMC09.T.TACACGAGTCCGTAA	CC2
SMC09.T.TACACGATCCGCGTTT	CC1
SMC09.T.TACACGATCTAACTGG	CC1
SMC09.T.TACACGATCTACTCAT	CC1
SMC09.T.TACACGATCTTGAGGT	CC1
SMC09.T.TACAGTGGTAAATGTG	CC1
SMC09.T.TACCTATAGCGATCCC	CC1
SMC09.T.TACCTATAGGTGATTA	CC1
SMC09.T.TACCTATCAATGGATA	CC1
SMC09.T.TACCTATCACTTCGAA	CC1
SMC09.T.TACCTATGTCAGATAA	CC1
SMC09.T.TACCTATGTTAGGGTG	CC1
SMC09.T.TACCTATTCGGCATCG	CC1
SMC09.T.TACCTATTCTTGAGAC	CC1
SMC09.T.TACCTAAGGGTATCG	CC1
SMC09.T.TACCTTACACAAGTAA	CC1
SMC09.T.TACCTTACATCGGTTA	CC1
SMC09.T.TACGGATAGCTGAACG	CC1
SMC09.T.TACGGATAGGCACATG	CC1
SMC09.T.TACGGATAGGTTACCT	CC1
SMC09.T.TACGGGCAGTATTGGA	CC1
SMC09.T.TACGGGCCACGAAACG	CC1
SMC09.T.TACGGGCTCTTGAGAC	CC2
SMC09.T.TACGGTACACAGAGGT	CC1
SMC09.T.TACGGTACATAGAAAC	CC1
SMC09.T.TACGGTAGTAAGGGAA	CC1
SMC09.T.TACTCATCATTCACTT	CC1
SMC09.T.TACTCGCAGCCACCTG	CC1
SMC09.T.TACTCGCCAAATTGCC	CC1
SMC09.T.TACTCGCGTATGGTTC	CC1
SMC09.T.TACTCGCGTCACACGC	CC1
SMC09.T.TACTCGCGTCATGCCG	CC1
SMC09.T.TACTCGCTCCGAGCCA	CC1
SMC09.T.TACTTACGTTTCCACC	CC1
SMC09.T.TACTTGTAGAGCTTCT	CC2
SMC09.T.TACTTGTAGCCAGGAT	CC1
SMC09.T.TACTTGTCAAAGAATC	CC1
SMC09.T.TACTTGTGTATGGTTC	CC2
SMC09.T.TACTTGTTCCTCCA	CC1

SMC09.T.TACTTGTTCTAGGGC	CC1
SMC09.T.TAGACCAAGATCCGAG	CC1
SMC09.T.TAGACCAAGCCATCGC	CC1
SMC09.T.TAGACCAAGGCCCTTG	CC2
SMC09.T.TAGACCAAGTCCGGTC	CC1
SMC09.T.TAGACCACCCATGTA	CC1
SMC09.T.TAGACCACATTAGCCA	CC1
SMC09.T.TAGACCAGTAGAGTGC	CC1
SMC09.T.TAGACCATCTCAAGTG	CC2
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SMC09.T.TAGAGCTCAATAGAGT	CC1
SMC09.T.TAGAGCTCAGGACGTA	CC1
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SMC09.T.TAGCCGGCAGATCCAT	CC1
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SMC09.T.TAGGCATGTATAGGGC	CC1
SMC09.T.TAGGCATTCAAGGTAA	CC1
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SMC09.T.TAGTGGTAGTAGGCCA	CC1
SMC09.T.TAGTGGTTCTGCTGTC	CC1
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SMC09.T.TAGTTGGTCATATCGG	CC1
SMC09.T.TATCAGGCACAGATTC	CC1
SMC09.T.TATCTCAAGAGACGAA	CC1
SMC09.T.TATCTCAAGCCAGTTT	CC2
SMC09.T.TATCTCACAATCAGAA	CC1
SMC09.T.TATCTCATCCTACAGA	CC1
SMC09.T.TATGCCCTCAGGCGAA	CC1
SMC09.T.TATGCCCTCTTCATGT	CC1
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SMC09.T.TATTACCAGGCCATAG	CC1
SMC09.T.TATTACCCAATGGATA	CC1
SMC09.T.TATTACCGTAAAGGAG	CC1
SMC09.T.TATTACCGTAAATGTG	CC1
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SMC09.T.TATTACCGTTGAGTTC	CC1
SMC09.T.TATTACCTCAAGAAGT	CC1
SMC09.T.TCAACGACATCCGCGA	CC1
SMC09.T.TCAACGAGTACGAAAT	CC2
SMC09.T.TCAACGAGTGTGCTG	CC1
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SMC09.T.TCACAAGTCACCTCGT	CC1
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SMC09.T.TCGCGTTTCCGTAGGC	CC1
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SMC09.T.TCGGGACAGTATCTG	CC1
SMC09.T.TCGGGACGTCCAAGTT	CC2

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SMC09.T.TCGGGACTCGCCAAAT	CC1
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SMC09.T.TCGTAGACATTATCTC	CC1
SMC09.T.TCGTAGATCTCGGACG	CC2
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SMC09.T.TTTGCGCTCATTCACT	CC1
SMC09.T.TTTGCGCTCTGTCAAG	CC1
SMC09.T.TTTGGTTAGGAATCGC	CC1
SMC09.T.TTTGGTTAGTTGAGAT	CC1
SMC09.T.TTTGGTTCATCGGACC	CC1
SMC09.T.TTTGGTTGTCTTCTCG	CC1
SMC09.T.TTTGGTTTCATATCGG	CC1
SMC09.T.TTTGGTTTCTTTACGT	CC1
SMC09.T.TTTGTCAAGATCACGG	CC1
SMC09.T.TTTGTCAAGTGGAGTC	CC1
SMC09.T.TTTGTCACATAAGACA	CC1
SMC09.T.TTTGTCACATCGACGC	CC1
SMC09.T.TTTGTCAGTTAGTGGG	CC2
SMC09.T.TTTGTCAGTTCAGTAC	CC1
SMC10.T.AAACCTGGTCACACGC	CC2
SMC10.T.AAACGGGGTACAGTGG	CC2
SMC10.T.AAAGATGCATATGGTC	CC2
SMC10.T.AAAGCAAAGCTTCGCG	CC2
SMC10.T.AAAGCAATCGCCCTTA	CC2
SMC10.T.AAAGTAGGTCTCAACA	CC2
SMC10.T.AAATGCCAGAAACGCC	CC1
SMC10.T.AACACGTCATGGTTGT	CC2
SMC10.T.AACACGTGTGAACCTT	CC2

SMC10.T.AACACGTTCAACTCTT	CC2
SMC10.T.AACACGTTCCAAGCCG	CC1
SMC10.T.AACCATGCAGCTCCGA	CC1
SMC10.T.AACCATGTCGTTACAG	CC1
SMC10.T.AACCGCGAGCTGATAA	CC2
SMC10.T.AACGTTGGTCGTCTTC	CC2
SMC10.T.AACTCTTGTGCGAAAC	CC2
SMC10.T.AACTCTTTCCTGCTTG	CC2
SMC10.T.AACTTTCAGGCCCGTT	CC2
SMC10.T.AACTTTCCTACTGAAGG	CC1
SMC10.T.AAGACCTCAGATGGGT	CC2
SMC10.T.AAGCCGCAGCAGACTG	CC2
SMC10.T.AAGCCGCAGGGAACGG	CC2
SMC10.T.AAGCCGCTCAGTACGT	CC2
SMC10.T.AAGGAGCGTTTGACAC	CC2
SMC10.T.AAGGAGCTCTCAACTT	CC2
SMC10.T.AAGGTTCCACCGATAT	CC2
SMC10.T.AAGGTTCCAGCCTTTC	CC2
SMC10.T.AAGTCTGAGGCATGTG	CC2
SMC10.T.AAGTCTGGTCAAACCTC	CC1
SMC10.T.AAGTCTGTCACGCATA	CC2
SMC10.T.ACACTGAAGCCACCTG	CC2
SMC10.T.ACACTGACACAGGTTT	CC2
SMC10.T.ACATACGAGGTGATAT	CC2
SMC10.T.ACATCAGCAGGTGGAT	CC2
SMC10.T.ACCAGTAAGAGTTGGC	CC1
SMC10.T.ACCAGTAGTTCGGCAC	CC2
SMC10.T.ACCAGTAGTTGCGCAC	CC1
SMC10.T.ACCAGTATCAAACGGG	CC2
SMC10.T.ACCAGTATCCGATATG	CC2
SMC10.T.ACCCACTGTATGAAAC	CC1
SMC10.T.ACCGTAATCCACGTGG	CC2
SMC10.T.ACCTTTATCTGCAAGT	CC2
SMC10.T.ACGAGCCGTGGTTTCA	CC2
SMC10.T.ACGATAACCAGGTGCCT	CC2
SMC10.T.ACGATACTCAGAGCTT	CC2
SMC10.T.ACGCAGCTCAACACAC	CC1
SMC10.T.ACGCCAGAGCGACGTA	CC1
SMC10.T.ACGGAGAAGTTAGGTA	CC2
SMC10.T.ACGGAGAGTACGCTGC	CC2
SMC10.T.ACGGGCTAGAGTGACC	CC2
SMC10.T.ACGGGTCAGGATGTAT	CC2
SMC10.T.ACGGGTCCATTGTGCA	CC2
SMC10.T.ACGGGTCTCCCAGGTG	CC2
SMC10.T.ACGTCAAGTTGGACCC	CC2
SMC10.T.ACTATCTCATGACGGA	CC2
SMC10.T.ACTGAGTAGCGTGAGT	CC2
SMC10.T.ACTGAGTTCATTGCC	CC2
SMC10.T.ACTGATGAGAGTGAGA	CC2
SMC10.T.ACTGATGGTCAACATC	CC2
SMC10.T.ACTGCTCCATCAGTCA	CC2
SMC10.T.ACTGCTCCATGCCACG	CC2
SMC10.T.ACTGCTCTTTCATGT	CC1
SMC10.T.ACTGTCCCACATGTGT	CC2
SMC10.T.ACTTACTAGTAGCCGA	CC1
SMC10.T.ACTTGTTTCGGCTTGG	CC2
SMC10.T.AGAATAGAGGTTACCT	CC2
SMC10.T.AGAATAGTCCTGTAGA	CC1

SMC10.T.AGACGTTGTCTCATCC	CC2
SMC10.T.AGAGCGACACATTCGA	CC2
SMC10.T.AGAGCGACAGTGACAG	CC2
SMC10.T.AGAGCGATCAGATAAG	CC2
SMC10.T.AGAGTGGCACACATGT	CC2
SMC10.T.AGAGTGGGTATGAAAC	CC2
SMC10.T.AGAGTGGGTCTAACGT	CC2
SMC10.T.AGAGTGGTCTCGGACG	CC2
SMC10.T.AGATTGCAGCTCAACT	CC2
SMC10.T.AGCAGCCGTAATCGTC	CC2
SMC10.T.AGCATACTCAAGGCTT	CC2
SMC10.T.AGCGTCGAGCTCCTTC	CC1
SMC10.T.AGCTCCTGTTGCGTTA	CC2
SMC10.T.AGCTCTCGTACCGAGA	CC2
SMC10.T.AGCTTGAAGATGTTAG	CC2
SMC10.T.AGCTTGAGTGGTTTCA	CC2
SMC10.T.AGGGATGCATCATCCC	CC2
SMC10.T.AGGGATGGTCCAGTAT	CC2
SMC10.T.AGGTCATGTAAGTGGC	CC2
SMC10.T.AGTAGTCTCACAGGCC	CC2
SMC10.T.AGTAGTCTCGTAGATC	CC2
SMC10.T.AGTCTTTAGATATGCA	CC2
SMC10.T.AGTCTTTCATGTTCCC	CC1
SMC10.T.AGTCTTTTCGGTCTAA	CC2
SMC10.T.AGTGAGGTCTCAACTT	CC2
SMC10.T.AGTGGGATCACAGGCC	CC1
SMC10.T.AGTGTCAAGTCCATAC	CC2
SMC10.T.ATAACGCGTATCGCAT	CC2
SMC10.T.ATAAGAGCAGAGCCAA	CC1
SMC10.T.ATAGACCCACGGATAG	CC2
SMC10.T.ATAGACCGTCAGGACA	CC1
SMC10.T.ATCCACCGTAGCGTCC	CC1
SMC10.T.ATCCGAAAGTTCCACA	CC2
SMC10.T.ATCCGAATCCCTTGTG	CC2
SMC10.T.ATCTACTAGGACACCA	CC2
SMC10.T.ATCTACTCACATGACT	CC2
SMC10.T.ATCTGCCAGGGATCTG	CC1
SMC10.T.ATGAGGGGTGTCCTCT	CC1
SMC10.T.ATGCGATCAGGATTGG	CC2
SMC10.T.ATGGGAGCATGTAAGA	CC1
SMC10.T.ATGTGTGCAAGGCTCC	CC2
SMC10.T.ATGTGTGTCGCCTGTT	CC2
SMC10.T.ATTACTCAGGGTTCCC	CC2
SMC10.T.ATTGGACAGTTACCCA	CC2
SMC10.T.ATTGGACTCTCTGTCG	CC2
SMC10.T.ATTTCTGGTCCGCACT	CC2
SMC10.T.CAACCTCCATCGATGT	CC1
SMC10.T.CAAGAAAAGTTTCCTT	CC2
SMC10.T.CAAGATCTCATGTGGT	CC2
SMC10.T.CAAGTTGCAGCGTTCG	CC2
SMC10.T.CACAAACGTCGCCATG	CC2
SMC10.T.CACAACTCCGTTGTC	CC2
SMC10.T.CACACTCCAAGCGATG	CC2
SMC10.T.CACAGGCGTCGCTTTC	CC2
SMC10.T.CACAGGCGTTAGGGTG	CC1
SMC10.T.CACATTTAGCGTGAGT	CC2
SMC10.T.CACCACTAGGCCCTCA	CC1
SMC10.T.CACCAGGAGAGTGAGA	CC2

SMC10.T.CACCAGGAGTATCGAA	CC2
SMC10.T.CACCTTGTCCGGTTCGG	CC1
SMC10.T.CACTCCAAGCCCAGCT	CC1
SMC10.T.CACTCCAAGGATGGAA	CC2
SMC10.T.CACTCCATCGCGATCG	CC2
SMC10.T.CAGATCAAGCCGCCTA	CC2
SMC10.T.CAGATCACACAGACAG	CC1
SMC10.T.CAGATCAGTCCGCTGA	CC1
SMC10.T.CAGCGACGTAAGGGAA	CC1
SMC10.T.CAGCTAAGTGCTGTAT	CC2
SMC10.T.CAGGTGCGTAGCAAAT	CC2
SMC10.T.CAGGTGCTCAAGGTAA	CC1
SMC10.T.CAGGTGCTCTAGCACA	CC2
SMC10.T.CAGGTGCTCTGTCAAG	CC2
SMC10.T.CAGTAACAGACTACAA	CC2
SMC10.T.CAGTAACAGTGTGAAT	CC2
SMC10.T.CAGTAACGTCAATGTC	CC2
SMC10.T.CAGTAACGTTATGTGC	CC2
SMC10.T.CAGTCCTGTTACTGAC	CC1
SMC10.T.CATATTCTCACGCGGT	CC2
SMC10.T.CATCAAGCAACTGGCC	CC2
SMC10.T.CATCAAGTCCAGAGGA	CC2
SMC10.T.CATCAGAAGTGGTAAT	CC2
SMC10.T.CATCAGACATCCTTGC	CC2
SMC10.T.CATCCACGTGGAAAGA	CC2
SMC10.T.CATCCACTCCCGACTT	CC2
SMC10.T.CATCGGGTCAACCAAC	CC2
SMC10.T.CATGACAAGAAGGGTA	CC2
SMC10.T.CATGACAAGGGAAACA	CC2
SMC10.T.CATGACAGTCATACTG	CC1
SMC10.T.CATGACATCCATGCTC	CC2
SMC10.T.CATGACATCCGTCATC	CC2
SMC10.T.CATGGCGTCGGACAAG	CC2
SMC10.T.CATTCGCTCAGGCGAA	CC2
SMC10.T.CATTCGCTCCACGACG	CC2
SMC10.T.CCAATCCTCACGATGT	CC2
SMC10.T.CCACCTAAGTAGCCGA	CC2
SMC10.T.CCACCTATCATTGCC	CC2
SMC10.T.CCACGGAAGACAATAC	CC1
SMC10.T.CCACGGAAGCGATAGC	CC2
SMC10.T.CCACTACTCATTGCGA	CC2
SMC10.T.CCACTACTCGTTTATC	CC2
SMC10.T.CCATGTCCAAATTGCC	CC1
SMC10.T.CCATTCGTCCATGAGT	CC2
SMC10.T.CCCAATCAGATAGGAG	CC2
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SMC10.T.CCCATACTCATAAAGG	CC2
SMC10.T.CCCATACTCCTCAATT	CC1
SMC10.T.CCCATACTCTGCAGTA	CC2
SMC10.T.CCGGTAGAGATGCCAG	CC2
SMC10.T.CCGTACTGTTCAACCA	CC2
SMC10.T.CCGTGGACAACGATCT	CC2
SMC10.T.CCGTGGATCCATGCTC	CC2
SMC10.T.CCGTTCACATCTGGTA	CC2
SMC10.T.CCGTTCAGTGGTACAG	CC2
SMC10.T.CCTACACCAAAGCGGT	CC2
SMC10.T.CCTACACTCAGCTCTC	CC2

SMC10.T.CCTAGCTAGGCATTGG	CC1
SMC10.T.CCTAGCTGTGAAGGCT	CC2
SMC10.T.CCTATTACAGCCTTGG	CC2
SMC10.T.CCTTACGTCACTCCTG	CC2
SMC10.T.CGAACATCAGCTGTTA	CC2
SMC10.T.CGAACATGTCAATGTC	CC1
SMC10.T.CGAACATGTGGCCCTA	CC2
SMC10.T.CGAATGTTCAACCATG	CC2
SMC10.T.CGACCTTCATAGGATA	CC1
SMC10.T.CGACCTTTCACAGGCC	CC2
SMC10.T.CGATCGGAGGTGGGTT	CC2
SMC10.T.CGATCGGGTAAGAGAG	CC2
SMC10.T.CGATGGCCATACTACG	CC2
SMC10.T.CGATTGACAGAGTGTG	CC2
SMC10.T.CGATTGAGTAGGACAC	CC2
SMC10.T.CGCGGTAGTCTCAACA	CC2
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SMC10.T.CGGACACGTTAGAACA	CC2
SMC10.T.CGGACGTTCCGGCGCAT	CC2
SMC10.T.CGGAGCTCATTGTGCA	CC2
SMC10.T.CGGAGTCAGCGAGAAA	CC2
SMC10.T.CGGCTAGGTCTCAACA	CC2
SMC10.T.CGTAGCGCAGCTCGAC	CC2
SMC10.T.CGTAGGCAGCACCGCT	CC1
SMC10.T.CGTCACTAGGATGGTC	CC2
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SMC10.T.CGTCCATAGCCACGTC	CC2
SMC10.T.CGTCCATCAATGAAAC	CC1
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SMC10.T.CGTGTCTTCGTACGGC	CC2
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SMC10.T.CGTTAGAGTGGACGAT	CC2
SMC10.T.CGTTCTGAGCCTTGAT	CC2
SMC10.T.CGTTGGGGTGTAATGA	CC2
SMC10.T.CTAACTTGTCTAGAGG	CC1
SMC10.T.CTAAGACCAGCATGAG	CC2
SMC10.T.CTAAGACTCACCTCGT	CC2
SMC10.T.CTAATGGCACCGAAAG	CC2
SMC10.T.CTAATGGTCAAACCGT	CC2
SMC10.T.CTACATTCAGCCTATA	CC1
SMC10.T.CTAGCCTAGACAAAGG	CC2
SMC10.T.CTAGCCTGTGTGTGCC	CC2
SMC10.T.CTAGTGAGTAGGGTAC	CC1
SMC10.T.CTCATTAGTCTAGTGT	CC2
SMC10.T.CTCCTAGGTGGCCCTA	CC2
SMC10.T.CTCCTAGTCTACTCAT	CC2
SMC10.T.CTCGAAAAGCGTGAAC	CC2

SMC10.T.CTCGGAGCAGTACACT	CC1
SMC10.T.CTCGGAGCATAGACTC	CC2
SMC10.T.CTCGTACCACATAACC	CC1
SMC10.T.CTCGTACTIONCGGATGTT	CC2
SMC10.T.CTCGTACACCCGTTGG	CC2
SMC10.T.CTCTGGTTTCGTTACGA	CC1
SMC10.T.CTCTGGTTCTAAGCCA	CC2
SMC10.T.CTGAAACTCATACGGT	CC2
SMC10.T.CTGATAGCAATGCCAT	CC2
SMC10.T.CTGATAGGTACGCTGC	CC2
SMC10.T.CTGCCTACACATCTTT	CC2
SMC10.T.CTGCCTATCTAACGGT	CC2
SMC10.T.CTGGTCTAGACAATAC	CC2
SMC10.T.CTGTGCTAGATCACGG	CC2
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SMC10.T.CTGTGCTTCGAGGTAG	CC2
SMC10.T.CTTAACTTCAGGCGAA	CC2
SMC10.T.CTTAACTTCGTAGGAG	CC2
SMC10.T.CTTACCGCAGTAGAGC	CC2
SMC10.T.CTTCTCTGTGCGACTAT	CC2
SMC10.T.CTTCTCTTCCCATTAT	CC2
SMC10.T.CTTGGCTGTGGTCTCG	CC1
SMC10.T.GAAACTCAGCTAGCCC	CC2
SMC10.T.GAAACTCTCCCACTTG	CC2
SMC10.T.GAAATGAGTATGCTTG	CC2
SMC10.T.GAACATCTCCAATGGT	CC2
SMC10.T.GAACGGAAGGAGTTGC	CC2
SMC10.T.GAACGGATCACTATTC	CC2
SMC10.T.GACACGCAGGCAGTCA	CC2
SMC10.T.GACACGCCAGCGTAAG	CC2
SMC10.T.GACAGAGTCCAAACAC	CC2
SMC10.T.GACCAATAGATCTGCT	CC2
SMC10.T.GACCAATTCGTACCGG	CC1
SMC10.T.GACGGCTTCAGAGACG	CC2
SMC10.T.GACGTTACACAACCTGT	CC2
SMC10.T.GACGTTATCTGAGTGT	CC2
SMC10.T.GACTAACGTCTAGAGG	CC2
SMC10.T.GACTAACTCCACGAAT	CC1
SMC10.T.GACTACATCGGTTAAC	CC2
SMC10.T.GAGCAGAAGCTGCGAA	CC2
SMC10.T.GATCAGTTCCAGTATG	CC2
SMC10.T.GATCGATCAGCTGGCT	CC2
SMC10.T.GATCGATGTACTTCTT	CC2
SMC10.T.GATCGCGAGCCACGTC	CC2
SMC10.T.GATCGCGTCACTTACT	CC2
SMC10.T.GATCGCGTCCCTGACT	CC2
SMC10.T.GATGAAACAAGACGTG	CC2
SMC10.T.GATGAGGGTGGGTATG	CC2
SMC10.T.GATGCTAGTACGCACC	CC2
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SMC10.T.GCAGCCAAGCTGTTCA	CC2
SMC10.T.GCAGCCACAATGGACG	CC2
SMC10.T.GCAGCCACATGACGGA	CC2
SMC10.T.GCAGTTAGTCTGCCAG	CC2
SMC10.T.GCAGTTATCAGGATCT	CC2

SMC10.T.GCATACAAGTGGTAGC	CC2
SMC10.T.GCATGATGTACCCAAT	CC2
SMC10.T.GCATGTACAAGGTGTG	CC2
SMC10.T.GCCAAATCATCTCCA	CC2
SMC10.T.GCCAAATGTGCGAAAC	CC2
SMC10.T.GCCAAATTCGGAAACG	CC2
SMC10.T.GCCTCTATCGAGAGCA	CC2
SMC10.T.GCGCAACGTGCGAAAC	CC1
SMC10.T.GCGCAACTCCAGGGCT	CC2
SMC10.T.GCGCAGTCAAGGACTG	CC2
SMC10.T.GCGCAGTGTGGACTG	CC2
SMC10.T.GCGCAGTTCGGAAACG	CC2
SMC10.T.GCGCCAACAACACTGGCC	CC2
SMC10.T.GCGCCAACAGCCTGTG	CC1
SMC10.T.GCGCCAACATCTCCA	CC2
SMC10.T.GCGCGATAGCATGGCA	CC1
SMC10.T.GCGGGTTAGCAAATCA	CC2
SMC10.T.GCTCCTATCCCTCTTT	CC2
SMC10.T.GCTCTGTTTCGCGATCG	CC2
SMC10.T.GCTGCAGTCTGGTTCC	CC2
SMC10.T.GCTGCTTAGGCATTGG	CC2
SMC10.T.GCTGGGTAGAGTCGGT	CC2
SMC10.T.GCTGGGTCATACGCCG	CC2
SMC10.T.GCTTCCAGTACTCAAC	CC2
SMC10.T.GGAAAGCAGGTAGCCA	CC2
SMC10.T.GGAAAGCAGTCTCCTC	CC2
SMC10.T.GGAAAGCGTTGTGGCC	CC2
SMC10.T.GGAATAACACGGTAAG	CC2
SMC10.T.GGACGTCCACTGAAGG	CC2
SMC10.T.GGAGCAATCATTGCC	CC1
SMC10.T.GGATGTTTCATAAAGG	CC1
SMC10.T.GGATGTTTCGGCCGAT	CC1
SMC10.T.GGATTACGTCCGCTGA	CC1
SMC10.T.GGCAATTAGTCCAGGA	CC2
SMC10.T.GGCAATTCATGCCTTC	CC2
SMC10.T.GGCCGATAGCCAGGAT	CC2
SMC10.T.GGCGACTAGAACAATC	CC2
SMC10.T.GGCGTGTAGGACGAAA	CC2
SMC10.T.GGCTCGAAGTACATGA	CC1
SMC10.T.GGCTGGTGTGCAGTAG	CC2
SMC10.T.GGGAATGAGTAGCGGT	CC2
SMC10.T.GGGAATGAGTGCATG	CC2
SMC10.T.GGGAATGGTAGCAAAT	CC2
SMC10.T.GGGAGATTCGATGAGG	CC2
SMC10.T.GGGATGATCCCTCTTT	CC2
SMC10.T.GGGCACTCATGAAGTA	CC2
SMC10.T.GGGCACTTCGCATGAT	CC2
SMC10.T.GGGCATCAGTATTGGA	CC2
SMC10.T.GGTATTGCACTTGGAT	CC2
SMC10.T.GGTGTTAAGAATGTTG	CC2
SMC10.T.GGTGTTAAGTCCAGGA	CC2
SMC10.T.GGTGTTAGTCACCCAG	CC1
SMC10.T.GTAACTGGTCTTCGTC	CC2
SMC10.T.GTACTCCAGTAGATGT	CC2
SMC10.T.GTACTCCTCTACTCAT	CC2
SMC10.T.GTACTTTTCACTCTTA	CC2
SMC10.T.GTAGGCCAGTACGTTTC	CC2
SMC10.T.GTATCTTACCAGGCT	CC2

SMC10.T.GTATCTTGTCGCATAT	CC1
SMC10.T.GTATCTTTCAGTGTTG	CC1
SMC10.T.GTATTCTGTATTCTCT	CC2
SMC10.T.GTCACAAAGTGCGATG	CC2
SMC10.T.GTCACAACACGTAAGG	CC2
SMC10.T.GTCACAAGTTATGTGC	CC2
SMC10.T.GTCACAAGTTCTGTTT	CC2
SMC10.T.GTCACGGAGCTAACAA	CC2
SMC10.T.GTCATTTGTTTAAGCC	CC1
SMC10.T.GTCGGGTAGCTCCTTC	CC1
SMC10.T.GTCGGGTTCAAGGCTT	CC2
SMC10.T.GTCGGGTTCCCTACAGA	CC2
SMC10.T.GTCGTAAAGCTTCGCG	CC2
SMC10.T.GTCTCGTTCAATAAGG	CC2
SMC10.T.GTCTCGTTCCGTAGGC	CC2
SMC10.T.GTCTTCGGTCTCTCTG	CC1
SMC10.T.GTGAAGGTCTTAGCCC	CC2
SMC10.T.GTGCAGCCAAGTCATC	CC2
SMC10.T.GTGCATATCAGTTGAC	CC2
SMC10.T.GTGCGGTTCCCTGACT	CC2
SMC10.T.GTGGGTCCATACTACG	CC2
SMC10.T.GTGGGTTCGTAGTACCT	CC2
SMC10.T.GTGTGCGAGTGTTGAA	CC2
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SMC10.T.GTGTGCGGTAGGCATG	CC2
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SMC10.T.GTTCATTAGTAGAGC	CC2
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SMC10.T.GTTTCTATCATGTGGT	CC2
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SMC10.T.TAAACCGTCATTTGGG	CC1
SMC10.T.TAAGAGATCCTGCCAT	CC2
SMC10.T.TACGGATAGTACGTTC	CC2
SMC10.T.TACGGGCTCACAAACC	CC2
SMC10.T.TACTCATCAAGAAGAG	CC1
SMC10.T.TACTCATCAGGCTGAA	CC2
SMC10.T.TACTCATGTAGCGATG	CC1
SMC10.T.TACTTGTAGATCACGG	CC2
SMC10.T.TAGACCAGTAGCGATG	CC2
SMC10.T.TAGCCGGAGCATGGCA	CC2
SMC10.T.TAGTTGGCACACGCTG	CC2
SMC10.T.TAGTTGGGTGATGTCT	CC2
SMC10.T.TATCAGGCAATCTGCA	CC2
SMC10.T.TATCTCAAGTCGATAA	CC1
SMC10.T.TATGCCCTCATCTGCC	CC2
SMC10.T.TATTACCAGAGGACGG	CC2
SMC10.T.TATTACCGTAGAGCTG	CC2
SMC10.T.TATTACCGTCTCCACT	CC2
SMC10.T.TATTACCGTGATAAAC	CC2
SMC10.T.TCAATCTAGCATGGCA	CC1

SMC10.T.TCAATCTCACCTGGTG	CC2
SMC10.T.TCACAAGGTTGCGCAC	CC2
SMC10.T.TCAGATGCACTGTCCG	CC2
SMC10.T.TCAGATGGTGCGATAG	CC2
SMC10.T.TCAGCAAAGATATGGT	CC2
SMC10.T.TCAGCAAGTAACGACG	CC2
SMC10.T.TCAGCTCTCACGAAGG	CC1
SMC10.T.TCAGGTATCGCTGATA	CC2
SMC10.T.TCATTACTCCTGCCAT	CC2
SMC10.T.TCATTTGGTAAACGCG	CC2
SMC10.T.TCCCGATAGACTGGGT	CC2
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SMC10.T.TCGCGTTTCGGTTCGG	CC2
SMC10.T.TCGGGACAGCATGGCA	CC1
SMC10.T.TCGGGACTCGTGTAGT	CC2
SMC10.T.TCGGTAACACCAGCAC	CC2
SMC10.T.TCGTACCGTGCAACTT	CC2
SMC10.T.TCTATTGAGACAGGCT	CC2
SMC10.T.TCTATTGAGAGGGATA	CC1
SMC10.T.TCTCTAACATCCTAGA	CC2
SMC10.T.TCTGAGAAGGCTAGGT	CC1
SMC10.T.TCTGAGAGTGTATGGG	CC2
SMC10.T.TCTGGAACAGTTAACC	CC1
SMC10.T.TCTGGAACATTACGAC	CC2
SMC10.T.TCTTTCCGTACTIONTCTT	CC2
SMC10.T.TCTTTCCCTCCTTAATC	CC2
SMC10.T.TGAAAGATCTTACCTA	CC2
SMC10.T.TGACGGCCAGTTTACG	CC2
SMC10.T.TGACGGCGTCCAAGTT	CC2
SMC10.T.TGACGGCTCTAACTGG	CC1
SMC10.T.TGACTAGGTCGACTGC	CC2
SMC10.T.TGACTTTAGGGAGTAA	CC2
SMC10.T.TGACTTTTCTTGACT	CC2
SMC10.T.TGAGAGGCATGGATGG	CC2
SMC10.T.TGAGAGGTCAACCATG	CC2
SMC10.T.TGAGCCGCACGGCGTT	CC2
SMC10.T.TGAGCCGTCCTCAATT	CC2
SMC10.T.TGAGCCGTCGAGGTAG	CC2
SMC10.T.TGATTTCCACAAGCCC	CC2
SMC10.T.TGATTTCCATCGGTTA	CC2
SMC10.T.TGCACCTCAGTGAGTG	CC1
SMC10.T.TGCCAAATCTCAAGTG	CC2
SMC10.T.TGCCCATCAAGTAATG	CC2
SMC10.T.TGCGCAGAGTCATGCT	CC2
SMC10.T.TGCGGGTAGCCACCTG	CC2
SMC10.T.TGCGTGAGCGAAGGG	CC2
SMC10.T.TGCTACCTCAGCTTAG	CC2
SMC10.T.TGCTGCTTCCATGAGT	CC2
SMC10.T.TGGACCGTTCCTCCA	CC2
SMC10.T.TGGCCAGAGAAGGGTA	CC2
SMC10.T.TGGCCAGTCATGTAGC	CC2
SMC10.T.TGGCGCACAACCTTGAC	CC2
SMC10.T.TGGCGCACAGATCCAT	CC2
SMC10.T.TGGCGCATCCAATGGT	CC2
SMC10.T.TGGCTGGTCTATCGCC	CC2
SMC10.T.TGGGCGTCATCACAAC	CC1
SMC10.T.TGGGCGTGTGAGGGTT	CC2
SMC10.T.TGGTTCCGTAGCGCAA	CC2

SMC10.T.TGTCCCATCGCTAGCG	CC2
SMC10.T.TGTGGTATCGTCGTT	CC2
SMC10.T.TGTGTTTGTAGAGCTG	CC2
SMC10.T.TTAACTCCATGGGACA	CC2
SMC10.T.TTAGGCACACACTGCG	CC2
SMC10.T.TTAGGCAGTGATGTGG	CC2
SMC10.T.TTAGTTCCAGGGTTAG	CC2
SMC10.T.TTATGCTTACGAAGG	CC2
SMC10.T.TTCCAGAGGGATCTG	CC2
SMC10.T.TTCGAAGCAGCCAGAA	CC2
SMC10.T.TTCGGTCAGACCTTTG	CC2
SMC10.T.TTCGGTCCACATCTTT	CC2
SMC10.T.TTCGGTCCAGCAGTTT	CC2
SMC10.T.TTCGGTCCAGCCTATA	CC1
SMC10.T.TTCTACAAGCCAGGAT	CC2
SMC10.T.TTCTACAGTAAGTAGT	CC2
SMC10.T.TTCTCAAAGCGCTCCA	CC2
SMC10.T.TTCTCAATCTATCCTA	CC2
SMC10.T.TTCTCCTCACGACTCG	CC1
SMC10.T.TTCTCCTGTGGTCTCG	CC2
SMC10.T.TTCTCCTTCGGCTTGG	CC2
SMC10.T.TTCTTAGTTCGAATGGG	CC2
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SMC10.T.TTGACTTCAGCCAGAA	CC1
SMC10.T.TTGACTTGTTAAGATG	CC2
SMC10.T.TTGCGTCTCTCCGGTT	CC2
SMC10.T.TTGTAGGAGATGCCTT	CC2
SMC10.T.TTGTAGGCAGTGACAG	CC2
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SMC10.T.TTTCCTCAGCCCAACC	CC2
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SMC10.T.TTTGCGCAGCTAGGCA	CC1
SMC10.T.TTTGCGCAGTGTACCT	CC2
SMC10.T.TTTGCGCGTATAGGGC	CC2
SMC10.T.TTTGGTTAGGTACTCT	CC2
SMC10.T.TTTGGTTAGTGTGAAT	CC2
SMC10.T.TTTGGTTTCCCAGGTG	CC2
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SMC11.T.AAACGGGAGATCCGAG	CC1
SMC11.T.AAACGGGGTTATTCTC	CC1
SMC11.T.AAAGATGCAATCAGAA	CC1
SMC11.T.AAAGATGTCTACCAGA	CC1
SMC11.T.AAAGCAATCTGTCAAG	CC1
SMC11.T.AAAGTAGCACAACGCC	CC1
SMC11.T.AACCATGGTCACCCAG	CC1
SMC11.T.AACGTTGAGCCAGTTT	CC1
SMC11.T.AACGTTGCACCGAAAG	CC1
SMC11.T.AACGTTGGTGCAGACA	CC1
SMC11.T.AACTCAGTCTTAACCT	CC1
SMC11.T.AACTGGTTCTGCGGCA	CC1
SMC11.T.AAGCCGCAGCTGTTCA	CC1
SMC11.T.AAGGAGCTCGTAGATC	CC1
SMC11.T.AAGGTTCAGCCGCTA	CC1
SMC11.T.AAGTCTGAGACCCACC	CC1
SMC11.T.AATCCAGCATAACCTG	CC1
SMC11.T.AATCGGTGTAAGGGCT	CC1
SMC11.T.AATCGGTGTTCTGGTA	CC1

SMC11.T.ACACCCTCATCAGTCA	CC1
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SMC11.T.ACACCGGCAACAACCT	CC2
SMC11.T.ACACTGAAGTGTACCT	CC1
SMC11.T.ACACTGAGTTGGACCC	CC1
SMC11.T.ACAGCCGAGAACTGTA	CC1
SMC11.T.ACAGCCGAGATGCCAG	CC1
SMC11.T.ACATCAGAGGAGCGTT	CC1
SMC11.T.ACATGGTAGACTGTAA	CC1
SMC11.T.ACCAGTAGTCTCCCTA	CC1
SMC11.T.ACCAGTAGTTCTGAAC	CC1
SMC11.T.ACCCACTCACCAGGCT	CC1
SMC11.T.ACGCCAGAGAGGACGG	CC1
SMC11.T.ACGCCAGTCTGTTTGT	CC1
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SMC11.T.ACGGGTCCACTAAGTC	CC1
SMC11.T.ACGTCAACACTTACGA	CC1
SMC11.T.ACTATCTTCTGCCAGG	CC1
SMC11.T.ACTGAACAGCCACTAT	CC1
SMC11.T.ACTGAGTAGTTAGCGG	CC1
SMC11.T.ACTGATGAGTATCTCG	CC1
SMC11.T.ACTGCTCCAGTAAGAT	CC1
SMC11.T.ACTGCTCGTGTTAAGA	CC1
SMC11.T.ACTGTCCCATTCTCG	CC1
SMC11.T.ACTTACTCATCTACGA	CC2
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SMC11.T.AGCCTAACACGTCAGC	CC1
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SMC11.T.CATTATCTCAAACCGT	CC2
SMC11.T.CATTCGCGTCTCCACT	CC1
SMC11.T.CCAATCCTCATCGGAT	CC1
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SMC11.T.TTTCCTCTCCAGTATG	CC1
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SMC14.T.AACTCCCTCCATGAGT	CC1
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SMC14.T.ACATGGTAGCTTTGGT	CC1
SMC14.T.ACGCCAGAGTATCGAA	CC1
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SMC14.T.AGCGGTCTCTGAGTGT	CC1
SMC14.T.AGGCCACGTTCTCATT	CC1
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SMC14.T.AGGGATGGTAGCGTGA	CC1
SMC14.T.AGGGTGATCAGAAATG	CC2
SMC14.T.AGGGTGATCTAACGGT	CC1
SMC14.T.ATAACGCCAGTCTTCC	CC1
SMC14.T.ATAAGAGTCGCCGTGA	CC1
SMC14.T.ATCATGGTCTAACTGG	CC1
SMC14.T.ATCCACCAGTTCGCGC	CC1
SMC14.T.ATCTACTAGGATCGCA	CC2
SMC14.T.ATGGGAGGTGGTCTCG	CC1
SMC14.T.ATTGGACAGGAGCGAG	CC1
SMC14.T.CAACCAAAGTTACGGG	CC1
SMC14.T.CAACCTCGTCCATGAT	CC1
SMC14.T.CACACCTAGAAAGTGG	CC1
SMC14.T.CACAGGCCAGACACTT	CC2
SMC14.T.CACAGTAAGATGTAAC	CC1
SMC14.T.CACCTTGAGTGTGGCA	CC2
SMC14.T.CACCTTGTCACCCGAG	CC1
SMC14.T.CAGAATCGTACGCACC	CC1
SMC14.T.CAGATCACACATGACT	CC2
SMC14.T.CAGCCGACATGCCTAA	CC1
SMC14.T.CAGGTGCCATTTCGACA	CC1

SMC14.T.CAGTAACAGAGCAATT	CC2
SMC14.T.CAGTCCTAGGACAGAA	CC2
SMC14.T.CAGTCCTCAAAGTGC	CC1
SMC14.T.CATATGGAGATGTGGC	CC2
SMC14.T.CATCCACAGTACGTAA	CC2
SMC14.T.CATCCACGTTTAGCTG	CC2
SMC14.T.CATGGCGAGAGCTGGT	CC1
SMC14.T.CATTATCGTCGAAAGC	CC1
SMC14.T.CCACCTAGTTAAGGGC	CC1
SMC14.T.CCACCTATCACCTCGT	CC1
SMC14.T.CCATGTCCATGGGAAC	CC1
SMC14.T.CCATGTCTCAACACAC	CC1
SMC14.T.CCCAATCCACTATCTT	CC1
SMC14.T.CCCAATCTCCTCTAGC	CC1
SMC14.T.CCCTCCTGTAGCGTCC	CC1
SMC14.T.CCGTACTCAGATCCAT	CC1
SMC14.T.CCGTTCAGTAGAAAGG	CC1
SMC14.T.CCTAAAGAGATCCCGC	CC2
SMC14.T.CCTAAAGTCGACAGCC	CC2
SMC14.T.CCTACACGTCTTCAAG	CC1
SMC14.T.CCTAGCTAGGCAAAGA	CC1
SMC14.T.CCTAGCTAGTAGGTGC	CC1
SMC14.T.CCTAGCTGTGACGCCT	CC2
SMC14.T.CCTATTATCTCTTATG	CC1
SMC14.T.CCTCAGTAGCGATCCC	CC1
SMC14.T.CCTTCCCCATGCCACG	CC1
SMC14.T.CCTTCGAAGCGTGAAC	CC1
SMC14.T.CGAATGTTCACTCCTG	CC1
SMC14.T.CGAGCACGTCCAGTGC	CC2
SMC14.T.CGATTGAGTCAATGTC	CC2
SMC14.T.CGGACGTGTGCCTTGG	CC1
SMC14.T.CGGAGCTGTAGCAAAT	CC1
SMC14.T.CGGAGCTGTTATGTGC	CC1
SMC14.T.CGGAGCTGTTGCCTCT	CC1
SMC14.T.CGTGAGCAGCTAACAA	CC2
SMC14.T.CGTTAGACATGTCTCC	CC1
SMC14.T.CGTTCTGAGCGTGAAC	CC1
SMC14.T.CGTTCTGAGTGGTAAT	CC1
SMC14.T.CTACACCAGTTAAGTG	CC1
SMC14.T.CTACGTCTCGGCTTGG	CC2
SMC14.T.CTCGAAACAGCTATTG	CC1
SMC14.T.CTCGGGACACATGACT	CC2
SMC14.T.CTCTACGAGGACACCA	CC1
SMC14.T.CTCTGGTAGTGGACGT	CC1
SMC14.T.CTGATCCCAACTGCGC	CC2
SMC14.T.CTGTTTATCTTGGGTA	CC1
SMC14.T.CTTACCGAGCCTTGAT	CC1
SMC14.T.CTTCTCTCAGTATCTG	CC1
SMC14.T.GAAACTCCAGTGAGTG	CC1
SMC14.T.GAACATCGTTAAAGAC	CC2
SMC14.T.GAAGCAGCAATGACCT	CC1
SMC14.T.GAATAAGAGAAACCGC	CC2
SMC14.T.GACACGCTCCCCTTG	CC2
SMC14.T.GACTGCGCACGAGGTA	CC2
SMC14.T.GAGGTGAAGCGTGTCC	CC2
SMC14.T.GAGGTGATCTTGTACT	CC1
SMC14.T.GCAAAGTCTAGCCG	CC2
SMC14.T.GCACTCTCACTCTGTC	CC2

SMC14.T.GCAGCCAAGCGTAATA	CC2
SMC14.T.GCAGCCATCAGTGCAT	CC1
SMC14.T.GCAGTTATCAGAGACG	CC2
SMC14.T.GCATACACACGTCAGC	CC2
SMC14.T.GCATGTATCGACGGAA	CC1
SMC14.T.GCGACCAAGCTATGCT	CC1
SMC14.T.GCGACCATCTGTTTGT	CC2
SMC14.T.GCGAGAATCAGAGACG	CC1
SMC14.T.GCGAGAATCAGGCGAA	CC2
SMC14.T.GCTCTGTTTCATCTGCC	CC1
SMC14.T.GCTGCTTAGTGACTCT	CC2
SMC14.T.GCTTCCAAGAGCAATT	CC1
SMC14.T.GGAGCAAGTCTCCCTA	CC1
SMC14.T.GGATGTTTCCGTCATC	CC1
SMC14.T.GGCAATTAGCTTTGGT	CC2
SMC14.T.GGCGTGTGTGAGGCTA	CC1
SMC14.T.GGGCACTTCGCCATAA	CC1
SMC14.T.GGGTTGCAGCCCAACC	CC1
SMC14.T.GTACGTACATGGTCTA	CC1
SMC14.T.GTAGGCCCTCAGATAAG	CC1
SMC14.T.GTCAAGTCAAGCCTAT	CC1
SMC14.T.GTCAAGTCAGCCAATT	CC1
SMC14.T.GTCACAATCACAAACC	CC1
SMC14.T.GTCACAATCCCAAGTA	CC1
SMC14.T.GTCATTTGTACCGTTA	CC1
SMC14.T.GTCTTCGAGCTTATCG	CC2
SMC14.T.GTGCATAGTCTCCCTA	CC1
SMC14.T.GTGGGTCAGCAATATG	CC2
SMC14.T.GTTCGGGGTGGTCCGT	CC1
SMC14.T.TAAGAGAAGACCACGA	CC1
SMC14.T.TAAGTGCCAAAGTGCG	CC1
SMC14.T.TACACGAAGACCGGAT	CC1
SMC14.T.TACCTTAGTTGTGGCC	CC2
SMC14.T.TACGGTAAGCTAGCCC	CC2
SMC14.T.TACTCGCAGCTACCTA	CC2
SMC14.T.TACTTGATAGATGTCGG	CC1
SMC14.T.TACTTGTTTCATCTGCC	CC1
SMC14.T.TACTTGTTCTAAGCCA	CC2
SMC14.T.TAGAGCTCATGCAACT	CC2
SMC14.T.TATCAGGTGCAATGCT	CC1
SMC14.T.TCAGGTACAACGATCT	CC1
SMC14.T.TCGGTAAGATCCTGT	CC2
SMC14.T.TCGTACCGTAAATACG	CC1
SMC14.T.TCTATTGTCTTGTCAT	CC1
SMC14.T.TCTCATATCAGCACAT	CC2
SMC14.T.TCTCTAAGTCAATACC	CC2
SMC14.T.TCTTTCCAGGACGTA	CC2
SMC14.T.TGACTAGGTATCTGCA	CC2
SMC14.T.TGACTAGGTTGTGGCC	CC2
SMC14.T.TGACTTTAGCTTTGGT	CC2
SMC14.T.TGATTTTCGTCCATGAT	CC1
SMC14.T.TGCACCTAGTACTTGC	CC1
SMC14.T.TGCCCTACACAGACTT	CC1
SMC14.T.TGCGGGTAGTGAACGC	CC2
SMC14.T.TGCTACCGTTACCAAGT	CC1
SMC14.T.TGCTACCGTTCCGGGCT	CC2
SMC14.T.TGCTGCTGTCCAGTGC	CC2
SMC14.T.TGCTGCTGTGACGCCT	CC2

SMC14.T.TGGCCAGTCGCAAAC	CC1
SMC14.T.TGGCTGGAGATCCTGT	CC1
SMC14.T.TGGTTAGCAGCCTATA	CC1
SMC14.T.TGTGTTTCACGAGGTA	CC2
SMC14.T.TTAACTCCAGCCTTGG	CC1
SMC14.T.TTAGGCAAGCCACTAT	CC2
SMC14.T.TTGAACCACTGTTAG	CC1
SMC14.T.TTTGCGCAGGCATTGG	CC2
SMC15.T.AAACGGGCAAGACGTG	CC1
SMC15.T.AAAGATGCAGTCGATT	CC1
SMC15.T.AAAGATGTCCTCATT	CC1
SMC15.T.AAAGCAAAGTACATGA	CC1
SMC15.T.AAAGCAAGTGCTAGCC	CC1
SMC15.T.AAAGCAATCCGTAGGC	CC2
SMC15.T.AAATGCCTCTATCGCC	CC1
SMC15.T.AACACGTCAATGCCAT	CC1
SMC15.T.AACGTTGAGCGATATA	CC2
SMC15.T.AACGTTGGTAAGAGAG	CC2
SMC15.T.AACGTTGTCAGCCTAA	CC1
SMC15.T.AACTCAGGTCTCTCTG	CC2
SMC15.T.AACTTTCTCATGCATG	CC1
SMC15.T.AAGGAGCGTTCACGGC	CC1
SMC15.T.AATCCAGTCGAATGCT	CC1
SMC15.T.ACACCAACACCGATAT	CC1
SMC15.T.ACACCAAGTGCGAAAC	CC1
SMC15.T.ACACCCTGTTACGCGC	CC1
SMC15.T.ACACCCTTCAACTCTT	CC1
SMC15.T.ACACCGGAGCCGATTT	CC1
SMC15.T.ACACCGGTCAAAGACA	CC1
SMC15.T.ACAGCTAGTGCTAGCC	CC1
SMC15.T.ACAGCTATCTTCCTTC	CC1
SMC15.T.ACATCAGGTCACCTAA	CC2
SMC15.T.ACATCAGGTGCCTGCA	CC2
SMC15.T.ACATGGTAGATCTGCT	CC1
SMC15.T.ACCGTAATCAAAGTAG	CC1
SMC15.T.ACCTTTACACTGTTAG	CC1
SMC15.T.ACGAGGAAGATGGCGT	CC2
SMC15.T.ACGCAGCAGGAGTAGA	CC1
SMC15.T.ACGGCCACAGGGTACA	CC2
SMC15.T.ACGGGTCAGCGATGAC	CC1
SMC15.T.ACTATCTCAGACAGGT	CC1
SMC15.T.ACTATCTGTCAACTGT	CC2
SMC15.T.ACTGAGTGTGAACCTT	CC1
SMC15.T.ACTGTCCAGAGGACGG	CC1
SMC15.T.ACTGTCCGTACCGCTG	CC1
SMC15.T.ACTTGTTCAAGTCTAC	CC1
SMC15.T.ACTTGTTTCGTAGGAG	CC1
SMC15.T.AGAATAGTCCGAAGAG	CC1
SMC15.T.AGAATAGTCTGGTATG	CC1
SMC15.T.AGACGTTCAAGTTGTC	CC2
SMC15.T.AGACGTTTCAAGTA	CC1
SMC15.T.AGACGTTGTCTGCAAT	CC1
SMC15.T.AGAGCTTCAGCTTCGG	CC1
SMC15.T.AGATCTGAGCGACGTA	CC2
SMC15.T.AGATTGCAGGAATCGC	CC1
SMC15.T.AGATTGCCATGGGAAC	CC1
SMC15.T.AGCAGCTCCGGCACA	CC1
SMC15.T.AGCGTATTCTGCTTGC	CC1

SMC15.T.AGCTCCTCATCACGAT	CC1
SMC15.T.AGCTCCTGTCTCCATC	CC1
SMC15.T.AGCTCCTTCTCGAGTA	CC1
SMC15.T.AGGCCACTCAAACCGT	CC1
SMC15.T.AGGCCGTGTACCTAA	CC1
SMC15.T.AGGGATGAGAACT	CC1
SMC15.T.AGGGATGAGGGTTTCT	CC2
SMC15.T.AGGTCCGCAAGGTTTC	CC1
SMC15.T.AGTCTTTAGAACAACCT	CC2
SMC15.T.AGTGGGAAGTATCTCG	CC1
SMC15.T.ATAAGAGAGATCTGCT	CC1
SMC15.T.ATAGACCTCAATCACG	CC1
SMC15.T.ATCATCTTCGGAGCAA	CC1
SMC15.T.ATCGAGTGTCTTCAAG	CC1
SMC15.T.ATGAGGGCAAGAGTCG	CC1
SMC15.T.ATGCGATAGACGCTTT	CC1
SMC15.T.ATGCGATCACGCGAAA	CC1
SMC15.T.ATGCGATTCTAAGCCA	CC2
SMC15.T.ATGTGTGTCTCATTCA	CC1
SMC15.T.ATTACTCGTAAGAGGA	CC1
SMC15.T.ATTGGTGAGTCGTTTG	CC1
SMC15.T.ATTTCTGTCTCCTATA	CC2
SMC15.T.CAACCTCTCTGTTGAG	CC2
SMC15.T.CAACTAGCAATGAATG	CC1
SMC15.T.CAAGAAAGTCTCACCT	CC1
SMC15.T.CAAGGCCTCAAGAAAGT	CC1
SMC15.T.CAAGGCCTCAGTCAGT	CC1
SMC15.T.CACAAACAGAGCTGCA	CC1
SMC15.T.CACAAACCAAACCCAT	CC1
SMC15.T.CACACAACAAAGGTGC	CC2
SMC15.T.CACACTCGTTAGATGA	CC1
SMC15.T.CACAGGCCATCCTAGA	CC1
SMC15.T.CACATAGCATTGTGCA	CC2
SMC15.T.CACATAGTCACCCTCA	CC2
SMC15.T.CACCACTGTGCTTTTC	CC1
SMC15.T.CACCAGGCACAGCGTC	CC1
SMC15.T.CACCAGGGTAGCCTCG	CC1
SMC15.T.CAGAGAGCAAGGACAC	CC1
SMC15.T.CAGAGAGCAATGCCAT	CC1
SMC15.T.CAGAGAGGTTGAACTC	CC1
SMC15.T.CAGAGAGTCGAATGCT	CC1
SMC15.T.CAGATCACATGCATGT	CC1
SMC15.T.CAGCAGCCATGAACCT	CC1
SMC15.T.CAGCAGCGTATGAAAC	CC2
SMC15.T.CAGCCGACAGTCCTTC	CC1
SMC15.T.CAGCGACAGTACGCCC	CC2
SMC15.T.CAGCGACGTACGCTGC	CC1
SMC15.T.CAGCGACGTTACCAGT	CC1
SMC15.T.CAGGTGCGTCAGAAGC	CC1
SMC15.T.CAGTCCTTCTCGCATC	CC1
SMC15.T.CATATGGGTGGCCCTA	CC1
SMC15.T.CATCAAGAGTCATGCT	CC1
SMC15.T.CATCAGACACTGTCCG	CC1
SMC15.T.CATCGAAAGCCAGAAC	CC1
SMC15.T.CATCGGGTCGAGAGCA	CC1
SMC15.T.CATGACAAGTGCGTGA	CC1
SMC15.T.CATGACACATTCTTAC	CC1
SMC15.T.CATGCCTGTCGATTGT	CC2

SMC15.T.CATTATCCACAGACTT	CC2
SMC15.T.CATTATCTCCACGACG	CC1
SMC15.T.CATTCGCGTGTGCGTC	CC1
SMC15.T.CCACCTAGTATTCTCT	CC1
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SMC15.T.CCGTGGAAGGGTTCCC	CC1
SMC15.T.CCGTTCACATGTCCTC	CC1
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SMC15.T.CCTATTAGTCTAACGT	CC1
SMC15.T.CCTCAGTGTGATGATA	CC1
SMC15.T.CCTCTGACATTTTCAGG	CC1
SMC15.T.CCTTACGAGCCCCGAAA	CC1
SMC15.T.CCTTACGTCCTAGGGC	CC1
SMC15.T.CCTTCCCTCCGATATG	CC2
SMC15.T.CGAACATAGGTGCACA	CC2
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SMC15.T.CGAACATCATGTGCGAT	CC1
SMC15.T.CGAATGTGTTGATTGC	CC1
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SMC15.T.CGAGCACCCAGACGCTC	CC1
SMC15.T.CGATCGGCATATACGC	CC1
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SMC15.T.CGCTTCAAGTGCCAGA	CC1
SMC15.T.CGGACACAGAAGGTGA	CC1
SMC15.T.CGGACGTTCTGGGCCA	CC1
SMC15.T.CGGAGCTGTATCTGCA	CC2
SMC15.T.CGGTTAATCCCATTAT	CC1
SMC15.T.CGTAGCGGTCATACTG	CC1
SMC15.T.CGTAGGCGTCTAACGT	CC1
SMC15.T.CGTCAGGCACCAGGCT	CC1
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SMC15.T.CGTGAGCCAATGGACG	CC2
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SMC15.T.CGTGTCTGTGTAAGTA	CC1
SMC15.T.CGTGTCTTCTATCCCG	CC1
SMC15.T.CGTTGGGCACCGAAAG	CC1
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SMC15.T.CTAACTTGTTTGTTGG	CC2
SMC15.T.CTAAGACCACGGTAGA	CC1
SMC15.T.CTAATGGAGACGCTTT	CC1
SMC15.T.CTACCCATCTTTAGGG	CC1
SMC15.T.CTAGCCTCATGTGCGAT	CC1
SMC15.T.CTAGCCTTCCTATGTT	CC1
SMC15.T.CTAGTGAAGACCTTTG	CC1
SMC15.T.CTCATTAGTTCCACAA	CC1
SMC15.T.CTCGAGGAGAACTCGG	CC2
SMC15.T.CTCGAGGCAACACGCC	CC1
SMC15.T.CTCTAATAGCGCCTCA	CC1

SMC15.T.CTCTAATAGGAATGGA	CC1
SMC15.T.CTCTAATCAACAACCT	CC1
SMC15.T.CTCTACGTCTCGCTTG	CC1
SMC15.T.CTGAAGTGTCTAGCCG	CC1
SMC15.T.CTGATAGGTCTCTTTA	CC2
SMC15.T.CTGATAGTCGGTTCGG	CC2
SMC15.T.CTGATCCCAAGTCTGT	CC1
SMC15.T.CTGATCCCAATGGAGC	CC1
SMC15.T.CTGATCCCATCACGTA	CC1
SMC15.T.CTGATCCCATGTCCTC	CC1
SMC15.T.CTGCGGAGTCCGAAGA	CC1
SMC15.T.CTGCTGTAGCGTGTCC	CC1
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SMC15.T.CTTAACTCATACGCTA	CC1
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SMC15.T.GAAACTCTCGGTCCGA	CC1
SMC15.T.GAAACTCTCGTAGGAG	CC1
SMC15.T.GAAATGACAGCGTAAG	CC1
SMC15.T.GAACATCGTACCTACA	CC1
SMC15.T.GAACCTATCGAATGCT	CC1
SMC15.T.GAAGCAGGTTTGACTG	CC1
SMC15.T.GACCAATCAGCTCGCA	CC1
SMC15.T.GACCTGGCAAACCCAT	CC1
SMC15.T.GACCTGGGTGTTTGTG	CC1
SMC15.T.GACGCGTTCATTATCC	CC1
SMC15.T.GAGCAGAAGACAGACC	CC1
SMC15.T.GAGTCCGGTTTGACAC	CC1
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SMC15.T.GATCGTAAGTGTACTC	CC1
SMC15.T.GATGCTAGTCCTCCAT	CC2
SMC15.T.GCAGTTACAGGAATCG	CC2
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SMC15.T.GCATGTACACATTTCT	CC2
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SMC15.T.GCTCCTAAGTGTGAA	CC1
SMC15.T.GCTCTGTACAGTCGC	CC2
SMC15.T.GCTCTGTATAGGGC	CC1
SMC15.T.GCTGCAGCAAGAGTCG	CC2
SMC15.T.GCTGCAGTCTTCATGT	CC1
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SMC15.T.GGACGTCCAGACGCCT	CC1
SMC15.T.GGAGCAACATCGATTG	CC1
SMC15.T.GGAGCAAGTGCACGAA	CC1
SMC15.T.GGATTACCACAACCTGT	CC1
SMC15.T.GGCCGATGTTTGTTC	CC1
SMC15.T.GGCGACTAGGTGCACA	CC1
SMC15.T.GGGACCTAGGGTGTGT	CC1
SMC15.T.GGGATGAGTTGGTTTG	CC1
SMC15.T.GGGATGATCTATCCCG	CC2
SMC15.T.GGGCACTAGATGGCGT	CC2

SMC15.T.GGGCACTAGATGTTAG	CC1
SMC15.T.GGGCATCAGACTAGAT	CC1
SMC15.T.GGGCATCAGCAGATCG	CC1
SMC15.T.GGGTCTGCAAACAACA	CC1
SMC15.T.GGGTTGCCAGCTATTG	CC1
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SMC15.T.GTAGTCAGTGACAGAA	CC1
SMC15.T.GTATCTTAGCTAGTGG	CC1
SMC15.T.GTATTCTGTACTIONAAC	CC1
SMC15.T.GTCAAGTGTTACAGGC	CC2
SMC15.T.GTCAAGTTCACATGCA	CC1
SMC15.T.GTCACGGGTACTCTCC	CC1
SMC15.T.GTCACGGGTGTGAAAT	CC1
SMC15.T.GTCGGGTAGGCTAGGT	CC1
SMC15.T.GTCGGGTAGTTTCCTT	CC1
SMC15.T.GTCGGGTGTGATGTCT	CC1
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SMC15.T.GTGCAGCAGCCGTCGT	CC2
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SMC15.T.GTTAAGCCATGCAACT	CC2
SMC15.T.GTTCATTGTGGTGTAG	CC2
SMC15.T.GTTCGGGCAGGTCTCG	CC2
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SMC15.T.TAAGAGACAACGATGG	CC1
SMC15.T.TACACGAAGGCATTGG	CC1
SMC15.T.TACCTTAGTTTCGTGAT	CC1
SMC15.T.TACCTATCACCACCT	CC1
SMC15.T.TACGGTAAGTATTGGA	CC1
SMC15.T.TACTCGCAGGAGTTGC	CC2
SMC15.T.TACTCGCTCAGGTTCA	CC1
SMC15.T.TACTTACTCAACACTG	CC1
SMC15.T.TACTTACTCAACGGGA	CC1
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SMC15.T.TAGAGCTGTTACGTCA	CC1
SMC15.T.TAGGCATAGCCGATTT	CC2
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SMC15.T.TCAATCTTCGCAAGCC	CC2
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SMC15.T.TCACGAACACATGGGA	CC2
SMC15.T.TCAGATGAGAGATGAG	CC2
SMC15.T.TCAGATGAGTTAGGTA	CC1
SMC15.T.TCAGGATGTGACGCCT	CC1
SMC15.T.TCAGGTACACTTCGAA	CC1
SMC15.T.TCAGGTAGTAGAGTGC	CC1
SMC15.T.TCAGGTATCGGTGTTA	CC1
SMC15.T.TCATTACAGTGGACGT	CC2
SMC15.T.TCATTGAGAGTACAT	CC2

SMC15.T.TCATTGTCATGGGACA	CC2
SMC15.T.TCCACACCACATCCAA	CC1
SMC15.T.TCGCGAGCATACCATG	CC1
SMC15.T.TCGTAGAAGCGATAGC	CC1
SMC15.T.TCTCTAATCCCTAACC	CC1
SMC15.T.TCTCTAATCGACGGAA	CC1
SMC15.T.TCTTTCCTCAGCGATT	CC1
SMC15.T.TGACAACCAGTGACAG	CC1
SMC15.T.TGACGGCAGGTGCAAC	CC1
SMC15.T.TGACGGCCAAAGCGGT	CC1
SMC15.T.TGAGCCGGTCAGCTAT	CC1
SMC15.T.TGCACCTAGGAGTCTG	CC1
SMC15.T.TGCCCATAGATCCCGC	CC1
SMC15.T.TGCCCTACAGCTCGAC	CC1
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SMC15.T.TGCGGGTCAGTATCTG	CC1
SMC15.T.TGCGGGTTCACCATAG	CC1
SMC15.T.TGCGTGGCAGTATCTG	CC1
SMC15.T.TGCGTGGTACGACCC	CC1
SMC15.T.TGCTGCTAGTATCTCG	CC1
SMC15.T.TGGCCAGGTTCCCGAG	CC1
SMC15.T.TGGCTGGCACCAACCG	CC1
SMC15.T.TGGTCCCGTCCGAGTC	CC1
SMC15.T.TGTATTCAGCACCGCT	CC2
SMC15.T.TGTCCCAGTCGCATAT	CC1
SMC15.T.TGTGTTTAGCTAGTCT	CC1
SMC15.T.TGTGTTTGTCAATAGC	CC1
SMC15.T.TGTTCCGAGCTAACTC	CC1
SMC15.T.TTCCAGAGTACGTAA	CC1
SMC15.T.TTCGGTCCAGTTCCT	CC2
SMC15.T.TTCGGTTCGACTTCTT	CC1
SMC15.T.TTGCGTCCAGCTATTG	CC1
SMC15.T.TTGCGTCCATTAGCCA	CC1
SMC15.T.TTGGCAACAGCTCCGA	CC1
SMC15.T.TTGGCAATCGGCTACG	CC2
SMC15.T.TTGGCAATCGTTTATC	CC1
SMC15.T.TTTATGCGTCTCTCGT	CC1
SMC16.T.AAACCTGGTTCGCGAC	CC1
SMC16.T.AAACCTGTCAGCTTAG	CC1
SMC16.T.AAACGGGAGTAGCGGT	CC2
SMC16.T.AAACGGGCAGACAGGT	CC2
SMC16.T.AAACGGGCAGACGCAA	CC2
SMC16.T.AAACGGGCAGCCTTTC	CC1
SMC16.T.AAACGGGCAGCTCGAC	CC1
SMC16.T.AAACGGGTCTAGGTT	CC2
SMC16.T.AAACGGGTTCGCATGGC	CC1
SMC16.T.AAACGGGTCTGCAAGT	CC2
SMC16.T.AAAGATGAGACGCACA	CC2
SMC16.T.AAAGATGAGAGAGCTC	CC2
SMC16.T.AAAGATGCAAGGCTCC	CC2
SMC16.T.AAAGATGCACAGACAG	CC1
SMC16.T.AAAGATGCACTCGACG	CC2
SMC16.T.AAAGATGGTAGCGTGA	CC1
SMC16.T.AAAGATGGTCAATACC	CC1
SMC16.T.AAAGCAAAGAGACTTA	CC1
SMC16.T.AAAGCAAAGAGCTATA	CC2
SMC16.T.AAAGCAAAGTGGAGTC	CC2
SMC16.T.AAAGCAAAGTGTACGG	CC2

SMC16.T.AAAGCAACACATTTCT	CC1
SMC16.T.AAAGCAAGTCTTGCGG	CC2
SMC16.T.AAAGCAAGTGGCTCCA	CC2
SMC16.T.AAAGCAAGTTTACTCT	CC2
SMC16.T.AAAGCAATCCACGTTC	CC1
SMC16.T.AAAGCAATCGGCGGTT	CC2
SMC16.T.AAAGTAGCACAAGCCC	CC2
SMC16.T.AAAGTAGCACTACAGT	CC2
SMC16.T.AAAGTAGGTACCTACA	CC2
SMC16.T.AAAGTAGGTCCTAGCG	CC2
SMC16.T.AAAGTAGTCTGCGTAA	CC2
SMC16.T.AAATGCCACCCAGATT	CC2
SMC16.T.AAATGCCACTGTGTA	CC2
SMC16.T.AAATGCCGTACAGTTC	CC1
SMC16.T.AAATGCCGTCTCTCGT	CC2
SMC16.T.AAATGCCTCGCTGATA	CC2
SMC16.T.AAATGCCTCTTAACCT	CC1
SMC16.T.AACACGTAGGCGATAC	CC2
SMC16.T.AACACGTAGGTGCTTT	CC2
SMC16.T.AACACGTAGTACGCCC	CC2
SMC16.T.AACACGTCAATAGCAA	CC1
SMC16.T.AACACGTGTTGGGACA	CC1
SMC16.T.AACACGTTTACAATGC	CC1
SMC16.T.AACACGTTCTCCCTGA	CC2
SMC16.T.AACACGTTCTTAGAGC	CC2
SMC16.T.AACCATGCACGGTTTA	CC2
SMC16.T.AACCATGCAGCTTCGG	CC2
SMC16.T.AACCATGGTCTCGTTC	CC1
SMC16.T.AACCATGGTCTTCTCG	CC2
SMC16.T.AACCATGGTTGTGGAG	CC1
SMC16.T.AACCATGTGCTGATA	CC2
SMC16.T.AACCATGTCTGCTGCT	CC1
SMC16.T.AACCGGAGAAACGAG	CC2
SMC16.T.AACCGGAGACTCGGA	CC2
SMC16.T.AACCGGGTACAGTGG	CC2
SMC16.T.AACCGGGTATCGCAT	CC2
SMC16.T.AACGTTGAGCATCATC	CC2
SMC16.T.AACGTTGAGCCGTCGT	CC2
SMC16.T.AACGTTGCAAGGTTCT	CC1
SMC16.T.AACGTTGCACTATCTT	CC2
SMC16.T.AACGTTGGTCATCGGC	CC2
SMC16.T.AACGTTGTCTCATTCA	CC2
SMC16.T.AACTCAGAGAGACGAA	CC1
SMC16.T.AACTCAGAGCATCATC	CC2
SMC16.T.AACTCAGCACCCTAG	CC1
SMC16.T.AACTCAGCATTGACA	CC1
SMC16.T.AACTCAGTCAACACAC	CC2
SMC16.T.AACTCAGTCATTGCC	CC2
SMC16.T.AACTCCCAGTTGTAGA	CC2
SMC16.T.AACTCCCTCCGCAGTG	CC1
SMC16.T.AACTCCCTCGCATGAT	CC1
SMC16.T.AACTCCCTCTGGTTCC	CC1
SMC16.T.AACTCTTAGTTAGCGG	CC2
SMC16.T.AACTCTTGTACTCGCG	CC1
SMC16.T.AACTCTTGTAGGCATG	CC1
SMC16.T.AACTCTTGTCTCTTTA	CC1
SMC16.T.AACTCTTGTACGGAG	CC2
SMC16.T.AACTGGTAGGTGCTTT	CC1

SMC16.T.AACTGGTCATGAACCT	CC2
SMC16.T.AACTGGTGCATATGC	CC2
SMC16.T.AACTTTTCAGAAATTGTG	CC1
SMC16.T.AACTTTTCCAAGGTTTC	CC2
SMC16.T.AACTTTTCTCCGTTGCT	CC2
SMC16.T.AAGACCTAGGACATTA	CC2
SMC16.T.AAGACCTAGGGCTTCC	CC2
SMC16.T.AAGACCTAGTGCGATG	CC2
SMC16.T.AAGACCTCACGAGAGT	CC2
SMC16.T.AAGACCTCAGTAAGCG	CC2
SMC16.T.AAGACCTGTCTCTCTG	CC2
SMC16.T.AAGACCTGTTACGGAG	CC2
SMC16.T.AAGCCGCAGTGCAAGC	CC2
SMC16.T.AAGCCGCCACAACCTGT	CC2
SMC16.T.AAGCCGCCACAGACAG	CC1
SMC16.T.AAGCCGCGTCTGACTGC	CC2
SMC16.T.AAGCCGCGTTGCGTTA	CC1
SMC16.T.AAGGAGCAGCACGCCT	CC2
SMC16.T.AAGGAGCCAAGCCGTC	CC1
SMC16.T.AAGGAGCCAATCACAC	CC2
SMC16.T.AAGGAGCCATCATCCC	CC2
SMC16.T.AAGGAGCCATGGTCTA	CC2
SMC16.T.AAGGAGCGTACGCTGC	CC1
SMC16.T.AAGGAGCGTATAGGTA	CC2
SMC16.T.AAGGAGCTCATATCGG	CC2
SMC16.T.AAGGAGCTCCGCAGTG	CC2
SMC16.T.AAGGAGCTCCTATGTT	CC1
SMC16.T.AAGGAGCTCCTCAATT	CC2
SMC16.T.AAGGAGCTCGCCAAAT	CC2
SMC16.T.AAGGCAGAGAAACGCC	CC1
SMC16.T.AAGGCAGAGTACGTTC	CC2
SMC16.T.AAGGCAGCACACAGAG	CC2
SMC16.T.AAGGCAGCACGGCCAT	CC1
SMC16.T.AAGGCAGCAGCCAATT	CC1
SMC16.T.AAGGCAGTCACTTCAT	CC2
SMC16.T.AAGGCAGTCAGGATCT	CC2
SMC16.T.AAGGCAGTCCGAAGAG	CC1
SMC16.T.AAGGTTTCAGAACAATC	CC2
SMC16.T.AAGGTTTCAGAGCTGGT	CC1
SMC16.T.AAGGTTTCTCCATTCTA	CC1
SMC16.T.AAGTCTGAGAGACTAT	CC2
SMC16.T.AAGTCTGCATGGTAGG	CC2
SMC16.T.AATCCAGAGACTTTTCG	CC1
SMC16.T.AATCCAGAGCCCAATT	CC2
SMC16.T.AATCCAGCAAAGGTGC	CC1
SMC16.T.AATCCAGCACCGCTAG	CC2
SMC16.T.AATCCAGCAGTATAAG	CC2
SMC16.T.AATCCAGGTCAGATAA	CC1
SMC16.T.AATCCAGGTGATGATA	CC1
SMC16.T.AATCCAGTCAAACCGT	CC2
SMC16.T.AATCCAGTCTTGTATC	CC2
SMC16.T.AATCGGTAGCCCAACC	CC1
SMC16.T.AATCGGTAGTAACCCT	CC2
SMC16.T.AATCGGTCAGCTTCGG	CC1
SMC16.T.AATCGGTTTATTGCCC	CC1
SMC16.T.AATCGGTTTCTTGGTC	CC1
SMC16.T.ACACCAAAGCTGGAAC	CC1
SMC16.T.ACACCAACAGCCTTGG	CC1

SMC16.T.ACACCAACATTCTTAC	CC1
SMC16.T.ACACCAATCATGGTCA	CC2
SMC16.T.ACACCCTAGCTGATAA	CC1
SMC16.T.ACACCCTCACATTAGC	CC1
SMC16.T.ACACCCTCACGAAATA	CC1
SMC16.T.ACACCCTGTCCGACGT	CC1
SMC16.T.ACACCCTTCCACGTTT	CC2
SMC16.T.ACACCCTTCTTAATC	CC2
SMC16.T.ACACCCTTCGATCCCT	CC2
SMC16.T.ACACCCTTCTATCGCC	CC2
SMC16.T.ACACCCTTCTTCCTC	CC1
SMC16.T.ACACCGGGTGCGCTTG	CC2
SMC16.T.ACACCGGGTTTGCATG	CC2
SMC16.T.ACACCGGTCTCGCTTG	CC1
SMC16.T.ACACTGAAGAACTCGG	CC1
SMC16.T.ACACTGAGTTCTGTTT	CC2
SMC16.T.ACACTGATCATAAAGG	CC2
SMC16.T.ACACTGATCTCGTATT	CC2
SMC16.T.ACACTGATCTCTTATG	CC2
SMC16.T.ACACTGATCTTCTGGC	CC2
SMC16.T.ACAGCCGAGTCAAGGC	CC2
SMC16.T.ACAGCCGAGTCGATAA	CC1
SMC16.T.ACAGCCGGTACTTGAC	CC1
SMC16.T.ACAGCCGGTAGCGATG	CC2
SMC16.T.ACAGCCGGTCCATGAT	CC2
SMC16.T.ACAGCCGTCCAGTAGT	CC2
SMC16.T.ACAGCTAAGAGCAATT	CC2
SMC16.T.ACAGCTAAGGGATACC	CC1
SMC16.T.ACAGCTACACCCATTC	CC2
SMC16.T.ACAGCTACAGGCTCAC	CC2
SMC16.T.ACAGCTACAGGTTTCA	CC2
SMC16.T.ACAGCTAGTCAAAGCG	CC1
SMC16.T.ACAGCTAGTCTCTTAT	CC1
SMC16.T.ACAGCTATCGGACAAG	CC2
SMC16.T.ACAGCTATCGTACGGC	CC1
SMC16.T.ACAGCTATCTGGGCCA	CC2
SMC16.T.ACATACGAGAGGTTGC	CC1
SMC16.T.ACATACGAGCCACCTG	CC1
SMC16.T.ACATACGAGTACGCGA	CC2
SMC16.T.ACATACGAGTGAACGC	CC1
SMC16.T.ACATACGAGTTTCGATC	CC2
SMC16.T.ACATACGCACGAGGTA	CC2
SMC16.T.ACATACGCAGTTAACC	CC1
SMC16.T.ACATACGTCAAAGACA	CC1
SMC16.T.ACATACGTCAGAGACG	CC2
SMC16.T.ACATACGTCAGAGGTG	CC2
SMC16.T.ACATCAGAGATAGCAT	CC2
SMC16.T.ACATCAGAGCTATGCT	CC1
SMC16.T.ACATCAGAGGACATTA	CC2
SMC16.T.ACATCAGGTCGCTTTC	CC2
SMC16.T.ACATCAGGTTGGTGGA	CC2
SMC16.T.ACATCAGTCTCAACTT	CC2
SMC16.T.ACATGGTAGCAACGGT	CC2
SMC16.T.ACATGGTAGGAGCGTT	CC2
SMC16.T.ACATGGTCAATAGCGG	CC2
SMC16.T.ACATGGTCATGTCGAT	CC2
SMC16.T.ACATGGTTCAATCACG	CC2
SMC16.T.ACCAGTAAGCACAGGT	CC1

SMC16.T.ACCAGTAAGTCGATAA	CC1
SMC16.T.ACCAGTACAATCTGCA	CC2
SMC16.T.ACCAGTACAGACTCGC	CC1
SMC16.T.ACCAGTAGTAATCGTC	CC2
SMC16.T.ACCAGTAGTCCGAACC	CC2
SMC16.T.ACCAGTATCTTTCCTC	CC2
SMC16.T.ACCCACTAGTCAAGGC	CC1
SMC16.T.ACCCACTCAAGAGTCG	CC2
SMC16.T.ACCCACTCAGACGTAG	CC1
SMC16.T.ACCCACTTCAAACTG	CC1
SMC16.T.ACCCACTTCCGCGGTA	CC2
SMC16.T.ACCCACTTCGACCAGC	CC2
SMC16.T.ACCGTAAAGCATGGCA	CC1
SMC16.T.ACCGTAAAGCTGATAA	CC2
SMC16.T.ACCGTAAGTGTGACCC	CC1
SMC16.T.ACCGTAAGTTTGGGCC	CC1
SMC16.T.ACCGTAATCCAAAGTC	CC2
SMC16.T.ACCTTTAAGATGGCGT	CC1
SMC16.T.ACCTTTAAGCGTGAGT	CC2
SMC16.T.ACCTTTACAATCGAAA	CC2
SMC16.T.ACGAGCCAGTATCGAA	CC2
SMC16.T.ACGAGCCCAGTGGGAT	CC2
SMC16.T.ACGAGCCGTAAACCTC	CC2
SMC16.T.ACGAGCCGTTTCCACC	CC2
SMC16.T.ACGAGCCTCGTTACGA	CC1
SMC16.T.ACGAGGAAGAATCTCC	CC2
SMC16.T.ACGAGGAAGGCTAGGT	CC1
SMC16.T.ACGAGGAAGGTTACCT	CC2
SMC16.T.ACGAGGAAGTGCGATG	CC2
SMC16.T.ACGAGGACACAGTCGC	CC1
SMC16.T.ACGAGGAGTATCTGCA	CC1
SMC16.T.ACGAGGAGTTGACGTT	CC1
SMC16.T.ACGATACAGACGCAAC	CC1
SMC16.T.ACGATACGTACAAGTA	CC2
SMC16.T.ACGATACGTATTCGTG	CC2
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SMC16.T.ACGATGTAGCGATTCT	CC1
SMC16.T.ACGATGTAGTGGGATC	CC1
SMC16.T.ACGATGTCAAAGCGGT	CC2
SMC16.T.ACGATGTCAGCGATCC	CC1
SMC16.T.ACGATGTGTAAGTTCC	CC2
SMC16.T.ACGATGTGTATTAGCC	CC1
SMC16.T.ACGATGTGTCCATCCT	CC2
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SMC16.T.ACGATGTGTGTTGTA	CC1
SMC16.T.ACGATGTGTGTATGGG	CC2
SMC16.T.ACGATGTTTCATGCATG	CC1
SMC16.T.ACGATGTTCTCGTTTA	CC1
SMC16.T.ACGCAGCAGATGCGAC	CC1
SMC16.T.ACGCAGCAGCGCCTCA	CC1
SMC16.T.ACGCAGCCATGGGACA	CC2
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SMC16.T.ACGCAGCGTACTCAAC	CC1
SMC16.T.ACGCAGCGTCATCGGC	CC1
SMC16.T.ACGCAGCTCATACGGT	CC2
SMC16.T.ACGCCAGAGTACGCCC	CC2
SMC16.T.ACGCCAGAGTCAATAG	CC1
SMC16.T.ACGCCAGCACCCCTATC	CC1

SMC16.T.ACGCCAGCACTACAGT	CC2
SMC16.T.ACGCCAGCATCACGAT	CC1
SMC16.T.ACGCCAGGTCTTGTCC	CC2
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SMC16.T.ACGCCGAGTCGAGTTT	CC1
SMC16.T.ACGCCGATCCACTCCA	CC2
SMC16.T.ACGCCGATCTGAGTGT	CC2
SMC16.T.ACGGAGACACACATGT	CC1
SMC16.T.ACGGAGACAGCTGGCT	CC2
SMC16.T.ACGGAGACATGGGAAC	CC2
SMC16.T.ACGGAGAGTAAAGGAG	CC2
SMC16.T.ACGGAGAGTCTTGTCC	CC2
SMC16.T.ACGGAGAGTTGCGTTA	CC1
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SMC16.T.ACGGCCAAGTGCTGCC	CC1
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SMC16.T.ACGGCCACAGACGCCT	CC2
SMC16.T.ACGGCCAGTAAACACA	CC1
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SMC16.T.ACGGGCTAGTGAACGC	CC1
SMC16.T.ACGGGCTCACATCCAA	CC2
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SMC16.T.ACGGGCTCAGCGTCCA	CC2
SMC16.T.ACGGGCTCAGGTCCAC	CC1
SMC16.T.ACGGGCTCATGAGCGA	CC2
SMC16.T.ACGGGCTGTTTCGTGAT	CC2
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SMC16.T.ACGGGCTTCTGTCTAT	CC1
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SMC16.T.ACGGGTCAGATATGGT	CC1
SMC16.T.ACGGGTCAGTTGCAGG	CC1
SMC16.T.ACGGGTCTCGAGAACG	CC2
SMC16.T.ACGTCAAAGAGCTGGT	CC1
SMC16.T.ACGTCAAAGGTAGCTG	CC2
SMC16.T.ACGTCAACAACGATGG	CC2
SMC16.T.ACGTCAACAAGGTGTG	CC1
SMC16.T.ACGTCAACATCCAACA	CC1
SMC16.T.ACGTCAAGTTATCGGT	CC2
SMC16.T.ACGTCAATCCATGAAC	CC1
SMC16.T.ACGTCAATCCGCAGTG	CC2
SMC16.T.ACGTCAATCGATGAGG	CC2
SMC16.T.ACTATCTCAAGCCGCT	CC2
SMC16.T.ACTATCTCAGTCACTA	CC1
SMC16.T.ACTATCTTCAACTCTT	CC2
SMC16.T.ACTGAACAGAAGGACA	CC2
SMC16.T.ACTGAACAGGTAGCCA	CC1
SMC16.T.ACTGAACAGTGTACTC	CC2

SMC16.T.ACTGAACGTAGAGTGC	CC1
SMC16.T.ACTGAACGTCAGGACA	CC1
SMC16.T.ACTGAACGTGTAACGG	CC2
SMC16.T.ACTGAACGTAAAGACA	CC1
SMC16.T.ACTGAGTAGAAACCGC	CC1
SMC16.T.ACTGAGTAGCTGCCCA	CC1
SMC16.T.ACTGAGTAGTCATGCT	CC1
SMC16.T.ACTGAGTGTAACATCA	CC1
SMC16.T.ACTGAGTGTATGAAAC	CC2
SMC16.T.ACTGATGAGACCGGAT	CC2
SMC16.T.ACTGATGAGCTTTGGT	CC1
SMC16.T.ACTGATGGTGTGGTTT	CC2
SMC16.T.ACTGATGTCAAGAAGT	CC2
SMC16.T.ACTGATGTCGTCGTTC	CC2
SMC16.T.ACTGCTCAGACAGAGA	CC1
SMC16.T.ACTGCTCAGAGTCGGT	CC1
SMC16.T.ACTGCTCCAGTTCATG	CC1
SMC16.T.ACTGCTCGTCGACTGC	CC2
SMC16.T.ACTGCTCGTTCCAACA	CC2
SMC16.T.ACTGTCCCAGGCGATA	CC1
SMC16.T.ACTGTCCGTGTTAAGA	CC2
SMC16.T.ACTGTCCGTTCTGGGCT	CC1
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SMC16.T.ACTTACTAGACAAAGG	CC1
SMC16.T.ACTTACTGTAAACGCG	CC2
SMC16.T.ACTTACTTCTCACATT	CC2
SMC16.T.ACTTGTTCAAGCCGTC	CC2
SMC16.T.ACTTGTTGTTCTCATT	CC1
SMC16.T.ACTTGTTTCTCTGAGA	CC1
SMC16.T.ACTTTC AAGGCATTGG	CC2
SMC16.T.ACTTTC AAGTACTTGC	CC2
SMC16.T.ACTTTCACAAGTTGTC	CC1
SMC16.T.ACTTTCAGTCATGCCG	CC1
SMC16.T.ACTTTCAGTCGGCATC	CC1
SMC16.T.ACTTTCAGTTCTGAAC	CC2
SMC16.T.AGAATAGCACCGAATT	CC2
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SMC16.T.AGAATAGGTGTAAGTA	CC2
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SMC16.T.AGACGTTCAGATGGGT	CC1
SMC16.T.AGACGTTGTAGGAGTC	CC2
SMC16.T.AGACGTTGTTGTCTTT	CC1
SMC16.T.AGAGCGAAGGTGGGTT	CC2
SMC16.T.AGAGCGAAGTGAATTG	CC2
SMC16.T.AGAGCGACACTGTGTA	CC1
SMC16.T.AGAGCGACAGATGGCA	CC1
SMC16.T.AGAGCGACATAGGATA	CC1
SMC16.T.AGAGCGACATAGTAAG	CC2
SMC16.T.AGAGCGAGTCCGACGT	CC2
SMC16.T.AGAGCGATCACAACGT	CC2
SMC16.T.AGAGCGATCTGTTGAG	CC1
SMC16.T.AGAGCTTAGGAGCGAG	CC2
SMC16.T.AGAGCTTAGTAAGTAC	CC1
SMC16.T.AGAGCTTCAAACAACA	CC2

SMC16.T.AGAGCTTCAATGACCT	CC2
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SMC16.T.AGAGCTTCACGTCAGC	CC2
SMC16.T.AGAGCTTGTGCGTTA	CC2
SMC16.T.AGAGCTTTCGATAGAA	CC1
SMC16.T.AGAGTGGAGAAACGAG	CC1
SMC16.T.AGAGTGGAGACTAAGT	CC2
SMC16.T.AGAGTGGAGAGTAATC	CC1
SMC16.T.AGAGTGGAGCGACGTA	CC2
SMC16.T.AGAGTGGGTGCGAAAC	CC1
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SMC16.T.AGAGTGGGTTCGAATC	CC1
SMC16.T.AGATCTGAGAACTGTA	CC2
SMC16.T.AGATCTGGTTATCGGT	CC2
SMC16.T.AGATCTGTCCAAGTAC	CC2
SMC16.T.AGATCTGTGCCATAA	CC1
SMC16.T.AGATTGCCATTATCTC	CC1
SMC16.T.AGATTGCGTTGGTAAA	CC2
SMC16.T.AGATTGCTCCCTCAGT	CC2
SMC16.T.AGCAGCCAGAAGGGTA	CC2
SMC16.T.AGCAGCCGTAGTACCT	CC2
SMC16.T.AGCAGCCGTCAGAATA	CC2
SMC16.T.AGCAGCCGTCTTGCGG	CC1
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SMC16.T.AGCATACTCCTACAGA	CC2
SMC16.T.AGCATACTCTGCGGCA	CC1
SMC16.T.AGCCTAATCCTATTCA	CC2
SMC16.T.AGCCTAATCGAGCCCA	CC2
SMC16.T.AGCGGTCAGAGGTAGA	CC2
SMC16.T.AGCGGTCAGAGGTTGC	CC1
SMC16.T.AGCGGTCAGGTGCACA	CC2
SMC16.T.AGCGGTCCTCAAGTCTGT	CC2
SMC16.T.AGCGGTCGTCTGGCT	CC1
SMC16.T.AGCGGTCGTGGTACAG	CC2
SMC16.T.AGCGGTCCTCAGTTAGC	CC1
SMC16.T.AGCGTATAGTGCGATG	CC1
SMC16.T.AGCGTATGTACCAGTT	CC1
SMC16.T.AGCGTATGTCCAGTTA	CC1
SMC16.T.AGCGTATGTTCTCATT	CC1
SMC16.T.AGCGTCGAGGGCACTA	CC1
SMC16.T.AGCGTCGGTGTCTGAT	CC1
SMC16.T.AGCGTCGTCCATGAGT	CC1
SMC16.T.AGCGTCGTCTGCGGCA	CC1
SMC16.T.AGCTCCTAGCGTTGCC	CC2
SMC16.T.AGCTCCTGTCGCGAAA	CC1
SMC16.T.AGCTCCTTCGGCATCG	CC2
SMC16.T.AGCTCTCAGTTCGCAT	CC1
SMC16.T.AGCTCTCCAGCTGGCT	CC2
SMC16.T.AGCTCTCTCAAAGTAG	CC2
SMC16.T.AGCTCTCTCACGGTTA	CC2
SMC16.T.AGCTCTCTCATGTAGC	CC2
SMC16.T.AGCTTGAAGGCTAGAC	CC1
SMC16.T.AGCTTGACACCTCGGA	CC1
SMC16.T.AGCTTGAGTGAFTCAT	CC2
SMC16.T.AGCTTGAGTGTTAAGA	CC2
SMC16.T.AGCTTGATCTTCTGGC	CC2
SMC16.T.AGGCCACAGGCGATAC	CC2
SMC16.T.AGGCCACAGTAGCGGT	CC1

SMC16.T.AGGCCACCACAGGAGT	CC1
SMC16.T.AGGCCACCAGGGTACA	CC1
SMC16.T.AGGCCACCATCCTTGC	CC2
SMC16.T.AGGCCACGTAAACCTC	CC2
SMC16.T.AGGCCACGTGAAAGAG	CC2
SMC16.T.AGGCCACGTGTAAGTA	CC1
SMC16.T.AGGCCACTCCTGTAGA	CC1
SMC16.T.AGGCCGTCAGGCGATA	CC1
SMC16.T.AGGCCGTTTCATCTGTT	CC2
SMC16.T.AGGCCGTTCTGTTGAG	CC1
SMC16.T.AGGGAGTCACGAAATA	CC2
SMC16.T.AGGGAGTCATCCAACA	CC1
SMC16.T.AGGGAGTGTAACGCGA	CC2
SMC16.T.AGGGATGGTCAAAGAT	CC1
SMC16.T.AGGGATGGTCGCATCG	CC1
SMC16.T.AGGGATGGTGCAGACA	CC1
SMC16.T.AGGGATGTCAAGGTAA	CC2
SMC16.T.AGGGTGAAGAATTCCC	CC2
SMC16.T.AGGGTGACAGCGTCCA	CC2
SMC16.T.AGGGTGACATGTCGAT	CC1
SMC16.T.AGGGTGAGTCAGATAA	CC1
SMC16.T.AGGGTGATCCTAGAAC	CC2
SMC16.T.AGGTCATAGATGTGGC	CC1
SMC16.T.AGGTCATAGGATATAC	CC2
SMC16.T.AGGTCATAGGCTCATT	CC2
SMC16.T.AGGTCATAGGGTGTTG	CC2
SMC16.T.AGGTCATCACACTGCG	CC2
SMC16.T.AGGTCATCACAGCCCA	CC1
SMC16.T.AGGTCATCATGCCCGA	CC1
SMC16.T.AGGTCATGTATTACCG	CC1
SMC16.T.AGGTCATTCATGCTCC	CC1
SMC16.T.AGGTCATTCGCCCTTA	CC2
SMC16.T.AGGTCATTCTTTACAC	CC2
SMC16.T.AGGTCCGAGAGCCTAG	CC2
SMC16.T.AGGTCCGAGCGATCCC	CC2
SMC16.T.AGGTCCGAGGACGAAA	CC2
SMC16.T.AGGTCCGAGTAGATGT	CC1
SMC16.T.AGGTCCGCAGCATACT	CC1
SMC16.T.AGGTCCGGTCACTGGC	CC2
SMC16.T.AGGTCCGGTGCACTTA	CC1
SMC16.T.AGGTCCGGTTGTTTGG	CC2
SMC16.T.AGGTCCGTCTTGAGGT	CC1
SMC16.T.AGTAGTCAGAACTCGG	CC2
SMC16.T.AGTAGTCGTAGAGGAA	CC2
SMC16.T.AGTAGTCGTCAAGCGA	CC1
SMC16.T.AGTAGTCGTCTCTTTA	CC1
SMC16.T.AGTCTTTAGAGCTATA	CC2
SMC16.T.AGTCTTTAGGGTTCCC	CC1
SMC16.T.AGTCTTTCAGACGTAG	CC2
SMC16.T.AGTCTTTTCATGCTCC	CC1
SMC16.T.AGTGAGGAGGTCATCT	CC2
SMC16.T.AGTGAGGCAAAGCGGT	CC2
SMC16.T.AGTGAGGTCCTCAACC	CC1
SMC16.T.AGTGGGAAGAGCCCAA	CC1
SMC16.T.AGTGGGAAGTGGAGTC	CC1
SMC16.T.AGTGGGACAATGGACG	CC1
SMC16.T.AGTGGGACATTAGGCT	CC2
SMC16.T.AGTGGGAGTAGCTGCC	CC2

SMC16.T.AGTGGGAGTGCAGTAG	CC1
SMC16.T.AGTGGGATCACGAAGG	CC1
SMC16.T.AGTGGGATCTGAAAGA	CC1
SMC16.T.AGTGTCAAGGCTCAGA	CC1
SMC16.T.AGTGTCAGTCTAGCGC	CC2
SMC16.T.AGTGTCAGTCTGCCAG	CC2
SMC16.T.AGTGTCATCGGAAATA	CC2
SMC16.T.AGTGTCATCTTCATGT	CC2
SMC16.T.AGTTGGTCACAGCCCA	CC1
SMC16.T.AGTTGGTCACAGCGTC	CC1
SMC16.T.ATAACGCAGCTGGAAC	CC2
SMC16.T.ATAACGCAGGACATTA	CC1
SMC16.T.ATAACGCAGGAGCGTT	CC1
SMC16.T.ATAACGCGTGTTTCGAT	CC1
SMC16.T.ATAACGCGTTCAGGCC	CC2
SMC16.T.ATAACGCTCTACTCAT	CC1
SMC16.T.ATAAGAGAGAGGTACC	CC2
SMC16.T.ATAAGAGAGGCATGTG	CC2
SMC16.T.ATAAGAGCACCCATTC	CC2
SMC16.T.ATAAGAGCACGTCTCT	CC2
SMC16.T.ATAAGAGGTCCAAGTT	CC1
SMC16.T.ATAGACCAGATGGGTC	CC2
SMC16.T.ATAGACCAGCCGATTT	CC1
SMC16.T.ATAGACCAGTAGGTGC	CC1
SMC16.T.ATAGACCCAGGTCGTC	CC2
SMC16.T.ATCACGACATTGGGCC	CC2
SMC16.T.ATCACGAGTTATCGGT	CC1
SMC16.T.ATCACGATCAACACGT	CC2
SMC16.T.ATCACGATCAGCGATT	CC2
SMC16.T.ATCACGATCCAGTATG	CC2
SMC16.T.ATCACGATCTTACCGC	CC2
SMC16.T.ATCATCTAGCCAACAG	CC2
SMC16.T.ATCATCTAGTGCGATG	CC2
SMC16.T.ATCATCTGTATAGTAG	CC2
SMC16.T.ATCATCTTCGTAGGAG	CC2
SMC16.T.ATCATGGGTATAGTAG	CC2
SMC16.T.ATCATGGTCAGCTCGG	CC1
SMC16.T.ATCCACCAGACAAGCC	CC2
SMC16.T.ATCCACCAGAGGACGG	CC1
SMC16.T.ATCCACCAGATCCTGT	CC1
SMC16.T.ATCCACCAGGGCTTCC	CC2
SMC16.T.ATCCACCCACAGATTC	CC1
SMC16.T.ATCCACCCGTGCCTGCA	CC1
SMC16.T.ATCCACCCGTGTATGGG	CC2
SMC16.T.ATCCGAACACCATCCT	CC2
SMC16.T.ATCCGAACAGGCTCAC	CC1
SMC16.T.ATCCGAAGTCTTCAAG	CC1
SMC16.T.ATCCGAATCACAGGCC	CC1
SMC16.T.ATCCGAATCACAGGC	CC1
SMC16.T.ATCCGAATCCTCCTAG	CC1
SMC16.T.ATCCGAATCGTCCGTT	CC2
SMC16.T.ATCGAGTAGATCGATA	CC2
SMC16.T.ATCGAGTAGTGTACCT	CC1
SMC16.T.ATCGAGTCAGCTCCGA	CC1
SMC16.T.ATCGAGTCAGTAGAGC	CC2
SMC16.T.ATCGAGTGTTTCGGCAC	CC2
SMC16.T.ATCTACTACAAGACG	CC1
SMC16.T.ATCTACTACCAGATT	CC2

SMC16.T.ATCTACTGTTTCGTTGA	CC2
SMC16.T.ATCTGCCAGTTCCACA	CC1
SMC16.T.ATCTGCCCAAGTTAAG	CC1
SMC16.T.ATCTGCCCAGCGTCCA	CC1
SMC16.T.ATCTGCCCATATACGC	CC2
SMC16.T.ATCTGCCGTGTGCCTG	CC1
SMC16.T.ATCTGCCGTTACGGC	CC1
SMC16.T.ATCTGCCTCAGTTTGG	CC2
SMC16.T.ATCTGCCTCCAATGGT	CC2
SMC16.T.ATCTGCCTCTACGAGT	CC2
SMC16.T.ATCTGCCTCTTTAGGG	CC2
SMC16.T.ATGAGGGTCTGAACGGA	CC1
SMC16.T.ATGAGGGTCTCCCTGA	CC2
SMC16.T.ATGCGATAGTGGACGT	CC1
SMC16.T.ATGCGATCAATCAGAA	CC2
SMC16.T.ATGCGATCATGCTGGC	CC2
SMC16.T.ATGCGATGTACATCCA	CC1
SMC16.T.ATGCGATGTTAGGGTG	CC1
SMC16.T.ATGCGATTCTGTGCAA	CC1
SMC16.T.ATGCGATTCTTTCCTC	CC1
SMC16.T.ATGGGAGAGTGTTAGA	CC1
SMC16.T.ATGGGAGGTAGAGTGC	CC2
SMC16.T.ATGGGAGGTCTCAACA	CC2
SMC16.T.ATGGGAGTCCGCGTTT	CC2
SMC16.T.ATGGGAGTCTCTTGAT	CC1
SMC16.T.ATGTGTGAGTCTCCTC	CC1
SMC16.T.ATGTGTGCAGATTGCT	CC1
SMC16.T.ATGTGTGTGGACAAG	CC1
SMC16.T.ATGTGTGTCTCTGCTG	CC1
SMC16.T.ATTACTCAGCGTGAAC	CC2
SMC16.T.ATTACTCCAAACGCGA	CC1
SMC16.T.ATTACTCCAAAGAATC	CC1
SMC16.T.ATTACTCCAAGCCTAT	CC2
SMC16.T.ATTACTCCAGATGAGC	CC1
SMC16.T.ATTACTCCAGTACACT	CC2
SMC16.T.ATTACTCCATGGTCAT	CC2
SMC16.T.ATTACTCGTGCAGTAG	CC2
SMC16.T.ATTACTCGTGCTGTAT	CC2
SMC16.T.ATTACTCTCAACACAC	CC2
SMC16.T.ATTACTCTCACGCATA	CC2
SMC16.T.ATTACTCTCACTTACT	CC1
SMC16.T.ATTATCCAGGATGGTC	CC2
SMC16.T.ATTATCCGTAGAAGGA	CC1
SMC16.T.ATTATCCGTAGCGTCC	CC1
SMC16.T.ATTATCCGTTGTGGAG	CC2
SMC16.T.ATTATCCTCAGTACGT	CC1
SMC16.T.ATTATCCTCGTCTGAA	CC2
SMC16.T.ATTCTACAGCCCAGCT	CC1
SMC16.T.ATTCTACCACTTCGAA	CC2
SMC16.T.ATTCTACGTTAGAACA	CC2
SMC16.T.ATTCTACTCACATGCA	CC1
SMC16.T.ATTCTACTCAGAGCTT	CC2
SMC16.T.ATTCTACTCCAAGTAC	CC2
SMC16.T.ATTGGACCACATTTCT	CC2
SMC16.T.ATTGGACGTGATGTGG	CC1
SMC16.T.ATTGGACGTTACCTC	CC1
SMC16.T.ATTGGACTCACCTCA	CC2
SMC16.T.ATTGGTGAGCACAGGT	CC2

SMC16.T.ATTGGTGAGGCACATG	CC2
SMC16.T.ATTGGTGCAAGCCTAT	CC2
SMC16.T.ATTGGTGGAAGTGGC	CC2
SMC16.T.ATTGGTGGTTGGTAAA	CC2
SMC16.T.ATTGGTGGTTTGTGTG	CC2
SMC16.T.ATTGGTGTGAGTTGAC	CC2
SMC16.T.ATTTCTGAGGATCGCA	CC1
SMC16.T.ATTTCTGAGGCCATAG	CC1
SMC16.T.ATTTCTGCAGTCAGAG	CC2
SMC16.T.ATTTCTGCAGTTAACC	CC1
SMC16.T.ATTTCTGGTCAAACCTC	CC2
SMC16.T.ATTTCTGGTCTAGTGT	CC1
SMC16.T.ATTTCTGGTGCGAAAC	CC1
SMC16.T.ATTTCTGTCAATCACG	CC1
SMC16.T.CAACCAAAGAAGGCCT	CC1
SMC16.T.CAACCAAAGTGGGATC	CC1
SMC16.T.CAACCAAGTGGCTCCA	CC1
SMC16.T.CAACCTCCACCATCCT	CC2
SMC16.T.CAACCTCCAGCTGCAC	CC2
SMC16.T.CAACCTCGTCACACGC	CC2
SMC16.T.CAACCTCGTTAAGAAC	CC1
SMC16.T.CAACCTCTCTGCAAGT	CC2
SMC16.T.CAACTAGCACCGCTAG	CC1
SMC16.T.CAACTAGCACTTACGA	CC1
SMC16.T.CAACTAGGTAGTAGTA	CC2
SMC16.T.CAACTAGGTGGCTCCA	CC2
SMC16.T.CAACTAGTCCTTGACC	CC1
SMC16.T.CAAGAAAAGAGGTACC	CC2
SMC16.T.CAAGAAAAGAGTAATC	CC1
SMC16.T.CAAGAAACACAACGTT	CC1
SMC16.T.CAAGAAAGTCAGAATA	CC2
SMC16.T.CAAGAAAGTTGTACAC	CC1
SMC16.T.CAAGAAATCGTCTGCT	CC2
SMC16.T.CAAGATCCAAGGCTCC	CC2
SMC16.T.CAAGATCCACAAGTAA	CC2
SMC16.T.CAAGATCCACGAAACG	CC2
SMC16.T.CAAGATCGTAACGACG	CC1
SMC16.T.CAAGATCGTGTATGGG	CC1
SMC16.T.CAAGATCGTTCAGGCC	CC2
SMC16.T.CAAGGCCAGATGGCGT	CC2
SMC16.T.CAAGGCCCAAACCCAT	CC1
SMC16.T.CAAGGCCACGCATCG	CC2
SMC16.T.CAAGGCCACTAAGTC	CC2
SMC16.T.CAAGGCCGTATCGCAT	CC2
SMC16.T.CAAGGCCGTTCCACTC	CC2
SMC16.T.CAAGGCCTCCAGAGGA	CC2
SMC16.T.CAAGTTGAGACACTAA	CC1
SMC16.T.CAAGTTGAGAGCCCAA	CC1
SMC16.T.CAAGTTGAGTGACTCT	CC1
SMC16.T.CAAGTTGCAAAGGAAG	CC1
SMC16.T.CAAGTTGCATCCTAGA	CC1
SMC16.T.CAAGTTGGTTCGGCAC	CC2
SMC16.T.CAAGTTGTCCGCAAGC	CC1
SMC16.T.CAAGTTGTCTGAGTGT	CC1
SMC16.T.CAAGTTGTCTGCGACG	CC2
SMC16.T.CAAGTTGTCTTCATGT	CC2
SMC16.T.CACAAACAGGTGGGTT	CC1
SMC16.T.CACAAACAGTAGGCCA	CC1

SMC16.T.CACAAACCAATAAGCA	CC2
SMC16.T.CACAAACCAGGCAGTA	CC2
SMC16.T.CACAAACCATTTCACT	CC1
SMC16.T.CACAAACGTAATCACC	CC1
SMC16.T.CACAAACTCCGTCATC	CC2
SMC16.T.CACACAAAGACAGAGA	CC1
SMC16.T.CACACAACACGCATCG	CC2
SMC16.T.CACACAACACTTAACG	CC2
SMC16.T.CACACAACATCACAAC	CC1
SMC16.T.CACACAAGTAATCGTC	CC1
SMC16.T.CACACAATCGTCTGAA	CC1
SMC16.T.CACACCTAGTCCGTAT	CC1
SMC16.T.CACACCTCAGCAGTTT	CC1
SMC16.T.CACACCTCATGCGCAC	CC1
SMC16.T.CACACCTCATGGTCAT	CC2
SMC16.T.CACACCTGTTGTGGAG	CC1
SMC16.T.CACACTCGTTGTGGCC	CC1
SMC16.T.CACACTCTCCCGGATG	CC2
SMC16.T.CACACTCTCGAACTGT	CC2
SMC16.T.CACACTCTCTAAGCCA	CC1
SMC16.T.CACAGGCAGAAGGTGA	CC2
SMC16.T.CACAGGCAGCACCGCT	CC1
SMC16.T.CACAGGCAGGTGCTAG	CC1
SMC16.T.CACAGGCCACCATCCT	CC1
SMC16.T.CACAGGCCATGACATC	CC1
SMC16.T.CACAGGCCATGCCACG	CC2
SMC16.T.CACAGGCGTTGAACTC	CC2
SMC16.T.CACAGGCGTTTAGGAA	CC2
SMC16.T.CACAGGCTCACCGTAA	CC2
SMC16.T.CACAGGCTCACTCCTG	CC1
SMC16.T.CACAGTAAGCCGCCTA	CC2
SMC16.T.CACAGTAAGTGAAGTT	CC1
SMC16.T.CACAGTACACAACGTT	CC2
SMC16.T.CACAGTACACATCCGG	CC2
SMC16.T.CACAGTAGTAATCACC	CC2
SMC16.T.CACAGTAGTAGAGCTG	CC2
SMC16.T.CACAGTAGTCTAGTGT	CC2
SMC16.T.CACAGTATCCACGACG	CC2
SMC16.T.CACAGTATCCCTCAGT	CC2
SMC16.T.CACATAGAGGAGTTGC	CC2
SMC16.T.CACATAGAGGATTCGG	CC1
SMC16.T.CACATAGAGGGTCGAT	CC1
SMC16.T.CACATAGAGGTAAACT	CC2
SMC16.T.CACATAGCAATACGCT	CC2
SMC16.T.CACATAGGTATATGGA	CC1
SMC16.T.CACATAGGTCTAAAGA	CC2
SMC16.T.CACATAGGTGTTTGTG	CC1
SMC16.T.CACATAGGTTTGACTG	CC2
SMC16.T.CACATTTAGGGATACC	CC2
SMC16.T.CACATTTACGGATAG	CC2
SMC16.T.CACATTTACGGTAGA	CC1
SMC16.T.CACATTTGTTACTGAC	CC2
SMC16.T.CACATTTTCAGGTAAA	CC2
SMC16.T.CACCACTAGAGGGCTT	CC1
SMC16.T.CACCACTAGATGGCGT	CC1
SMC16.T.CACCACTAGGCATGGT	CC1
SMC16.T.CACCACTCAGGCGATA	CC2
SMC16.T.CACCACTGTATAGTAG	CC1

SMC16.T.CACCAGGAGCTACCTA	CC1
SMC16.T.CACCAGGGTGAGCGAT	CC1
SMC16.T.CACCTTGAGAACTCGG	CC2
SMC16.T.CACCTTGAGCAAATCA	CC2
SMC16.T.CACCTTGCAAGTCTGT	CC1
SMC16.T.CACCTTGACGCCAGT	CC2
SMC16.T.CACCTTGACGGAACGT	CC1
SMC16.T.CACCTTGCATGGGACA	CC2
SMC16.T.CACCTTGTCAAACCGT	CC2
SMC16.T.CACTCCAAGATAGGAG	CC2
SMC16.T.CACTCCAAGTTGAGAT	CC2
SMC16.T.CACTCCACAAGACGTG	CC1
SMC16.T.CACTCCACAAGAGTCG	CC1
SMC16.T.CACTCCATCTGGAGCC	CC1
SMC16.T.CAGAATCGTCCTAGCG	CC2
SMC16.T.CAGAATCGTTTGTGTG	CC1
SMC16.T.CAGAATCTCACATACG	CC2
SMC16.T.CAGAATCTCATGCAAC	CC1
SMC16.T.CAGAGAGAGTGAAGAG	CC1
SMC16.T.CAGAGAGCAATGGACG	CC2
SMC16.T.CAGAGAGCATATGGTC	CC1
SMC16.T.CAGAGAGGTAGATTAG	CC2
SMC16.T.CAGAGAGGTGGTTTCA	CC2
SMC16.T.CAGAGAGGTTTGACTG	CC2
SMC16.T.CAGAGAGTCCATTCTA	CC2
SMC16.T.CAGAGAGTCTTGCAAG	CC1
SMC16.T.CAGATCAAGATATACG	CC1
SMC16.T.CAGCAGCAGGGTGTTG	CC2
SMC16.T.CAGCAGCCAAGCGTAG	CC1
SMC16.T.CAGCAGCCATCATCCC	CC2
SMC16.T.CAGCAGCGTTGCGCAC	CC1
SMC16.T.CAGCATAGTACAAGTA	CC1
SMC16.T.CAGCATAGTGACGGTA	CC2
SMC16.T.CAGCATATCGTTGACA	CC1
SMC16.T.CAGCCGAAGGAGCGTT	CC1
SMC16.T.CAGCCGACAGCGTTCCG	CC1
SMC16.T.CAGCCGAGTCCTAGCG	CC2
SMC16.T.CAGCCGAGTGCGATAG	CC2
SMC16.T.CAGCCGATCACCGTAA	CC1
SMC16.T.CAGCCGATCATATCGG	CC2
SMC16.T.CAGCGACCATCACGAT	CC1
SMC16.T.CAGCGACGTACGAAAT	CC1
SMC16.T.CAGCGACGTCAGAGGT	CC2
SMC16.T.CAGCGACTCCCTTGTG	CC2
SMC16.T.CAGCTAACAATAAGCA	CC1
SMC16.T.CAGCTAAGTCACAAGG	CC2
SMC16.T.CAGCTAAGTTATCCGA	CC2
SMC16.T.CAGCTGGAGCGAAGGG	CC1
SMC16.T.CAGCTGGAGTCGCCGT	CC2
SMC16.T.CAGCTGGAGTTCGCAT	CC2
SMC16.T.CAGCTGGGTAAGGGCT	CC1
SMC16.T.CAGCTGGGTGATGTCT	CC1
SMC16.T.CAGCTGGTCTAACTTC	CC2
SMC16.T.CAGGTGCAGCGTTGCC	CC2
SMC16.T.CAGGTGCCAAGCGATG	CC2
SMC16.T.CAGGTGCCAGTAAGAT	CC2
SMC16.T.CAGGTGCCATCTACGA	CC2
SMC16.T.CAGGTGCGTGACGCCT	CC2

SMC16.T.CAGGTGCTCACTTACT	CC2
SMC16.T.CAGGTGCTCTGCTTGC	CC2
SMC16.T.CAGTAACTCATTGCCC	CC1
SMC16.T.CAGTAACTCCACTCCA	CC1
SMC16.T.CAGTAACTCCGTTGCT	CC1
SMC16.T.CAGTCCTCAGCTTAAC	CC2
SMC16.T.CAGTCCTCATAAAGGT	CC2
SMC16.T.CAGTCCTGTTGGTGGA	CC1
SMC16.T.CAGTCCTTCGCTTGTC	CC2
SMC16.T.CAGTCCTTCGTCTGCT	CC2
SMC16.T.CATATGGAGGTGACCA	CC2
SMC16.T.CATATGGAGTGTTAGA	CC2
SMC16.T.CATATGGTCTGAGGGA	CC2
SMC16.T.CATATTCAGGGTGTGT	CC2
SMC16.T.CATATTCATGCCTAA	CC1
SMC16.T.CATATTCGTA CT TCTT	CC2
SMC16.T.CATATTCCTCCAGAGGA	CC2
SMC16.T.CATCAAGAGCACGCCT	CC2
SMC16.T.CATCAAGAGCCTCGTG	CC2
SMC16.T.CATCAAGCACCTATC	CC1
SMC16.T.CATCAAGTCCTTAATC	CC2
SMC16.T.CATCAGAAGAGTACAT	CC2
SMC16.T.CATCAGAAGGTTCTTA	CC2
SMC16.T.CATCAGAAGTAGTGCG	CC1
SMC16.T.CATCAGACAGGATTGG	CC1
SMC16.T.CATCAGATCGGAGCAA	CC2
SMC16.T.CATCAGATCGGGAGTA	CC1
SMC16.T.CATCAGATCGTCACGG	CC2
SMC16.T.CATCAGATCTCACATT	CC1
SMC16.T.CATCAGATCTGAGTGT	CC2
SMC16.T.CATCCACGTCGGCTCA	CC2
SMC16.T.CATCCACGTTATCGGT	CC1
SMC16.T.CATCCACTCCGCAGTG	CC2
SMC16.T.CATCGAAAGGATGGAA	CC2
SMC16.T.CATCGAAAGTGTACGG	CC1
SMC16.T.CATCGAACAAAGCGGT	CC1
SMC16.T.CATCGGGCACAGAGGT	CC1
SMC16.T.CATCGGGGTAAGCACG	CC2
SMC16.T.CATCGGGGTAGAGTGC	CC1
SMC16.T.CATCGGGGTAGGGACT	CC2
SMC16.T.CATCGGGGTATAGGGC	CC2
SMC16.T.CATCGGGGTATGCTTG	CC1
SMC16.T.CATCGGGGTGTGACCC	CC1
SMC16.T.CATCGGGTCATCGCTC	CC1
SMC16.T.CATGACAAGAGCCTAG	CC2
SMC16.T.CATGACAAGCTTTGGT	CC2
SMC16.T.CATGACAAGTACATGA	CC2
SMC16.T.CATGACAGTGAGCGAT	CC2
SMC16.T.CATGACAGTTATCACG	CC2
SMC16.T.CATGACAGTTCGTGAT	CC2
SMC16.T.CATGACAGTTTGTGTG	CC1
SMC16.T.CATGACATCTGGTATG	CC2
SMC16.T.CATGCCTAGCTGCAAG	CC2
SMC16.T.CATGCCTAGGCAATTA	CC1
SMC16.T.CATGCCTAGTACGACG	CC1
SMC16.T.CATGCCTAGTGGTAGC	CC2
SMC16.T.CATGCCTAGTTGTAGA	CC2
SMC16.T.CATGCCTGTACGCACC	CC1

SMC16.T.CATGGCGAGGACTGGT	CC1
SMC16.T.CATGGCGAGGATGCGT	CC1
SMC16.T.CATGGCGAGGATGTAT	CC1
SMC16.T.CATGGCGAGGCAAAGA	CC2
SMC16.T.CATGGCGAGGCTAGCA	CC2
SMC16.T.CATGGCGAACGATGG	CC2
SMC16.T.CATGGCGTCAAGAAGT	CC2
SMC16.T.CATGGCGTCGTAGGTT	CC1
SMC16.T.CATGGCGTCGTCCAGG	CC1
SMC16.T.CATTATCAGTTGTCGT	CC2
SMC16.T.CATTATCCAATAGCGG	CC1
SMC16.T.CATTATCCATGCCACG	CC2
SMC16.T.CATTATCGTAGCTGCC	CC1
SMC16.T.CATTATCGTTTCCACC	CC2
SMC16.T.CATTATCTCTTGAGAC	CC1
SMC16.T.CATTCGCGTAGGGTAC	CC2
SMC16.T.CATTCGCTCAGCAACT	CC2
SMC16.T.CATTCGCTCTGGCGTG	CC2
SMC16.T.CCAATCCAGGCTAGAC	CC1
SMC16.T.CCAATCCAGTCAAGGC	CC2
SMC16.T.CCAATCCGTCCTAGCG	CC2
SMC16.T.CCAATCCGTTCCAGACT	CC1
SMC16.T.CCAATCCTCAATCACG	CC1
SMC16.T.CCAATCCTCATACGGT	CC1
SMC16.T.CCAATCCTCTGACCTC	CC1
SMC16.T.CCACCTAAGAGATGAG	CC2
SMC16.T.CCACCTAAGTACCGGA	CC1
SMC16.T.CCACCTAGTCAGTGGA	CC2
SMC16.T.CCACCTAGTCCCTTGT	CC1
SMC16.T.CCACCTATCATGGTCA	CC2
SMC16.T.CCACCTATCCTGTACC	CC1
SMC16.T.CCACCTATCCTTCAAT	CC2
SMC16.T.CCACGGAAGAGAGCTC	CC2
SMC16.T.CCACGGAAGGCATGGT	CC2
SMC16.T.CCACGGACAAGGTGTG	CC1
SMC16.T.CCACGGAGTTAGATGA	CC1
SMC16.T.CCACGGATCATCGATG	CC1
SMC16.T.CCACGGATCATCGCTC	CC2
SMC16.T.CCACTACCACGTTGGC	CC2
SMC16.T.CCACTACCAGACAGGT	CC2
SMC16.T.CCAGCGAGTACTCGCG	CC1
SMC16.T.CCAGCGAGTGTCTGAT	CC1
SMC16.T.CCAGCGATCGACAGCC	CC2
SMC16.T.CCATGTCCAAGCGCTC	CC2
SMC16.T.CCATGTCTAGTCA	CC2
SMC16.T.CCATGTCTCCCTGACT	CC1
SMC16.T.CCATGTCTCGGAAATA	CC2
SMC16.T.CCATTCGAGCGACGTA	CC1
SMC16.T.CCATTCGCATTGGTAC	CC2
SMC16.T.CCATTCGGTTAGAACA	CC1
SMC16.T.CCATTCGGTTCCACAA	CC2
SMC16.T.CCATTCGGTTCTGGTA	CC1
SMC16.T.CCATTCGTCTGGTGTA	CC2
SMC16.T.CCCAATCAGTGTGTTGC	CC1
SMC16.T.CCCAATCGTAATTGGA	CC2
SMC16.T.CCCAATCGTCCAGTTA	CC2
SMC16.T.CCCAATCGTCTAGGTT	CC2
SMC16.T.CCCAATCGTGTGGTTT	CC2

SMC16.T.CCCAATCTCATCGCTC	CC1
SMC16.T.CCCAGTTAGACTTTCG	CC1
SMC16.T.CCCAGTTAGATATACG	CC2
SMC16.T.CCCAGTTAGTGAAGTT	CC2
SMC16.T.CCCAGTTCAATGAATG	CC1
SMC16.T.CCCAGTTTCGCTTAGA	CC1
SMC16.T.CCCATACAGCGATGAC	CC2
SMC16.T.CCCATACAGGATTCGG	CC1
SMC16.T.CCCATACCAAATCCGT	CC2
SMC16.T.CCCTCCTAGCGATGAC	CC2
SMC16.T.CCCTCCTAGGGATGGG	CC1
SMC16.T.CCCTCCTCAAGGGTCA	CC1
SMC16.T.CCCTCCTCAGCTCGCA	CC1
SMC16.T.CCCTCCTTCTGCCAGG	CC2
SMC16.T.CCCTCCTTCTTCGAGA	CC2
SMC16.T.CCGGGATAGAGCTGGT	CC1
SMC16.T.CCGGGATCAGATGGGT	CC1
SMC16.T.CCGGGATCATACGCCG	CC1
SMC16.T.CCGGGATGTGGTTTCA	CC1
SMC16.T.CCGGGATTCAATACCG	CC2
SMC16.T.CCGGTAGAGCGAAGGG	CC1
SMC16.T.CCGGTAGAGTGTCCCG	CC2
SMC16.T.CCGGTAGGTGGTCCGT	CC2
SMC16.T.CCGGTAGTCACGATGT	CC2
SMC16.T.CCGGTAGTCAGTTGAC	CC2
SMC16.T.CCGGTAGTCTGTCCGT	CC1
SMC16.T.CCGTACTCAATTGCTG	CC1
SMC16.T.CCGTACTCACCAGTTA	CC1
SMC16.T.CCGTGGAGTACCCAAT	CC1
SMC16.T.CCGTGGATCAAGAAGT	CC2
SMC16.T.CCGTTCAAGAGAGCTC	CC2
SMC16.T.CCGTTCAAGGAGTACC	CC2
SMC16.T.CCGTTACAATAACGA	CC2
SMC16.T.CCGTTCAGTCTCTCGT	CC2
SMC16.T.CCGTTCAGTGGTCCGT	CC2
SMC16.T.CCGTTCATCTCGAGTA	CC2
SMC16.T.CCTAAAGCATCGGGTC	CC2
SMC16.T.CCTAAAGGTATTCGTG	CC2
SMC16.T.CCTAAAGGTCAAAGAT	CC2
SMC16.T.CCTAAAGGTCAGAGGT	CC1
SMC16.T.CCTAAAGGTTGGTTTG	CC1
SMC16.T.CCTAAAGTCTTACCGC	CC1
SMC16.T.CCTACACAGCTGCAAG	CC1
SMC16.T.CCTACACAGGATTCGG	CC2
SMC16.T.CCTACACCAATCTGCA	CC2
SMC16.T.CCTACACGTTCCGGCA	CC2
SMC16.T.CCTACACGTTGGTGGA	CC2
SMC16.T.CCTACCAAGATCTGCT	CC2
SMC16.T.CCTACCAAGGTGCAAC	CC2
SMC16.T.CCTACCACAAGAGTCG	CC2
SMC16.T.CCTACCACAGGTGCCT	CC1
SMC16.T.CCTACCATCAGCTGGC	CC1
SMC16.T.CCTACCATCCTACAGA	CC2
SMC16.T.CCTACCATCGCCTGAG	CC2
SMC16.T.CCTAGCTCACAACGCC	CC2
SMC16.T.CCTATTAAGCAGGTCA	CC1
SMC16.T.CCTATTAAGCGGCTTC	CC2
SMC16.T.CCTATTAAGTACGTTT	CC1

SMC16.T.CCTATTACAGCCTTTC	CC2
SMC16.T.CCTATTACAGGAATGC	CC1
SMC16.T.CCTATTAGTGCTGTAT	CC2
SMC16.T.CCTATTAGTTGGACCC	CC2
SMC16.T.CCTATTATCAACCATG	CC1
SMC16.T.CCTATTATCCTTTACA	CC1
SMC16.T.CCTCAGTAGAAACGCC	CC2
SMC16.T.CCTCAGTGTACAGTGG	CC2
SMC16.T.CCTCAGTGTGGAACAG	CC1
SMC16.T.CCTCAGTGTTAGTGGG	CC1
SMC16.T.CCTCTGAAGAAGCCCA	CC1
SMC16.T.CCTCTGAAGTAGGCCA	CC1
SMC16.T.CCTCTGACACATCCAA	CC1
SMC16.T.CCTCTGACATGGTAGG	CC2
SMC16.T.CCTCTGAGTACGCACC	CC1
SMC16.T.CCTTACGAGGCATGGT	CC1
SMC16.T.CCTTACGAGTCCGGTC	CC1
SMC16.T.CCTTACGCATCCAACA	CC1
SMC16.T.CCTTACGGTCAATGTC	CC2
SMC16.T.CCTTACGGTCTTCTCG	CC1
SMC16.T.CCTTACGTCAATCTCT	CC2
SMC16.T.CCTTCCCAGACACGAC	CC2
SMC16.T.CCTTCCCAGGATGCGT	CC1
SMC16.T.CCTTCCCCACCATGTA	CC2
SMC16.T.CCTTCCCGTCAAAGAT	CC2
SMC16.T.CCTTCCCGTGAAAGAG	CC1
SMC16.T.CCTTCCCGTTGCGGCT	CC2
SMC16.T.CCTTCCCTCCTTTACA	CC2
SMC16.T.CCTTCCCTCTGGTGTA	CC1
SMC16.T.CCTTCGAAGTACTTGC	CC2
SMC16.T.CCTTCGAGTAGAGGAA	CC2
SMC16.T.CCTTCGATCGGTGTCG	CC1
SMC16.T.CCTTTCTCAGACACTT	CC1
SMC16.T.CCTTTCTTCAAAGTAG	CC2
SMC16.T.CCTTTCTTCTTAATC	CC2
SMC16.T.CCTTTCTTCTCGGACG	CC1
SMC16.T.CGAACATAGCCAGTTT	CC2
SMC16.T.CGAACATCAGCCTTGG	CC2
SMC16.T.CGAACATCAGGGATTG	CC2
SMC16.T.CGAACATCATGTAAGA	CC2
SMC16.T.CGAACATGTAATAGCA	CC2
SMC16.T.CGAACATTCACCTTAT	CC1
SMC16.T.CGAACATTCTGTCAAG	CC2
SMC16.T.CGAATGTAGAGTAAGG	CC2
SMC16.T.CGAATGTAGGGAGTAA	CC2
SMC16.T.CGAATGTCATGTAAGA	CC2
SMC16.T.CGAATGTGTGCCTGTG	CC2
SMC16.T.CGAATGTGTGTCGCTG	CC2
SMC16.T.CGAATGTGTTGACTG	CC1
SMC16.T.CGAATGTTGAGGTAG	CC2
SMC16.T.CGACCTTAGAAACCAT	CC2
SMC16.T.CGACCTTCAGACAAAT	CC1
SMC16.T.CGACCTTCATACAGCT	CC1
SMC16.T.CGACTTCAGGCATGGT	CC1
SMC16.T.CGACTTCAGGCATGTG	CC2
SMC16.T.CGACTTCAGTTTCCTT	CC1
SMC16.T.CGACTTCCACATGTGT	CC1
SMC16.T.CGACTTCCAGTAAGAT	CC2

SMC16.T.CGACTTCTCCTAGTGA	CC2
SMC16.T.CGAGAAGAGATGGCGT	CC2
SMC16.T.CGAGAAGCAAGCCCAC	CC1
SMC16.T.CGAGAAGGTCATGCAT	CC1
SMC16.T.CGAGAAGGTCCAAGTT	CC1
SMC16.T.CGAGAAGTCAAAGACA	CC2
SMC16.T.CGAGAAGTCGGCCGAT	CC1
SMC16.T.CGAGCACAGGACAGCT	CC1
SMC16.T.CGAGCACGTTACCAGT	CC1
SMC16.T.CGAGCACTCCTACAGA	CC2
SMC16.T.CGAGCCAAGCGTAGTG	CC1
SMC16.T.CGAGCCAAGTAACCCT	CC2
SMC16.T.CGAGCCAAGTCAAGGC	CC1
SMC16.T.CGAGCCAAGTTACGGG	CC1
SMC16.T.CGAGCCAGTAGCTAAA	CC1
SMC16.T.CGAGCCAGTGAGTGAC	CC1
SMC16.T.CGAGCCATCCAACCAA	CC1
SMC16.T.CGAGCCATCTGGGCCA	CC1
SMC16.T.CGAGCCATCTTGACGA	CC2
SMC16.T.CGATCGGCATCAGTCA	CC1
SMC16.T.CGATCGGCATTAGCCA	CC2
SMC16.T.CGATCGGGTGTGTGCC	CC1
SMC16.T.CGATCGGTCCTTGCCA	CC1
SMC16.T.CGATGGCCACTCGACG	CC2
SMC16.T.CGATGGCGTACCATCA	CC2
SMC16.T.CGATGGCGTATAGGGC	CC2
SMC16.T.CGATGGCTCTGCTGTC	CC2
SMC16.T.CGATGTAAGAGCTGGT	CC2
SMC16.T.CGATGTAGTCGAGATG	CC2
SMC16.T.CGATGTATCACTTACT	CC2
SMC16.T.CGATGTATCATATCGG	CC2
SMC16.T.CGATGTATCCACGAAT	CC1
SMC16.T.CGATGTATCTGAAAGA	CC2
SMC16.T.CGATTGAAGGAGTTGC	CC1
SMC16.T.CGATTGAAGGCTAGAC	CC2
SMC16.T.CGATTGACATGGTCAT	CC2
SMC16.T.CGATTGACATGTTCCC	CC2
SMC16.T.CGATTGAGTAAGGGAA	CC2
SMC16.T.CGATTGAGTACTTCTT	CC1
SMC16.T.CGATTGAGTTGCTCCT	CC2
SMC16.T.CGATTGATCACGGTTA	CC1
SMC16.T.CGATTGATCTTAGAGC	CC2
SMC16.T.CGCCAAGAGCAATATG	CC2
SMC16.T.CGCCAAGCACAAAGACG	CC1
SMC16.T.CGCCAAGCAGCTTCGG	CC2
SMC16.T.CGCCAAGCATCGACGC	CC2
SMC16.T.CGCCAAGGTACTTCTT	CC2
SMC16.T.CGCCAAGGTCAAATC	CC2
SMC16.T.CGCCAAGGTCCTGCTT	CC2
SMC16.T.CGCCAAGGTTGCTAA	CC2
SMC16.T.CGCCAAGTCGAGCCCA	CC2
SMC16.T.CGCGGTACATCTATGG	CC2
SMC16.T.CGCGGTAGTAAGTAGT	CC2
SMC16.T.CGCGGTAGTAGGCTGA	CC2
SMC16.T.CGCGGTAGTCGTGGCT	CC2
SMC16.T.CGCGGTATCTTGCAAG	CC2
SMC16.T.CGCGTTTAGACACGAC	CC1
SMC16.T.CGCGTTTAGTCAAGCG	CC1

SMC16.T.CGCGTTTAGTTAGCGG	CC1
SMC16.T.CGCGTTTCAATGGAGC	CC2
SMC16.T.CGCGTTTCACCATCCT	CC2
SMC16.T.CGCGTTTCATTGGCGC	CC1
SMC16.T.CGCGTTTGTCTTGTC	CC2
SMC16.T.CGCGTTTGTTCGCTAA	CC2
SMC16.T.CGCGTTTTAGCTGGC	CC2
SMC16.T.CGCGTTTTCTGAGTGT	CC1
SMC16.T.CGCTATCAGAGCTTCT	CC2
SMC16.T.CGCTATCAGGGCTCTC	CC2
SMC16.T.CGCTATCAGTGACTCT	CC2
SMC16.T.CGCTATCCATCCGTGG	CC2
SMC16.T.CGCTATCGTACGACCC	CC2
SMC16.T.CGCTATCGTCGCCATG	CC2
SMC16.T.CGCTATCGTCTGATTG	CC2
SMC16.T.CGCTATCTCGCGATCG	CC2
SMC16.T.CGCTATCTCTGAAAGA	CC2
SMC16.T.CGCTGGACAAGTCTGT	CC1
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SMC16.T.CGCTGGACAGTATCTG	CC1
SMC16.T.CGCTGGACATCCCATC	CC1
SMC16.T.CGCTGGATCACCATAG	CC1
SMC16.T.CGCTGGATCCCATTAT	CC2
SMC16.T.CGCTGGATCCTTGCCA	CC1
SMC16.T.CGCTTCAAGACATAAC	CC2
SMC16.T.CGCTTACACGACTCG	CC2
SMC16.T.CGCTTCATCAGTACGT	CC1
SMC16.T.CGGACACAGATCACGG	CC1
SMC16.T.CGGACACAGCCAGTAG	CC2
SMC16.T.CGGACACAGGACATTA	CC2
SMC16.T.CGGACACCACGTAAGG	CC2
SMC16.T.CGGACACCACTATCTT	CC1
SMC16.T.CGGACACCATGCTGGC	CC2
SMC16.T.CGGACACCATTCTCG	CC1
SMC16.T.CGGACGTCACCTCGTT	CC1
SMC16.T.CGGACGTCAGGAACGT	CC2
SMC16.T.CGGACGTCAGGACCCT	CC1
SMC16.T.CGGACGTTAGAACAA	CC1
SMC16.T.CGGACGTTCAAGTGTG	CC1
SMC16.T.CGGACGTTCAATTTGGG	CC2
SMC16.T.CGGACGTTCTAACCGA	CC2
SMC16.T.CGGACGTTCTCTAAGG	CC1
SMC16.T.CGGACTGAGCCACCTG	CC1
SMC16.T.CGGACTGAGCTAACTC	CC1
SMC16.T.CGGACTGAGTGAATTG	CC2
SMC16.T.CGGACTGCAGCTGTAT	CC2
SMC16.T.CGGACTGTCGTTGCCT	CC2
SMC16.T.CGGAGCTAGACAAGCC	CC2
SMC16.T.CGGAGCTAGCCAGAAC	CC1
SMC16.T.CGGAGCTAGCTTCGCG	CC2
SMC16.T.CGGAGCTAGGCTACGA	CC2
SMC16.T.CGGAGCTAGTGCCAGA	CC2
SMC16.T.CGGAGCTCACACGCTG	CC2
SMC16.T.CGGAGCTCATGGTTGT	CC2
SMC16.T.CGGAGCTGTACCGCTG	CC2
SMC16.T.CGGAGCTGTCTCTTTA	CC2
SMC16.T.CGGAGCTGTTATCGGT	CC1
SMC16.T.CGGAGCTTCATGTCTT	CC1

SMC16.T.CGGAGTCAGAGGTTAT	CC2
SMC16.T.CGGAGTCAGTAGGTGC	CC2
SMC16.T.CGGAGTCCACGAAAGC	CC1
SMC16.T.CGGAGTCGTGCCTTGG	CC2
SMC16.T.CGGAGTCTCCGCGGTA	CC2
SMC16.T.CGGAGTCTCGATGAGG	CC2
SMC16.T.CGGAGTCTCGTCTGAA	CC2
SMC16.T.CGGAGTCTCTAACTCT	CC2
SMC16.T.CGGCTAGAGTTCGCAT	CC1
SMC16.T.CGGCTAGCAAGCGATG	CC1
SMC16.T.CGGCTAGCAATCTGCA	CC1
SMC16.T.CGGCTAGGTCATACTG	CC1
SMC16.T.CGGCTAGGTCTGGAGA	CC1
SMC16.T.CGGCTAGTCCTCCTAG	CC2
SMC16.T.CGGGTCAAGTGCTGCC	CC2
SMC16.T.CGGGTCAAGTGGGCTA	CC1
SMC16.T.CGGGTCAAGTGTACGG	CC2
SMC16.T.CGGGTCAAGTCTAAAGA	CC2
SMC16.T.CGGGTCACTAGAGTC	CC1
SMC16.T.CGGGTCACTTATCTG	CC2
SMC16.T.CGGTTAAAGAGACTTA	CC1
SMC16.T.CGGTTAAAGCTGCAAG	CC2
SMC16.T.CGGTTAAAGGTAAACT	CC2
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SMC16.T.CGGTTAAGTCGACTGC	CC2
SMC16.T.CGGTTAAGTTGTGGAG	CC1
SMC16.T.CGTAGCGAGAGGTTGC	CC1
SMC16.T.CGTAGCGCAGGAATCG	CC1
SMC16.T.CGTAGCGGTAACGCGA	CC2
SMC16.T.CGTAGCGGTACTTAGC	CC1
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SMC16.T.CGTAGCGTCGTTTGCC	CC1
SMC16.T.CGTAGGCAGCAGATCG	CC1
SMC16.T.CGTAGGCAGGCTATCT	CC1
SMC16.T.CGTAGGCCATGCAATC	CC1
SMC16.T.CGTAGGCGTACCGTTA	CC2
SMC16.T.CGTAGGCGTCTGGTCG	CC2
SMC16.T.CGTAGGCTCAAGCCTA	CC2
SMC16.T.CGTCACTCAGCGAACA	CC1
SMC16.T.CGTCACTTCATGTCCC	CC1
SMC16.T.CGTCACTTCTATCGCC	CC2
SMC16.T.CGTCAGGAGACTTGAA	CC2
SMC16.T.CGTCAGGAGCGATTCT	CC2
SMC16.T.CGTCAGGGTTGTCGCG	CC2
SMC16.T.CGTCAGGTCAAGCCTA	CC1
SMC16.T.CGTCAGGTCCTGCCAT	CC1
SMC16.T.CGTCCATAGCTACCGC	CC1
SMC16.T.CGTCCATAGGAGCGAG	CC1
SMC16.T.CGTCCATAGTCCATAC	CC2
SMC16.T.CGTCCATCAAGACGTG	CC2
SMC16.T.CGTCCATCACCTATCC	CC2
SMC16.T.CGTCCATTCAAACTG	CC2
SMC16.T.CGTCCATTCCACGACG	CC2
SMC16.T.CGTCTACAGCAGGTCA	CC1
SMC16.T.CGTCTACAGTTCGCGC	CC2
SMC16.T.CGTCTACGTGCCTGTG	CC2
SMC16.T.CGTGAGCCAATGGATA	CC2

SMC16.T.CGTGAGCCACAACGCC	CC1
SMC16.T.CGTGAGCGTACACCGC	CC2
SMC16.T.CGTGAGCGTACGACCC	CC1
SMC16.T.CGTGAGCGTTCCGGCA	CC2
SMC16.T.CGTGAGCTCAGGCGAA	CC2
SMC16.T.CGTGTAACACAGGAGT	CC1
SMC16.T.CGTGTAACACTTACGA	CC2
SMC16.T.CGTGTAATCACCAGGC	CC2
SMC16.T.CGTGTCTAGTGGAGTC	CC2
SMC16.T.CGTGTCTCAGTCGTGC	CC2
SMC16.T.CGTGTCTCATTCTCG	CC1
SMC16.T.CGTGTCTGTTACGACT	CC2
SMC16.T.CGTGTCTTCCTTGCCA	CC1
SMC16.T.CGTTAGAAGCGATATA	CC1
SMC16.T.CGTTAGACAGCGTAAG	CC1
SMC16.T.CGTTAGAGTCCAGTTA	CC1
SMC16.T.CGTTAGATCATCACCC	CC2
SMC16.T.CGTTAGATCTCAAACG	CC1
SMC16.T.CGTTCTGAGCGATGAC	CC2
SMC16.T.CGTTCTGAGCGTCTAT	CC1
SMC16.T.CGTTCTGCAGCTGCAC	CC2
SMC16.T.CGTTCTGCAGTCAGCC	CC1
SMC16.T.CGTTCTGGTACAGACG	CC1
SMC16.T.CTAACTTAGCTGCGAA	CC2
SMC16.T.CTAACTTGTGATGATA	CC2
SMC16.T.CTAACTTGTGTGAAAT	CC2
SMC16.T.CTAACTTTCACGCGGT	CC2
SMC16.T.CTAAGACAGAGACTAT	CC2
SMC16.T.CTAAGACAGATGCCTT	CC2
SMC16.T.CTAAGACAGGCGCTCT	CC2
SMC16.T.CTAAGACCAATCGGTT	CC2
SMC16.T.CTAAGACGTGCAGGTA	CC1
SMC16.T.CTAAGACTCGCGATCG	CC2
SMC16.T.CTAATGGAGGCCCTCA	CC2
SMC16.T.CTAATGGAGGGTTCCC	CC2
SMC16.T.CTAATGGCACAAGTAA	CC2
SMC16.T.CTAATGGCAGACGCCT	CC2
SMC16.T.CTAATGGGTAGCGCAA	CC1
SMC16.T.CTAATGGGTAGGCTGA	CC2
SMC16.T.CTAATGGGTGGGTATG	CC2
SMC16.T.CTAATGGTCGCTGATA	CC2
SMC16.T.CTAATGGTCGGATGGA	CC1
SMC16.T.CTACACCAGGCCCGTT	CC1
SMC16.T.CTACACCAGTAGCGGT	CC2
SMC16.T.CTACACCAGTATTGGA	CC1
SMC16.T.CTACACCAGTTAAGTG	CC1
SMC16.T.CTACACCCAGTCAGAG	CC1
SMC16.T.CTACACCGTGAGGCTA	CC2
SMC16.T.CTACACCGTGTGCCTG	CC2
SMC16.T.CTACACCTCATACGGT	CC2
SMC16.T.CTACATTCAGCTGGCT	CC1
SMC16.T.CTACATTCATGCTAGT	CC2
SMC16.T.CTACATTGTATGAATG	CC2
SMC16.T.CTACATTGTCCGTTAA	CC2
SMC16.T.CTACATTGTTACGACT	CC2
SMC16.T.CTACATTTCCATGAGT	CC1
SMC16.T.CTACATTTCTGTTGAG	CC2
SMC16.T.CTACCCAAGAACAACCT	CC2

SMC16.T.CTACCCAAGTATCTCG	CC2
SMC16.T.CTACCCACAAAGTGCG	CC1
SMC16.T.CTACCCACACACCGAC	CC2
SMC16.T.CTACCCACAGACGCTC	CC2
SMC16.T.CTACCCAGTAGCCTCG	CC1
SMC16.T.CTACCCAGTATTACCG	CC2
SMC16.T.CTACCCAGTCCCTACT	CC2
SMC16.T.CTACCCATCACGAAGG	CC1
SMC16.T.CTACGTCAGGGTGTTG	CC2
SMC16.T.CTACGTCAGGTGTGGT	CC2
SMC16.T.CTACGTCCACGCTTTC	CC2
SMC16.T.CTACGTCCATTTGCC	CC2
SMC16.T.CTACGTGTTGTTGAT	CC2
SMC16.T.CTACGTGTTGATTG	CC2
SMC16.T.CTAGAGTAGATGTGGC	CC1
SMC16.T.CTAGAGTAGGATTCGG	CC1
SMC16.T.CTAGAGTAGGGTGTTG	CC1
SMC16.T.CTAGAGTAGTGTGAA	CC2
SMC16.T.CTAGAGTGAAATGAC	CC2
SMC16.T.CTAGAGTGTCGGGTCT	CC2
SMC16.T.CTAGAGTGTGATTG	CC2
SMC16.T.CTAGAGTGTGTTTGG	CC1
SMC16.T.CTAGAGTTCTCCTATA	CC2
SMC16.T.CTAGCCTAGACGCACA	CC2
SMC16.T.CTAGCCTAGTGCGATG	CC1
SMC16.T.CTAGCCTCAACGATGG	CC2
SMC16.T.CTAGCCTGTTCAAGTAC	CC2
SMC16.T.CTAGTGAAGAAGGGTA	CC1
SMC16.T.CTAGTGAAGATCACGG	CC2
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SMC16.T.CTAGTGAGTCTGCGGT	CC2
SMC16.T.CTCACACAGTGAACAT	CC1
SMC16.T.CTCACACCATTTCAGG	CC2
SMC16.T.CTCACACGTATGGTTC	CC2
SMC16.T.CTCACACGTGTAAGTA	CC1
SMC16.T.CTCACACTCAGTTGAC	CC1
SMC16.T.CTCACACTCGAATCCA	CC2
SMC16.T.CTCAGAAAGCGGATCA	CC2
SMC16.T.CTCAGAACAGTGGGAT	CC2
SMC16.T.CTCAGAAGTGCACGAA	CC1
SMC16.T.CTCAGAATCCTGCAGG	CC1
SMC16.T.CTCATTAAGTACATGA	CC1
SMC16.T.CTCATTAGTAAACCTC	CC2
SMC16.T.CTCATTAGTCCAAGTT	CC1
SMC16.T.CTCATTAGTCTAACGT	CC2
SMC16.T.CTCATTAGTCTAGCCG	CC2
SMC16.T.CTCATTAGTCTAGCGC	CC2
SMC16.T.CTCATTAGTGTATGGG	CC2
SMC16.T.CTCATTAGTTATGCGT	CC2
SMC16.T.CTCATTATCGTACCGG	CC1
SMC16.T.CTCCTAGAGCTGATAA	CC2
SMC16.T.CTCCTAGGTCTAAAGA	CC1
SMC16.T.CTCCTAGTCAAAGTAG	CC2
SMC16.T.CTCCTAGTCCGGGTGT	CC2
SMC16.T.CTCGAGGAGGGTGTGT	CC1
SMC16.T.CTCGAGGGTCACTTCC	CC1
SMC16.T.CTCGAGGTCGCATGAT	CC1

SMC16.T.CTCGGAGAGACGCACA	CC1
SMC16.T.CTCGGAGAGACTGTAA	CC2
SMC16.T.CTCGGAGCACTGAAGG	CC2
SMC16.T.CTCGGAGCATGGTCAT	CC2
SMC16.T.CTCGGGACAGGATTGG	CC1
SMC16.T.CTCGGGACAGGTGGAT	CC1
SMC16.T.CTCGGGACATCACGTA	CC2
SMC16.T.CTCGGGAGTCGTGGCT	CC1
SMC16.T.CTCGTACAGCTAGCCC	CC2
SMC16.T.CTCGTACAGGTGTGGT	CC1
SMC16.T.CTCGTACCAGGCAGTA	CC2
SMC16.T.CTCGTACTCTTGACGA	CC1
SMC16.T.CTCGTACAGTAGAGGAA	CC2
SMC16.T.CTCGTACAGTCCCGACA	CC1
SMC16.T.CTCGTACAGTACTCAT	CC1
SMC16.T.CTCGTACATCAGCACAT	CC2
SMC16.T.CTCGTACATCGAGGTAG	CC1
SMC16.T.CTCGTACATCGTGGTCG	CC2
SMC16.T.CTCGTACATCTGGTGTA	CC1
SMC16.T.CTCTAATAGATGCCTT	CC2
SMC16.T.CTCTAATAGGTGGGTT	CC1
SMC16.T.CTCTAATCAGGTGGAT	CC2
SMC16.T.CTCTAATGTACAGCAG	CC2
SMC16.T.CTCTAATGTACCGCTG	CC1
SMC16.T.CTCTAATGTCTCCCTA	CC2
SMC16.T.CTCTAATTCAACCAAC	CC2
SMC16.T.CTCTAATTCAAGTTCGA	CC2
SMC16.T.CTCTAATTCTGCCAGG	CC2
SMC16.T.CTCTACGCAAGACACG	CC2
SMC16.T.CTCTACGTCTGGTTCG	CC1
SMC16.T.CTCTGGTAGGTGATTA	CC2
SMC16.T.CTCTGGTCAGGATCGA	CC2
SMC16.T.CTCTGGTGTCCATGAT	CC2
SMC16.T.CTCTGGTTTCGCCATAA	CC2
SMC16.T.CTGAAACAGAACAAC	CC2
SMC16.T.CTGAAACAGGGTGTGT	CC2
SMC16.T.CTGAAACAGGTTCGGAT	CC2
SMC16.T.CTGAAACAGGTGCTAG	CC2
SMC16.T.CTGAAACCAAAGAATC	CC2
SMC16.T.CTGAAACGTAACAAC	CC2
SMC16.T.CTGAAGTAGTCATCCA	CC2
SMC16.T.CTGAAGGTAGCGCTC	CC1
SMC16.T.CTGAAGTTCAAGGCTT	CC1
SMC16.T.CTGAAGTTTCGTCTGCT	CC2
SMC16.T.CTGATAGAGAGACTTA	CC1
SMC16.T.CTGATAGAGTGAACGC	CC2
SMC16.T.CTGATAGCATTGGTAC	CC2
SMC16.T.CTGATAGGTAAACGCG	CC1
SMC16.T.CTGATAGTCACCTTAT	CC1
SMC16.T.CTGATAGTCACGGTTA	CC2
SMC16.T.CTGATAGTCCACGCAG	CC1
SMC16.T.CTGATAGTTCGAACGGA	CC1
SMC16.T.CTGATAGTCTATCCTA	CC2
SMC16.T.CTGATCCAGTCCCACG	CC2
SMC16.T.CTGATCCCACAAGCCC	CC2
SMC16.T.CTGATCCCACCCTATC	CC1
SMC16.T.CTGATCCGTAGGACAC	CC2
SMC16.T.CTGATCCGTGTGCGTC	CC1

SMC16.T.CTGATCCTCACATGCA	CC1
SMC16.T.CTGATCCTCACTGGGC	CC1
SMC16.T.CTGATCCTCCAGAAGG	CC1
SMC16.T.CTGATCCTCTTTACGT	CC2
SMC16.T.CTGCCTAAGATAGCAT	CC2
SMC16.T.CTGCCTAAGGCAAAGA	CC1
SMC16.T.CTGCCTACATTGAGCT	CC1
SMC16.T.CTGCCTATCAGGATCT	CC1
SMC16.T.CTGCGGAAGAGGACGG	CC2
SMC16.T.CTGCGGAAGGGTATCG	CC2
SMC16.T.CTGCGGATCGCAAACCT	CC1
SMC16.T.CTGCTGTAGTGAACGC	CC1
SMC16.T.CTGCTGTCAAGCCGCT	CC2
SMC16.T.CTGCTGTCACAGCGTC	CC2
SMC16.T.CTGCTGTGTCGGCTCA	CC2
SMC16.T.CTGCTGTTCACTCCTG	CC1
SMC16.T.CTGGTCTCACCGAAAG	CC2
SMC16.T.CTGGTCTCAGCGTTCG	CC2
SMC16.T.CTGGTCTCATCTCCCA	CC1
SMC16.T.CTGGTCTTCATCACCC	CC1
SMC16.T.CTGTGCTCACATTCGA	CC2
SMC16.T.CTGTGCTGTAAGTGTA	CC1
SMC16.T.CTGTGCTGTGAAAGAG	CC1
SMC16.T.CTGTGCTTCAGCACAT	CC1
SMC16.T.CTGTGCTTCCTCGCAT	CC1
SMC16.T.CTGTGCTTCGGAGGTA	CC1
SMC16.T.CTGTGCTTCGTGGACC	CC2
SMC16.T.CTGTGCTTCGTTGACA	CC1
SMC16.T.CTGTGCTTCGTTTAGG	CC2
SMC16.T.CTGTTTAAGCAATCTC	CC2
SMC16.T.CTGTTTATCAGAAATG	CC1
SMC16.T.CTGTTTATCATACGGT	CC2
SMC16.T.CTTAACTCATTACCTT	CC2
SMC16.T.CTTAACTGTTTAGGAA	CC1
SMC16.T.CTTAACTTCACATAGC	CC2
SMC16.T.CTTAACTTCCATGCTC	CC2
SMC16.T.CTTACCGCATCCTAGA	CC1
SMC16.T.CTTACCGCATTCTGC	CC2
SMC16.T.CTTAGGACAATAGAGT	CC2
SMC16.T.CTTAGGAGTTATCGGT	CC2
SMC16.T.CTTCTCTAGCCAGTAG	CC1
SMC16.T.CTTCTCTCAAAGGTGC	CC1
SMC16.T.CTTCTCTCAAGAGGCT	CC1
SMC16.T.CTTCTCTCACAAGACG	CC2
SMC16.T.CTTCTCTCACAAGCCC	CC1
SMC16.T.CTTCTCTCAGGTTTCA	CC1
SMC16.T.CTTCTCTCATCTACGA	CC1
SMC16.T.CTTCTCTGTGGCCCTA	CC2
SMC16.T.CTTCTCTGTTATCCGA	CC1
SMC16.T.CTTGGCTAGACCCACC	CC2
SMC16.T.CTTGGCTAGCGGATCA	CC1
SMC16.T.CTTGGCTAGTAGCCGA	CC1
SMC16.T.CTTGGCTAGTCAAGGC	CC1
SMC16.T.CTTGGCTAGTCATCCA	CC2
SMC16.T.CTTGGCTAGTGTACTC	CC2
SMC16.T.CTTGGCTAGTTGTCGT	CC1
SMC16.T.CTTGGCTCAAGAAAGG	CC2
SMC16.T.CTTGGCTCACAGACAG	CC2

SMC16.T.CTTGGCTCAGGCTGAA	CC1
SMC16.T.CTTGGCTCATGCTAGT	CC2
SMC16.T.CTTGGCTGTCAACTGT	CC1
SMC16.T.CTTTGCGAGCTGCGAA	CC1
SMC16.T.CTTTGCGAGGCTCATT	CC1
SMC16.T.CTTTGCGCAAGCGCTC	CC1
SMC16.T.CTTTGCGCATTCTTAC	CC1
SMC16.T.CTTTGCGGTCCAGTGC	CC2
SMC16.T.CTTTGCGTCAAACCGT	CC2
SMC16.T.CTTTGCGTCCTATGTT	CC1
SMC16.T.CTTTGCGTCCTGCCAT	CC1
SMC16.T.GAAACTCAGTAGGTGC	CC1
SMC16.T.GAAACTCCAGCAGTTT	CC2
SMC16.T.GAAACTCCAGTCTTCC	CC2
SMC16.T.GAAACTCGTCCAACTA	CC1
SMC16.T.GAAACTCGTCCGAACC	CC1
SMC16.T.GAAACTCTCCGCGCAA	CC1
SMC16.T.GAAACTCTCCGTCAAA	CC2
SMC16.T.GAAATGACAAGACGTG	CC1
SMC16.T.GAACATCAGTGCTGCC	CC2
SMC16.T.GAACATCCAAATACAG	CC2
SMC16.T.GAACATCCACCTCGTT	CC2
SMC16.T.GAACATCCACTGAAGG	CC1
SMC16.T.GAACATCTCCACGACG	CC1
SMC16.T.GAACATCTCTGACCTC	CC2
SMC16.T.GAACCTAAGCCCAATT	CC2
SMC16.T.GAACCTAAGTAGCCGA	CC2
SMC16.T.GAACCTACACGGTAGA	CC1
SMC16.T.GAACCTACACGGTGTC	CC1
SMC16.T.GAACCTAGTCATCCCT	CC1
SMC16.T.GAACCTAGTGCAGGTA	CC2
SMC16.T.GAACCTAGTGCGAAAC	CC2
SMC16.T.GAACCTAGTGGCGAAT	CC2
SMC16.T.GAACCTAGTTACGACT	CC2
SMC16.T.GAACCTATCTGTCCGT	CC2
SMC16.T.GAACGGACAAGTCTAC	CC2
SMC16.T.GAACGGACAGACACTT	CC2
SMC16.T.GAACGGAGTCCATGAT	CC2
SMC16.T.GAACGGAGTGAGGGAG	CC2
SMC16.T.GAACGGAGTGCGCTTG	CC1
SMC16.T.GAACGGAGTTAAAGAC	CC2
SMC16.T.GAAGCAGAGACACGAC	CC1
SMC16.T.GAAGCAGAGAGGTACC	CC1
SMC16.T.GAAGCAGAGGCTATCT	CC2
SMC16.T.GAAGCAGAGGGTTCCC	CC1
SMC16.T.GAAGCAGGTCAAGCGA	CC2
SMC16.T.GAAGCAGGTTCGGGCT	CC1
SMC16.T.GAATAAGAGTGTTGAA	CC2
SMC16.T.GAATAAGAGTTGCAGG	CC2
SMC16.T.GAATAAGCAAGGCTCC	CC1
SMC16.T.GAATAAGCAAGTCTAC	CC1
SMC16.T.GAATAAGGTAATCGTC	CC1
SMC16.T.GAATAAGGTTAAGACA	CC2
SMC16.T.GAATAAGTCACATGCA	CC1
SMC16.T.GAATAAGTCATTATCC	CC1
SMC16.T.GAATGAAAGAGGTTAT	CC1
SMC16.T.GAATGAAAGTACGACG	CC1
SMC16.T.GAATGAACAGACAGGT	CC1

SMC16.T.GAATGAACAGATGGCA	CC2
SMC16.T.GAATGAACAGCTTCGG	CC1
SMC16.T.GAATGAACATGATCCA	CC2
SMC16.T.GAATGAAGTCAGAAGC	CC2
SMC16.T.GAATGAAGTGCCTTGG	CC2
SMC16.T.GAATGAATCCAACCAA	CC2
SMC16.T.GAATGAATCTGGTATG	CC1
SMC16.T.GACACGCAGGCATGTG	CC2
SMC16.T.GACACGCAGGGAACGG	CC2
SMC16.T.GACACGCCAGCTGTGC	CC2
SMC16.T.GACACGCGTACCGTAT	CC1
SMC16.T.GACACGCGTATGCTTG	CC2
SMC16.T.GACACGCGTCGGCTCA	CC2
SMC16.T.GACACGCGTGATGCCC	CC2
SMC16.T.GACACGCGTTGTCTTT	CC1
SMC16.T.GACACGCTCACATAGC	CC1
SMC16.T.GACACGCTCACCAGGC	CC2
SMC16.T.GACAGAGAGAAGAAGC	CC2
SMC16.T.GACAGAGAGCCGATTT	CC2
SMC16.T.GACAGAGCATAACCTG	CC2
SMC16.T.GACAGAGCATGCCTAA	CC1
SMC16.T.GACAGAGGTCTAACGT	CC2
SMC16.T.GACAGAGGTGCAGACA	CC1
SMC16.T.GACAGAGGTTTCGTTGA	CC1
SMC16.T.GACCAATCACAGACTT	CC2
SMC16.T.GACCAATCATGTAGTC	CC2
SMC16.T.GACCAATTCACCTCGT	CC2
SMC16.T.GACCAATTCTTCTGGC	CC2
SMC16.T.GACCAATTCTTTCCTC	CC2
SMC16.T.GACCTGGCAAGTAATG	CC2
SMC16.T.GACCTGGCATAACGCCG	CC2
SMC16.T.GACCTGGTCGGTGTTA	CC1
SMC16.T.GACCTGGTCTTGCCGT	CC2
SMC16.T.GACGCGTAGCACAGGT	CC2
SMC16.T.GACGCGTCAAGTTGTC	CC1
SMC16.T.GACGCGTCATTAACCG	CC1
SMC16.T.GACGCGTGTGCTTCTC	CC2
SMC16.T.GACGCGTGTGGACGAT	CC2
SMC16.T.GACGCGTTCACCATAG	CC2
SMC16.T.GACGCGTTCGCGACTT	CC1
SMC16.T.GACGGCTAGGGTGTTG	CC2
SMC16.T.GACGGCTCACACGCTG	CC1
SMC16.T.GACGGCTCATGCCTTC	CC2
SMC16.T.GACGGCTTCCAACCAA	CC1
SMC16.T.GACGGCTTCGAGCCCA	CC1
SMC16.T.GACGGCTTCTACCAGA	CC1
SMC16.T.GACGTGCAGCCTCGTG	CC1
SMC16.T.GACGTGCCAGATAATG	CC1
SMC16.T.GACGTGCCATCTCGCT	CC2
SMC16.T.GACGTGCGTAGAAGGA	CC2
SMC16.T.GACGTGCGTGCGATAG	CC2
SMC16.T.GACGTGCTCAGAGACG	CC1
SMC16.T.GACGTTAAGCCCTAAT	CC1
SMC16.T.GACGTTAAGGATGCGT	CC1
SMC16.T.GACGTTACAATAGCAA	CC2
SMC16.T.GACGTTACACAGACAG	CC1
SMC16.T.GACGTTACACATGACT	CC1
SMC16.T.GACGTTAGTTACGGAG	CC2

SMC16.T.GACGTTATCTGTTGAG	CC1
SMC16.T.GACTAACAGATCCCGC	CC1
SMC16.T.GACTAACAGCGAGAAA	CC2
SMC16.T.GACTAACTCAGCCTAA	CC1
SMC16.T.GACTAACTCGTGGTCG	CC1
SMC16.T.GACTAACTCTGTTTGT	CC2
SMC16.T.GACTACACACCAGCAC	CC2
SMC16.T.GACTACACATGCCTAA	CC1
SMC16.T.GACTACAGTACTTAGC	CC2
SMC16.T.GACTACAGTCAGTGGA	CC2
SMC16.T.GACTACATCAGAAATG	CC1
SMC16.T.GACTACATCTATCCTA	CC1
SMC16.T.GACTACATCTTCCTTC	CC1
SMC16.T.GACTGCGAGCCACGTC	CC1
SMC16.T.GACTGCGAGTAGGTGC	CC2
SMC16.T.GACTGCGAGTCCAGGA	CC1
SMC16.T.GACTGCGCAATCGAAA	CC1
SMC16.T.GACTGCGCAATGACCT	CC1
SMC16.T.GACTGCGGTTCGCATCG	CC1
SMC16.T.GACTGCGGTGAGGGTT	CC1
SMC16.T.GACTGCGGTGGACGAT	CC2
SMC16.T.GACTGCGTCCAGATCA	CC2
SMC16.T.GACTGCGTCGCGGATC	CC2
SMC16.T.GAGCAGACACTCAGGC	CC2
SMC16.T.GAGCAGATCCTATGTT	CC2
SMC16.T.GAGCAGATCTAACGGT	CC1
SMC16.T.GAGGTGAAGAGTGAGA	CC2
SMC16.T.GAGGTGAAGCACGCCT	CC2
SMC16.T.GAGGTGAAGTGTGGCA	CC2
SMC16.T.GAGGTGACAGCCAGAA	CC2
SMC16.T.GAGGTGACAGGGTTAG	CC2
SMC16.T.GAGGTGACATAGGATA	CC2
SMC16.T.GAGGTGAGTAAGTGTA	CC2
SMC16.T.GAGTCCGCAGTCACTA	CC2
SMC16.T.GAGTCCGTACATGCA	CC2
SMC16.T.GAGTCCGTCCCGACTT	CC1
SMC16.T.GAGTCCGTCTCGTATT	CC1
SMC16.T.GATCAGTGTTAGGGTG	CC1
SMC16.T.GATCAGTTCTCGCTTG	CC1
SMC16.T.GATCGATAGGATGGTC	CC2
SMC16.T.GATCGATCAACTGGCC	CC2
SMC16.T.GATCGATCACATTTCT	CC2
SMC16.T.GATCGATGTCTAACGT	CC2
SMC16.T.GATCGATGTCTAGAGG	CC1
SMC16.T.GATCGATGTTATGTGC	CC1
SMC16.T.GATCGATGTTGTACAC	CC2
SMC16.T.GATCGCGAGAAACCAT	CC1
SMC16.T.GATCGCGAGACCTTTG	CC2
SMC16.T.GATCGCGCACGAAGCA	CC1
SMC16.T.GATCGCGCACGAGGTA	CC1
SMC16.T.GATCGCGCAGCATACT	CC1
SMC16.T.GATCGCGGTCATATCG	CC2
SMC16.T.GATCGCGGTCGAGATG	CC2
SMC16.T.GATCGTAAGTCAATAG	CC1
SMC16.T.GATCGTAAGTTGTAGA	CC2
SMC16.T.GATCGTACAAAGCGGT	CC1
SMC16.T.GATCGTACAGCTCGAC	CC1
SMC16.T.GATCGTAGTATGGTTC	CC2

SMC16.T.GATCGTAGTGAAGGCT	CC1
SMC16.T.GATCTAGAGCAACGGT	CC2
SMC16.T.GATCTAGAGCAGGTCA	CC2
SMC16.T.GATCTAGCAAATCCGT	CC1
SMC16.T.GATCTAGCAATAAGCA	CC2
SMC16.T.GATGAAAAGTACGTTC	CC2
SMC16.T.GATGAAACAAAGCAAT	CC1
SMC16.T.GATGAAACATCTATGG	CC2
SMC16.T.GATGAAATCAAACGGG	CC1
SMC16.T.GATGAAATCGCCGTGA	CC2
SMC16.T.GATGAGGAGCGTCTAT	CC2
SMC16.T.GATGAGGAGCGTGAAC	CC2
SMC16.T.GATGAGGCACGAAATA	CC2
SMC16.T.GATGAGGCATTATCTC	CC2
SMC16.T.GATGAGGGTCGCTTTC	CC2
SMC16.T.GATGAGGTCGCCTGTT	CC1
SMC16.T.GATGAGGTCGTGGACC	CC1
SMC16.T.GATGCTAAGACAAGCC	CC2
SMC16.T.GATGCTAAGTCGTA	CC2
SMC16.T.GATGCTAGTACAAGTA	CC1
SMC16.T.GATGCTAGTCCAGTGC	CC1
SMC16.T.GATGCTAGTTAAAGAC	CC1
SMC16.T.GATTCAGAGCGCTTAT	CC1
SMC16.T.GATTCAGCATTGTGCA	CC2
SMC16.T.GATTCAGGTAAGGATT	CC2
SMC16.T.GATTCAGGTCTAAACC	CC2
SMC16.T.GATTCAGGTGCTAGCC	CC2
SMC16.T.GATTCAGTCAGCTTAG	CC2
SMC16.T.GATTCAGTCATCTGTT	CC2
SMC16.T.GATTCAGTCGATGAGG	CC1
SMC16.T.GATTCAGTCTAAGCCA	CC2
SMC16.T.GCAAACACTAGAAGATTC	CC2
SMC16.T.GCAAACACTAGGGTCTCC	CC1
SMC16.T.GCAAACACTCAGAGTGTG	CC1
SMC16.T.GCAAACACTGTAAACCTC	CC1
SMC16.T.GCAAACACTGTCTTCAAG	CC1
SMC16.T.GCAATCACATGCTAGT	CC2
SMC16.T.GCAATCAGTAAGGATT	CC2
SMC16.T.GCAATCAGTACCCAAT	CC2
SMC16.T.GCAATCAGTAGAGGAA	CC1
SMC16.T.GCAATCAGTGTTAAGA	CC2
SMC16.T.GCACATAAGCCACGTC	CC2
SMC16.T.GCACATAACAAGCCCAC	CC1
SMC16.T.GCACATACAGACGTAG	CC2
SMC16.T.GCACATATCGCTGATA	CC2
SMC16.T.GCACATATCGGATGGA	CC1
SMC16.T.GCACTCTCAGAGTGTG	CC2
SMC16.T.GCACTCTCAGATGGGT	CC2
SMC16.T.GCACTCTGTACACGCG	CC2
SMC16.T.GCACTCTGTGGTCCGT	CC1
SMC16.T.GCACTCTTCGTTACGA	CC1
SMC16.T.GCAGCCACAAAGTGCG	CC2
SMC16.T.GCAGCCACAATAGCAA	CC2
SMC16.T.GCAGCCACAATGCCAT	CC1
SMC16.T.GCAGCCACACCCATGG	CC1
SMC16.T.GCAGCCACAGGACCCT	CC1
SMC16.T.GCAGCCACAGGATTGG	CC2
SMC16.T.GCAGCCACAGTCGATT	CC2

SMC16.T.GCAGCCAGTAACG TTC	CC1
SMC16.T.GCAGCCAGTCACTGGC	CC1
SMC16.T.GCAGCCAGTCCTGCTT	CC1
SMC16.T.GCAGCCATCACATACG	CC1
SMC16.T.GCAGCCATCTGAGGGA	CC2
SMC16.T.GCAGTTAAGTAGATGT	CC1
SMC16.T.GCAGTTAGTCACACGC	CC1
SMC16.T.GCAGTTATCCTAAGTG	CC2
SMC16.T.GCATAACAAGTCGTACT	CC1
SMC16.T.GCATAACAATGAAAC	CC2
SMC16.T.GCATAACATTCTTAC	CC1
SMC16.T.GCATAACAGTTCCGTCT	CC1
SMC16.T.GCATGATAGCCAGTTT	CC1
SMC16.T.GCATGATCAAGAGGCT	CC2
SMC16.T.GCATGATCACAACGCC	CC2
SMC16.T.GCATGATGTCTCGTTC	CC2
SMC16.T.GCATGATTCACAAACC	CC1
SMC16.T.GCATGATTCACTTATC	CC1
SMC16.T.GCATGCGAGAGTCTGG	CC1
SMC16.T.GCATGCGTCTCTGAGA	CC1
SMC16.T.GCATGTAAGCGATATA	CC1
SMC16.T.GCATGTACATCTGGTA	CC1
SMC16.T.GCATGTAGTCGCGGTT	CC2
SMC16.T.GCCAAATAGGCTCTTA	CC2
SMC16.T.GCCAAATCAGCTCCGA	CC2
SMC16.T.GCCAAATGTTACCGAT	CC2
SMC16.T.GCCAAATTCACTCCTG	CC2
SMC16.T.GCCAAATTCAGCGATT	CC2
SMC16.T.GCCTCTAAGCACAGGT	CC2
SMC16.T.GCCTCTACAAATCCGT	CC1
SMC16.T.GCCTCTACACGAAATA	CC1
SMC16.T.GCCTCTACAGACGCCT	CC2
SMC16.T.GCCTCTACAGCCTTTC	CC2
SMC16.T.GCCTCTACATGCCACG	CC1
SMC16.T.GCCTCTACATGGGAAC	CC1
SMC16.T.GCCTCTAGTGCCTGCA	CC2
SMC16.T.GCCTCTATCACCTCA	CC2
SMC16.T.GCCTCTATCAGCTGGC	CC1
SMC16.T.GCGACCAAGGTGCACA	CC1
SMC16.T.GCGACCAAGTGCAAGC	CC2
SMC16.T.GCGACCACAGTCGTGC	CC1
SMC16.T.GCGACCACATCCTAGA	CC1
SMC16.T.GCGACCACATTCCTGC	CC1
SMC16.T.GCGACCAGTAGCGATG	CC1
SMC16.T.GCGACCAGTAGCTCCG	CC1
SMC16.T.GCGACCATCCGTTGCT	CC1
SMC16.T.GCGACCATCGCCTGAG	CC1
SMC16.T.GCGAGAAAGTCATGCT	CC2
SMC16.T.GCGAGAAAGTTATCGC	CC1
SMC16.T.GCGAGAACAGATCTGT	CC1
SMC16.T.GCGAGAACAGGAATCG	CC2
SMC16.T.GCGAGAAAGTTGTACAC	CC2
SMC16.T.GCGAGAAATCCCTCAGT	CC1
SMC16.T.GCGCAACAGGCGATAC	CC1
SMC16.T.GCGCAACAGGTGGGTT	CC2
SMC16.T.GCGCAACCAATAGAGT	CC1
SMC16.T.GCGCAACGTAAGTAGT	CC1
SMC16.T.GCGCAACTCAACGCTA	CC2

SMC16.T.GCGCAACTCAAGAAGT	CC1
SMC16.T.GCGCAGTAGACCTAGG	CC1
SMC16.T.GCGCAGTCACCGAATT	CC1
SMC16.T.GCGCAGTCAGCTTAAC	CC2
SMC16.T.GCGCAGTCATACTCTT	CC2
SMC16.T.GCGCAGTGTCTGATTG	CC2
SMC16.T.GCGCAGTGTGTTTGG	CC1
SMC16.T.GCGCAGTTCCCAAGTA	CC2
SMC16.T.GCGCAGTTCCTCAGT	CC1
SMC16.T.GCGCAGTTCCTAGGC	CC2
SMC16.T.GCGCAGTTCGATGAGG	CC1
SMC16.T.GCGCAGTTCCTCGGTT	CC2
SMC16.T.GCGCCAAAGGCTCAGA	CC2
SMC16.T.GCGCCAAAGTCTCCTC	CC1
SMC16.T.GCGCCAACACACGCTG	CC1
SMC16.T.GCGCCAATCATCATTC	CC2
SMC16.T.GCGCGATAGCTAGCCC	CC2
SMC16.T.GCGCGATCAGCCTGTG	CC1
SMC16.T.GCGCGATGTGAGGGTT	CC2
SMC16.T.GCGCGATTCAGGTAAA	CC1
SMC16.T.GCGCGATTCAGAAGG	CC1
SMC16.T.GCGGGTTAGATATGCA	CC2
SMC16.T.GCGGGTTGTCCGTCAG	CC1
SMC16.T.GCGGGTTGTGACCAAG	CC1
SMC16.T.GCGGGTTGTAGGGTG	CC2
SMC16.T.GCGGGTTTCGAATGGG	CC2
SMC16.T.GCGGGTTTCGTACGGC	CC1
SMC16.T.GCTCCTAAGTTTCCTT	CC1
SMC16.T.GCTCCTACAAACCTAC	CC2
SMC16.T.GCTCCTACAGACTCGC	CC1
SMC16.T.GCTCCTAGTCTGCCAG	CC2
SMC16.T.GCTCCTAGTTCCAACA	CC2
SMC16.T.GCTCCTATCAGTTCGA	CC1
SMC16.T.GCTCCTATCGCCGTGA	CC2
SMC16.T.GCTCTGTAGGGTTTCT	CC1
SMC16.T.GCTCTGTACCCTATC	CC1
SMC16.T.GCTCTGTGAGCTTAAC	CC2
SMC16.T.GCTCTGTGATGTTCCC	CC1
SMC16.T.GCTCTGTGTTGGTCAA	CC1
SMC16.T.GCTGCAGAGAAGGTGA	CC2
SMC16.T.GCTGCAGCAAAGCAAT	CC1
SMC16.T.GCTGCAGGTCGAATCT	CC1
SMC16.T.GCTGCGAAGAATGTGT	CC1
SMC16.T.GCTGCGATCGGCGCTA	CC2
SMC16.T.GCTGCTTAGGGCTTCC	CC2
SMC16.T.GCTGCTTAGTGATCGG	CC1
SMC16.T.GCTGCTTCAAACAACA	CC2
SMC16.T.GCTGCTTCATCACGAT	CC2
SMC16.T.GCTGCTTGTTACGCGC	CC2
SMC16.T.GCTGCTTTCAGATAAG	CC2
SMC16.T.GCTGCTTTCCTATGTT	CC2
SMC16.T.GCTGCTTTCGGCTACG	CC2
SMC16.T.GCTGCTTTCCTCGGTT	CC1
SMC16.T.GCTGGGTCACACGCTG	CC2
SMC16.T.GCTGGGTCACATCTTT	CC1
SMC16.T.GCTGGGTGTGCGCTTG	CC2
SMC16.T.GCTGGGTGTTATTCTC	CC2
SMC16.T.GCTGGGTTCCTAGGGC	CC2

SMC16.T.GCTTCCAAGGCATGTG	CC1
SMC16.T.GCTTCCACACGTGAGA	CC2
SMC16.T.GCTTCCACAGCTCGAC	CC2
SMC16.T.GCTTCCATCATATCGG	CC1
SMC16.T.GCTTGAAGAAACGCC	CC1
SMC16.T.GCTTGAACATCGACGC	CC2
SMC16.T.GCTTGAAGTAGCAAAT	CC1
SMC16.T.GCTTGAAGTGACGCCT	CC2
SMC16.T.GGAAAGCAGGACCACA	CC1
SMC16.T.GGAAAGCAGGACGAAA	CC1
SMC16.T.GGAAAGCGTAGAGGAA	CC1
SMC16.T.GGAAAGCGTCGTCTTC	CC1
SMC16.T.GGAAAGCGTGCGCTTG	CC1
SMC16.T.GGAAAGCGTTTACTCT	CC2
SMC16.T.GGAAAGCTCTGCAAGT	CC1
SMC16.T.GGAACTTAGTTCGCGC	CC2
SMC16.T.GGAACTTCAAAGCAAT	CC1
SMC16.T.GGAACTTTCAATCTCT	CC2
SMC16.T.GGAATAAAGCCTTGAT	CC2
SMC16.T.GGAATAACATGCCTAA	CC2
SMC16.T.GGAATAAGTCCTGCTT	CC2
SMC16.T.GGAATAAGTTACGTCA	CC1
SMC16.T.GGAATAAGTTGAGTTC	CC2
SMC16.T.GGACAAGAGCGATAGC	CC1
SMC16.T.GGACAAGCATGCCTAA	CC2
SMC16.T.GGACAAGTCAGTTAGC	CC1
SMC16.T.GGACAGAAGTGTTGAA	CC1
SMC16.T.GGACAGACAAGGTGTG	CC2
SMC16.T.GGACAGAGTCTCTCTG	CC2
SMC16.T.GGACAGAGTGCCTGTG	CC2
SMC16.T.GGACAGAGTGTAAACGG	CC2
SMC16.T.GGACATTAGGGATACC	CC1
SMC16.T.GGACATTAGGGTCTCC	CC2
SMC16.T.GGACATTAGTCCGGTC	CC2
SMC16.T.GGACATTAGTGAAGTT	CC1
SMC16.T.GGACATTCACTAAGTC	CC2
SMC16.T.GGACATTGTGCGGTGT	CC2
SMC16.T.GGACATTGTGCGCTTG	CC1
SMC16.T.GGACATTTCAGGCCCA	CC1
SMC16.T.GGACATTTCTGTAGA	CC2
SMC16.T.GGACGTCAGCGATATA	CC2
SMC16.T.GGACGTCAGGTGCACA	CC2
SMC16.T.GGACGTCTCATCGCTC	CC1
SMC16.T.GGACGTCTCTGGCGAC	CC1
SMC16.T.GGAGCAACAGGACCCT	CC2
SMC16.T.GGAGCAAGTTCTGGTA	CC2
SMC16.T.GGAGCAATCAACACCA	CC2
SMC16.T.GGAGCAATCCAAGCCG	CC1
SMC16.T.GGAGCAATCCCGACTT	CC1
SMC16.T.GGAGCAATCCGCGGTA	CC1
SMC16.T.GGAGCAATCTTTAGTC	CC1
SMC16.T.GGATGTTAGAGTCTGG	CC2
SMC16.T.GGATGTTAGCTCCTTC	CC2
SMC16.T.GGATGTTCAATGAATG	CC2
SMC16.T.GGATGTTCAACTGT	CC2
SMC16.T.GGATGTTCATGTTCCC	CC1
SMC16.T.GGATGTTGTCTGGAGA	CC2
SMC16.T.GGATGTTGTGGTTTCA	CC2

SMC16.T.GGATGTTGTTATCGGT	CC2
SMC16.T.GGATGTTTCTCCAGGG	CC1
SMC16.T.GGATTACAGCGTCTAT	CC1
SMC16.T.GGATTACGTCGGCACT	CC1
SMC16.T.GGATTACTCGCGTTTC	CC1
SMC16.T.GGCAATTAGACTGGGT	CC2
SMC16.T.GGCAATTAGGATGGAA	CC2
SMC16.T.GGCAATTCATAGACTC	CC2
SMC16.T.GGCAATTGTGTGTGCC	CC2
SMC16.T.GGCAATTGTTCGTCTC	CC2
SMC16.T.GGCAATTTCTATTCA	CC1
SMC16.T.GGCAATTTGAGAACG	CC1
SMC16.T.GGCAATTTCTTCAACT	CC1
SMC16.T.GGCCGATAGCCGATTT	CC1
SMC16.T.GGCCGATCAAGTCTAC	CC1
SMC16.T.GGCCGATCAAGTTCTG	CC2
SMC16.T.GGCCGATCAGTGGAGT	CC2
SMC16.T.GGCCGATGTCGCATCG	CC1
SMC16.T.GGCGACTAGAAAGTGG	CC1
SMC16.T.GGCGACTAGAATCTCC	CC2
SMC16.T.GGCGACTAGACAAAGG	CC2
SMC16.T.GGCGACTAGCCTATGT	CC2
SMC16.T.GGCGACTGTCCGAAGA	CC1
SMC16.T.GGCGACTGTCGTGGCT	CC1
SMC16.T.GGCGACTTCTAACTTC	CC2
SMC16.T.GGCGACTTCTGCCAGG	CC1
SMC16.T.GGCGTGTCACTACAGT	CC1
SMC16.T.GGCGTGTGACGCTCCA	CC1
SMC16.T.GGCGTGTGAGTCTTC	CC2
SMC16.T.GGCGTGTGTAAGAGGA	CC2
SMC16.T.GGCGTGTGTATAGGGC	CC2
SMC16.T.GGCTCGAAGCTAAGAT	CC2
SMC16.T.GGCTCGAAGTCTCAAC	CC2
SMC16.T.GGCTCGACACTATCTT	CC2
SMC16.T.GGCTCGACACTTAAGC	CC1
SMC16.T.GGCTCGACATCCGCGA	CC2
SMC16.T.GGCTCGACATCCTAGA	CC2
SMC16.T.GGCTCGAGTACAGACG	CC2
SMC16.T.GGCTCGAGTGAGCGAT	CC1
SMC16.T.GGCTCGAGTTACGGAG	CC1
SMC16.T.GGCTCGATCACAGGCC	CC1
SMC16.T.GGCTCGATCCTCTAGC	CC2
SMC16.T.GGCTCGATCGATAGAA	CC1
SMC16.T.GGCTCGATCGAAACT	CC2
SMC16.T.GGCTGGTAGGGATCTG	CC1
SMC16.T.GGCTGGTCAAAGCAAT	CC2
SMC16.T.GGCTGGTCATTAGGCT	CC1
SMC16.T.GGCTGGTTCAACACAC	CC1
SMC16.T.GGGAATGAGAACAATC	CC2
SMC16.T.GGGAATGAGATCGATA	CC2
SMC16.T.GGGAATGGTCAGAAGC	CC1
SMC16.T.GGGAATGTCAGCGATT	CC1
SMC16.T.GGGAATGTCGCCAAAT	CC2
SMC16.T.GGGACCTAGGCTCTTA	CC2
SMC16.T.GGGACCTAGGTGTTAA	CC2
SMC16.T.GGGACCTCAGTGGAGT	CC2
SMC16.T.GGGACCTGTATAGGTA	CC2
SMC16.T.GGGACCTGTCCGAACC	CC2

SMC16.T.GGGACCTGTGTGAATA	CC2
SMC16.T.GGGACCTGTTGCGCAC	CC1
SMC16.T.GGGAGATAGAGTCTGG	CC2
SMC16.T.GGGAGATCACAGAGGT	CC1
SMC16.T.GGGAGATCATAGGATA	CC2
SMC16.T.GGGAGATGTTCAAGT	CC2
SMC16.T.GGGAGATTCAGTTTGG	CC1
SMC16.T.GGGAGATTCGCATGAT	CC1
SMC16.T.GGGATGAAGTCAAGGC	CC2
SMC16.T.GGGATGACAATCTGCA	CC1
SMC16.T.GGGATGATCCAAGTAC	CC2
SMC16.T.GGGATGATCCCTAACC	CC2
SMC16.T.GGGATGATCCTCGCAT	CC2
SMC16.T.GGGATGATCGCGTAGC	CC1
SMC16.T.GGGATGATCTCGTATT	CC2
SMC16.T.GGGATGATCTTTAGGG	CC1
SMC16.T.GGGCACTAGACTCGGA	CC1
SMC16.T.GGGCACTAGCGTGAAC	CC1
SMC16.T.GGGCACTAGGGTTTCT	CC2
SMC16.T.GGGCACTAGGTGTTAA	CC2
SMC16.T.GGGCACTACTCGACG	CC2
SMC16.T.GGGCACTCAGACACTT	CC2
SMC16.T.GGGCACTCAGGGCATA	CC1
SMC16.T.GGGCACTCATACTCTT	CC2
SMC16.T.GGGCACTGTGTGGCTC	CC2
SMC16.T.GGGCACTGTTCCACTC	CC2
SMC16.T.GGGCACTTCACTCCTG	CC1
SMC16.T.GGGCACTTCGGCTACG	CC1
SMC16.T.GGGCATCCACAAGTGT	CC1
SMC16.T.GGGCATCCATGAAGTA	CC1
SMC16.T.GGGCATCTCAGTTCGA	CC2
SMC16.T.GGGCATCTTGTACT	CC2
SMC16.T.GGGTCTGAGGCGTACA	CC2
SMC16.T.GGGTCTGAGGCTCTTA	CC2
SMC16.T.GGGTCTGAGTGTACTC	CC2
SMC16.T.GGGTCTGGTCAATGTC	CC2
SMC16.T.GGGTCTGTCAATTATCC	CC2
SMC16.T.GGGTCTGTGCAATGCT	CC1
SMC16.T.GGGTCTGTCTGAGTGT	CC1
SMC16.T.GGGTTGCAGTTAACGA	CC1
SMC16.T.GGGTTGCGTAGGGACT	CC1
SMC16.T.GGTATTGAGACTAAGT	CC1
SMC16.T.GGTATTGCAAAGAATC	CC2
SMC16.T.GGTATTGCACCGATAT	CC1
SMC16.T.GGTATTGCACCGCTAG	CC1
SMC16.T.GGTATTGCACGGTGTC	CC2
SMC16.T.GGTATTGGTAGCGCTC	CC1
SMC16.T.GGTATTGGTCGGCTCA	CC2
SMC16.T.GGTATTGTCAGAGCTT	CC1
SMC16.T.GGTATTGTCCTTTCCG	CC1
SMC16.T.GGTGAAGAGAGTGACC	CC2
SMC16.T.GGTGAAGAGCGTAATA	CC1
SMC16.T.GGTGAAGAGCTGTCTA	CC2
SMC16.T.GGTGAAGTCCTAGAAC	CC1
SMC16.T.GGTGCGTCACATCTTT	CC1
SMC16.T.GGTGCGTCATGTCTCC	CC2
SMC16.T.GGTGCGTGTACCTAA	CC2

SMC16.T.GGTGCGTGTCCGGCACT	CC2
SMC16.T.GGTGCGGTTCGTCTC	CC1
SMC16.T.GGTGTTAAGACTACAA	CC1
SMC16.T.GGTGTTAAGTACGCCC	CC2
SMC16.T.GGTGTTACAAGCGCTC	CC2
SMC16.T.GGTGTTACACCACCAG	CC2
SMC16.T.GGTGTTACACGCGAAA	CC1
SMC16.T.GTAACGTAGTATCTCG	CC1
SMC16.T.GTAACGTCAGGCTCAC	CC2
SMC16.T.GTAACGTTCCGTACAA	CC2
SMC16.T.GTAACGTTCTCGTATT	CC1
SMC16.T.GTAACTGAGGGTGTGT	CC1
SMC16.T.GTAACTGCAGATCCAT	CC2
SMC16.T.GTAACTGCATTGCGGC	CC2
SMC16.T.GTAACTGGTACAGACG	CC2
SMC16.T.GTAACTGGTATAGGGC	CC2
SMC16.T.GTAACTGGTTAAGATG	CC1
SMC16.T.GTAACTGGTTGTACAC	CC2
SMC16.T.GTAACTGTCAACACTG	CC1
SMC16.T.GTACGTAAGCCAGTAG	CC1
SMC16.T.GTACGTAAGGTGTTAA	CC1
SMC16.T.GTACGTACAAACGCGA	CC2
SMC16.T.GTACGTACACAGGTTT	CC2
SMC16.T.GTACGTACACCTTGTC	CC1
SMC16.T.GTACGTACACTGAAGG	CC2
SMC16.T.GTACGTAGTGACGGTA	CC1
SMC16.T.GTACTCCCACACGCTG	CC1
SMC16.T.GTACTCCCACGTGAGA	CC1
SMC16.T.GTACTCCCAGGGATTG	CC2
SMC16.T.GTACTCCTCTAACTCT	CC2
SMC16.T.GTACTTTAGTGAATTG	CC1
SMC16.T.GTACTTTACGAAGCA	CC2
SMC16.T.GTACTTTGTGGACGAT	CC2
SMC16.T.GTACTTTTCAACACAC	CC2
SMC16.T.GTAGGCCAGGCTCTTA	CC1
SMC16.T.GTAGGCCCACTTGGAT	CC1
SMC16.T.GTAGGCCGTCGGCATC	CC2
SMC16.T.GTAGGCCTCGCAAAC	CC2
SMC16.T.GTAGGCCTCGCCTGTT	CC2
SMC16.T.GTAGTCAAGAGTGAGA	CC1
SMC16.T.GTAGTCAGTTAGATGA	CC1
SMC16.T.GTAGTCAGTTTGGCGC	CC1
SMC16.T.GTAGTCATCAACGGCC	CC1
SMC16.T.GTAGTCATCCGATATG	CC2
SMC16.T.GTATCTTAGGCTCATT	CC2
SMC16.T.GTATCTTAGGTGCTAG	CC2
SMC16.T.GTATCTTCAGATCCAT	CC1
SMC16.T.GTATTCTAGTATCGAA	CC2
SMC16.T.GTATTCTTCCAGATCA	CC2
SMC16.T.GTATTCTTCGTCACGG	CC2
SMC16.T.GTCAAGTAGCTAGCCC	CC2
SMC16.T.GTCAAGTCACCTTGTC	CC2
SMC16.T.GTCAAGTCACTTACGA	CC2
SMC16.T.GTCAAGTCATCCGTGG	CC2
SMC16.T.GTCAAGTGTGATAAAC	CC2
SMC16.T.GTCACAATCATGTCTT	CC1
SMC16.T.GTCACAATCCACTGGG	CC1
SMC16.T.GTCACAATCGCAGGCT	CC1

SMC16.T.GTCACAATCTCGAGTA	CC1
SMC16.T.GTCACAATCTTGACGA	CC2
SMC16.T.GTCACGGAGAATTCCC	CC1
SMC16.T.GTCACGGAGCTGTTCA	CC1
SMC16.T.GTCACGGCAAGGACTG	CC2
SMC16.T.GTCACGGCACGTCAGC	CC2
SMC16.T.GTCACGGGTGTGTGCC	CC2
SMC16.T.GTCACGGGTGTTCTTT	CC2
SMC16.T.GTCACGGGTTGATTGC	CC2
SMC16.T.GTCATTTAGTATCGAA	CC2
SMC16.T.GTCATTTACGTCAGC	CC2
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SMC16.T.GTCATTTGTCTTCGTC	CC2
SMC16.T.GTCATTTGTTATGCGT	CC2
SMC16.T.GTCATTTTCCCTCTTT	CC2
SMC16.T.GTCATTTTCCCTGGTC	CC2
SMC16.T.GTCCTCAAGGAATCGC	CC2
SMC16.T.GTCCTCACAAACCTAC	CC1
SMC16.T.GTCCTCACACATTAGC	CC2
SMC16.T.GTCCTCACATTGGGCC	CC1
SMC16.T.GTCCTCAGTCCCTTGT	CC1
SMC16.T.GTCGGGTCAACGATCT	CC2
SMC16.T.GTCGGGTCAATGCCTTC	CC2
SMC16.T.GTCGGGTTACGATGT	CC1
SMC16.T.GTCGGGTTCCATGAGT	CC2
SMC16.T.GTCGTAAGAAGGCCT	CC1
SMC16.T.GTCGTAAGCTACCGC	CC1
SMC16.T.GTCGTAACACATCTTT	CC1
SMC16.T.GTCGTAACATAACCTG	CC2
SMC16.T.GTCGTAAGTCAGAGGT	CC2
SMC16.T.GTCGTAAGTGTGTGCC	CC1
SMC16.T.GTCGTAAGTGTGAGG	CC1
SMC16.T.GTCTCGTAGGCCCTTG	CC1
SMC16.T.GTCTCGTCAATCTACG	CC1
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SMC16.T.GTCTCGTCATCATCCC	CC2
SMC16.T.GTCTCGTCCCTCAGT	CC2
SMC16.T.GTCTTCGAGAAGGTGA	CC2
SMC16.T.GTCTTCGAGCACCGTC	CC1
SMC16.T.GTCTTCGAGCTCTCGG	CC2
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SMC16.T.GTCTTCGCAGTATAAG	CC2
SMC16.T.GTCTTCGCATACTACG	CC1
SMC16.T.GTCTTCGGTAAATGAC	CC2
SMC16.T.GTCTTCGGTACTTGAC	CC1
SMC16.T.GTCTTCGGTGAAATCA	CC2
SMC16.T.GTCTTCGGTGGACGAT	CC2
SMC16.T.GTCTTCGGTTCGCTAA	CC2
SMC16.T.GTGAAGGCAACACCTA	CC1
SMC16.T.GTGAAGGCAACTTGAC	CC1
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SMC16.T.GTGAAGGCAGAGCCAA	CC1
SMC16.T.GTGAAGGGTCATGCCG	CC2
SMC16.T.GTGAAGGTCACATGCA	CC1
SMC16.T.GTGAAGGTCTCCCTGA	CC2
SMC16.T.GTGCAGCAGGCCCTTG	CC1
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SMC16.T.GTGCAGCCAGGTCCAC	CC2

SMC16.T.GTGCAGCGTCACACGC	CC2
SMC16.T.GTGCAGCTCTATCCTA	CC2
SMC16.T.GTGCATAAGAAGGACA	CC1
SMC16.T.GTGCATAAGAGGTTAT	CC2
SMC16.T.GTGCATAAGCGTTTAC	CC2
SMC16.T.GTGCATAAGTGCGTGA	CC1
SMC16.T.GTGCATAGTAGAAAGG	CC2
SMC16.T.GTGCATAGTAGGCATG	CC1
SMC16.T.GTGCATAGTCGCGGTT	CC2
SMC16.T.GTGCATAGTGATGTCT	CC1
SMC16.T.GTGCATATCCGTTGCT	CC1
SMC16.T.GTGCATATCGCTAGCG	CC1
SMC16.T.GTGCGGTAGCTCCCAG	CC2
SMC16.T.GTGCGGTAGGAGTAGA	CC1
SMC16.T.GTGCGGTAGGTAGCTG	CC1
SMC16.T.GTGCGGTCACAGCGTC	CC1
SMC16.T.GTGCGGTTGCGACTCT	CC1
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SMC16.T.GTGCGGTTCTTTAGTC	CC2
SMC16.T.GTGCTTCAGAGTCTGG	CC2
SMC16.T.GTGCTTCCAAAGGTGC	CC1
SMC16.T.GTGCTTCCATGAACCT	CC1
SMC16.T.GTGCTTCCATGCTGGC	CC2
SMC16.T.GTGCTTCGTGGCGAAT	CC2
SMC16.T.GTGGGTCAGCTAGTGG	CC2
SMC16.T.GTGGGTCCACATGACT	CC1
SMC16.T.GTGGGTCCATGTGCGAT	CC1
SMC16.T.GTGGGTGCGTGCCTTA	CC1
SMC16.T.GTGGGTGCGTGGGTCAA	CC1
SMC16.T.GTGGGTGCGTGTGCGTC	CC2
SMC16.T.GTGGGTCTCCCAAGAT	CC2
SMC16.T.GTGGGTCTCGCATGAT	CC2
SMC16.T.GTGTGCGAGCCCAACC	CC2
SMC16.T.GTGTGCGAGTGGGCTA	CC2
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SMC16.T.GTGTGCGCACATAACC	CC2
SMC16.T.GTGTGCGCACTTACGA	CC1
SMC16.T.GTGTGCGCAGTTCCCT	CC2
SMC16.T.GTGTGCGGTACCGCTG	CC2
SMC16.T.GTGTGCGGTTGGTGGA	CC1
SMC16.T.GTGTGCGTCAGTTCGA	CC1
SMC16.T.GTGTGCGTCTTCGAGA	CC1
SMC16.T.GTGTTAGAGAGGACGG	CC1
SMC16.T.GTGTTAGAGGGTCTCC	CC2
SMC16.T.GTGTTAGCACGCTTTC	CC1
SMC16.T.GTGTTAGTCGAGGTAG	CC2
SMC16.T.GTTAAGCCACTCAGGC	CC1
SMC16.T.GTTAAGCGTACTCGCG	CC1
SMC16.T.GTTAAGCGTGAGGGTT	CC1
SMC16.T.GTTAAGCTCATGCATG	CC2
SMC16.T.GTTACAGAGGTGTTAA	CC1
SMC16.T.GTTACAGAGTTCGCGC	CC1
SMC16.T.GTTACAGCACGGCGTT	CC1
SMC16.T.GTTACAGGTGGAACG	CC2
SMC16.T.GTTACAGGTTTAGGAA	CC2
SMC16.T.GTTACAGTCATACGGT	CC1
SMC16.T.GTTACAGTCCAAGTAC	CC1
SMC16.T.GTTACAGTCCCAGGTG	CC2

SMC16.T.GTTCATTAGTCTCCTC	CC1
SMC16.T.GTTCATTAGTGGTAAT	CC1
SMC16.T.GTTCATTCATGATCCA	CC1
SMC16.T.GTTCATTGACCTACA	CC2
SMC16.T.GTTCGGGAGATGTTAG	CC1
SMC16.T.GTTCGGGCACGTCAGC	CC1
SMC16.T.GTTCGGGCAGCTTAAC	CC1
SMC16.T.GTTCGGGTCTCTCTG	CC2
SMC16.T.GTTCTCGAGTTGTAGA	CC1
SMC16.T.GTTCTCGCAACTGGCC	CC1
SMC16.T.GTTCTCGCACGGTAGA	CC2
SMC16.T.GTTCTCGCATCACGAT	CC1
SMC16.T.GTTCTCGGTACGACCC	CC1
SMC16.T.GTTCTCGGTATATGGA	CC2
SMC16.T.GTTCTCGGTCAATACC	CC2
SMC16.T.GTTTCTAAGACACTAA	CC2
SMC16.T.GTTTCTAAGACGCAAC	CC1
SMC16.T.GTTTCTAAGGGTTTCT	CC2
SMC16.T.GTTTCTACACACATGT	CC2
SMC16.T.GTTTCTAGTTCACGGC	CC2
SMC16.T.GTTTCTATCTCTGAGA	CC2
SMC16.T.TAAACCGAGCCGGTAA	CC1
SMC16.T.TAAACCGAGCGTTGCC	CC2
SMC16.T.TAAACCGAGGATGCGT	CC1
SMC16.T.TAAACCGAGGCATGGT	CC1
SMC16.T.TAAACCGCAATGGAGC	CC1
SMC16.T.TAAACCGGTCCGTGAC	CC1
SMC16.T.TAAACCGGTCTACCTC	CC2
SMC16.T.TAAACCGGTCTGATTG	CC1
SMC16.T.TAAGAGACAGGATCGA	CC2
SMC16.T.TAAGAGACATACTCTT	CC1
SMC16.T.TAAGAGAGTTCCTCCA	CC2
SMC16.T.TAAGAGATCTCCGGTT	CC1
SMC16.T.TAAGCGTAGGTGTGGT	CC2
SMC16.T.TAAGCGTCAGATGGGT	CC2
SMC16.T.TAAGCGGTAGCGTAG	CC2
SMC16.T.TAAGCGGTGCCGTGAC	CC2
SMC16.T.TAAGCGGTCTCACCT	CC2
SMC16.T.TAAGCGTTCAGAGGA	CC2
SMC16.T.TAAGTGCGTGCAGGTA	CC1
SMC16.T.TAAGTGCTCAGCTCGG	CC2
SMC16.T.TACACGACACGAGAGT	CC1
SMC16.T.TACACGAGTGTGCGTC	CC2
SMC16.T.TACAGTGAGGCACATG	CC1
SMC16.T.TACAGTGAGGCCGAAT	CC1
SMC16.T.TACAGTGAGTCAAGGC	CC1
SMC16.T.TACAGTGCAACACCTA	CC2
SMC16.T.TACAGTGACGGTGTC	CC1
SMC16.T.TACAGTGACAGATGGCA	CC1
SMC16.T.TACAGTGGTTCGCGAC	CC1
SMC16.T.TACAGTGTCTAGAGTC	CC1
SMC16.T.TACAGTGTCTCGGACG	CC2
SMC16.T.TACAGTGTCTGAGGGA	CC1
SMC16.T.TACCTATAGCATGGCA	CC2
SMC16.T.TACCTATCATAAAGGT	CC2
SMC16.T.TACCTATGTAGAAGGA	CC2
SMC16.T.TACCTATGTTACTGAC	CC2

SMC16.T.TACCTATTCATGTCTT	CC1
SMC16.T.TACCTATTCGTACCGG	CC1
SMC16.T.TACCTTACACAACGTT	CC1
SMC16.T.TACCTTACATTCCCTGC	CC1
SMC16.T.TACCTTAGTAGAGCTG	CC2
SMC16.T.TACCTTAGTAGAGTGC	CC2
SMC16.T.TACGGATAGGATGCGT	CC2
SMC16.T.TACGGATAGTCCCACG	CC1
SMC16.T.TACGGATTCAGCTCGG	CC2
SMC16.T.TACGGATTCAGTTGAC	CC1
SMC16.T.TACGGATTCGAGCCCA	CC2
SMC16.T.TACGGATTCGGTGTCTG	CC2
SMC16.T.TACGGGCAGACCGGAT	CC2
SMC16.T.TACGGGCAGTGTTTGC	CC2
SMC16.T.TACGGGCCAAGCGCTC	CC2
SMC16.T.TACGGGCCACATCTTT	CC2
SMC16.T.TACGGGCCAGGAACGT	CC2
SMC16.T.TACGGGCTCATGCATG	CC2
SMC16.T.TACGGGCTCTAACCGA	CC2
SMC16.T.TACGGTAAGCAGCGTA	CC1
SMC16.T.TACGGTAAGGAATGGA	CC1
SMC16.T.TACGGTAAGGTGCTTT	CC1
SMC16.T.TACGGTACACATTCGA	CC2
SMC16.T.TACGGTAGTAGAAAGG	CC1
SMC16.T.TACGGTATCACTGGGC	CC2
SMC16.T.TACGGTATCCTATGTT	CC1
SMC16.T.TACGGTATCGGCTTGG	CC1
SMC16.T.TACGGTATCTTGTCAT	CC2
SMC16.T.TACGGTATCTTTCCTC	CC2
SMC16.T.TACTCATAGAAACGAG	CC2
SMC16.T.TACTCATCAATCTACG	CC2
SMC16.T.TACTCATCACGGCTAC	CC2
SMC16.T.TACTCATGTGAGGGAG	CC2
SMC16.T.TACTCATGTGATAAAC	CC1
SMC16.T.TACTCATGTTGCTCCT	CC2
SMC16.T.TACTCGCAGTGGGATC	CC2
SMC16.T.TACTCGCCAGTTAACC	CC2
SMC16.T.TACTCGCGTTGCGTTA	CC2
SMC16.T.TACTTACAGGCGCTCT	CC1
SMC16.T.TACTTACAGGCTCTTA	CC1
SMC16.T.TACTTACAGGGAGTAA	CC1
SMC16.T.TACTTACAGTTAGCGG	CC2
SMC16.T.TACTTACCACGTAAGG	CC2
SMC16.T.TACTTACTCCTATGTT	CC1
SMC16.T.TACTTACTCTCAAACG	CC1
SMC16.T.TACTTGTC AAGTTAAG	CC2
SMC16.T.TACTTGTC ACTATCTT	CC2
SMC16.T.TACTTGTCAGATCTGT	CC1
SMC16.T.TACTTGTCAGTCAGCC	CC2
SMC16.T.TACTTGTTTCGTTGACA	CC1
SMC16.T.TACTTGTTTCGTTTATC	CC1
SMC16.T.TAGACCACACTGCCAG	CC2
SMC16.T.TAGACCACATGCCCGA	CC2
SMC16.T.TAGACCAGTACAGTGG	CC1
SMC16.T.TAGAGCTAGACATAAC	CC2
SMC16.T.TAGAGCTAGGTGTTAA	CC1
SMC16.T.TAGAGCTGTGTTGGGA	CC1
SMC16.T.TAGAGCTGTTATTCTC	CC1

SMC16.T.TAGAGCTTCACAACGT	CC2
SMC16.T.TAGAGCTTCCGAAGAG	CC2
SMC16.T.TAGAGCTTCCTTTCCG	CC1
SMC16.T.TAGCCGGAGAAGGTGA	CC1
SMC16.T.TAGCCGGCACAGTCGC	CC2
SMC16.T.TAGCCGGTCGTTTATC	CC1
SMC16.T.TAGGCATAGGCCCGTT	CC1
SMC16.T.TAGGCATCATGTAGTC	CC2
SMC16.T.TAGGCATGTAAGGGAA	CC2
SMC16.T.TAGGCATTGCCTGAG	CC2
SMC16.T.TAGGCATTCTAACTCT	CC1
SMC16.T.TAGTGGTAGGATGCGT	CC1
SMC16.T.TAGTGGTCATCCCACT	CC2
SMC16.T.TAGTGGTCATCCTTGC	CC2
SMC16.T.TAGTTGGAGGTGCAAC	CC2
SMC16.T.TAGTTGGCAAGCCCAC	CC2
SMC16.T.TAGTTGGCAGGGTACA	CC2
SMC16.T.TAGTTGGGTCTCAACA	CC1
SMC16.T.TAGTTGGTCCCCTTG	CC1
SMC16.T.TATCAGGAGCGTAGTG	CC1
SMC16.T.TATCAGGCACTGAAGG	CC1
SMC16.T.TATCAGGTCCCATTAT	CC2
SMC16.T.TATCAGGTCCGAATGT	CC2
SMC16.T.TATCAGGTCTGGCGAC	CC2
SMC16.T.TATCAGGTCTTGTCAT	CC2
SMC16.T.TATCTCACAAACGTGG	CC2
SMC16.T.TATCTCATCTCGGACG	CC2
SMC16.T.TATGCCCAGCTAGTTC	CC2
SMC16.T.TATGCCCAGTTCGCGC	CC1
SMC16.T.TATGCCCCAGTTCCT	CC2
SMC16.T.TATGCCCTCACATACG	CC1
SMC16.T.TATGCCCTCGGTGTTA	CC1
SMC16.T.TATTACCCAAACCCAT	CC1
SMC16.T.TATTACCCACGAAATA	CC2
SMC16.T.TATTACCCAGAGTGTG	CC2
SMC16.T.TATTACCCAGTACACT	CC2
SMC16.T.TATTACCGTTCCCGAG	CC2
SMC16.T.TATTACCTCAGCATGT	CC1
SMC16.T.TCAACGAAGAGCTATA	CC1
SMC16.T.TCAACGAAGTTAACGA	CC1
SMC16.T.TCAACGACAATCTACG	CC1
SMC16.T.TCAACGACATTCTTAC	CC2
SMC16.T.TCAACGAGTGATGTCT	CC2
SMC16.T.TCAACGATCCATGAAC	CC1
SMC16.T.TCAACGATCGGTTAAC	CC2
SMC16.T.TCAATCTAGTGCCAT	CC2
SMC16.T.TCAATCTCACGGACAA	CC1
SMC16.T.TCAATCTGTGCTTCT	CC1
SMC16.T.TCAATCTTCCAAACTG	CC2
SMC16.T.TCAATCTTCTCTGAGA	CC2
SMC16.T.TCAATCTTCTGACCTC	CC2
SMC16.T.TCACAAGAGGGTGTGT	CC1
SMC16.T.TCACAAGCACCTCGGA	CC2
SMC16.T.TCACAAGGTAGATTAG	CC2
SMC16.T.TCACAAGGTATGAATG	CC1
SMC16.T.TCACGAAAGTACTTGC	CC1
SMC16.T.TCACGAAGTACGCTGC	CC1
SMC16.T.TCACGAAGTCTTGCGG	CC2

SMC16.T.TCACGAATCCCTAATT	CC2
SMC16.T.TCACGAATCGCTGATA	CC2
SMC16.T.TCAGATGAGCCCAATT	CC1
SMC16.T.TCAGATGAGCGTTCCG	CC1
SMC16.T.TCAGATGCAGCTTCGG	CC2
SMC16.T.TCAGATGGTAGAGGAA	CC2
SMC16.T.TCAGATGTCTAGCACA	CC1
SMC16.T.TCAGCAAAGAAACGCC	CC2
SMC16.T.TCAGCAACAAAGCGGT	CC1
SMC16.T.TCAGCAACAGGGCATA	CC1
SMC16.T.TCAGCAAGTATGAAAC	CC1
SMC16.T.TCAGCAATCTTGGGTA	CC2
SMC16.T.TCAGCTCGTGGAAAGA	CC2
SMC16.T.TCAGCTCTCAGCGACC	CC1
SMC16.T.TCAGCTCTCATTATCC	CC1
SMC16.T.TCAGCTCTCGAGAACG	CC1
SMC16.T.TCAGCTCTCTAACTGG	CC2
SMC16.T.TCAGCTCTCTTTAGTC	CC2
SMC16.T.TCAGGATAGATCGATA	CC2
SMC16.T.TCAGGATCAAGTACCT	CC1
SMC16.T.TCAGGATGTACCGCTG	CC2
SMC16.T.TCAGGATGTATCAGTC	CC2
SMC16.T.TCAGGATGTGTTCTTT	CC2
SMC16.T.TCAGGATTCAGTGCAT	CC1
SMC16.T.TCAGGTACAATAGCAA	CC2
SMC16.T.TCAGGTACACGGTAAG	CC1
SMC16.T.TCAGGTACATCAGTCA	CC2
SMC16.T.TCAGGTAGTAAACGCG	CC2
SMC16.T.TCAGGTAGTCGCATCG	CC2
SMC16.T.TCAGGTAGTGCCTGCA	CC2
SMC16.T.TCAGGTAGTTAAGTAG	CC1
SMC16.T.TCAGGTAGTTGGTTTG	CC2
SMC16.T.TCAGGTATCAGTTCGA	CC2
SMC16.T.TCATTACAGTCTCGGC	CC1
SMC16.T.TCATTACGTTTGAATC	CC2
SMC16.T.TCATTACTCCTTGCCA	CC2
SMC16.T.TCATTTGAGTAGATGT	CC2
SMC16.T.TCATTTGCAGTCTTCC	CC2
SMC16.T.TCATTTGGTAATCGTC	CC2
SMC16.T.TCATTTGGTGTATGGG	CC2
SMC16.T.TCATTTGTCATCATT	CC1
SMC16.T.TCATTTGTTCGGCTTGG	CC1
SMC16.T.TCATTTGTTCGTGGGAA	CC1
SMC16.T.TCATTTGTCTTGTTTG	CC1
SMC16.T.TCCACACAGACCTTTG	CC1
SMC16.T.TCCACACAGATGTGGC	CC2
SMC16.T.TCCACACAGCCAGTTT	CC2
SMC16.T.TCCACACAGGGCTTCC	CC1
SMC16.T.TCCACACAGGTGATAT	CC2
SMC16.T.TCCACACCAGACTCGC	CC2
SMC16.T.TCCACACTCATGCATG	CC2
SMC16.T.TCCACACTCCAGTATG	CC2
SMC16.T.TCCCGATAGTTAACGA	CC1
SMC16.T.TCCCGATCAAAGCAAT	CC2
SMC16.T.TCCCGATGTCACCTAA	CC1
SMC16.T.TCGAGGCAGCATGGCA	CC1
SMC16.T.TCGAGGCAGTCTCGGC	CC1
SMC16.T.TCGAGGCCAAGCGCTC	CC2

SMC16.T.TCGAGGCGTTGGAGGT	CC1
SMC16.T.TCGCGAGAGCGGCTTC	CC2
SMC16.T.TCGCGAGGTAGAAAGG	CC2
SMC16.T.TCGCGAGGTCACCCAG	CC1
SMC16.T.TCGCGAGGTCCATCCT	CC1
SMC16.T.TCGCGAGGTCTAACGT	CC1
SMC16.T.TCGCGAGGTGGAAAGA	CC1
SMC16.T.TCGCGTTCAATAACGA	CC1
SMC16.T.TCGGGACAGGAATGGA	CC1
SMC16.T.TCGGGACCAAAGTGC	CC2
SMC16.T.TCGGGACCATAGAAAC	CC1
SMC16.T.TCGGGACGTTGCGCAC	CC1
SMC16.T.TCGGGACTCAGAGCTT	CC1
SMC16.T.TCGGGACTCAGAGGTG	CC1
SMC16.T.TCGGGACTCTGTACGA	CC2
SMC16.T.TCGGTAAGTAGTGCG	CC1
SMC16.T.TCGGTAAGTTAGCGG	CC1
SMC16.T.TCGGTAACATAGACTC	CC2
SMC16.T.TCGTACCAGACTAAGT	CC1
SMC16.T.TCGTACCAGAGAACAG	CC2
SMC16.T.TCGTACCAGGCCCTTG	CC1
SMC16.T.TCGTACCCAAGAAAGG	CC1
SMC16.T.TCGTACCCACATAACC	CC1
SMC16.T.TCGTACCTCGGCGCAT	CC1
SMC16.T.TCGTACCTCGTTTAGG	CC2
SMC16.T.TCGTAGAAGAACTGTA	CC2
SMC16.T.TCGTAGAAGTCATCCA	CC2
SMC16.T.TCGTAGACATGCATGT	CC2
SMC16.T.TCGTAGAGTTCAACCA	CC1
SMC16.T.TCGTAGAGTTTGGCGC	CC2
SMC16.T.TCGTAGATCACCCGAG	CC2
SMC16.T.TCGTAGATCAGCGATT	CC1
SMC16.T.TCGTAGATCTTGAGGT	CC2
SMC16.T.TCTATTGCACCAACCG	CC1
SMC16.T.TCTATTGCACTGTCGG	CC2
SMC16.T.TCTATTGGTAAGGGAA	CC2
SMC16.T.TCTATTGTCTTAACCT	CC1
SMC16.T.TCTCATAAGCTCCCAG	CC1
SMC16.T.TCTCATAACCCAGTG	CC1
SMC16.T.TCTCATACTGAAGG	CC1
SMC16.T.TCTCATAGTACAGTGG	CC2
SMC16.T.TCTCATAGTCAGATAA	CC1
SMC16.T.TCTCATATCTACTATC	CC2
SMC16.T.TCTCTAAAGACTAGAT	CC2
SMC16.T.TCTCTAACACAGTCGC	CC2
SMC16.T.TCTCTAACATGGAATA	CC2
SMC16.T.TCTCTAAGTTTGTGTG	CC2
SMC16.T.TCTCTAATCGTAGGTT	CC2
SMC16.T.TCTGAGAAGCGTGAGT	CC2
SMC16.T.TCTGAGACAATCGGTT	CC2
SMC16.T.TCTGAGACAATGGAGC	CC2
SMC16.T.TCTGAGACACAGCCCA	CC1
SMC16.T.TCTGAGACAGTTAACC	CC1
SMC16.T.TCTGAGACATGCTGGC	CC1
SMC16.T.TCTGAGATCCGCGCAA	CC1
SMC16.T.TCTGAGATCTTCGAGA	CC1
SMC16.T.TCTGGAACATATACCG	CC2
SMC16.T.TCTGGAACATCCGTGG	CC1

SMC16.T.TCTTCGGAGGTGTTAA	CC1
SMC16.T.TCTTCGGAGTGAACAT	CC2
SMC16.T.TCTTCGGCAAAGAATC	CC1
SMC16.T.TCTTCGGCATGGGACA	CC2
SMC16.T.TCTTCGGGTATAAACG	CC1
SMC16.T.TCTTCGGGTCTCAACA	CC2
SMC16.T.TCTTCGGGTGTTTCGAT	CC2
SMC16.T.TCTTCGGTTCGGCCGAT	CC2
SMC16.T.TCTTTCGGTTCCGTCT	CC2
SMC16.T.TCTTTCGGTTTCCACC	CC2
SMC16.T.TCTTTCCTCCTTGACC	CC2
SMC16.T.TCTTTCCTCTGAGTGT	CC2
SMC16.T.TGAAAGAAGACGACGT	CC2
SMC16.T.TGAAAGAAGCGCCTTG	CC2
SMC16.T.TGAAAGACACCGAAAG	CC2
SMC16.T.TGAAAGATCCCTAATT	CC1
SMC16.T.TGAAAGATCGGCGCAT	CC1
SMC16.T.TGACAACCACATCTTT	CC2
SMC16.T.TGACAACACTCATGTCCC	CC2
SMC16.T.TGACAACCTTAGAGC	CC2
SMC16.T.TGACGGCAGAAGAAGC	CC1
SMC16.T.TGACGGCCACACCGCA	CC2
SMC16.T.TGACGGCGTGACAGAA	CC2
SMC16.T.TGACGGCGTTAAGATG	CC2
SMC16.T.TGACGGCTCACGAAGG	CC2
SMC16.T.TGACGGCTCATTCACT	CC2
SMC16.T.TGACTAGAGTCACGCC	CC1
SMC16.T.TGACTAGCATATGCTG	CC2
SMC16.T.TGACTAGCATCGGACC	CC1
SMC16.T.TGACTAGGTACAGCAG	CC1
SMC16.T.TGACTAGTCATCATT	CC2
SMC16.T.TGACTAGTCATTTGGG	CC2
SMC16.T.TGACTAGTCTTGTCAT	CC1
SMC16.T.TGACTTTAGAGGGATA	CC1
SMC16.T.TGACTTTAGCTGCCCA	CC1
SMC16.T.TGACTTTAGGTAGCTG	CC1
SMC16.T.TGACTTTCAGCATGAG	CC2
SMC16.T.TGACTTTGTATAAACG	CC1
SMC16.T.TGAGAGGAGCGACGTA	CC2
SMC16.T.TGAGAGGGTACAGCAG	CC2
SMC16.T.TGAGCATAGCACGCCT	CC2
SMC16.T.TGAGCATAGGTAGCCA	CC1
SMC16.T.TGAGCATCAGATGAGC	CC2
SMC16.T.TGAGCATGTCCGAACC	CC1
SMC16.T.TGAGCATGTGACGCCT	CC1
SMC16.T.TGAGCCGAGCGTAATA	CC1
SMC16.T.TGAGCCGCAGGATTGG	CC1
SMC16.T.TGAGCCGCAGTCCTTC	CC2
SMC16.T.TGAGCCGCATAGAAAC	CC2
SMC16.T.TGAGCCGGTAGCGTAG	CC1
SMC16.T.TGAGCCGGTATTCGTG	CC2
SMC16.T.TGAGCCGGTGCCTGTG	CC2
SMC16.T.TGAGGGAAGAGAGCTC	CC2
SMC16.T.TGAGGGACACTAGTAC	CC1
SMC16.T.TGAGGGACAGTGACAG	CC2
SMC16.T.TGAGGGACATCCAACA	CC2
SMC16.T.TGAGGGAGTCTCGTTC	CC2
SMC16.T.TGAGGGAGTGAGCGAT	CC1

SMC16.T.TGAGGGAGTGGTGTAG	CC1
SMC16.T.TGAGGGAGTTCTCATT	CC2
SMC16.T.TGAGGGATCTTGTTTG	CC1
SMC16.T.TGATTTTCAGTCCTCCT	CC2
SMC16.T.TGATTTTCGTTGAACTC	CC2
SMC16.T.TGCACCTCACGCTTTC	CC1
SMC16.T.TGCACCTGTGAGGGTT	CC2
SMC16.T.TGCACCTTCACCGGGT	CC1
SMC16.T.TGCACCTTCGCGCCAA	CC1
SMC16.T.TGCCAAAAGAAGGTGA	CC2
SMC16.T.TGCCAAAAGGCTAGCA	CC1
SMC16.T.TGCCAAAAGTTGTCTGT	CC1
SMC16.T.TGCCAAACAAAGTGCG	CC2
SMC16.T.TGCCAAACAGCAGTTT	CC2
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SMC16.T.TGCCCATTCCTAACC	CC2
SMC16.T.TGCCCATCTGATTCT	CC2
SMC16.T.TGCCCTACAACGATGG	CC2
SMC16.T.TGCCCTAGTAACGCGA	CC1
SMC16.T.TGCCCTAGTCCGAACC	CC1
SMC16.T.TGCCCTAGTCGTCTTC	CC1
SMC16.T.TGCCCTAGTTAGGGTG	CC2
SMC16.T.TGCCCTAGTTGAACTC	CC2
SMC16.T.TGCCCTATCAAACTG	CC2
SMC16.T.TGCCCTATCACTTACT	CC1
SMC16.T.TGCGCAGAGCCCAATT	CC2
SMC16.T.TGCGCAGCAAAGCAAT	CC1
SMC16.T.TGCGCAGCACCGAAAG	CC2
SMC16.T.TGCGCAGGTAGCTAAA	CC2
SMC16.T.TGCGCAGTCACTCTTA	CC2
SMC16.T.TGCGCAGTCCGATATG	CC1
SMC16.T.TGCGGGTCACATCCAA	CC2
SMC16.T.TGCGGGTCACGCGAAA	CC1
SMC16.T.TGCGGGTCAGCGTAAG	CC1
SMC16.T.TGCGGGTCATTGAGCT	CC1
SMC16.T.TGCGGGTGTATATCCG	CC2
SMC16.T.TGCGGGTGTTCGCGAC	CC2
SMC16.T.TGCGGGTGTGACAC	CC2
SMC16.T.TGCGGGTCAAGCCTA	CC2
SMC16.T.TGCGTGGAGCTCAACT	CC1
SMC16.T.TGCGTGGCATGCTGGC	CC2
SMC16.T.TGCTACCAGATCGGGT	CC1
SMC16.T.TGCTACCCAGGTCGTC	CC2
SMC16.T.TGCTACCCATCACAAC	CC2
SMC16.T.TGCTACCGTCCAATA	CC1
SMC16.T.TGCTGCTCAAAGGCGT	CC2
SMC16.T.TGCTGCTCATCACCT	CC2
SMC16.T.TGCTGCTTCCGTACAA	CC2
SMC16.T.TGGACGCAGTGGAGAA	CC2
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SMC16.T.TGGACGCGTTAAGGGC	CC2
SMC16.T.TGGCCAGAGATCTGAA	CC1
SMC16.T.TGGCCAGCAAGCTGTT	CC2
SMC16.T.TGGCCAGCACGCCAGT	CC1
SMC16.T.TGGCCAGGTTATTCTC	CC2

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SMC16.T.TGGCCAGTCAGAGCTT	CC1
SMC16.T.TGGCCAGTCCGGCACA	CC1
SMC16.T.TGGCGCAAGAAGGGTA	CC2
SMC16.T.TGGCGCAAGATGTGTA	CC2
SMC16.T.TGGCGCACAGTCGTGC	CC2
SMC16.T.TGGCGCAGTGTCAATC	CC2
SMC16.T.TGGCGCAGTTTGTGTG	CC1
SMC16.T.TGGCGCATCAGTTGAC	CC2
SMC16.T.TGGCGCATCCGTAGGC	CC1
SMC16.T.TGGCGCATCCTCCTAG	CC2
SMC16.T.TGGCGCATCTTTAGTC	CC2
SMC16.T.TGGCTGGAGCCAGTTT	CC1
SMC16.T.TGGCTGGAGTAGCCGA	CC2
SMC16.T.TGGCTGGAGTTATCGC	CC1
SMC16.T.TGGCTGGCACTGCCAG	CC2
SMC16.T.TGGCTGGTCAAGGTAA	CC1
SMC16.T.TGGCTGGTCAGCCTAA	CC2
SMC16.T.TGGCTGGTCATGCAAC	CC2
SMC16.T.TGGGAAGAGCTGGAAC	CC2
SMC16.T.TGGGAAGGTATTAGCC	CC2
SMC16.T.TGGGAAGGTCTAGTT	CC2
SMC16.T.TGGGAAGGTCTTGCGG	CC1
SMC16.T.TGGGCGTAGACAGACC	CC2
SMC16.T.TGGGCGTAGCAACGGT	CC2
SMC16.T.TGGGCGTCACGGCGTT	CC2
SMC16.T.TGGGCGTCAGTCAGAG	CC1
SMC16.T.TGGGCGTGTCCGAAGA	CC2
SMC16.T.TGGGCGTTCCTGCTTG	CC2
SMC16.T.TGGGCGTTCCTCGGTC	CC1
SMC16.T.TGGTTAGAGTTAGGTA	CC2
SMC16.T.TGGTTAGGTAATAGCA	CC2
SMC16.T.TGGTTAGTCATGTCCC	CC2
SMC16.T.TGGTTAGTCGCCAAAT	CC2
SMC16.T.TGGTTCCAGGGAAACA	CC2
SMC16.T.TGGTTCCAGACGTAG	CC1
SMC16.T.TGGTTCCGTGGTCTCG	CC1
SMC16.T.TGGTTCCTCCGATATG	CC2
SMC16.T.TGGTTCCTCTTGGGTA	CC1
SMC16.T.TGTATTCAGATCGATA	CC2
SMC16.T.TGTATTCGTACTTCTT	CC2
SMC16.T.TGTCCCAAGACACGAC	CC2
SMC16.T.TGTCCCAAGGCTAGCA	CC2
SMC16.T.TGTCCCAGTAAACGCG	CC2
SMC16.T.TGTCCCAGTTACCGAT	CC1
SMC16.T.TGTCCCATCCCTCTTT	CC2
SMC16.T.TGTCCCATCCCTGACT	CC1
SMC16.T.TGTCCCATCGCACTCT	CC2
SMC16.T.TGTGGTAAGGGCATGT	CC2
SMC16.T.TGTGGTAAGTCATGCT	CC2
SMC16.T.TGTGGTATCCACGCAG	CC1
SMC16.T.TGTGGTATCCTGCTTG	CC1
SMC16.T.TGTGGTATCCTTTCTC	CC2
SMC16.T.TGTGTTTGTCCGACGT	CC2
SMC16.T.TGTGTTTTCCAACCAA	CC2
SMC16.T.TGTGTTTTCCAAGCCG	CC2
SMC16.T.TGTTCCGAGTCCGGTC	CC2
SMC16.T.TGTTCCGAGTGTGAAT	CC2

SMC16.T.TGTTCCGCACCACCAG	CC2
SMC16.T.TGTTCCGCATTTCACT	CC2
SMC16.T.TGTTCCGGTCGGCTCA	CC2
SMC16.T.TTAACTCAGATCCTGT	CC1
SMC16.T.TTAACTCAGTTTAGGA	CC1
SMC16.T.TTAACTCCACAAGTGT	CC1
SMC16.T.TTAACTCCAGTAAGCG	CC1
SMC16.T.TTAACTCTCCTGCTTG	CC2
SMC16.T.TTAACTCTCTAAGCCA	CC2
SMC16.T.TTAGGACAGACAGGCT	CC2
SMC16.T.TTAGGACCACGGATAG	CC1
SMC16.T.TTAGGACGTACTTAGC	CC2
SMC16.T.TTAGGACGTAGCTCCG	CC2
SMC16.T.TTAGGACGTCTGGAGA	CC2
SMC16.T.TTAGGCAAGGCATGTG	CC2
SMC16.T.TTAGGCACAAGACGTG	CC2
SMC16.T.TTAGGCACAGGTCTCG	CC1
SMC16.T.TTAGGCACATCTCCA	CC1
SMC16.T.TTAGGCAGTCGAGTTT	CC2
SMC16.T.TTAGGCAGTCGCATCG	CC2
SMC16.T.TTAGGCATCAACGGCC	CC2
SMC16.T.TTAGGCATCACGAAGG	CC2
SMC16.T.TTAGGCATCAGTCCCT	CC2
SMC16.T.TTAGGCATCCTTCAAT	CC2
SMC16.T.TTAGTTCAGCTAGTGG	CC1
SMC16.T.TTAGTTCGTCCGAACC	CC2
SMC16.T.TTAGTTCAGGATCT	CC2
SMC16.T.TTAGTTCGAATGCT	CC2
SMC16.T.TTATGCTAGAGCTGCA	CC2
SMC16.T.TTATGCTAGGGATCTG	CC1
SMC16.T.TTCCCAGCAATGGATA	CC1
SMC16.T.TTCCCAGCAGATGGCA	CC2
SMC16.T.TTCCCAGGTACAGTTC	CC2
SMC16.T.TTCCCAGGTACGAAAT	CC1
SMC16.T.TTCCCAGGTATGCTTG	CC1
SMC16.T.TTCCCAGGTGTGACGA	CC2
SMC16.T.TTCCCAGTCTCCGGTT	CC1
SMC16.T.TTCCCAGTCTGGAGCC	CC1
SMC16.T.TTCGAAGAGGGAACGG	CC2
SMC16.T.TTCGAAGAGGGATAACC	CC2
SMC16.T.TTCGAAGCACAAAGTAA	CC2
SMC16.T.TTCGAAGCATGCATGT	CC1
SMC16.T.TTCGAAGCATTTCAGG	CC1
SMC16.T.TTCGAAGGTAAGTGGC	CC2
SMC16.T.TTCGAAGGTTGAGTTC	CC2
SMC16.T.TTCGAAGTCACCATAG	CC1
SMC16.T.TTCGAAGTCAGGTTCA	CC1
SMC16.T.TTCGAAGTCATCGGAT	CC1
SMC16.T.TTCGGTCAGGATATAC	CC1
SMC16.T.TTCGGTCCAAAGGCGT	CC2
SMC16.T.TTCGGTCCAAGTGGCC	CC1
SMC16.T.TTCGGTCCAAGCCCAC	CC2
SMC16.T.TTCGGTCTGTGGTTT	CC1
SMC16.T.TTCTACAAGCGTTGCC	CC2
SMC16.T.TTCTACAAGCTTTGGT	CC2
SMC16.T.TTCTACAAGTAGTGCG	CC2
SMC16.T.TTCTACACAGTCTTCC	CC2
SMC16.T.TTCTACATCCTAGAAC	CC1

SMC16.T.TTCTACATCCTCGCAT	CC2
SMC16.T.TTCTACATCGATCCCT	CC2
SMC16.T.TTCTCAAAGAACAACACT	CC2
SMC16.T.TTCTCAAAGAGCTTCT	CC2
SMC16.T.TTCTCAACAATGAATG	CC2
SMC16.T.TTCTCAACAGAAGCAC	CC2
SMC16.T.TTCTCAACATTCACTT	CC2
SMC16.T.TTCTCAAGTCAAGCGA	CC2
SMC16.T.TTCTCAATCAGCGACC	CC2
SMC16.T.TTCTCAATCCGCGTTT	CC1
SMC16.T.TTCTCAATCGGAGGTA	CC2
SMC16.T.TTCTCAATCTTGTCAT	CC2
SMC16.T.TTCTCCTAGATGCGAC	CC1
SMC16.T.TTCTCCTAGGCATTGG	CC1
SMC16.T.TTCTCCTCAAGAAGAG	CC1
SMC16.T.TTCTCCTCACCCAGTG	CC1
SMC16.T.TTCTCCTTCCCAGGTG	CC1
SMC16.T.TTCTTAGCAGCCACCA	CC2
SMC16.T.TTCTTAGTCAACACAC	CC2
SMC16.T.TTCTTAGTCACAACGT	CC2
SMC16.T.TTCTTAGTCTCGTATT	CC1
SMC16.T.TTGAACGCAATACGCT	CC1
SMC16.T.TTGAACGTCTAGCACA	CC2
SMC16.T.TTGAACGTCTCTGTCTG	CC2
SMC16.T.TTGACTTAGCGGATCA	CC1
SMC16.T.TTGACTTAGTGTCCCG	CC2
SMC16.T.TTGACTTCATGCAACT	CC1
SMC16.T.TTGACTTTCGTAGGTT	CC2
SMC16.T.TTGCCGTAGAGCTGGT	CC1
SMC16.T.TTGCCGTAGCACGCCT	CC2
SMC16.T.TTGCCGTCAACTGGCC	CC1
SMC16.T.TTGCCGTCAAGAAGAG	CC2
SMC16.T.TTGCCGTCAAGCGAGT	CC1
SMC16.T.TTGCCGTCAATGTAAG	CC2
SMC16.T.TTGCCGTACACCCGAC	CC1
SMC16.T.TTGCCGTGTCACTTCC	CC2
SMC16.T.TTGCCGTGTTACAGAA	CC2
SMC16.T.TTGCGTCAGAGAGCTC	CC2
SMC16.T.TTGCGTCAGCGAGAAA	CC2
SMC16.T.TTGCGTCCAAGAGGCT	CC2
SMC16.T.TTGCGTCCAAGCCGCT	CC2
SMC16.T.TTGCGTCCACACCGCA	CC1
SMC16.T.TTGCGTCCACTACAGT	CC1
SMC16.T.TTGCGTCCAGCATACT	CC2
SMC16.T.TTGCGTCCAGTGACAG	CC1
SMC16.T.TTGCGTTCGTAGCGATG	CC2
SMC16.T.TTGCGTTCGTTGTTGG	CC2
SMC16.T.TTGGAACCAAGTCGTGC	CC1
SMC16.T.TTGGAACGTGCAGGTA	CC2
SMC16.T.TTGGAACGTTCGAATC	CC1
SMC16.T.TTGGAACTCGAATGGG	CC2
SMC16.T.TTGGAACTCTAACGGT	CC2
SMC16.T.TTGGCAAAGTGGACGT	CC2
SMC16.T.TTGGCAACATGCGCAC	CC1
SMC16.T.TTGGCAAAGTATATGAG	CC1
SMC16.T.TTGGCAAAGTCTCTTTA	CC1
SMC16.T.TTGGCAAAGTGTGTTGGT	CC1
SMC16.T.TTGGCAATCATCACCC	CC1

SMC16.T.TTGGCAATCGGCGGTT	CC2
SMC16.T.TTGTAGGAGAATAGGG	CC1
SMC16.T.TTGTAGGCAAACAACA	CC2
SMC16.T.TTGTAGGCAATGGATA	CC2
SMC16.T.TTGTAGGGTCAGAAGC	CC1
SMC16.T.TTGTAGGGTCTTTCAT	CC2
SMC16.T.TTGTAGGGTTTAGCTG	CC2
SMC16.T.TTGTAGGTCCTTCAAT	CC2
SMC16.T.TTGTAGGTCGTCTGAA	CC2
SMC16.T.TTTACTGAGATGTGTA	CC1
SMC16.T.TTTACTGCACAAGACG	CC1
SMC16.T.TTTACTGGTGCTGTAT	CC1
SMC16.T.TTTACTGGTGGTCCGT	CC2
SMC16.T.TTTACTGGTGTGGTTT	CC1
SMC16.T.TTTATGCGTAAAGTCA	CC1
SMC16.T.TTTCCTCAGGCTATCT	CC1
SMC16.T.TTTCCTCAGGTGCTTT	CC2
SMC16.T.TTTCCTCAGTGCAAGC	CC1
SMC16.T.TTTCCTCCAGTCAGAG	CC1
SMC16.T.TTTCCTCGTGCAGTAG	CC2
SMC16.T.TTTCCTCTCATGTCTT	CC1
SMC16.T.TTTCCTCTCCGCATAA	CC2
SMC16.T.TTTGCGCTCAGATAAG	CC1
SMC16.T.TTTGCGCTCTCCCTGA	CC1
SMC16.T.TTTGGTTAGTGTTAGA	CC1
SMC16.T.TTTGGTTCAGGACCCT	CC2
SMC16.T.TTTGGTTCATGGTAGG	CC2
SMC16.T.TTTGGTTTCCAGAGGA	CC1
SMC16.T.TTTGGTTTCGTAGATC	CC2
SMC16.T.TTTGTCAGTACTCGCG	CC2
SMC16.T.TTTGTCATCTTTAGTC	CC2
SMC17.T.AAACCTGTCTCTGAGA	CC2
SMC17.T.AAAGATGGTACCGAGA	CC2
SMC17.T.AAAGCAAGTTATGCGT	CC2
SMC17.T.AAAGTAGCAGTAACGG	CC2
SMC17.T.AACACGTCATCCGGGT	CC2
SMC17.T.AACACGTTCCCTAATT	CC2
SMC17.T.AACCATGGTCGACTAT	CC2
SMC17.T.AACCATGTCCAAGTAC	CC2
SMC17.T.AACGTTGGTCCGTCAG	CC2
SMC17.T.AACTCTTTCTGCTGCT	CC1
SMC17.T.AACTGGTGTCTGGAGA	CC2
SMC17.T.AAGGAGCAGGCTAGCA	CC2
SMC17.T.AAGGAGCCATTAGGCT	CC2
SMC17.T.AAGGAGCGTCTGCCAG	CC2
SMC17.T.AAGGCAGTCCTATGTT	CC2
SMC17.T.AAGGTTCCAAGTCTGT	CC2
SMC17.T.AAGGTTTCGTGGCAAAC	CC2
SMC17.T.AATCCAGAGAGCCCAA	CC2
SMC17.T.AATCGGTCAATGGAAT	CC2
SMC17.T.AATCGGTCAGGGTTAG	CC2
SMC17.T.ACACCCTTCATCGATG	CC2
SMC17.T.ACACCGGAGTATGACA	CC2
SMC17.T.ACAGCCGCACGAAACG	CC2
SMC17.T.ACAGCCGCAGCCTTGG	CC2
SMC17.T.ACAGCCGGTCTCCAT	CC2
SMC17.T.ACAGCTACATCCGCGA	CC2
SMC17.T.ACATACGGTCTACCTC	CC2

SMC17.T.ACATCAGCACAGACTT	CC2
SMC17.T.ACATCAGCAGCTTCGG	CC2
SMC17.T.ACATCAGGTAGCGATG	CC2
SMC17.T.ACATCAGTCGCCATAA	CC2
SMC17.T.ACCAGTAGTCATATCG	CC2
SMC17.T.ACCAGTATCCACGTGG	CC2
SMC17.T.ACCCACTCATCTATGG	CC2
SMC17.T.ACCGTAATCCAACCAA	CC2
SMC17.T.ACCGTAATCTCTTATG	CC2
SMC17.T.ACCTTTATCTTGTATC	CC2
SMC17.T.ACGATAACCAGGTTTCA	CC2
SMC17.T.ACGATGTAGATGCGAC	CC2
SMC17.T.ACGATGTGTATAAACG	CC2
SMC17.T.ACGCCAGTCCGTCATC	CC2
SMC17.T.ACGCCAGTCTCTTATG	CC2
SMC17.T.ACGCCGACAGGACCCT	CC2
SMC17.T.ACGCCGAGTGTGCCTG	CC2
SMC17.T.ACGGAGAGTCTGGTCG	CC2
SMC17.T.ACGGCCAAGAAGGGTA	CC2
SMC17.T.ACGGCCAGTACCGAGA	CC2
SMC17.T.ACGGGTCCACCATGTA	CC2
SMC17.T.ACGTCAACAAAGAATC	CC2
SMC17.T.ACTATCTCAACACCTA	CC2
SMC17.T.ACTATCTTCTGTGCAA	CC2
SMC17.T.ACTGAACCAGGATCGA	CC2
SMC17.T.ACTGAGTCAAGCTGAG	CC2
SMC17.T.ACTGAGTCACCGGAAA	CC2
SMC17.T.ACTGAGTTCTCGCATC	CC2
SMC17.T.ACTGATGCAAGAAGAG	CC2
SMC17.T.ACTGTCCTCCATGAGT	CC2
SMC17.T.ACTTACTAGGAGTTTA	CC2
SMC17.T.ACTTACTCAGATCCAT	CC2
SMC17.T.ACTTACTGTTAGATGA	CC2
SMC17.T.ACTTACTTCTACTATC	CC2
SMC17.T.ACTTTCAGTGTTTTGTG	CC2
SMC17.T.AGAATAGCAGGTTTCA	CC2
SMC17.T.AGACGTTAGGTGCTAG	CC2
SMC17.T.AGACGTTACATGACT	CC2
SMC17.T.AGACGTTGTTGTTTTG	CC2
SMC17.T.AGAGCGACAGTAGAGC	CC2
SMC17.T.AGAGTGGCACCGAATT	CC2
SMC17.T.AGATCTGAGCGTGAGT	CC2
SMC17.T.AGATTGCAGTCTTGCA	CC2
SMC17.T.AGCATACAGACTTGAA	CC2
SMC17.T.AGCGTATTCCGTAGTA	CC2
SMC17.T.AGCTCCTAGCTGAACG	CC2
SMC17.T.AGCTCCTTCTTTAGTC	CC2
SMC17.T.AGGCCGTCAGCTTCGG	CC2
SMC17.T.AGGGAGTCAAACGCGA	CC2
SMC17.T.AGGGAGTTCGAGAGCA	CC2
SMC17.T.AGGTCATGTCACCCAG	CC2
SMC17.T.AGGTCCGGTCTCCATC	CC2
SMC17.T.AGTCTTTAGCTGCAAG	CC2
SMC17.T.AGTCTTTCAAGAGTCG	CC2
SMC17.T.AGTGAGGAGGAGTCTG	CC2
SMC17.T.AGTGAGGCAACCGCCA	CC2
SMC17.T.AGTGAGGCAGACTCGC	CC2
SMC17.T.AGTGAGGTCAAGCCTA	CC2

SMC17.T.AGTGAGGTCGTGGGAA	CC2
SMC17.T.ATAAGAGCAGGCGATA	CC2
SMC17.T.ATAGACCGTACATCCA	CC2
SMC17.T.ATCACGATCTTGGGTA	CC2
SMC17.T.ATCATCTCACCAACCG	CC2
SMC17.T.ATCATCTCACGCGAAA	CC2
SMC17.T.ATCCGAACACTTAACG	CC2
SMC17.T.ATCCGAAGTACTCAAC	CC2
SMC17.T.ATCTACTCAATAGCGG	CC2
SMC17.T.ATCTACTGTCAAAGAT	CC2
SMC17.T.ATCTGCCAGTGTTGAA	CC2
SMC17.T.ATCTGCCTCTCGCATC	CC2
SMC17.T.ATGCGATTCACTCCTG	CC2
SMC17.T.ATGCGATTCCGCATCT	CC2
SMC17.T.ATGGGAGCAAGCTGTT	CC2
SMC17.T.ATGGGAGGTCCTCTTG	CC2
SMC17.T.ATTACTCCAGAGTGTG	CC2
SMC17.T.ATTACTCTGCTGTC	CC2
SMC17.T.ATTGGACGTAGCGCAA	CC2
SMC17.T.CAACCAAAGAGCTATA	CC2
SMC17.T.CAACCTCAGAGCTTCT	CC2
SMC17.T.CAACCTCCATAACCTG	CC2
SMC17.T.CAACTAGGTACCGTAT	CC2
SMC17.T.CAAGGCCAGTGCGATG	CC2
SMC17.T.CAAGTTGTCTGGTATG	CC2
SMC17.T.CACACAAAGACTGGGT	CC2
SMC17.T.CACACAACAATCTACG	CC2
SMC17.T.CACACAATCCCTAATT	CC2
SMC17.T.CACACAATCTTTACAC	CC2
SMC17.T.CACACTCTCCTACAGA	CC2
SMC17.T.CACAGGCCACGAAAGC	CC2
SMC17.T.CACATAGAGAACTGTA	CC2
SMC17.T.CACATAGAGTACTTGC	CC2
SMC17.T.CACATTTAGGTAGCCA	CC2
SMC17.T.CACCACTTCACCCGAG	CC2
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SMC17.T.CACCACTTCTGCGTAA	CC2
SMC17.T.CACCAGGCAATGACCT	CC2
SMC17.T.CACCTTGCAGTATAAG	CC2
SMC17.T.CACTCCAAGAGCCTAG	CC2
SMC17.T.CAGAATCCAAGCGCTC	CC2
SMC17.T.CAGATCAGTTACCGAT	CC2
SMC17.T.CAGCAGCCATGTCCTC	CC2
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SMC17.T.CAGCATAAGTTTAGGA	CC2
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SMC17.T.CAGCCGAGTTTGACAC	CC2
SMC17.T.CAGCCGATCAATCTCT	CC2
SMC17.T.CAGCCGATCGTGTAGT	CC2
SMC17.T.CAGCTAAAGGATGGAA	CC2
SMC17.T.CAGGTGCCAGTACACT	CC2
SMC17.T.CAGGTGCGTTGGTGGA	CC2
SMC17.T.CAGTAACCAAATTGCC	CC2
SMC17.T.CAGTAACCACTATCC	CC2
SMC17.T.CAGTAACGTTGCGCAC	CC2
SMC17.T.CAGTCCTAGCTCCTCT	CC2
SMC17.T.CAGTCCTTCTGTCTCG	CC2
SMC17.T.CATATGGAGAGGTAGA	CC2

SMC17.T.CATATGGCAGCGTCCA	CC2
SMC17.T.CATATGGTCCGTAGGC	CC2
SMC17.T.CATATTCGTGTTTCGAT	CC2
SMC17.T.CATCAAGGTCTGAATCT	CC2
SMC17.T.CATCAAGGTGGAAAGA	CC2
SMC17.T.CATCAAGTCACGAAGG	CC2
SMC17.T.CATCAGACAGCGTCCA	CC2
SMC17.T.CATCGAACAAAGTGCG	CC2
SMC17.T.CATCGAACATGGTCAT	CC2
SMC17.T.CATGACAAGTGACTCT	CC2
SMC17.T.CATGCCTAGGTTCCCTA	CC2
SMC17.T.CATTATCCACTTAACG	CC2
SMC17.T.CCAATCCAGAACAACCT	CC2
SMC17.T.CCAATCCGTCCTCCAT	CC2
SMC17.T.CCAATCCGTGCACTTA	CC2
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SMC17.T.CCACTACAGGGAAACA	CC2
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SMC17.T.CCCAATCGTACCTACA	CC2
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SMC17.T.CGACCTTTCCCTTTCTC	CC2
SMC17.T.CGACTTCCATTCTCG	CC2
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SMC17.T.CGAGAAGTCGTACCGG	CC2
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SMC17.T.CGAGCACGTACGAAAT	CC2
SMC17.T.CGAGCCAAGTGGTCCC	CC2
SMC17.T.CGATCGGCAGTAAGAT	CC2
SMC17.T.CGATGTACATCCAACA	CC2
SMC17.T.CGATGTAGTCGTCTTC	CC1
SMC17.T.CGATTGACAGAGTGTG	CC2

SMC17.T.CGCCAAGGTAGATTAG	CC2
SMC17.T.CGCGGTACAAGCCGTC	CC2
SMC17.T.CGCGGTACATTTCACT	CC2
SMC17.T.CGCGTTTTCAAGAAGT	CC2
SMC17.T.CGCTATCCACCCTATC	CC2
SMC17.T.CGCTGGATCCTGCCAT	CC2
SMC17.T.CGCTTCAGTCGGGTCT	CC2
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SMC17.T.CGGACACTCAAGGTAA	CC2
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SMC17.T.CGTCCATGTAGAAAGG	CC2
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SMC17.T.CTACGTCAGCAACGGT	CC2
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SMC17.T.CTAGTGAGTACCGCTG	CC2
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SMC17.T.CTCACACGTGACTCAT	CC2
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SMC17.T.CTCGTCAAGACCGGAT	CC2
SMC17.T.CTCGTCAAGTACCGTTA	CC2
SMC17.T.CTCTAATAGCACCGTC	CC2
SMC17.T.CTCTAATTCAGAGACG	CC2

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SMC17.T.CTGAAACCATATGGTC	CC2
SMC17.T.CTGAAGTTCAAACCAC	CC2
SMC17.T.CTGCCTAAGAGACTTA	CC2
SMC17.T.CTGCTGTCAATAGCGG	CC2
SMC17.T.CTGCTGTGTGTCGCTG	CC2
SMC17.T.CTGCTGTTCTTTATG	CC2
SMC17.T.CTGGTCTCAGGAATGC	CC2
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SMC17.T.CTGTTTATCTTTAGTC	CC2
SMC17.T.CTTAACTTCCTTCAAT	CC2
SMC17.T.CTTAGGACAGGGTTAG	CC2
SMC17.T.CTTGGCTAGATCGGGT	CC2
SMC17.T.CTTTGCCTTTAGAGC	CC2
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SMC17.T.GAAATGACACCATGTA	CC2
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SMC17.T.GAACATCAGCTGCAAG	CC2
SMC17.T.GAACATCGTGCAACTT	CC2
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SMC17.T.GACCAATAGAACTGTA	CC2
SMC17.T.GACGCGTAGTAACCCT	CC2
SMC17.T.GACGCGTTCTTCCTTC	CC2
SMC17.T.GACGGCTAGCTAACTC	CC2
SMC17.T.GACGGCTTCGCACTCT	CC2
SMC17.T.GACGTTATCTAACTGG	CC2
SMC17.T.GACTAACAGCCACTAT	CC2
SMC17.T.GACTAACCACGCATCG	CC2
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SMC17.T.GAGCAGATCTCTGTCG	CC2
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SMC17.T.GATTCAGAGGCTAGAC	CC2
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SMC17.T.GCAGTTATCCGGCACA	CC2
SMC17.T.GCATACAAGTAGTGCG	CC2
SMC17.T.GCATGATTCAATACCG	CC2

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SMC17.T.GCATGTAAGCTGAAAT	CC2
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SMC17.T.GCCAAATGTAGCTGCC	CC2
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SMC17.T.GCGAGAACAGTTCCT	CC2
SMC17.T.GCGCAGTAGGAATTAC	CC2
SMC17.T.GCGCAGTAGTGACTCT	CC2
SMC17.T.GCGCGATCACCACCAG	CC2
SMC17.T.GCTCCTACAAACGCGA	CC2
SMC17.T.GCTCCTAGTAATCGTC	CC2
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SMC17.T.GCTGCGAAGTGACATA	CC2
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SMC17.T.GCTTCCAAGTGTGGCA	CC2
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SMC17.T.GCTTCCAGTTGAGGTG	CC2
SMC17.T.GGAAAGCCATTACGAC	CC2
SMC17.T.GGAAAGCTCTGCTTGC	CC2
SMC17.T.GGAACTTAGAATGTTG	CC2
SMC17.T.GGAACTTCATGCCCGA	CC2
SMC17.T.GGAACTTTCAGAAATG	CC2
SMC17.T.GGAACTTTCCTGACTT	CC2
SMC17.T.GGACAAGCAATGCCAT	CC2
SMC17.T.GGACAAGTCCACGTGG	CC2
SMC17.T.GGACAGACACCTCGTT	CC2
SMC17.T.GGACATTTCTGTCTAT	CC2
SMC17.T.GGACGTCGTGTGGTTT	CC2
SMC17.T.GGAGCAAAGTGACTCT	CC2
SMC17.T.GGAGCAATCCCATTAT	CC2
SMC17.T.GGATGTTGTAAGTAGT	CC2
SMC17.T.GGATTACCAACACCTA	CC2
SMC17.T.GGCGACTTCTGGTATG	CC2
SMC17.T.GGCTCGACAGGTCGTC	CC2
SMC17.T.GGCTCGATCGGAGGTA	CC2
SMC17.T.GGCTCGATCTGCGGCA	CC2
SMC17.T.GGCTGGTGTCCGGCA	CC2
SMC17.T.GGGAATGTCCTTGGTC	CC2
SMC17.T.GGGAATGTCTGCCAGG	CC2
SMC17.T.GGGAGATGTGGCGAAT	CC2
SMC17.T.GGGAGATTCACCGGGT	CC2
SMC17.T.GGGATGAGTTCAGTAC	CC2
SMC17.T.GGGCACTCAATACGCT	CC2
SMC17.T.GGGTCTGTCACCGGGT	CC2
SMC17.T.GGTGAAGTCGCGCCAA	CC2
SMC17.T.GGTGCGTCAATCTGCA	CC2
SMC17.T.GGTGTTAAGACAAAGG	CC2
SMC17.T.GGTGTTATCAGGCGAA	CC1
SMC17.T.GGTGTTATCCCTGACT	CC2
SMC17.T.GTAACGTAGAGACTTA	CC2
SMC17.T.GTACTCCAGTCCGTAT	CC2
SMC17.T.GTACTCCAGTGATCGG	CC2
SMC17.T.GTAGGCCTCATGTGGT	CC2
SMC17.T.GTAGGCCTCTTGACT	CC2
SMC17.T.GTATCTTAGCCGCTA	CC2
SMC17.T.GTATCTTCATATACCG	CC2
SMC17.T.GTATTCTAGCCGATTT	CC2
SMC17.T.GTATTCTTCCTGTAGA	CC2

SMC17.T.GTCAAGTAGCTGGAAC	CC2
SMC17.T.GTCAAGTCAGTCGTGC	CC2
SMC17.T.GTCAAGTTCAGCTCTC	CC2
SMC17.T.GTCAAGTTCTGCTGCT	CC2
SMC17.T.GTCACAAAGCAGGTCA	CC2
SMC17.T.GTCGGGTGTTAGATGA	CC2
SMC17.T.GTCGTAACATCGGGTC	CC2
SMC17.T.GTGCAGCCACAAGTAA	CC2
SMC17.T.GTGCAGCCACTTCGAA	CC2
SMC17.T.GTGCAGCTCGTAGATC	CC2
SMC17.T.GTGCGGTTCTGCGTAA	CC2
SMC17.T.GTGGGTCCACCATCCT	CC2
SMC17.T.GTGGGTCTCAAGAAGT	CC2
SMC17.T.GTGTGCGAGTAGGTGC	CC2
SMC17.T.GTGTGCGTCCCTGACT	CC2
SMC17.T.GTGTGCGTCGTACGGC	CC2
SMC17.T.GTGTTAGAGAGCTATA	CC2
SMC17.T.GTTACAGTCGTAGGTT	CC2
SMC17.T.GTTCGGGAGACACGAC	CC2
SMC17.T.GTTCGGGTCTGTTGAG	CC2
SMC17.T.GTTTCTAGTGTGAATA	CC2
SMC17.T.TAAACCGGTTGATTGC	CC2
SMC17.T.TAAGAGACATGCATGT	CC2
SMC17.T.TACCTATGTCCAATA	CC2
SMC17.T.TACCTATGTCTAGCGC	CC2
SMC17.T.TACCTTAAGAAACCTA	CC2
SMC17.T.TACCTTATCGTTACAG	CC2
SMC17.T.TACGGGCGTAAGTGGC	CC2
SMC17.T.TACGGGCGTTACGTCA	CC2
SMC17.T.TACTCGCTCCTGTACC	CC2
SMC17.T.TACTCGCTCGGCTACG	CC2
SMC17.T.TACTTACAGCGTTGCC	CC2
SMC17.T.TACTTACTCACCTTAT	CC2
SMC17.T.TAGACCAAGCTCTCGG	CC2
SMC17.T.TAGAGCTGTATGGTTC	CC2
SMC17.T.TAGCCGGTCAACCAAC	CC2
SMC17.T.TAGTGGTTCTGTCAAG	CC2
SMC17.T.TAGTTGGAGGGCACTA	CC2
SMC17.T.TATGCCCCAAGTAGTA	CC2
SMC17.T.TATGCCCCACTGTCCG	CC2
SMC17.T.TATGCCCCGTCGAACAG	CC2
SMC17.T.TATTACCGTGGTCTCG	CC2
SMC17.T.TCAACGAAGACCGGAT	CC2
SMC17.T.TCAACGAGTTGATTG	CC2
SMC17.T.TCAATCTCATCCGCGA	CC2
SMC17.T.TCACAAGAGTTACGGG	CC2
SMC17.T.TCACGAAAGTACGATA	CC2
SMC17.T.TCAGATGGTGCAGGTA	CC2
SMC17.T.TCAGCTCGTTGATTGC	CC2
SMC17.T.TCAGGATCAAGTAATG	CC2
SMC17.T.TCAGGTAAGCCCAGCT	CC2
SMC17.T.TCAGGTAAGTATTGGA	CC2
SMC17.T.TCAGGTAGTAGAAGGA	CC2
SMC17.T.TCATTGTCTAGCACA	CC2
SMC17.T.TCCACACGTCCGTCAG	CC2
SMC17.T.TCCCGATTCAACACCA	CC2
SMC17.T.TCCCGATTGCTAGCG	CC2
SMC17.T.TCGAGGCGTCGAGATG	CC2

SMC17.T.TCGCGAGTCCTATTCA	CC2
SMC17.T.TCGCGTTAGACGCACA	CC2
SMC17.T.TCGGGACAGAACAAC	CC2
SMC17.T.TCGGGACAGTAGTGCG	CC2
SMC17.T.TCGTACCTCTCCAGGG	CC2
SMC17.T.TCTATTGTGCAACGGA	CC2
SMC17.T.TCTCATAAGTCCGGTC	CC2
SMC17.T.TCTCATATCCCTCAGT	CC2
SMC17.T.TCTTCGGAGTCATCCA	CC2
SMC17.T.TCTTTCCAGCGTGTCC	CC2
SMC17.T.TCTTTCCGTGACAAAT	CC2
SMC17.T.TGACGGCTCTCAACTT	CC2
SMC17.T.TGACTTTGTGTGGTTT	CC2
SMC17.T.TGAGAGGGTAGCCTAT	CC2
SMC17.T.TGAGAGGTCCAAGTAC	CC2
SMC17.T.TGAGCCGCAAGGACTG	CC2
SMC17.T.TGAGCCGCATCGGGTC	CC2
SMC17.T.TGAGGGAAGAGGTTGC	CC2
SMC17.T.TGAGGGATCTGATTCT	CC2
SMC17.T.TGATTTCAGGCACATG	CC2
SMC17.T.TGATTTCAGTTAACGA	CC2
SMC17.T.TGATTTCTCGCCAAAT	CC2
SMC17.T.TGCACCTTCAGGATCT	CC2
SMC17.T.TGCCAAACAGGTGCCT	CC2
SMC17.T.TGCCCATGTCTTCTCG	CC2
SMC17.T.TGCCCTAAGCCAGTTT	CC2
SMC17.T.TGCCCTAAGGTGTGGT	CC2
SMC17.T.TGCGGGTGTAGAAGGA	CC2
SMC17.T.TGCGGGTGTTTACTCT	CC2
SMC17.T.TGCTACCTCCACTGGG	CC2
SMC17.T.TGCTGCTTCCGCAGTG	CC2
SMC17.T.TGGCCAGCATCCCACT	CC2
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SMC17.T.TGGCGCAAGCTTATCG	CC2
SMC17.T.TGGCTGGAGAACTGTA	CC2
SMC17.T.TGGTTCCAGTACGATA	CC2
SMC17.T.TGTATTCTCAACCAAC	CC2
SMC17.T.TGTCCCACAACCTGGCC	CC2
SMC17.T.TGTCCCAGTTTCGCTC	CC2
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SMC17.T.TGTGGTACATGGAATA	CC2
SMC17.T.TGTGGTATCTATCGCC	CC2
SMC17.T.TGTGTTTGTGCGATG	CC2
SMC17.T.TGTGTTTCACTACAGT	CC2
SMC17.T.TTAGGACGTTGCGCAC	CC2
SMC17.T.TTAGGCACACATCCGG	CC2
SMC17.T.TTAGGCAGTTCTGAAC	CC2
SMC17.T.TTATGCTCACATTAGC	CC2
SMC17.T.TTATGCTCAGTTCCCT	CC2
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SMC17.T.TTATGCTTCAACGGCC	CC2
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SMC17.T.TTCCCAGTCATTCACT	CC2
SMC17.T.TTCGAAGAGGATGGAA	CC2
SMC17.T.TTCTACAAGGGCTCTC	CC2
SMC17.T.TTCTCCTAGAAAAGTGG	CC2
SMC17.T.TTCTTAGAGAGACGAA	CC2

SMC17.T.TTGACTTCAAGACACG	CC2
SMC17.T.TTGCCGTGTCCATGAT	CC2
SMC17.T.TTGCGTCAGTGGTAAT	CC2
SMC17.T.TTGCGTCCACCGATAT	CC2
SMC17.T.TTGGCAATCCGCAAGC	CC2
SMC17.T.TTGGCAATCGGAATCT	CC2
SMC17.T.TTTACTGTACCCCTCA	CC2
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SMC17.T.TTTATGCGTAGCGCTC	CC2
SMC17.T.TTTCCTCGTCCGAATT	CC2
SMC17.T.TTTGCGCCAAGTTGTC	CC2
SMC17.T.TTTGCGCGTATAAACG	CC2
SMC17.T.TTTGCGCGTATAATGG	CC2
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SMC18.T.AAACCTGCAAATCCGT	CC1
SMC18.T.AAACCTGGTTACGGAG	CC1
SMC18.T.AAACCTGTCTCAACTT	CC1
SMC18.T.AAACGGGAGCCCGAAA	CC1
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SMC18.T.AAACGGGCAGGTTTCA	CC1
SMC18.T.AAACGGGGTAGAAGGA	CC1
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SMC18.T.AAACGGGGTGTGCGTC	CC1
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SMC18.T.AAAGATGTCGCTGATA	CC1
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SMC18.T.AAAGCAAAGTAGGTGC	CC1
SMC18.T.AAAGCAACACATTCTGA	CC1
SMC18.T.AAAGCAAGTACCGGCT	CC1
SMC18.T.AAAGCAATCCTAAGTG	CC1
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SMC18.T.AACTCCCTCCCTCAGT	CC1

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SMC18.T.AGGGTGAGTGGACGAT	CC1
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SMC18.T.AGGTCATAGTAGGTGC	CC1
SMC18.T.AGGTCATGTCGCTTCT	CC1

SMC18.T.AGGTCATTCAACGGCC	CC1
SMC18.T.AGGTCCGCATAGGATA	CC1
SMC18.T.AGGTCCGGTCTAGCGC	CC1
SMC18.T.AGGTCCGGTTTGTGG	CC1
SMC18.T.AGTAGTCAGGCATTGG	CC1
SMC18.T.AGTAGTCAGTGGTCCC	CC1
SMC18.T.AGTAGTCCAACCTGCTA	CC2
SMC18.T.AGTCTTTCACTTCGAA	CC1
SMC18.T.AGTCTTTCAGATTGCT	CC1
SMC18.T.AGTCTTTGTCAGTGGA	CC1
SMC18.T.AGTGAGGAGCAGATCG	CC1
SMC18.T.AGTGAGGCATGCCCGA	CC1
SMC18.T.AGTGTCACACGCGAAA	CC1
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SMC18.T.ATAGACCAGCCAGTTT	CC1
SMC18.T.ATAGACCAGGGTGTTG	CC1
SMC18.T.ATAGACCTCGAATGCT	CC1
SMC18.T.ATCACGAAGACTGGGT	CC1
SMC18.T.ATCACGAAGTACCGGA	CC2
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SMC18.T.ATCACGATCTGTCAAG	CC1
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SMC18.T.ATCATCTGTACAGTTC	CC1
SMC18.T.ATCATGGAGATCCGAG	CC1
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SMC18.T.ATCATGGGTCTTCAAG	CC1
SMC18.T.ATCATGGGTCTTCGTC	CC1
SMC18.T.ATCCACCCAGCGATCC	CC1
SMC18.T.ATCCACCCATTAGGCT	CC1
SMC18.T.ATCCACCGTACAAGTA	CC1
SMC18.T.ATCCACCGTATAATGG	CC1
SMC18.T.ATCCACCTCAGGCCCA	CC1
SMC18.T.ATCCGAACACCGCTAG	CC1
SMC18.T.ATCCGAAGTCCGAATT	CC1
SMC18.T.ATCCGAAGTTAAGGGC	CC1
SMC18.T.ATCCGAATCTATCCCG	CC1
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SMC18.T.ATCGAGTCAGCTCCGA	CC1
SMC18.T.ATCGAGTCAGGTGCCT	CC1
SMC18.T.ATCGAGTGTATCGGC	CC1
SMC18.T.ATCGAGTTCGGTCAA	CC1
SMC18.T.ATCGAGTTCGGTTCG	CC1
SMC18.T.ATCTGCCCAATCACAC	CC1
SMC18.T.ATCTGCCTCCCTCAGT	CC1
SMC18.T.ATGAGGGAGCTGCCCA	CC1
SMC18.T.ATGAGGGCACCAACCG	CC1
SMC18.T.ATGAGGGGTAGAGTGC	CC1
SMC18.T.ATGAGGGGTCCATGAT	CC1
SMC18.T.ATGAGGGGTCCGAGTC	CC1
SMC18.T.ATGAGGGGTGTGCCTG	CC1

SMC18.T.ATGAGGGTCACCACCT	CC1
SMC18.T.ATGCGATAGCAATCTC	CC1
SMC18.T.ATGCGATAGCGTCTAT	CC1
SMC18.T.ATGCGATAGCTCCTCT	CC1
SMC18.T.ATGCGATAGCTTATCG	CC1
SMC18.T.ATGCGATCATTGGGCC	CC1
SMC18.T.ATGCGATGTGGTGTAG	CC1
SMC18.T.ATGCGATTCAAGAAGT	CC1
SMC18.T.ATGGGAGAGCTGATAA	CC1
SMC18.T.ATGGGAGCACTGCCAG	CC1
SMC18.T.ATGGGAGCATAAGACA	CC1
SMC18.T.ATGGGAGGTCAAAGAT	CC1
SMC18.T.ATGGGAGGTTTGCATG	CC1
SMC18.T.ATGTGTGCATCACGTA	CC1
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SMC18.T.ATTCTACTCCCCTTG	CC1
SMC18.T.ATTGGACCAAAGTCAA	CC1
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SMC18.T.CACACCTTCTTACCTA	CC1
SMC18.T.CACACTCGTGGTTTCA	CC1
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SMC18.T.CACCTTGGTAGGACAC	CC1
SMC18.T.CACCTTGGTTATCCGA	CC1
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SMC18.T.CTCGAAATCTGTCAAG	CC1
SMC18.T.CTCGAGGAGGGTTCCC	CC1
SMC18.T.CTCGAGGCAATCCGAT	CC1
SMC18.T.CTCGAGGCAAGTGGGAT	CC1
SMC18.T.CTCGAGGGTACGCTGC	CC1

SMC18.T.CTCGGAGTCCACTGGG	CC1
SMC18.T.CTCGGGAAGGCGACAT	CC1
SMC18.T.CTCGGGAGTTAAAGTG	CC1
SMC18.T.CTCGGGATCATCACCC	CC1
SMC18.T.CTCGTACCACCTCGGA	CC1
SMC18.T.CTCGTACCATTATCTC	CC1
SMC18.T.CTCGTACGTAAGTAGT	CC1
SMC18.T.CTCGTACTCCCATTAT	CC1
SMC18.T.CTCGTCAAGTACGCCC	CC1
SMC18.T.CTCGTCAAGTGTTAGA	CC1
SMC18.T.CTCGTCACACAGACTT	CC1
SMC18.T.CTCGTCACATGACATC	CC1
SMC18.T.CTCTAATAGCAGATCG	CC1
SMC18.T.CTCTAATCACTACAGT	CC1
SMC18.T.CTCTAATTCGGCGCTA	CC1
SMC18.T.CTCTACGAGGCATGGT	CC1
SMC18.T.CTCTACGGTATATCCG	CC1
SMC18.T.CTCTACGGTTCCCGAG	CC1
SMC18.T.CTCTGGTAGAAACCAT	CC1
SMC18.T.CTCTGGTAGGCATGTG	CC1
SMC18.T.CTCTGGTCATGCATGT	CC1
SMC18.T.CTCTGGTGTTACTGAC	CC1
SMC18.T.CTCTGGTTCCTGACT	CC1
SMC18.T.CTGAAACAGTTGCAGG	CC1
SMC18.T.CTGAAACCAAGTGGGAT	CC1
SMC18.T.CTGAAACTCGGCGCTA	CC1
SMC18.T.CTGAAGTAGACACGAC	CC1
SMC18.T.CTGAAGTCACAGGTTT	CC1
SMC18.T.CTGAAGTTCCTAGGGC	CC1
SMC18.T.CTGAAGTTCATCGCC	CC1
SMC18.T.CTGATAGCACGGTTTA	CC1
SMC18.T.CTGATAGGTATCGCAT	CC1
SMC18.T.CTGATAGGTTGCGTTA	CC1
SMC18.T.CTGATCCAGGTGATTA	CC1
SMC18.T.CTGCCTAGTGCTGTAT	CC1
SMC18.T.CTGCGGAAGGGTTCCC	CC1
SMC18.T.CTGCGGAAGTGACATA	CC1
SMC18.T.CTGCGGAAGTGCAAGC	CC1
SMC18.T.CTGCGGACAGTGACAG	CC1
SMC18.T.CTGCGGATCTAACGGT	CC1
SMC18.T.CTGCTGTCACCAGCAC	CC1
SMC18.T.CTGCTGTCATTTGCTT	CC1
SMC18.T.CTGCTGTTTCAGGCGAA	CC1
SMC18.T.CTGGTCTAGTGACCT	CC1
SMC18.T.CTGGTCTCACATAACC	CC1
SMC18.T.CTGGTCTCAGCGAACA	CC1
SMC18.T.CTGGTCTGTCTAACGT	CC1
SMC18.T.CTGTGCTTCAACACCA	CC1
SMC18.T.CTGTTTAGTAGTAGTA	CC1
SMC18.T.CTGTTTAGTTTGTTTC	CC1
SMC18.T.CTTAACTAGCGTTGCC	CC1
SMC18.T.CTTAACTAGCTCCTTC	CC1
SMC18.T.CTTAACTAGTAACCCT	CC1
SMC18.T.CTTAACTCAACACGCC	CC1
SMC18.T.CTTAACTCAAGCCATT	CC1
SMC18.T.CTTAACTGTGACCAAG	CC1
SMC18.T.CTTAACTTCGGTGTTA	CC1
SMC18.T.CTTACCGAGTGGGTTG	CC1

SMC18.T.CTTACCGGTGACTCAT	CC1
SMC18.T.CTTACCGTTACGTCA	CC1
SMC18.T.CTTACCGTCCTAGAAC	CC1
SMC18.T.CTTAGGAAGAAACGAG	CC1
SMC18.T.CTTAGGACAATGGAAT	CC1
SMC18.T.CTTAGGACACAGCCCA	CC1
SMC18.T.CTTAGGAGTGCTTCTC	CC1
SMC18.T.CTTAGGATCCTTTCGG	CC1
SMC18.T.CTTAGGATCGGAAATA	CC1
SMC18.T.CTTCTCTAGAGTACAT	CC1
SMC18.T.CTTCTCTAGGCTCATT	CC1
SMC18.T.CTTCTCTAGTGACTCT	CC1
SMC18.T.CTTCTCTCAACGATCT	CC1
SMC18.T.CTTCTCTCAGACAAAT	CC1
SMC18.T.CTTCTCTCAGACAAGC	CC1
SMC18.T.CTTCTCTTCTACCTGC	CC1
SMC18.T.CTTGGCTAGCTAGCCC	CC1
SMC18.T.CTTGGCTGTACAAGTA	CC1
SMC18.T.CTTGGCTGTAGCACGA	CC1
SMC18.T.CTTGGCTGTTACGACT	CC1
SMC18.T.CTTGGCTTCAACGCTA	CC1
SMC18.T.CTTGGCTTCAATCACG	CC1
SMC18.T.CTTTGCGGTCCGCTGA	CC1
SMC18.T.CTTTGCGTCCGTCAGG	CC1
SMC18.T.GAAACTCAGCCTCGTG	CC1
SMC18.T.GAAACTCCATCGGTTA	CC1
SMC18.T.GAAACTCGTATAAACG	CC1
SMC18.T.GAAACTCGTTATCCGA	CC1
SMC18.T.GAAACTCTCCGCGCAA	CC1
SMC18.T.GAAATGAGTCCATGAT	CC1
SMC18.T.GAACATCAGACCTTTG	CC1
SMC18.T.GAACATCGTAGAGGAA	CC1
SMC18.T.GAACATCGTTTAGGAA	CC1
SMC18.T.GAACATCGTTTCCACC	CC1
SMC18.T.GAACATCTCATCGGAT	CC1
SMC18.T.GAACCTACAGATTGCT	CC1
SMC18.T.GAACCTATCAAAGACA	CC1
SMC18.T.GAACGGACAATCCGAT	CC1
SMC18.T.GAACGGAGTTGCGTTA	CC1
SMC18.T.GAAGCAGCAGGTTTCA	CC1
SMC18.T.GAAGCAGGTCGAGATG	CC1
SMC18.T.GAATAAGAGAAGATTC	CC1
SMC18.T.GAATAAGAGAGTAAGG	CC1
SMC18.T.GAATAAGTCTCCTATA	CC1
SMC18.T.GAATGAAGTTGGACCC	CC1
SMC18.T.GAATGAATCGTGACAT	CC1
SMC18.T.GACACGCAGCAACGGT	CC1
SMC18.T.GACACGCGTCAACTGT	CC2
SMC18.T.GACACGCTCTCCACT	CC1
SMC18.T.GACACGCTCCCGGATG	CC1
SMC18.T.GACAGAGCAGCCAGAA	CC1
SMC18.T.GACAGAGGTACTIONAGC	CC1
SMC18.T.GACAGAGGTGTTTGTG	CC1
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SMC18.T.GACGCGTTCAATACCG	CC1
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SMC18.T.GACGGCTGTCTAACGT	CC1

SMC18.T.GACGGCTGTTCTGGTA	CC1
SMC18.T.GACGTGCAGTTGCAGG	CC1
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SMC18.T.GACGTGCTCGGTGTTA	CC1
SMC18.T.GACGTTACAAGCTGTT	CC1
SMC18.T.GACGTTATCCGAGCCA	CC1
SMC18.T.GACGTTATCTATCCCG	CC1
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SMC18.T.GACTACATCCGCAGTG	CC1
SMC18.T.GACTACATCGTGTAGT	CC1
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SMC18.T.GACTGCGTCTGGCGAC	CC1
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SMC18.T.GATCTAGTCTGTCCGT	CC1
SMC18.T.GATGAAACATATGGTC	CC1
SMC18.T.GATGAAAGTAAAGTCA	CC1
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SMC18.T.GATGCTATCCCAACGG	CC1
SMC18.T.GATTCAGAGACTTGAA	CC1
SMC18.T.GATTCAGGTTATGCGT	CC1
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SMC18.T.GCAATCAAGCACGCCT	CC1
SMC18.T.GCAATCACACCGCTAG	CC1
SMC18.T.GCAATCACAGCTGGCT	CC1
SMC18.T.GCAATCAGTTTGCGC	CC1
SMC18.T.GCAATCATCGGAGGTA	CC1
SMC18.T.GCACATAGTCGCGGTT	CC1
SMC18.T.GCACATATCCCATTG	CC1
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SMC18.T.TAAGAGAAGCTGTTCA	CC1
SMC18.T.TAAGAGAGTCGAACAG	CC1
SMC18.T.TAAGAGAGTTTGTGTG	CC1
SMC18.T.TAAGCGTAGAAGGTGA	CC1
SMC18.T.TAAGCGTAGATGCGAC	CC1
SMC18.T.TAAGCGTCATGCAACT	CC1
SMC18.T.TAAGCGTGTGAGCGAT	CC1
SMC18.T.TAAGTGCCACGAGAGT	CC1
SMC18.T.TAAGTGCCATCCGCGA	CC1
SMC18.T.TAAGTGCGTAGCGCTC	CC1
SMC18.T.TAAGTGCTCCAAGCCG	CC1
SMC18.T.TACACGAAGAGTACAT	CC1
SMC18.T.TACACGATCATTGGG	CC1
SMC18.T.TACAGTGAGATGTAAC	CC1
SMC18.T.TACAGTGCAAGTCTAC	CC1
SMC18.T.TACCTATAGAAGCCCA	CC1
SMC18.T.TACCTATAGCGATAGC	CC1
SMC18.T.TACCTATCACATCCGG	CC1
SMC18.T.TACCTATTCCTCGCAT	CC1
SMC18.T.TACCTTAAGATGCGAC	CC1
SMC18.T.TACCTTAAGCAATCTC	CC1
SMC18.T.TACCTTAAGCCACGCT	CC1
SMC18.T.TACCTTAAGGAGTCTG	CC1
SMC18.T.TACCTTAAGGGATGGG	CC1
SMC18.T.TACCTTAAGTACATGA	CC1

SMC18.T.TACCTTATCTTGACGA	CC1
SMC18.T.TACGGATAGGGCACTA	CC1
SMC18.T.TACGGATGTCCTGCTT	CC1
SMC18.T.TACGGATTCAAACCGT	CC1
SMC18.T.TACGGATTCTCGATGA	CC1
SMC18.T.TACGGGCAGAGGGCTT	CC1
SMC18.T.TACGGGCCACCTTGTC	CC1
SMC18.T.TACGGCTCCTAGTGA	CC1
SMC18.T.TACGGTAAGAAACCTA	CC1
SMC18.T.TACGGTAAGCTCCTTC	CC1
SMC18.T.TACGGTACAAGCTGAG	CC1
SMC18.T.TACGGTAGTCTCACCT	CC1
SMC18.T.TACGGTAGTCTGATCA	CC1
SMC18.T.TACTCATTCTGTAGT	CC1
SMC18.T.TACTCGCTCCGAATGT	CC1
SMC18.T.TACTTACCAGGAACGT	CC1
SMC18.T.TACTTACTCAGCGATT	CC1
SMC18.T.TACTTACTCGGTTAAC	CC1
SMC18.T.TACTTGTAGGATGGAA	CC1
SMC18.T.TACTTGTAGGCGATAC	CC1
SMC18.T.TAGACCAAGTGCGATG	CC1
SMC18.T.TAGACCAGTTCAACCA	CC1
SMC18.T.TAGAGCTAGTCATCCA	CC1
SMC18.T.TAGAGCTCATTCACTT	CC1
SMC18.T.TAGCCGGCAACGCACC	CC1
SMC18.T.TAGCCGGCAGTCACTA	CC1
SMC18.T.TAGCCGGGTATAATGG	CC1
SMC18.T.TAGCCGGGTATATGGA	CC1
SMC18.T.TAGCCGGTCCGAGCCA	CC1
SMC18.T.TAGCCGGTCGCGCCAA	CC1
SMC18.T.TAGGCATAGTAATCCC	CC1
SMC18.T.TAGGCATTCTGTAGATC	CC1
SMC18.T.TAGGCATTCTGTCTG	CC1
SMC18.T.TAGTGGTAGGTCATCT	CC1
SMC18.T.TAGTGGTCACTGTTAG	CC1
SMC18.T.TAGTGGTTCTGTTGAG	CC1
SMC18.T.TAGTTGGAGAAGGTTT	CC1
SMC18.T.TAGTTGGCATTGGTAC	CC1
SMC18.T.TATCAGGAGAGGTTGC	CC1
SMC18.T.TATCAGGAGCTGAACG	CC1
SMC18.T.TATCAGGTCAAACAAG	CC1
SMC18.T.TATCTCAAGATGCCAG	CC1
SMC18.T.TATCTCAAGATGGGTC	CC1
SMC18.T.TATCTCACACATGGGA	CC1
SMC18.T.TATCTCACACCGATAT	CC1
SMC18.T.TATCTCACATAGAAAC	CC1
SMC18.T.TATCTCATCAGCTCTC	CC1
SMC18.T.TATGCCCCATCACAAC	CC1
SMC18.T.TATGCCCCATGTCTCC	CC1
SMC18.T.TATGCCCCGTTACGCGC	CC1
SMC18.T.TCAACGACACAGACAG	CC1
SMC18.T.TCAACGACACCTATCC	CC1
SMC18.T.TCAACGAGTAAGGATT	CC1
SMC18.T.TCAACGATCTGGTTCC	CC1
SMC18.T.TCAATCTAGTCTCGGC	CC1
SMC18.T.TCAATCTCAAGAGGCT	CC1
SMC18.T.TCAATCTCAGATAAG	CC1
SMC18.T.TCACAAGAGAAACGCC	CC1

SMC18.T.TCACAAGTCAGTTTGG	CC1
SMC18.T.TCACAAGTCGGATGGA	CC1
SMC18.T.TCACAAGTCTCGAGTA	CC1
SMC18.T.TCACGAAAGATCCCAT	CC1
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SMC18.T.TCAGATGGTCCGTGAC	CC1
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SMC18.T.TCAGCAATCTCCAGGG	CC1
SMC18.T.TCAGCTCAGATCTGCT	CC1
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SMC18.T.TCAGGATTCGAGAGCA	CC1
SMC18.T.TCAGGTAAGATCTGCT	CC1
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SMC18.T.TCGAGGCCAGTCTTCC	CC1
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SMC18.T.TCTCTAAGTGACTCAT	CC1
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SMC18.T.TGAAAGATCCACTGGG	CC1
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SMC18.T.TGACGGCCACGAGGTA	CC1
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SMC18.T.TGAGAGGCAGGCTGAA	CC1
SMC18.T.TGAGCATAGACTAAGT	CC1
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SMC19.T.ACTGCTCGTGAGGGAG	CC2
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SMC19.T.CACATAGTCCTGCAGG	CC2
SMC19.T.CACCACTTCTGATACG	CC2
SMC19.T.CACCAGTCACTGGGC	CC1
SMC19.T.CAGCAGCAGGATATAC	CC2
SMC19.T.CAGCAGCAGTTCGCAT	CC2
SMC19.T.CAGCAGCGTCTGGAGA	CC1
SMC19.T.CAGGTGCCATGTTGAC	CC1
SMC19.T.CAGTAACGTGGTCCGT	CC1
SMC19.T.CAGTAACTCTTCAACT	CC1
SMC19.T.CATATTCCAACACGCC	CC2
SMC19.T.CATATTCCATGTTGAC	CC1
SMC19.T.CATATTCTGGCTCCA	CC1

SMC19.T.CATATTCTCGTGACAT	CC1
SMC19.T.CATCAAGAGGGTGTG	CC2
SMC19.T.CATCAAGGTCACCTAA	CC2
SMC19.T.CATCAGAAGAGTAAGG	CC1
SMC19.T.CATCAGATCTCCGGTT	CC2
SMC19.T.CATCCACTCCTGTAGA	CC1
SMC19.T.CATCGGGCAAAGTCAA	CC1
SMC19.T.CATCGGGCAGTAGAGC	CC2
SMC19.T.CATTGCGCAAGGTTCT	CC1
SMC19.T.CCACCTAGTGGACGAT	CC1
SMC19.T.CCACGGATCGCTAGCG	CC1
SMC19.T.CCACTACCAAAGTCTG	CC1
SMC19.T.CCAGCGACAAGTTCTG	CC2
SMC19.T.CCAGCGAGTGTGACGA	CC2
SMC19.T.CCATGTCTCTCTCGT	CC2
SMC19.T.CCCAGTTGTACAAGTA	CC1
SMC19.T.CCCATACAGCAAATCA	CC1
SMC19.T.CCCTCCTAGCTTCGCG	CC1
SMC19.T.CCGGGATGTTGCGCAC	CC2
SMC19.T.CCGTACTTCTGGGCCA	CC1
SMC19.T.CCGTGGAGTCTTGATG	CC1
SMC19.T.CCGTTCAAGATCCCAT	CC2
SMC19.T.CCTAGCTAGACAATAC	CC1
SMC19.T.CCTAGCTGTCCAGTTA	CC2
SMC19.T.CCTCTGAGTAGCGATG	CC2
SMC19.T.CTTCCCCTAGCGCAA	CC1
SMC19.T.CTTGATCAGGCGAA	CC1
SMC19.T.CGAACATCAAGAGGCT	CC1
SMC19.T.CGACCTTAGACGCTTT	CC2
SMC19.T.CGACCTTAGGAATTAC	CC1
SMC19.T.CGAGAAGCATATACGC	CC1
SMC19.T.CGATCGGAGCTAGTTC	CC1
SMC19.T.CGATGGCTCAGCTCTC	CC1
SMC19.T.CGATGTAAGATGTAAC	CC2
SMC19.T.CGATTGAAGGAGTACC	CC1
SMC19.T.CGATTGAGTCTCTTAT	CC1
SMC19.T.CGCCAAGGTGCACGAA	CC1
SMC19.T.CGCGTTTTCAATGAATG	CC1
SMC19.T.CGCTATCCACAGACTT	CC1
SMC19.T.CGCTATCGTAGCTCCG	CC2
SMC19.T.CGCTATCGTGTGGCTC	CC2
SMC19.T.CGCTTCATCCAGTAGT	CC1
SMC19.T.CGGAGTCCAGCGATCC	CC1
SMC19.T.CGTAGCGGTTACGCGC	CC1
SMC19.T.CGTCACTAGATAGCAT	CC2
SMC19.T.CGTGTCTTCATATCGG	CC2
SMC19.T.CGTTAGAAGTGAACAT	CC1
SMC19.T.CGTTCTGGTCAAAGCG	CC1
SMC19.T.CTAAGACAGAGACGAA	CC1
SMC19.T.CTAAGACAGTTACCCA	CC1
SMC19.T.CTAAGACGTTAAGACA	CC1
SMC19.T.CTAAGACTCTTGTACT	CC2
SMC19.T.CTACATTGTTGTGGAG	CC1
SMC19.T.CTACATTTGCTGATA	CC1
SMC19.T.CTACGTCCACATGACT	CC1
SMC19.T.CTAGAGTAGCCTTGAT	CC1
SMC19.T.CTAGTGAGTTCATGGT	CC2
SMC19.T.CTCACACGTGTAACGG	CC1

SMC19.T.CTCACACGTTGTCGCG	CC2
SMC19.T.CTCAGAAGTGGAAAGA	CC1
SMC19.T.CTCATTATCTCAACTT	CC1
SMC19.T.CTCCTAGTCCTGCTTG	CC2
SMC19.T.CTCCTAGTCGTAGGTT	CC1
SMC19.T.CTCGAAACACTTAAGC	CC2
SMC19.T.CTCGAAAGTTTGCGC	CC1
SMC19.T.CTCGAAATCACGCGGT	CC2
SMC19.T.CTCGAGGAGGGTTTCT	CC2
SMC19.T.CTCGAGGGTCTAGCGC	CC1
SMC19.T.CTCGGAGCAAACGCGA	CC2
SMC19.T.CTCGGAGCAAGCCGTC	CC1
SMC19.T.CTCGGAGGTGGACGAT	CC1
SMC19.T.CTCGGGAAGCTGTCTA	CC1
SMC19.T.CTCGGGAAGTTCGCGC	CC2
SMC19.T.CTCGTACAGAGTTGGC	CC2
SMC19.T.CTCGTACTIONCATGTCTT	CC2
SMC19.T.CTCTACGAGACACTAA	CC1
SMC19.T.CTCTGGTAGTACGTAA	CC1
SMC19.T.CTCTGGTTCACAGTAC	CC1
SMC19.T.CTGAAACTCTGGCGAC	CC1
SMC19.T.CTGAAGTAGTTACGGG	CC2
SMC19.T.CTGAAGTCACGTGAGA	CC2
SMC19.T.CTGCTGTAGCGATCCC	CC2
SMC19.T.CTGCTGTGTCAACATC	CC1
SMC19.T.CTGCTGTTCTTGACT	CC1
SMC19.T.CTGTGCTCACGAGGTA	CC1
SMC19.T.CTGTGCTGTACTIONCAAC	CC1
SMC19.T.CTGTGCTGTAGCAAAT	CC1
SMC19.T.CTGTTTATCAGTTTGG	CC1
SMC19.T.CTTAACTGTTAAAGAC	CC1
SMC19.T.CTTACCGTCATTGCC	CC2
SMC19.T.CTTCTCTGTTCCGCGAC	CC1
SMC19.T.CTTCTCTTCTAACTIONCT	CC2
SMC19.T.CTTTGCGGTCAGAAGC	CC2
SMC19.T.CTTTGCGGTGTGACGA	CC1
SMC19.T.GAAACTCAGGCAAAGA	CC1
SMC19.T.GAAACTCTCCTTCAAT	CC1
SMC19.T.GAACCTATCATGTCTT	CC2
SMC19.T.GAAGCAGAGCCAACAG	CC1
SMC19.T.GAAGCAGTCCGCGGTA	CC2
SMC19.T.GAATGAAGTCGTGGCT	CC2
SMC19.T.GACAGAGGTTACGGC	CC1
SMC19.T.GACCAATGTAGAAAGG	CC1
SMC19.T.GACCTGGCACGGCCAT	CC2
SMC19.T.GACCTGGCAGGAACGT	CC1
SMC19.T.GACCTGGTCCAGTAGT	CC1
SMC19.T.GACGGCTCAATGGATA	CC1
SMC19.T.GACGGCTCAGCCAGAA	CC2
SMC19.T.GACGGCTCAGCTCGCA	CC2
SMC19.T.GACGGCTCCGCGCAA	CC2
SMC19.T.GACGTGCAGTTCGCGC	CC1
SMC19.T.GACGTGCGTCCGCGTGT	CC1
SMC19.T.GACGTTAGTAAATACG	CC2
SMC19.T.GACGTTAGTTATGCGT	CC2
SMC19.T.GACTAACAGGACTGGT	CC2
SMC19.T.GAGGTGAAGCTAGTTC	CC2
SMC19.T.GAGGTGAGTGACGGTA	CC1

SMC19.T.GATCAGTAGTATCGAA	CC2
SMC19.T.GATCGATTCGCGATCG	CC2
SMC19.T.GATCGCGGTCATACTG	CC1
SMC19.T.GATCGTAGTAATCACC	CC1
SMC19.T.GATCTAGTCACGGTTA	CC1
SMC19.T.GATGAAACACCAGCAC	CC2
SMC19.T.GATGAAATCACAAACC	CC2
SMC19.T.GCAAACCTCATGTGCGAT	CC2
SMC19.T.GCAATCACATGAAGTA	CC1
SMC19.T.GCACATACAGCCTATA	CC2
SMC19.T.GCACTCTAGGCTAGAC	CC2
SMC19.T.GCACTCTGTGCAACAG	CC2
SMC19.T.GCATACAAGAATTGTG	CC1
SMC19.T.GCATGCGGTCCCGACA	CC1
SMC19.T.GCATGCGGTCTCACCT	CC1
SMC19.T.GCATGCGTCACGCGGT	CC2
SMC19.T.GCATGTACACCGCTAG	CC2
SMC19.T.GCATGTACACCTATCC	CC2
SMC19.T.GCCTCTAAGGCATGGT	CC1
SMC19.T.GCGACCACATGACGGA	CC2
SMC19.T.GCGCAGTAGGGCATGT	CC2
SMC19.T.GCGGGTTTCCGAACGC	CC1
SMC19.T.GCTCCTACAATTGCTG	CC2
SMC19.T.GCTGCAGAGATAGGAG	CC1
SMC19.T.GCTGGGTAGTCCGGTC	CC2
SMC19.T.GCTGGGTACCCGGAAA	CC1
SMC19.T.GCTGGGTGTGCAACGA	CC2
SMC19.T.GCTGGGTTCTATGTGG	CC2
SMC19.T.GCTTCCATCTAGAGTC	CC2
SMC19.T.GGAAAGCAGTTTCCTT	CC2
SMC19.T.GGAAAGCGTGCGAAAC	CC1
SMC19.T.GGACAAGAGCGATAGC	CC1
SMC19.T.GGACAGACACAAGTAA	CC1
SMC19.T.GGACAGACAGTGACAG	CC1
SMC19.T.GGACATTAGGTCCGGAT	CC2
SMC19.T.GGACATTTCAGGTTCA	CC2
SMC19.T.GGAGCAACAATCTACG	CC1
SMC19.T.GGATGTTTATGTAAGA	CC2
SMC19.T.GGATGTTGTATGCTTG	CC1
SMC19.T.GGATGTTTCCAGAGGA	CC2
SMC19.T.GGATTACCAGCCTTTC	CC1
SMC19.T.GGCAATTAGCGCCTTG	CC1
SMC19.T.GGCAATTAGCTCAACT	CC2
SMC19.T.GGCCGATAGCGTTGCC	CC2
SMC19.T.GGCTCGAAGATGGGTC	CC1
SMC19.T.GGCTCGACATACGCCG	CC2
SMC19.T.GGGAATGGTTGCTCCT	CC2
SMC19.T.GGGACCTCCTAGAAC	CC1
SMC19.T.GGGAGATGTGCAACTT	CC2
SMC19.T.GGGAGATGTTTGACAC	CC2
SMC19.T.GGGATGACACAGCCCA	CC1
SMC19.T.GGGCACTGTAGTACCT	CC2
SMC19.T.GGGCACTTCTCAAACG	CC1
SMC19.T.GGGCATCTCAGAGCTT	CC1
SMC19.T.GGGTCTGTCCGCGCAA	CC1
SMC19.T.GGGTTGCAGATGGCGT	CC1
SMC19.T.GGTATTGTGCGCATGAT	CC1
SMC19.T.GTACGTATCCCGACTT	CC1

SMC19.T.GTACTCCCATCCCATC	CC1
SMC19.T.GTACTTTGTCGAACAG	CC2
SMC19.T.GTACTTTGTTAAAGTG	CC2
SMC19.T.GTAGGCCAGTCTCCTC	CC2
SMC19.T.GTATCTTTCACCTTAT	CC2
SMC19.T.GTCAAGTCATAGACTC	CC2
SMC19.T.GTCATTTCACTGTCGG	CC2
SMC19.T.GTCATTTTCGAGAGCA	CC2
SMC19.T.GTCCTCAAGCAGGTCA	CC1
SMC19.T.GTCCTCAGTGACTION	CC2
SMC19.T.GTCGGGTAGTGTACGG	CC1
SMC19.T.GTCGGGTTCGGGAGTA	CC2
SMC19.T.GTCGTAAAGTAGGCCA	CC1
SMC19.T.GTCGTAACAATGTAAG	CC1
SMC19.T.GTGAAGGAGTTGCAGG	CC1
SMC19.T.GTGAAGGCACAGCCCA	CC2
SMC19.T.GTGCAGCCACGAAGCA	CC1
SMC19.T.GTGCATAAGTGTACGG	CC2
SMC19.T.GTGCGTTTCGACCAGC	CC1
SMC19.T.GTGTTAGTCTCCCTGA	CC2
SMC19.T.GTTAAGCGTCAATCT	CC2
SMC19.T.GTTCATTAGTTAGGTA	CC2
SMC19.T.GTTCATTGTGCACGAA	CC1
SMC19.T.GTTCGGGAGTTGTCGT	CC2
SMC19.T.GTTCGGGGTCTCCACT	CC1
SMC19.T.GTTCGGGGTTCCTTG	CC1
SMC19.T.GTTTCTAGTGGTTTCA	CC2
SMC19.T.GTTTCTATCAACGAAA	CC1
SMC19.T.TAAGCGTCAGCCAGAA	CC2
SMC19.T.TAAGCGTCATATGGTC	CC2
SMC19.T.TAAGTGCAGTGAATTG	CC2
SMC19.T.TAAGTGCTCACCTCA	CC1
SMC19.T.TACACGAAGGAGTACC	CC2
SMC19.T.TACACGACAAAGCGGT	CC2
SMC19.T.TACACGACATGGTAGG	CC1
SMC19.T.TACAGTGCACAAGACG	CC2
SMC19.T.TACGGATCAATGTTGC	CC1
SMC19.T.TACGGGCAGTTAACGA	CC1
SMC19.T.TACTCGCAGAACTGTA	CC2
SMC19.T.TACTTACAGCAATCTC	CC2
SMC19.T.TACTTGTAGCTCCTTC	CC1
SMC19.T.TAGACCACAAATCCGT	CC1
SMC19.T.TAGAGCTAGAATCTCC	CC2
SMC19.T.TAGCCGGGTGATAAGT	CC1
SMC19.T.TAGTGGTCACAGACAG	CC2
SMC19.T.TATCTCAAGCTCCTTC	CC2
SMC19.T.TATTACCAGATGCCTT	CC1
SMC19.T.TCACAAGGTGATGATA	CC1
SMC19.T.TCACGAACATCACGAT	CC2
SMC19.T.TCACGAAGTGGTCTCG	CC1
SMC19.T.TCAGATGGTGCTGTAT	CC1
SMC19.T.TCAGCAACATGTCTCC	CC1
SMC19.T.TCAGCTCAGAAGCCCA	CC1
SMC19.T.TCAGGATGTTTCGTTGA	CC2
SMC19.T.TCATTGTTGCTTCAAG	CC1
SMC19.T.TCATTGTTTGGACAC	CC2
SMC19.T.TCGAGGCGTAAGGATT	CC2
SMC19.T.TCGAGGCTCTTGAGGT	CC1

SMC19.T.TCGGGACAGCCACCTG	CC1
SMC19.T.TCGGTAATCCCTTGCA	CC1
SMC19.T.TCGTACCGTACCTACA	CC2
SMC19.T.TCTATTGCACTCAGGC	CC1
SMC19.T.TCTATTGTCCGGTAAAC	CC2
SMC19.T.TCTCATAACAGACAG	CC1
SMC19.T.TCTCATAGTTGTTTGG	CC1
SMC19.T.TCTCTAAGTTCCGGGCT	CC1
SMC19.T.TCTCTAATCGGAGCAA	CC2
SMC19.T.TCTGAGATCCCTTGTG	CC2
SMC19.T.TCTGGAATCTGGTGTA	CC1
SMC19.T.TGAAAGAGTTGAGGTG	CC2
SMC19.T.TGACAACGTGTAAGTA	CC1
SMC19.T.TGACGGCTCTGAGGGA	CC2
SMC19.T.TGAGCATGTATTCTCT	CC2
SMC19.T.TGAGCCGAGCAGGCTA	CC1
SMC19.T.TGAGCCGCAACGCACC	CC1
SMC19.T.TGCCATTCTATCCTA	CC2
SMC19.T.TGCGGGTAGCACCGTC	CC2
SMC19.T.TGCGGGTTCACATAGC	CC1
SMC19.T.TGCGTGCCAGCTGTGC	CC1
SMC19.T.TGCTGCTGTCGATTGT	CC1
SMC19.T.TGCTGCTGTCTCTCGT	CC2
SMC19.T.TGCTGCTTCGCGCCAA	CC1
SMC19.T.TGGTTAGTCAGTTGAC	CC1
SMC19.T.TGGTTAGTCTGTCTCG	CC2
SMC19.T.TGGTTCACAGCCCA	CC1
SMC19.T.TGTATTCGTACACGC	CC1
SMC19.T.TGTGGTATCACATGCA	CC1
SMC19.T.TTAACTCAGACAGGCT	CC1
SMC19.T.TTAGGACAGGGAACGG	CC2
SMC19.T.TTAGGCATCGCTAGCG	CC2
SMC19.T.TTATGCTAGATGTGGC	CC2
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SMC19.T.TTCGAAGCAAGTAATG	CC2
SMC19.T.TTCGAAGGTGGCAAAC	CC2
SMC19.T.TTCGAAGTCCGCAGTG	CC1
SMC19.T.TTCGGTCAGTACGTTT	CC1
SMC19.T.TTCGGTCCATCCGCGA	CC2
SMC19.T.TTCGGTCTCCAGATCA	CC2
SMC19.T.TTCTACACATCGGTTA	CC1
SMC19.T.TTCTTAGCACGTAAGG	CC1
SMC19.T.TTCTTAGCAGCGAACA	CC2
SMC19.T.TTGCCGTAGTTATCGC	CC1
SMC19.T.TTGGAACCAGCTATTG	CC1
SMC19.T.TTGGCAATCATGTAGC	CC1
SMC19.T.TTTACTGAGAGTACCG	CC1
SMC19.T.TTTACTGAGCAATCTC	CC1
SMC19.T.TTTACTGTCATGTCCC	CC2
SMC19.T.TTTATGCAGGCTAGCA	CC1
SMC19.T.TTTATGCAGGGTCGAT	CC1
SMC19.T.TTTATGCTCCGAACGC	CC1
SMC19.T.TTTGCGCCAAGACACG	CC2
SMC19.T.TTTGCGCGTTCCGTCT	CC1
SMC19.T.TTTGCGCTCTGCCAGG	CC2
SMC19.T.TTTGTCAGTTGATTGC	CC1
SMC20.T.AAACGGGGTAGCACGA	CC2
SMC20.T.AAAGATGGTTTACTG	CC2

SMC20.T.AAAGCAACAAGACACG	CC1
SMC20.T.AAAGTAGGTCCAAGTT	CC2
SMC20.T.AAATGCCGTAGCCTAT	CC2
SMC20.T.AAATGCCGTCAACTGT	CC2
SMC20.T.AAATGCCGTTATCCGA	CC2
SMC20.T.AAATGCCTCACCTTAT	CC2
SMC20.T.AACACGTGTAGCCTAT	CC2
SMC20.T.AACACGTTTCATGTGGT	CC2
SMC20.T.AACCGCGGTCACAAGG	CC2
SMC20.T.AACGTTGGTAAGGGCT	CC2
SMC20.T.AACTGGTCACTTCGAA	CC2
SMC20.T.AACTTTCCACGAAACG	CC2
SMC20.T.AAGACCTCATGTTGAC	CC2
SMC20.T.AAGCCGCGTTTGGCGC	CC2
SMC20.T.AAGGCAGAGCTACCGC	CC2
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SMC20.T.ACACCAAAGAAGGTGA	CC2
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SMC20.T.ACATGGTGTCTGTTT	CC2
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SMC20.T.ACCCACTAGCCGGTAA	CC2
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SMC20.T.ACGATACCATCCTTGC	CC2
SMC20.T.ACGGAGAGTCATATGC	CC2
SMC20.T.ACGGAGATCTTAACCT	CC2
SMC20.T.ACGGCCAAGTCGATAA	CC2
SMC20.T.ACGTCAATCGCGCAA	CC1
SMC20.T.ACTATCTGTGATGATA	CC2
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SMC20.T.ACTTTCAGTTATCGGT	CC2
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SMC20.T.AGCCTAAGTTATCACG	CC2

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SMC20.T.AGCTTGAGTCAATGTC	CC2
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SMC20.T.AGCTTGATCAGCACAT	CC2
SMC20.T.AGCTTGATCTCTGAGA	CC2
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SMC20.T.ATAAGAGAGTTTAGGA	CC2
SMC20.T.ATAAGAGGTAAAGGAG	CC2
SMC20.T.ATAAGAGGTTGTGGAG	CC2
SMC20.T.ATAAGAGTCAGATAAG	CC2
SMC20.T.ATAAGAGTCTGCCAGG	CC2
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SMC20.T.ATCATCTTCCGTCAA	CC2
SMC20.T.ATCCGAACACAGACAG	CC2
SMC20.T.ATCGAGTGTGCAGTAG	CC2
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SMC20.T.ATTTCTGGTTGACGTT	CC2
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SMC20.T.CAACCTCTCTTAGTC	CC2
SMC20.T.CAACTAGGTAGAGTGC	CC2
SMC20.T.CAAGATCCAAGTTGTC	CC2

SMC20.T.CAAGGCCAGTAAGAT	CC2
SMC20.T.CAAGGCCATCACGAT	CC2
SMC20.T.CAAGTTGCAGCTGCTG	CC2
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SMC20.T.CACACCTCACGAGAGT	CC2
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SMC20.T.CACACTCGTCTAGTGT	CC2
SMC20.T.CACAGTAAGTGCGTGA	CC2
SMC20.T.CACAGTACAGCTGCTG	CC2
SMC20.T.CACAGTAGTCCGACGT	CC2
SMC20.T.CACATAGAGATCCTGT	CC2
SMC20.T.CACATAGGTGTAATGA	CC1
SMC20.T.CACATTTAGACTGTAA	CC2
SMC20.T.CACCAGGCATCGGACC	CC2
SMC20.T.CACCAGGGTCGTGGCT	CC2
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SMC20.T.CACCTTGTCAACACAC	CC2
SMC20.T.CACTCCAGTTCTGGTA	CC2
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SMC20.T.CAGAATCTCCGGGTGT	CC2
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SMC20.T.CAGAGAGTCTACTCAT	CC2
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SMC20.T.CAGCATAGTCAGGACA	CC2
SMC20.T.CAGCTAAAGATCCGAG	CC2
SMC20.T.CAGCTAAAGGCAGTCA	CC2
SMC20.T.CAGCTAACAGATGAGC	CC2
SMC20.T.CAGCTAAGTATATCCG	CC2
SMC20.T.CAGGTGCTCCCTCTTT	CC2
SMC20.T.CAGTAACAGGCAATTA	CC2
SMC20.T.CAGTCCTCAGTCGTGC	CC2
SMC20.T.CAGTCCTGTCTTGATG	CC2
SMC20.T.CATCAAGCAGCTCGAC	CC2
SMC20.T.CATCAGATCCTGTAGA	CC2
SMC20.T.CATCCACCAATGTTGC	CC2
SMC20.T.CATCGAACAGACGCAA	CC2
SMC20.T.CATGCCTGTCTGATTG	CC2
SMC20.T.CATGCCTGTTACAGAA	CC2
SMC20.T.CATGCCTTCGTACGGC	CC2
SMC20.T.CCAATCCGTAGAAGGA	CC2
SMC20.T.CCAATCCGTTGGACCC	CC2
SMC20.T.CCACCTAGTACAAGTA	CC2
SMC20.T.CCACTACCACTAAGTC	CC2
SMC20.T.CCACTACCATCGTCGG	CC2
SMC20.T.CCAGCGAAGTGTAICTC	CC2
SMC20.T.CCAGCGAGTAAATGTG	CC2
SMC20.T.CCAGCGAGTAGCTCCG	CC2
SMC20.T.CCATGTCGTCTCATCC	CC2
SMC20.T.CCCATACAGCTACCGC	CC2
SMC20.T.CCCATACCAATTATCTC	CC2
SMC20.T.CCCATACGTCGGGTCT	CC2
SMC20.T.CCCTCCTAGATATACG	CC2
SMC20.T.CCGGGATCAGATAATG	CC2
SMC20.T.CCGGGATCAGTGGGAT	CC2
SMC20.T.CCGTACTAGTTGCAGG	CC2
SMC20.T.CCGTACTTCCAGAAGG	CC2
SMC20.T.CCGTGGAAGACCGGAT	CC2

SMC20.T.CCGTTCATCCGGGTGT	CC2
SMC20.T.CCTAAAGCACTACAGT	CC2
SMC20.T.CCTAAAGGTAAAGGAG	CC2
SMC20.T.CCTAAAGGTTTGTTTC	CC2
SMC20.T.CCTAAAGTCTACGAGT	CC2
SMC20.T.CCTACCAAGGATGGTC	CC2
SMC20.T.CCTACCACAGTTCATG	CC2
SMC20.T.CCTACCACATGTCCTC	CC2
SMC20.T.CCTACCATCTATCGCC	CC2
SMC20.T.CCTATTACAGACGCAA	CC2
SMC20.T.CCTATTACAGCTTCGG	CC2
SMC20.T.CCTCAGTAGGCGTACA	CC2
SMC20.T.CCTCAGTCACACCGAC	CC2
SMC20.T.CCTCAGTGTTATCGGT	CC2
SMC20.T.CCTTCGAGTCGGCACT	CC2
SMC20.T.CCTTCGATCCTGCTTG	CC2
SMC20.T.CCTTCGATCGGCTTGG	CC2
SMC20.T.CCTTTCTTCCTTTACA	CC2
SMC20.T.CGAACATCAGGCGATA	CC2
SMC20.T.CGAATGTAGCGATCCC	CC2
SMC20.T.CGAATGTAGGTAAACT	CC2
SMC20.T.CGAATGTCATTGGCGC	CC2
SMC20.T.CGACCTTCAGTTAACC	CC2
SMC20.T.CGAGAAGAGGACATTA	CC2
SMC20.T.CGAGCCAGTTCGTGAT	CC2
SMC20.T.CGAGCCATCTTCCTTC	CC2
SMC20.T.CGATCGGAGTTGCAGG	CC2
SMC20.T.CGATGGCGTACATCCA	CC2
SMC20.T.CGATGGCTCCCATTTA	CC2
SMC20.T.CGCCAAGAGATGTGGC	CC2
SMC20.T.CGCGGTACAATTGCTG	CC2
SMC20.T.CGCGGTAGTCGGCACT	CC1
SMC20.T.CGCGGTATCGGAGGTA	CC2
SMC20.T.CGCTATCGTAAGTGGC	CC2
SMC20.T.CGCTATCTCGGATGTT	CC2
SMC20.T.CGCTATCTCGTGGGAA	CC2
SMC20.T.CGCTGGACAGATAATG	CC2
SMC20.T.CGCTGGAGTTGCGTTA	CC2
SMC20.T.CGCTTCAAGTATTGGA	CC2
SMC20.T.CGGACGTAGATCCGAG	CC2
SMC20.T.CGGACTGCAGCGATCC	CC2
SMC20.T.CGGAGCTAGAATCTCC	CC2
SMC20.T.CGGAGTCAGAGACTAT	CC2
SMC20.T.CGGAGTCCATGAAGTA	CC2
SMC20.T.CGGCTAGTCCTAGAAC	CC2
SMC20.T.CGGGTCACATGACGGA	CC1
SMC20.T.CGGTTAACATTTCACT	CC2
SMC20.T.CGTAGCGAGCCAGGAT	CC2
SMC20.T.CGTCACTAGTCCGTAT	CC2
SMC20.T.CGTCTACGTTTCGCTAA	CC2
SMC20.T.CGTGAGCAGAGACTTA	CC2
SMC20.T.CGTGTAAAGTAAGTAC	CC2
SMC20.T.CGTGTAAAGTTAGCGG	CC2
SMC20.T.CGTGTCTCACTTAAGC	CC2
SMC20.T.CGTGTCTGTTGCCTCT	CC2
SMC20.T.CTAAGACCAGATGGCA	CC2
SMC20.T.CTACATTGTTAGATGA	CC2
SMC20.T.CTACATTTCTGCGTAA	CC2

SMC20.T.CTACATTTCTTCAACT	CC2
SMC20.T.CTACGTCGTCATATCG	CC2
SMC20.T.CTACGTCGTGTGCGTC	CC2
SMC20.T.CTAGAGTGTCTTTCAT	CC2
SMC20.T.CTAGCCTAGACAGAGA	CC2
SMC20.T.CTAGCCTCATCAGTCA	CC2
SMC20.T.CTAGCCTTCGCCAGCA	CC2
SMC20.T.CTAGTGACATTACCTT	CC2
SMC20.T.CTCAGAATCCTTTACA	CC2
SMC20.T.CTCATTAGTCTGGAGA	CC2
SMC20.T.CTCCTAGGTTTGACAC	CC2
SMC20.T.CTCGAAAAGCAGATCG	CC1
SMC20.T.CTCGAAACAATAGCAA	CC2
SMC20.T.CTCGAAATCTTGGGTA	CC2
SMC20.T.CTCGAGGTCAGCCTAA	CC2
SMC20.T.CTCGAGGTCGCGTTTC	CC2
SMC20.T.CTCGGAGCACCATCCT	CC2
SMC20.T.CTCGGAGGTAGTACCT	CC2
SMC20.T.CTCGGAGTCTTTACGT	CC2
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SMC20.T.CTCGTACCACATTAGC	CC2
SMC20.T.CTCGTACGTATTAGCC	CC2
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SMC20.T.CTCTACGAGCCTATGT	CC2
SMC20.T.CTCTACGAGGGTTCCC	CC2
SMC20.T.CTCTACGCAGACAGGT	CC2
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SMC20.T.CTGAAACTCTTAACCT	CC2
SMC20.T.CTGAAGTTCGAACGGA	CC1
SMC20.T.CTGATAGTCATCGATG	CC1
SMC20.T.CTGATCCCAAGGGTCA	CC2
SMC20.T.CTGCTGTGTGAACCTT	CC2
SMC20.T.CTGCTGTTTCATCACCC	CC2
SMC20.T.CTGGTCTGTTATGCGT	CC2
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SMC20.T.CTGTGCTGTGTGGCTC	CC2
SMC20.T.CTGTTTATCGAACGGA	CC2
SMC20.T.CTTAACTCAGACGCCT	CC2
SMC20.T.CTTACCGGTTTAGGAA	CC2
SMC20.T.CTTCTCTCAGTACACT	CC2
SMC20.T.CTTCTCTTACAGTAC	CC2
SMC20.T.CTTTGCGAGGTCATCT	CC2
SMC20.T.CTTTGCGTCAACACAC	CC2
SMC20.T.GAAATGACAAGCCTAT	CC2
SMC20.T.GAAATGACAGGCGATA	CC2
SMC20.T.GAAATGAGTGTGCGTC	CC2
SMC20.T.GAACATCAGGTTCTTA	CC2
SMC20.T.GAACATCGTAATCGTC	CC2
SMC20.T.GAACATCTCCACGCAG	CC2
SMC20.T.GAACCTATCATATCGG	CC2
SMC20.T.GACAGAGCAAGTAGTA	CC2

SMC20.T.GACAGAGTCACCCTCA	CC2
SMC20.T.GACGTTAGTCTAGAGG	CC2
SMC20.T.GACGTTATCCATGCTC	CC2
SMC20.T.GACTACACAAGAGGCT	CC2
SMC20.T.GACTGCGGTCCGAACC	CC1
SMC20.T.GAGTCCGCAGCTATTG	CC2
SMC20.T.GAGTCCGGTTAAGGGC	CC2
SMC20.T.GAGTCCGTCCGGGTGT	CC2
SMC20.T.GATCAGTAGCTGGAAC	CC2
SMC20.T.GATCAGTGTGAGAATA	CC2
SMC20.T.GATCAGTGTGACTAT	CC2
SMC20.T.GATCAGTTCATACGGT	CC2
SMC20.T.GATCGTAAGCACACAG	CC2
SMC20.T.GATGAAAAGCGCTTAT	CC2
SMC20.T.GATGCTACAGGATTGG	CC2
SMC20.T.GCACATATCAAGATCC	CC2
SMC20.T.GCACTCTGTACCGAGA	CC2
SMC20.T.GCAGTTAAGTCGATAA	CC2
SMC20.T.GCAGTTAGTGCCTGTG	CC2
SMC20.T.GCATACAAGAACAAC	CC2
SMC20.T.GCATAACAGTACTTGAC	CC2
SMC20.T.GCATAACATCACGCGGT	CC2
SMC20.T.GCATGTACATACGCCG	CC2
SMC20.T.GCATGTATCGCGTTTC	CC2
SMC20.T.GCCAAATCATTAAACCG	CC2
SMC20.T.GCCAAATGTTGTACAC	CC2
SMC20.T.GCGAGAAAGATGAGAG	CC2
SMC20.T.GCGCAACAGGAACTGC	CC2
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SMC20.T.GCGCCAACAGGGCATA	CC2
SMC20.T.GCGCGATAGGGTTCCC	CC2
SMC20.T.GCGCGATCAAGCGTAG	CC2
SMC20.T.GCGGGTTAGAGCTGGT	CC2
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SMC20.T.GCTCTGTAGGATGTAT	CC2
SMC20.T.GCTGGGTCAGATCCAT	CC2
SMC20.T.GCTTCCATCATGCAAC	CC2
SMC20.T.GCTTGAACACATGACT	CC2
SMC20.T.GGAAAGCAGCCACGCT	CC2
SMC20.T.GGAATAAAGTGGGATC	CC2
SMC20.T.GGAATAACATGTTGAC	CC2
SMC20.T.GGAATAAGTAAGTTCC	CC2
SMC20.T.GGACAAGCAGAGTGTG	CC2
SMC20.T.GGACAAGGTGGCGAAT	CC2
SMC20.T.GGACAGAAGTGAACGC	CC1
SMC20.T.GGACAGATCACGATGT	CC2
SMC20.T.GGACATTAGGAGTACC	CC2
SMC20.T.GGACATTGTATAGTAG	CC2
SMC20.T.GGAGCAACATCCGTGG	CC2
SMC20.T.GGATGTTGAGGCGATA	CC1
SMC20.T.GGCCGATTCGTTACAG	CC2
SMC20.T.GGCCGATTCTCTTATG	CC2
SMC20.T.GGCGACTCACGTTGGC	CC2
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SMC20.T.GGGAATGAGAACTGTA	CC2

SMC20.T.GGGAATGGTTCCTTG	CC2
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SMC20.T.GGGACCTGTATAGTAG	CC2
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SMC20.T.GGGCACTGTGCGATAG	CC2
SMC20.T.GGGCACTGTGCTCTTC	CC2
SMC20.T.GGGCACTGTGGTGTAG	CC2
SMC20.T.GGGCATCGTCGAGATG	CC2
SMC20.T.GGGCATCGTGTGAATA	CC2
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SMC20.T.GTAACTGTCACCACCT	CC2
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SMC20.T.GTCCTCATCTTTCTC	CC2
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SMC20.T.GTTCATTAGATCTGAA	CC2
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SMC20.T.TATCTCAGTCCGACGT	CC2
SMC20.T.TCAATCTGTCTTTTCA	CC2
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SMC20.T.TCACAAGCACCGAAAG	CC2
SMC20.T.TCAGCAATCTGCCCTA	CC2
SMC20.T.TCAGCTCAGCCCAACC	CC1
SMC20.T.TCAGGTAAGGTGTTAA	CC2
SMC20.T.TCATTACTCTCCAGGG	CC2
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SMC20.T.TCCACACAGGGTGTGT	CC2
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SMC20.T.TCCCGATGTTCTCATT	CC1
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SMC20.T.TCTCTAATCCAAACAC	CC2

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SMC20.T.TGAAAGACAATGTTGC	CC2
SMC20.T.TGAAAGATCACGCATA	CC2
SMC20.T.TGACAACCAATCGGTT	CC2
SMC20.T.TGAGCCGGTAAATACG	CC2
SMC20.T.TGAGGGAGTCTTGTCC	CC2
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SMC20.T.TGCCAAATCTAGCACA	CC2
SMC20.T.TGCCCATGTGTCAATC	CC1
SMC20.T.TGCCCTAGTGTGGCTC	CC2
SMC20.T.TGCGGGTGTCCGATCC	CC2
SMC20.T.TGCTACCGTTCCGGCA	CC2
SMC20.T.TGCTACCTCCTCCTAG	CC2
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SMC20.T.TTCGAAGCAGCAGTTT	CC2
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SMC20.T.TTGCGTCAGTACACCT	CC2
SMC20.T.TTGCGTCTCGAATGGG	CC2
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SMC20.T.TTTCCTCTCTGCCAGG	CC2
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SMC20.T.TTTGGTTAGGATCGCA	CC2
SMC20.T.TTTGGTTGTTGAACTC	CC2
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SMC20.T.TTTGTCAAGTCTCCTC	CC1

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SMC21.T.AAACCTGAGCTGCCCA	CC1
SMC21.T.AAACCTGCAGGTCTCG	CC1
SMC21.T.AAACCTGCAGTGGAGT	CC1
SMC21.T.AAACCTGCATCTCCA	CC1
SMC21.T.AAACCTGGTGCCTGGT	CC1
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SMC21.T.AAAGTAGCAGCTCCGA	CC1
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SMC21.T.AAATGCCGTACTIONT	CC1
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SMC21.T.AACCATGAGTGGACGT	CC1
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SMC21.T.AACGTTGCAAGCCGCT	CC1
SMC21.T.AACGTTGCAGTTCCGG	CC1
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SMC21.T.AACGTTGCATGCCCGA	CC1
SMC21.T.AACGTTGGTCCATCCT	CC1
SMC21.T.AACGTTGGTTCAACCA	CC1
SMC21.T.AACGTTGTCCACGACG	CC1
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SMC21.T.AACTCCCTCATCGCTC	CC1
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SMC21.T.AAGCCGCAGGACATTA	CC1
SMC21.T.AAGCCGCTCTCCGGTT	CC1
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SMC21.T.AAGGCAGCACACATGT	CC1
SMC21.T.AAGGCAGGTCCAAGTT	CC1
SMC21.T.AAGGTTCAAGATTGGC	CC1
SMC21.T.AAGGTTCAAGATTCCG	CC1
SMC21.T.AAGGTTCAAGGCCATAG	CC1
SMC21.T.AAGGTTTCGTTACCTC	CC1
SMC21.T.AAGGTTTCGTTTGCC	CC1
SMC21.T.AAGTCTGCATATGAGA	CC1
SMC21.T.AAGTCTGGTCTGGAGA	CC1
SMC21.T.AATCCAGAGTATCGAA	CC1
SMC21.T.AATCCAGCACCACGTG	CC2
SMC21.T.AATCCAGCACCTCGGA	CC1
SMC21.T.AATCGGTGTCCATCCT	CC2
SMC21.T.AATCGGTGTCTAAACC	CC1
SMC21.T.ACACCAACAAATACAG	CC1
SMC21.T.ACACCAAGTAAGAGAG	CC1
SMC21.T.ACACCAAGTAGAGGAA	CC1
SMC21.T.ACACCCTAGAGGTTGC	CC1
SMC21.T.ACACCCTAGCTGTTCA	CC1
SMC21.T.ACACCCTAGTACGCC	CC1
SMC21.T.ACACCCTCACGGCGTT	CC2
SMC21.T.ACACCCTCAGCCAGAA	CC1
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SMC21.T.ACACCCTTCTGCGACG	CC1
SMC21.T.ACACCGGCAAGGTGTG	CC1
SMC21.T.ACAGCCGCAGCGATCC	CC1
SMC21.T.ACAGCCGCAGTATCTG	CC1
SMC21.T.ACAGCCGCATCTATGG	CC1
SMC21.T.ACAGCCGGTGGGTATG	CC1
SMC21.T.ACAGCCGGTTGAGGTG	CC1
SMC21.T.ACAGCTAAGTAATCCC	CC1
SMC21.T.ACAGCTACAGCCTTGG	CC1
SMC21.T.ACAGCTACATGTAAGA	CC1
SMC21.T.ACAGCTAGTCCTCTTG	CC1
SMC21.T.ACAGCTAGTGTTCTTT	CC1
SMC21.T.ACATACGCAATCTACG	CC1
SMC21.T.ACATACGCACGCCAGT	CC1
SMC21.T.ACATACGCATGCATGT	CC1
SMC21.T.ACATACGGTGATGTCT	CC1
SMC21.T.ACATCAGAGAAACCAT	CC1
SMC21.T.ACATCAGAGATGTCCG	CC1
SMC21.T.ACATCAGTCTCAAACG	CC1
SMC21.T.ACATGGTCAAAGGCGT	CC1
SMC21.T.ACATGGTCAAATCCGT	CC1
SMC21.T.ACATGGTCAGCTGTGC	CC1
SMC21.T.ACATGGTGTAGCGTCC	CC1
SMC21.T.ACATGGTTCAACGGCC	CC1
SMC21.T.ACATGGTTCCGCTGTT	CC1
SMC21.T.ACCAGTACAGTCTTCC	CC1
SMC21.T.ACCAGTACATATACCG	CC1
SMC21.T.ACCAGTAGTACCGAGA	CC1
SMC21.T.ACCAGTATCGAATGCT	CC1
SMC21.T.ACCCACTAGCTGATAA	CC1
SMC21.T.ACCCACTCAGGGTACA	CC1
SMC21.T.ACCCACTGTATATGAG	CC1
SMC21.T.ACCGTAAGACCACGA	CC1

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SMC21.T.ACCGTAACACATGACT	CC1
SMC21.T.ACCGTAAGTATAAACG	CC1
SMC21.T.ACCGTAATCCCAAGAT	CC1
SMC21.T.ACCTTTACATTTGCC	CC1
SMC21.T.ACCTTTATCGCAGGCT	CC1
SMC21.T.ACGAGCCAGGCCGAAT	CC1
SMC21.T.ACGAGCCGTATAGGGC	CC1
SMC21.T.ACGAGGAAGCTAACTC	CC1
SMC21.T.ACGAGGAGTCAGAAGC	CC1
SMC21.T.ACGAGGATCACAGGCC	CC1
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SMC21.T.ACGATGTGTACCGAGA	CC1
SMC21.T.ACGATGTGTGGTAACG	CC1
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SMC21.T.ACGCCGATCGGTGTCG	CC1
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SMC21.T.ACGGCCACAAAGTGCG	CC1
SMC21.T.ACGGGCTAGTGTCCAT	CC1
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SMC21.T.ACGGGCTCAGCTGTTA	CC1
SMC21.T.ACGGGCTCAGGATTGG	CC1
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SMC21.T.ACGTCAAGTAAATACG	CC1
SMC21.T.ACGTCAAGTCGCCATG	CC1
SMC21.T.ACGTCAATCCCTTGTG	CC1
SMC21.T.ACTATCTAGGGATACC	CC1
SMC21.T.ACTATCTAGTTCCACA	CC1
SMC21.T.ACTATCTCAATGTAAG	CC1
SMC21.T.ACTATCTTCTTTAGGG	CC1
SMC21.T.ACTGAACAGTAGCGGT	CC1
SMC21.T.ACTGAACAGTTAACGA	CC1
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SMC21.T.ACTGAGTCAATTGCTG	CC1
SMC21.T.ACTGAGTCAGACTCGC	CC1
SMC21.T.ACTGAGTCATGACATC	CC1
SMC21.T.ACTGAGTGTCTTGATG	CC1
SMC21.T.ACTGAGTGTGGACGAT	CC1
SMC21.T.ACTGATGAGCTTATCG	CC1

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SMC21.T.ACTGATGCACTGTTAG	CC1
SMC21.T.ACTGTCCAGTATCTCG	CC1
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SMC21.T.ACTTTCATCCTCAATT	CC1
SMC21.T.ACTTTCATCTTTACAC	CC1
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SMC21.T.AGAATAGCATGGATGG	CC1
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SMC21.T.AGAATAGGTTGTCTTT	CC1
SMC21.T.AGACGTTAGTACATGA	CC1
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SMC21.T.AGCATACAGGCATGTG	CC1
SMC21.T.AGCATACGTCATCGGC	CC1
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SMC21.T.AGCCTAAGTAAACACA	CC1
SMC21.T.AGCCTAAGTAGGGACT	CC1

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SMC21.T.AGCGTATGTTCTCATT	CC1
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SMC21.T.AGTCTTTCCAACCAA	CC1

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SMC21.T.CACACCTGTGAGTGAC	CC1
SMC21.T.CACACCTTCCAAAGTC	CC1
SMC21.T.CACACCTTCGCAAGCC	CC1
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SMC21.T.CACATAGAGGCATGGT	CC1
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SMC21.T.CACATAGTCATTATCC	CC1
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SMC21.T.CACATTTGTCCAGTGC	CC1

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SMC21.T.CAGGTGCCACAGAGGT	CC1
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SMC21.T.CAGTAACAGAGTTGGC	CC1
SMC21.T.CAGTAACCATGGTTGT	CC1
SMC21.T.CAGTAACGTAGGCTGA	CC1
SMC21.T.CAGTAACTCAGGCGAA	CC1
SMC21.T.CAGTAACTCCCTTGCA	CC1
SMC21.T.CAGTCCTAGAAACGAG	CC1
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SMC21.T.CATATGGCACAAAGCCC	CC1

SMC21.T.CATATGGTCCTAGGGC	CC1
SMC21.T.CATATTCAGATGTAAC	CC1
SMC21.T.CATATTCCAAGCTGAG	CC1
SMC21.T.CATATTCCATCCTTGC	CC1
SMC21.T.CATATTCTCAAAGACA	CC2
SMC21.T.CATCAAGAGACCGGAT	CC1
SMC21.T.CATCAAGAGCCAGAAC	CC1
SMC21.T.CATCAAGGTTGGTAAA	CC1
SMC21.T.CATCAAGTCCAGTAGT	CC1
SMC21.T.CATCAAGTCCGAATGT	CC1
SMC21.T.CATCAGACAGCTTCGG	CC1
SMC21.T.CATCAGAGTCTAGCGC	CC1
SMC21.T.CATCAGAGTGATGATA	CC1
SMC21.T.CATCCACAGAATGTTG	CC1
SMC21.T.CATCCACAGAGCTATA	CC1
SMC21.T.CATCCACAGCCCGAAA	CC1
SMC21.T.CATCCACAGTTACCCA	CC1
SMC21.T.CATCCACCACAACGTT	CC1
SMC21.T.CATCCACCACAGACTT	CC1
SMC21.T.CATCGAAAGCGTCAAG	CC1
SMC21.T.CATCGAAAGGCGTACA	CC1
SMC21.T.CATCGAAGTAGGACAC	CC1
SMC21.T.CATCGAATCGCTTGTC	CC1
SMC21.T.CATCGAATCTTTACGT	CC1
SMC21.T.CATCGGGAGTGAACAT	CC1
SMC21.T.CATCGGGTCAATACCG	CC1
SMC21.T.CATCGGGTCCAAGCCG	CC1
SMC21.T.CATCGGGTCTACTATC	CC1
SMC21.T.CATCGGGTCTCGTATT	CC1
SMC21.T.CATGACAAGCAACGGT	CC1
SMC21.T.CATGACAGTCCGTCAG	CC1
SMC21.T.CATGACAGTGGCAAAC	CC1
SMC21.T.CATGACATCCCGGATG	CC1
SMC21.T.CATGCCTAGTACTTGC	CC1
SMC21.T.CATGCCTAGTCTCCTC	CC1
SMC21.T.CATGCCTAGTGACTCT	CC1
SMC21.T.CATGGCGAGAGGACGG	CC1
SMC21.T.CATGGCGGTAAGCACG	CC1
SMC21.T.CATGGCGTCACGCGGT	CC1
SMC21.T.CATGGCGTCCGTCATC	CC1
SMC21.T.CATTATCAGTTTAGGA	CC1
SMC21.T.CATTATCCACCGAATT	CC1
SMC21.T.CATTATCCAGTGAGTG	CC1
SMC21.T.CATTATCCATCTCGCT	CC2
SMC21.T.CATTATCTCAGTTCGA	CC1
SMC21.T.CATTGCGAGCAGATCG	CC1
SMC21.T.CATTGCGGTATAATGG	CC1
SMC21.T.CATTGCTCGAGAGCA	CC1
SMC21.T.CCAATCCCACTGTTAG	CC1
SMC21.T.CCAATCCGTTGCCTCT	CC1
SMC21.T.CCAATCCTCGTACCGG	CC1
SMC21.T.CCAATCCTCTTCTGGC	CC1
SMC21.T.CCACCTATCATAAAGG	CC1
SMC21.T.CCACGGAGTAGCGTAG	CC1
SMC21.T.CCACGGAGTTAGAACA	CC1
SMC21.T.CCACTACAGCTGGAAC	CC1
SMC21.T.CCACTACCAAATCCGT	CC1
SMC21.T.CCACTACCATTGGTAC	CC1

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SMC21.T.CCATGTCAGGTGCTTT	CC1
SMC21.T.CCATGTCGTGAGCGAT	CC1
SMC21.T.CCATTCGAGCTCCCAG	CC1
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SMC21.T.CCATTCGCAATGCCAT	CC1
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SMC21.T.CCATTCGCAGTAACGG	CC1
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SMC21.T.CCGGGATCACCTATCC	CC1
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SMC21.T.CCTAGCTCATTCTCAT	CC1

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SMC21.T.GAACATCTCGCCAGCA	CC1
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SMC21.T.GAACCTACACCGAAAG	CC1
SMC21.T.GAACCTATCTTAACCT	CC1
SMC21.T.GAACGGAAGGCACATG	CC1
SMC21.T.GAACGGAGTAGAGGAA	CC1
SMC21.T.GAACGGAGTTCCACAA	CC1
SMC21.T.GAACGGATCTGTGCAA	CC1
SMC21.T.GAAGCAGTCCCTGACT	CC1
SMC21.T.GAAGCAGTCTCGAGTA	CC1
SMC21.T.GAATAAGCAGCGATCC	CC1
SMC21.T.GAATAAGGTACCGTTA	CC1
SMC21.T.GAATAAGTCCGCGCAA	CC1
SMC21.T.GAATGAAAGAGCCCAA	CC2
SMC21.T.GAATGAACAATCGAAA	CC1
SMC21.T.GACACGCAGTGGAGAA	CC1
SMC21.T.GACACGCAGTTAGCGG	CC1
SMC21.T.GACACGCCAAACGCGA	CC1
SMC21.T.GACAGAGAGAGACGAA	CC1
SMC21.T.GACAGAGAGGGCTTCC	CC1
SMC21.T.GACAGAGCATGGGACA	CC1
SMC21.T.GACAGAGGTAGTGAAT	CC1
SMC21.T.GACCAATCAGACGCAA	CC1
SMC21.T.GACCAATGTATACCA	CC1
SMC21.T.GACCTGGAGGGTGTGT	CC1

SMC21.T.GACCTGGAGGTGCACA	CC1
SMC21.T.GACCTGGGTCTTGCGG	CC1
SMC21.T.GACGCGTAGACGACGT	CC1
SMC21.T.GACGCGTAGATCCCGC	CC2
SMC21.T.GACGCGTAGCTGAACG	CC1
SMC21.T.GACGCGTCAAGCGTAG	CC1
SMC21.T.GACGCGTCACAACGTT	CC1
SMC21.T.GACGCGTCAGGCAGTA	CC1
SMC21.T.GACGCGTCATTCAGG	CC1
SMC21.T.GACGCGTGTAAATCGTC	CC1
SMC21.T.GACGGCTCAATGTTGC	CC1
SMC21.T.GACGGCTGTGTGGTTT	CC1
SMC21.T.GACGGCTTCTGTCTAT	CC1
SMC21.T.GACGTGCAGCCGTCGT	CC2
SMC21.T.GACGTGCAGGGCTTGA	CC1
SMC21.T.GACGTGCAGTACGCGA	CC1
SMC21.T.GACGTGCAGTTGAGAT	CC1
SMC21.T.GACGTGCCAAGTCTAC	CC1
SMC21.T.GACGTGCGTTCTCATT	CC1
SMC21.T.GACGTTAAGTTATCGC	CC1
SMC21.T.GACGTTATCATCTGTT	CC1
SMC21.T.GACGTTATCGTTGACA	CC1
SMC21.T.GACTAACGTGTGTGCC	CC1
SMC21.T.GACTACATCCAGATCA	CC1
SMC21.T.GACTACATCTTGAGAC	CC1
SMC21.T.GACTGCGAGAGAGCTC	CC1
SMC21.T.GAGCAGAAGACAATAC	CC1
SMC21.T.GAGCAGAGTTCGGGCT	CC1
SMC21.T.GAGCAGATCAACGAAA	CC1
SMC21.T.GAGCAGATCATACGGT	CC1
SMC21.T.GAGGTGACAATCTGCA	CC1
SMC21.T.GAGGTGAGTGGTACAG	CC1
SMC21.T.GAGGTGATCAACGAAA	CC1
SMC21.T.GAGGTGATCGTTACAG	CC1
SMC21.T.GAGGTGATCTTTAGTC	CC1
SMC21.T.GAGTCCGCAGCCTTTC	CC1
SMC21.T.GAGTCCGGTAAGTTCC	CC1
SMC21.T.GAGTCCGGTTTACTCT	CC1
SMC21.T.GAGTCCGTCACGGTTA	CC1
SMC21.T.GATCAGTAGGTCATCT	CC1
SMC21.T.GATCAGTCAAGGACTG	CC1
SMC21.T.GATCAGTCACCGAATT	CC1
SMC21.T.GATCGATAGATTACCC	CC1
SMC21.T.GATCGATAGTCAAGGC	CC1
SMC21.T.GATCGATCAATACGCT	CC1
SMC21.T.GATCGATCAATCAGAA	CC1
SMC21.T.GATCGATCACAGACTT	CC1
SMC21.T.GATCGATGTCGTTGTA	CC2
SMC21.T.GATCGATGTGTGACCC	CC1
SMC21.T.GATCGCGAGACTAGGC	CC1
SMC21.T.GATCGCGAGGGCTTCC	CC1
SMC21.T.GATCGCGCACTACAGT	CC1
SMC21.T.GATCGCGCATGTAAGA	CC1
SMC21.T.GATCGCGTCTAGCACA	CC1
SMC21.T.GATCGTAAGAATTGTG	CC1
SMC21.T.GATCGTAGTAGGGTAC	CC1
SMC21.T.GATCGTAGTCTGCCAG	CC1
SMC21.T.GATCGTATCCTGCCAT	CC1

SMC21.T.GATCTAGAGAGTGACC	CC1
SMC21.T.GATCTAGAGATAGCAT	CC1
SMC21.T.GATCTAGAGCGTTCCG	CC1
SMC21.T.GATCTAGAGTCGATAA	CC1
SMC21.T.GATCTAGAGTGGTAAT	CC1
SMC21.T.GATCTAGTCAACGGGA	CC1
SMC21.T.GATGAAAAGAGCTATA	CC1
SMC21.T.GATGAAAAGAGTGAGA	CC1
SMC21.T.GATGAAACACCAACCG	CC1
SMC21.T.GATGAAAGTCAATGTC	CC1
SMC21.T.GATGAAAGTTCATGGT	CC1
SMC21.T.GATGAAAGTTTGTGG	CC1
SMC21.T.GATGAAATCCCTCTTT	CC1
SMC21.T.GATGAAATCGTCCGTT	CC1
SMC21.T.GATGAGGAGACGCAAC	CC1
SMC21.T.GATGAGGAGGACAGCT	CC1
SMC21.T.GATGAGGTCGTCCGTT	CC1
SMC21.T.GATGCTAGTAAACACA	CC1
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SMC21.T.GATGCTATCATGTAGC	CC1
SMC21.T.GATGCTATCGTTACGA	CC1
SMC21.T.GATGCTATCTAGAGTC	CC1
SMC21.T.GATTCAGAGTGTCTCA	CC1
SMC21.T.GATTCAGGTAGGACAC	CC1
SMC21.T.GATTCAGGTACAGAA	CC1
SMC21.T.GATTCAGTCACCCGAG	CC1
SMC21.T.GATTCAGTCATCATT	CC1
SMC21.T.GATTCAGTCCTTTCT	CC1
SMC21.T.GCAAAGTGGCAAAGA	CC1
SMC21.T.GCAAAGTCATACGCCG	CC1
SMC21.T.GCAAAGTGTCCCGAG	CC1
SMC21.T.GCAAAGTCTCTGAGA	CC1
SMC21.T.GCAATCACACATTTCT	CC1
SMC21.T.GCAATCACAGCGTAAG	CC1
SMC21.T.GCAATCAGTAGAGTGC	CC1
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SMC21.T.GCAATCATCAAAGACA	CC1
SMC21.T.GCAATCATCAGTTAGC	CC1
SMC21.T.GCAATCATCCTCAATT	CC1
SMC21.T.GCACATAGTAGTACCT	CC2
SMC21.T.GCACATAGTGCGCTTG	CC1
SMC21.T.GCACATATCTGAGTGT	CC1
SMC21.T.GCACTCTCAAGCCCAC	CC1
SMC21.T.GCACTCTGTCCAAGTT	CC1
SMC21.T.GCACTCTTCACCGTAA	CC1
SMC21.T.GCACTCTTCCTAGAAC	CC1
SMC21.T.GCAGCCAAGTCGCCGT	CC1
SMC21.T.GCAGCCAGTGTCTGAT	CC1
SMC21.T.GCAGCCATCTAGCACA	CC1
SMC21.T.GCAGTTAAGTACACCT	CC1
SMC21.T.GCAGTTAGTGCAACTT	CC1
SMC21.T.GCATACAAGCGTTCCG	CC1
SMC21.T.GCATGATCACAGATTC	CC1
SMC21.T.GCATGATCACCATGTA	CC1
SMC21.T.GCATGATGTCCGTCAG	CC1

SMC21.T.GCATGATTCTGCAGTA	CC1
SMC21.T.GCATGCGAGGCAATTA	CC1
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SMC21.T.GCATGTACACCTTGTC	CC1
SMC21.T.GCATGTACAGGGTATG	CC1
SMC21.T.GCCAAATCATGTGCGAT	CC1
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SMC21.T.GCCAAATGTTATGTGC	CC1
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SMC21.T.GCCTCTAAGCGTGAAC	CC1
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SMC21.T.GCGCAACCACAGACAG	CC1
SMC21.T.GCGCAACCAGGCTGAA	CC1
SMC21.T.GCGCAACTCCATGAGT	CC1
SMC21.T.GCGCAGTAGCTGCGAA	CC1
SMC21.T.GCGCAGTCACATAACC	CC1
SMC21.T.GCGCAGTGTTCAACCA	CC1
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SMC21.T.GCGCCAAAGCTTTGGT	CC1
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SMC21.T.GCGGGTTGTCGTCTTC	CC1
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SMC21.T.GCGGGTTTCAGGTAAG	CC1
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SMC21.T.GCTCCTAAGACGCAAC	CC1
SMC21.T.GCTCCTACAAGTTAAG	CC1
SMC21.T.GCTCCTAGTTCGTTGA	CC1
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SMC21.T.GCTGCAGAGCACCGTC	CC1
SMC21.T.GCTGCAGTCAACGCTA	CC1

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SMC21.T.GCTGCGAGTTTGTGG	CC1
SMC21.T.GCTGCGATCAAAGTAG	CC1
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SMC21.T.GGAATAAAGGCCATAG	CC1
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SMC21.T.GGACAAGAGTACGATA	CC1
SMC21.T.GGACAAGAGTGTACCT	CC1
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SMC21.T.GGACAGACAAGTCATC	CC1
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SMC21.T.GGACAGAGTTGGTGGA	CC1
SMC21.T.GGACAGATCAGCGACC	CC1
SMC21.T.GGACAGATCCTTAATC	CC2
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SMC21.T.GGCGACTAGAAACCGC	CC1

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SMC21.T.GTCACGGTCTTTAGGG	CC2
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SMC21.T.GTCCTCAAGATGTCGG	CC1
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SMC21.T.GTCCTCATCTGCAAGT	CC1
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SMC21.T.TAAACCGGTGATGTGG	CC1
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SMC21.T.TAAGAGACAAGGTTTC	CC1
SMC21.T.TAAGAGAGTGTAAACGG	CC1
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SMC21.T.TACAGTGGTATAATGG	CC1
SMC21.T.TACAGTGGTCGCTTCT	CC1
SMC21.T.TACAGTGGTGTATGGG	CC1
SMC21.T.TACCTATAGCTTTGGT	CC1
SMC21.T.TACCTATCACCTATCC	CC1
SMC21.T.TACCTATGTGTTTCGAT	CC1
SMC21.T.TACCTTAAGGAATCGC	CC1
SMC21.T.TACCTTAGTGAGTATA	CC1
SMC21.T.TACGGATAGACCTAGG	CC1
SMC21.T.TACGGATCATGTCTCC	CC1
SMC21.T.TACGGGCAGAAGGCCT	CC1
SMC21.T.TACGGGCAGTGTACGG	CC1
SMC21.T.TACGGGCCATACGCTA	CC1
SMC21.T.TACGGGCTCTGCCCTA	CC1
SMC21.T.TACGGTATCCAAGTAC	CC1
SMC21.T.TACTCATCACGGCGTT	CC1
SMC21.T.TACTCATGTAAGTTCC	CC1
SMC21.T.TACTCATGTACCTACA	CC1
SMC21.T.TACTCATGTGACGCCT	CC1
SMC21.T.TACTCGCAGTGTTAGA	CC1
SMC21.T.TACTCGCCAAGCGAGT	CC1
SMC21.T.TACTTACAGAAACCTA	CC1
SMC21.T.TACTTACGTCTCCCTA	CC1
SMC21.T.TACTTACGTTTCGTGAT	CC1
SMC21.T.TACTTACTCATACGGT	CC1
SMC21.T.TACTTGTAGGCGCTCT	CC1
SMC21.T.TACTTGTCAGGCAGTA	CC1
SMC21.T.TACTTGTCAGGTCGTC	CC1
SMC21.T.TACTTGTTCCTAGTGA	CC1
SMC21.T.TACTTGTTCTTCTGGC	CC1
SMC21.T.TAGACCACAGACGTAG	CC1
SMC21.T.TAGACCACATCCGGGT	CC1
SMC21.T.TAGACCACATTACGAC	CC1
SMC21.T.TAGACCATCCGTTGTC	CC1
SMC21.T.TAGAGCTCAAACAACA	CC1
SMC21.T.TAGAGCTCAGCTATTG	CC1
SMC21.T.TAGAGCTGTCGAAAGC	CC1
SMC21.T.TAGCCGGAGACCCACC	CC1
SMC21.T.TAGCCGGTCAACACCA	CC1
SMC21.T.TAGCCGGTCTTCGAGA	CC1
SMC21.T.TAGGCATAGCGATGAC	CC1
SMC21.T.TAGGCATAGTGGTAGC	CC1
SMC21.T.TAGGCATGTTAGTGGG	CC1
SMC21.T.TAGGCATTCAGCATGT	CC1
SMC21.T.TAGGCATTCGGAATCT	CC1
SMC21.T.TAGGCATTCGGACAAG	CC1
SMC21.T.TAGGCATTCGGTGTCTG	CC1
SMC21.T.TAGTGGTAGGTAAACT	CC1
SMC21.T.TAGTGGTCAAATCCGT	CC1
SMC21.T.TATCAGGAGGTGATTA	CC1
SMC21.T.TATCAGGCACGCTTTC	CC1
SMC21.T.TATCAGGGTCGAACAG	CC1
SMC21.T.TATCAGGTCAATAAGG	CC1
SMC21.T.TATCAGGTTCGCATGGC	CC1
SMC21.T.TATGCCCCAGCGTCCA	CC1

SMC21.T.TATTACCCAGCATGAG	CC1
SMC21.T.TATTACCTCTGGCGAC	CC1
SMC21.T.TCAACGACAATACGCT	CC1
SMC21.T.TCAACGAGTACCGAGA	CC1
SMC21.T.TCAATCTAGTGAAGTT	CC1
SMC21.T.TCAATCTTCCAATGGT	CC1
SMC21.T.TCACAAGGTCTGCCAG	CC1
SMC21.T.TCACAAGGTCTTTCAT	CC1
SMC21.T.TCACGAACAGGACCCT	CC1
SMC21.T.TCACGAAGTACCGTAT	CC1
SMC21.T.TCACGAAGTGCAGACA	CC1
SMC21.T.TCACGAATCGATCCCT	CC1
SMC21.T.TCACGAATCGTTTATC	CC1
SMC21.T.TCAGATGCAAACAACA	CC1
SMC21.T.TCAGATGCAAAGGTGC	CC1
SMC21.T.TCAGATGCAGCCTTTC	CC1
SMC21.T.TCAGATGGTAAACCTC	CC1
SMC21.T.TCAGCAATCGCGATCG	CC1
SMC21.T.TCAGCTCAGTCATCCA	CC1
SMC21.T.TCAGCTCCACAGGAGT	CC1
SMC21.T.TCAGCTCGTCATCGGC	CC1
SMC21.T.TCAGCTCTCACCAGGC	CC1
SMC21.T.TCAGGATTCCAGAGGA	CC2
SMC21.T.TCAGGATTCCTACAGA	CC1
SMC21.T.TCAGGTAGTAGTACCT	CC1
SMC21.T.TCATTACGTGACAAAT	CC1
SMC21.T.TCATTACGTGCGAAAC	CC1
SMC21.T.TCATTTGCAGTACACT	CC1
SMC21.T.TCATTTGGTAGCACGA	CC1
SMC21.T.TCATTTGGTGTCAATC	CC1
SMC21.T.TCCACACAGTGAAGAG	CC1
SMC21.T.TCCCGATAGACAGGCT	CC1
SMC21.T.TCCCGATCACC GATAT	CC1
SMC21.T.TCCCGATCATACTCTT	CC1
SMC21.T.TCCCGATGTGAGGGAG	CC1
SMC21.T.TCCCGATGTGCACGAA	CC1
SMC21.T.TCGAGGCCACATCTTT	CC1
SMC21.T.TCGAGGCGTGACTCAT	CC1
SMC21.T.TCGAGGCGTGTCAATC	CC1
SMC21.T.TCGAGGCTCAACCAAC	CC2
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SMC21.T.TCGAGGCTCGGTGTCG	CC1
SMC21.T.TCGCGAGAGAATAGGG	CC1
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SMC21.T.TCGCGAGTCGGAAACG	CC1
SMC21.T.TCGCGAGTCGGATGTT	CC1
SMC21.T.TCGCGTTAGACACTAA	CC1
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SMC21.T.TCGTACCGTAAGTTCC	CC1
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SMC21.T.TCGTACCTCCAGGGCT	CC1
SMC21.T.TCGTACCTCGCTAGCG	CC1
SMC21.T.TCGTAGACACCGTTGG	CC1

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SMC21.T.TCTATTGAGACTAAGT	CC1
SMC21.T.TCTATTGGTACCATCA	CC1
SMC21.T.TCTATTGGTAGAAAGG	CC1
SMC21.T.TCTCATATCCCAAGAT	CC1
SMC21.T.TCTCTAAAGTGAACGC	CC1
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SMC21.T.TCTTTCCCACACTGCG	CC1
SMC21.T.TGAAAGAAGCAACGGT	CC1
SMC21.T.TGAAAGAGTCGCGGTT	CC1
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SMC21.T.TGACGGCAGATGTTAG	CC1
SMC21.T.TGACGGCAGCACAGGT	CC1
SMC21.T.TGACGGCTCTACTCAT	CC1
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SMC21.T.TGACTAGTCATTTGGG	CC1
SMC21.T.TGACTTTACGGCCAT	CC1
SMC21.T.TGACTTTGTAGGGACT	CC1
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SMC21.T.TGACTTTGTTGCGCAC	CC1
SMC21.T.TGACTTTTCAAGGTAA	CC1
SMC21.T.TGACTTTTTCGTGGGAA	CC1
SMC21.T.TGACTTTTCTGACCTC	CC1
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SMC21.T.TGAGAGGGTGACAAAT	CC1
SMC21.T.TGAGAGGGTCACATGCA	CC1
SMC21.T.TGAGCATAGCGTTTAC	CC1
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SMC21.T.TGAGCCGTCCTCGCAT	CC1
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SMC21.T.TGATTTCTCAGAGACG	CC1
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SMC21.T.TGCACCTGTACCGTTA	CC1
SMC21.T.TGCACCTGTCGACTAT	CC1
SMC21.T.TGCCAAATCTCGTTTA	CC1
SMC21.T.TGCCCATAGACTAGAT	CC1
SMC21.T.TGCCCATAGTACACCT	CC1
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SMC21.T.TGCCCATTCTCACATT	CC1
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SMC21.T.TGCCCTACACTGTTAG	CC1
SMC21.T.TGCCCTATCAGCATGT	CC1
SMC21.T.TGCCCTATCCTATGTT	CC1
SMC21.T.TGCGCAGAGGCAATTA	CC1
SMC21.T.TGCGCAGCATCACGAT	CC1
SMC21.T.TGCGGGTTCTCTGAGA	CC1
SMC21.T.TGCGTGGAGAAGGACA	CC1
SMC21.T.TGCGTGGAGCCAGAAC	CC1
SMC21.T.TGCGTGGCAAAGGTGC	CC2
SMC21.T.TGCGTGGCACAGCGTC	CC1
SMC21.T.TGCGTGGGTAGCACGA	CC1
SMC21.T.TGCGTGGTCAACACCA	CC1
SMC21.T.TGCGTGGTCCGGGTGT	CC1
SMC21.T.TGCTACCCAGCTGTTA	CC1
SMC21.T.TGCTACCTCATGTCCC	CC1
SMC21.T.TGCTGCTCACAACGCC	CC1
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SMC21.T.TGGACGCTCAGCTCTC	CC1
SMC21.T.TGGCCAGAGCAACGGT	CC1
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SMC21.T.TGGGAAGAGTTTCGATC	CC1
SMC21.T.TGGGAAGCAAGAAGAG	CC1
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SMC21.T.TGGGCGTGTTCGAATC	CC1
SMC21.T.TGGGCGTTCACTCTTA	CC1
SMC21.T.TGGGCGTTCAGGCCCA	CC1
SMC21.T.TGGTTAGAGGGATACC	CC2

SMC21.T.TGGTTAGCAATTGCTG	CC1
SMC21.T.TGGTTAGCACACGCTG	CC1
SMC21.T.TGGTTAGGTACAGCAG	CC1
SMC21.T.TGGTTCCAGAGCCCAA	CC1
SMC21.T.TGGTTCCAGATAGGAG	CC1
SMC21.T.TGGTTCCAAGGACAC	CC2
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SMC21.T.TGGTTCCGTCTAGAGG	CC1
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SMC21.T.TGTATTCCATTGACA	CC1
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SMC21.T.TTAACTCCACTTAACG	CC1
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SMC21.T.TTAACTCTCCTCAATT	CC1
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SMC21.T.TTCCCAGTCGCGTAGC	CC1
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SMC22.T.AAATGCCGTAAGTGGC	CC2
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SMC22.T.AACACGTCATGCCTAA	CC1

SMC22.T.AACACGTGTCTAACGT	CC1
SMC22.T.AACACGTGTGCGATAG	CC1
SMC22.T.AACACGTTCAAGCCTA	CC1
SMC22.T.AACACGTTCAAGTTCGA	CC1
SMC22.T.AACACGTTCCACGACG	CC2
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SMC22.T.AACCGCGCAATAGCGG	CC1
SMC22.T.AACCGCGCATCGATGT	CC1
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SMC22.T.AACGTTGAGATGTAAC	CC1
SMC22.T.AACGTTGAGCAATCTC	CC1
SMC22.T.AACGTTGTCGGGAGTA	CC1
SMC22.T.AACTCAGCAGCGATCC	CC1
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SMC22.T.AACTTTCAGTAGGCCA	CC1
SMC22.T.AACTTTCGTAATGTG	CC1
SMC22.T.AACTTTCCTCAACC	CC2
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SMC22.T.AAGCCGCCATCCTAGA	CC2
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SMC22.T.AAGGCAGAGAGTAAGG	CC2
SMC22.T.AAGGCAGAGGATATAC	CC1
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SMC22.T.AAGGTTCAAGATCTGCT	CC2
SMC22.T.AAGGTTCAAGCGTAATA	CC2
SMC22.T.AAGGTTCAAGTAGCCGA	CC2
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SMC22.T.AAGTCTGGTCTTTAT	CC1
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SMC22.T.AATCCAGTCTAGAGTC	CC1
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SMC22.T.AATCGGTCACGGATAG	CC2
SMC22.T.AATCGGTCAGCTTAAC	CC1
SMC22.T.AATCGGTGTAAACCTC	CC2
SMC22.T.AATCGGTTCCACGAAT	CC1
SMC22.T.AATCGGTTCCCTAACC	CC1
SMC22.T.AATCGGTTCTGTCTCG	CC1
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SMC22.T.ACACCAACACCTTGTC	CC1
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SMC22.T.ACACCAAGTGCAGTAG	CC1
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SMC22.T.ACACCAATCGGAAATA	CC2
SMC22.T.ACACCAATCGGTTCCG	CC2
SMC22.T.ACACCCTCAAAGCAAT	CC2
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SMC22.T.ACACCCTGTGCGCTTG	CC2
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SMC22.T.ACACCGGCAAATACAG	CC1
SMC22.T.ACACCGGTCGCATCG	CC2
SMC22.T.ACACCGGTTATTCTC	CC1
SMC22.T.ACACCGGTCAGCATGT	CC1
SMC22.T.ACACCGGTCATACGGT	CC1
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SMC22.T.ACACTGACAGCTATTG	CC2
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SMC22.T.ACACTGAGTGATGTGG	CC1
SMC22.T.ACACTGATCCCACTTG	CC1
SMC22.T.ACAGCCGAGTAAGTAC	CC1
SMC22.T.ACAGCCGTCGGAAATA	CC1
SMC22.T.ACAGCCGTCGTGGGAA	CC1
SMC22.T.ACAGCTAAGCAACGGT	CC1
SMC22.T.ACAGCTAAGCTTCGCG	CC1
SMC22.T.ACAGCTACAAGTAGTA	CC2
SMC22.T.ACAGCTAGTTGAGGTG	CC1
SMC22.T.ACATACGAGGCAGGTT	CC1
SMC22.T.ACATACGCAAGTTCTG	CC2
SMC22.T.ACATACGCACCTTGTC	CC1
SMC22.T.ACATACGGTTCGCGAC	CC2
SMC22.T.ACATACGTCTCCGGTT	CC1
SMC22.T.ACATCAGCAAACGTGG	CC1
SMC22.T.ACATCAGGTACAAGTA	CC2
SMC22.T.ACATGGTCACGCGAAA	CC2
SMC22.T.ACATGGTCAGCTCGCA	CC1
SMC22.T.ACATGGTTCGTCACGG	CC1
SMC22.T.ACCAGTAAGCCGTCGT	CC1
SMC22.T.ACCAGTAAGGATCGCA	CC2
SMC22.T.ACCAGTACAAAGGTGC	CC1

SMC22.T.ACCAGTATCCGAACGC	CC2
SMC22.T.ACCCACTCAATGTTGC	CC1
SMC22.T.ACCCACTCATATACGC	CC2
SMC22.T.ACCCACTGTCAAGCGA	CC1
SMC22.T.ACCCACTGTCTGCAAT	CC1
SMC22.T.ACCCACTGTGTTTGGT	CC2
SMC22.T.ACCCACTTCACGAAGG	CC1
SMC22.T.ACCGTAAGAGTACAT	CC1
SMC22.T.ACCGTAACACCAGCAC	CC1
SMC22.T.ACCGTAATCCAGTAGT	CC1
SMC22.T.ACCGTAATCCTCCTAG	CC1
SMC22.T.ACCGTAATCTGCTGTC	CC1
SMC22.T.ACCTTTACAATCGAAA	CC2
SMC22.T.ACCTTTAGTAGTGAAT	CC1
SMC22.T.ACCTTTAGTGCAACGA	CC1
SMC22.T.ACCTTTATCACTCTTA	CC2
SMC22.T.ACCTTTATCTCTAGGA	CC2
SMC22.T.ACGAGCCAGCTGATAA	CC1
SMC22.T.ACGAGCCCAATCCAAC	CC2
SMC22.T.ACGAGCCCACAAGTAA	CC1
SMC22.T.ACGAGCCTCGAGCCCA	CC1
SMC22.T.ACGAGGACAAACAACA	CC1
SMC22.T.ACGAGGAGTGCCTGTG	CC1
SMC22.T.ACGAGGATCTGTCTAT	CC2
SMC22.T.ACGATACCATGCTGGC	CC1
SMC22.T.ACGATACTCTTACCTA	CC1
SMC22.T.ACGATGTGTTGAGTTC	CC1
SMC22.T.ACGATGTTCTACGAGT	CC1
SMC22.T.ACGCAGCGTAAATGAC	CC1
SMC22.T.ACGCAGCTCCTGTACC	CC2
SMC22.T.ACGCCAGCAGTCACTA	CC1
SMC22.T.ACGCCAGCATCAGTAC	CC1
SMC22.T.ACGCCGAAGGCCGAAT	CC1
SMC22.T.ACGCCGAAGGGCATGT	CC1
SMC22.T.ACGCCGACAATGTAAG	CC1
SMC22.T.ACGCCGAGTGCGATAG	CC1
SMC22.T.ACGCCGATCTGCAGTA	CC1
SMC22.T.ACGGAGAAGCTACCTA	CC1
SMC22.T.ACGGCCACACATCCAA	CC2
SMC22.T.ACGGCCACACCAGATT	CC1
SMC22.T.ACGGCCATCACGGTTA	CC2
SMC22.T.ACGGGCTGTGAGATG	CC1
SMC22.T.ACGGGCTGTGCACTTA	CC1
SMC22.T.ACGGGCTTCATCTGCC	CC2
SMC22.T.ACGGGCTTCCGTCAAA	CC1
SMC22.T.ACGGGTCGTATGAATG	CC1
SMC22.T.ACGTCAAAGTCTCGGC	CC1
SMC22.T.ACGTCAAAGTGGCACA	CC2
SMC22.T.ACGTCAACAAGCTGGA	CC2
SMC22.T.ACGTCAAGTAGTACCT	CC1
SMC22.T.ACGTCAAGTTTGTGTG	CC1
SMC22.T.ACGTCAATCAGTCCCT	CC1
SMC22.T.ACTATCTCACAAGACG	CC1
SMC22.T.ACTATCTCACGGCGTT	CC1
SMC22.T.ACTATCTCACTTGGAT	CC1
SMC22.T.ACTATCTCATAACAGCT	CC1
SMC22.T.ACTATCTCATACTCTT	CC1
SMC22.T.ACTATCTTCCTTCAAT	CC2

SMC22.T.ACTGAACAGTGTACCT	CC1
SMC22.T.ACTGAACGTACGACCC	CC1
SMC22.T.ACTGAACGTACTCTCC	CC1
SMC22.T.ACTGAGTAGCCCAACC	CC1
SMC22.T.ACTGAGTCAACACGCC	CC1
SMC22.T.ACTGAGTTCGATGAGG	CC1
SMC22.T.ACTGATGAGAGCCCAA	CC1
SMC22.T.ACTGATGAGCGAGAAA	CC1
SMC22.T.ACTGATGCAAGTCTGT	CC1
SMC22.T.ACTGATGGTCAATGTC	CC2
SMC22.T.ACTGATGGTCATCGGC	CC2
SMC22.T.ACTGATGTCCACTGGG	CC1
SMC22.T.ACTGATGTCGCGGATC	CC1
SMC22.T.ACTGCTCAGGCTCTTA	CC1
SMC22.T.ACTGCTCTCCTGTAGA	CC2
SMC22.T.ACTGTCCAGTAATCCC	CC2
SMC22.T.ACTGTCCGTCTTGATG	CC1
SMC22.T.ACTTACTGTACTIONAAC	CC1
SMC22.T.ACTTGTTAGGCTAGGT	CC1
SMC22.T.ACTTGTTAGTGACATA	CC2
SMC22.T.ACTTGTTCAACTGCTA	CC1
SMC22.T.ACTTGTTCAATAACGA	CC1
SMC22.T.ACTTGTTCATAACCTG	CC1
SMC22.T.ACTTTCAGGTGCTAG	CC2
SMC22.T.ACTTTCACATTCACTT	CC1
SMC22.T.ACTTTCAGTAACGTTT	CC1
SMC22.T.ACTTTCAGTTCGGCAC	CC2
SMC22.T.AGAATAGAGTTACGGG	CC1
SMC22.T.AGAATAGTCTCGATGA	CC2
SMC22.T.AGACGTTAGAGATGAG	CC1
SMC22.T.AGACGTTAGCCAGAAC	CC1
SMC22.T.AGACGTTAGCTACCGC	CC1
SMC22.T.AGACGTTAGCTAGCCC	CC1
SMC22.T.AGACGTTCACTGTTAG	CC1
SMC22.T.AGACGTTCATACGCTA	CC1
SMC22.T.AGACGTTTCAGTGCAT	CC1
SMC22.T.AGAGCGACAAATCCGT	CC2
SMC22.T.AGAGCGACACCATGTA	CC1
SMC22.T.AGAGCGACATGCTGGC	CC1
SMC22.T.AGAGCGAGTTCGCTAA	CC1
SMC22.T.AGAGCGATCAATCTCT	CC1
SMC22.T.AGAGCTTAGTCAAGCG	CC1
SMC22.T.AGAGCTTCACGAAACG	CC1
SMC22.T.AGAGCTTCACTGTCCG	CC1
SMC22.T.AGAGCTTCATTGTGCA	CC1
SMC22.T.AGAGCTTGTCTTCGTC	CC1
SMC22.T.AGAGTGGAGTGGTAAT	CC1
SMC22.T.AGAGTGGCATGCCTTC	CC2
SMC22.T.AGAGTGGGTGATAAAC	CC2
SMC22.T.AGATCTGAGCGTTTAC	CC1
SMC22.T.AGATCTGAGTGACATA	CC1
SMC22.T.AGATCTGCACCACCAG	CC1
SMC22.T.AGATCTGCACCGAAAAG	CC1
SMC22.T.AGATCTGCACCGGAAA	CC2
SMC22.T.AGATCTGGTACAGACG	CC1
SMC22.T.AGATCTGGTCTGCGGT	CC1
SMC22.T.AGATCTGGTTAAGAAC	CC1
SMC22.T.AGATCTGGTTCCACGG	CC1

SMC22.T.AGATCTGTCACATGCA	CC1
SMC22.T.AGATCTGTCTCCAACC	CC1
SMC22.T.AGATTGCGTACCTACA	CC1
SMC22.T.AGCAGCCAGAACAATC	CC1
SMC22.T.AGCAGCCCACACCGCA	CC1
SMC22.T.AGCATACCAGAGCCAA	CC1
SMC22.T.AGCATACCATGTTGAC	CC1
SMC22.T.AGCATACGTAGGACAC	CC1
SMC22.T.AGCATACGTCCTAGCG	CC2
SMC22.T.AGCATACGTTTGACTG	CC1
SMC22.T.AGCATACTCCACTCCA	CC2
SMC22.T.AGCCTAAAGACGACGT	CC1
SMC22.T.AGCCTAAAGAGTCGGT	CC1
SMC22.T.AGCCTAACAATCAGAA	CC1
SMC22.T.AGCCTAAGTGAAATCA	CC1
SMC22.T.AGCGGTCAGCGATTCT	CC1
SMC22.T.AGCGGTCAGCGAACA	CC1
SMC22.T.AGCGGTCTCAGCTCGG	CC1
SMC22.T.AGCGTATCAGGGCATA	CC1
SMC22.T.AGCGTATGTGTGACCC	CC2
SMC22.T.AGCGTCGCAACACGCC	CC1
SMC22.T.AGCGTCGGTGGGTCAA	CC1
SMC22.T.AGCGTCGTCCTACAGA	CC2
SMC22.T.AGCTCCTCAAGTACCT	CC1
SMC22.T.AGCTCCTCAATAGAGT	CC2
SMC22.T.AGCTCCTCATATGCTG	CC1
SMC22.T.AGCTCCTGTGACGCCT	CC2
SMC22.T.AGCTCCTCAGCCTAA	CC1
SMC22.T.AGCTCTCCAAGAGTCG	CC1
SMC22.T.AGCTCTCCACATGGGA	CC1
SMC22.T.AGCTCTCGTTGTACAC	CC1
SMC22.T.AGCTTGACAAACGTGG	CC1
SMC22.T.AGCTTGACATGAACCT	CC1
SMC22.T.AGCTTGATCTAACTGG	CC1
SMC22.T.AGGCCACAGGATTCGG	CC1
SMC22.T.AGGCCACGTGCGCATAT	CC2
SMC22.T.AGGCCACGTGTTTGTG	CC1
SMC22.T.AGGCCGTCAATGGAGC	CC2
SMC22.T.AGGCCGTGTCCAAGTT	CC1
SMC22.T.AGGCCGTTACCGGGT	CC1
SMC22.T.AGGCCGTTCAAGTTGAC	CC2
SMC22.T.AGGCCGTTCTAACTTC	CC1
SMC22.T.AGGCCGTTCTCTTATG	CC1
SMC22.T.AGGGAGTAGAGAACAG	CC1
SMC22.T.AGGGAGTGTAGATTAG	CC1
SMC22.T.AGGGAGTTCAAAGTAG	CC1
SMC22.T.AGGGATGCAAGCCGTC	CC1
SMC22.T.AGGGATGCAATGGAAT	CC2
SMC22.T.AGGGATGGTAGAGTGC	CC2
SMC22.T.AGGGATGGTCCAAGTT	CC1
SMC22.T.AGGGTGAAGGTGTTAA	CC1
SMC22.T.AGGGTGAGTGAGTGAC	CC1
SMC22.T.AGGGTGAGTGCGGTAA	CC1
SMC22.T.AGGTCATCAATGAATG	CC1
SMC22.T.AGGTCATGTCGCGAAA	CC1
SMC22.T.AGGTCATGTGCCTGGT	CC1
SMC22.T.AGGTCATGTGCCTGTG	CC1
SMC22.T.AGGTCATGTTAGATGA	CC2

SMC22.T.AGGTCCGAGTGAAGAG	CC1
SMC22.T.AGGTCCGCAAGTAGTA	CC1
SMC22.T.AGGTCCGGTCAAATCA	CC1
SMC22.T.AGGTCCGGTGGGTATG	CC1
SMC22.T.AGGTCCGTCGAAACT	CC1
SMC22.T.AGTAGTCAGCAGGCTA	CC1
SMC22.T.AGTAGTCAGGAGTTTA	CC2
SMC22.T.AGTAGTCAGTATTGGA	CC2
SMC22.T.AGTAGTCGTTGAACTC	CC2
SMC22.T.AGTAGTCTCAGCTGGC	CC1
SMC22.T.AGTAGTCTCGTCCGTT	CC2
SMC22.T.AGTCTTTGTCGAGATG	CC1
SMC22.T.AGTCTTTGTTAAGTAG	CC1
SMC22.T.AGTCTTTTCGGAAACG	CC2
SMC22.T.AGTGAGGCATCTCCCA	CC1
SMC22.T.AGTGAGGGTATCAGTC	CC1
SMC22.T.AGTGAGGGTTCCATGA	CC2
SMC22.T.AGTGAGGTCGGTTCGG	CC2
SMC22.T.AGTGGGAAGTAGATGT	CC1
SMC22.T.AGTGGGAGTCAGAATA	CC1
SMC22.T.AGTGTCAAGGACATTA	CC1
SMC22.T.AGTGTCAAGTTAACGA	CC1
SMC22.T.AGTGTCACAAACGTGG	CC1
SMC22.T.AGTGTCACACCGATAT	CC1
SMC22.T.AGTGTCACAGGTGGAT	CC1
SMC22.T.AGTGTCACAGTTAACC	CC1
SMC22.T.AGTTGGTAGACTGTAA	CC2
SMC22.T.AGTTGGTAGGGCTTGA	CC1
SMC22.T.AGTTGGTTCAGCTCGG	CC1
SMC22.T.AGTTGGTTCGACCAGC	CC2
SMC22.T.ATAACGCAGGCCCGTT	CC2
SMC22.T.ATAACGCAGTATCGAA	CC1
SMC22.T.ATAACGCGTCAGAAGC	CC2
SMC22.T.ATAAGAGCAGTCTTCC	CC2
SMC22.T.ATAAGAGCATACTCTT	CC1
SMC22.T.ATAAGAGGTAAACCTC	CC1
SMC22.T.ATAAGAGGTCTCACCT	CC2
SMC22.T.ATAAGAGTCATAACCG	CC2
SMC22.T.ATAAGAGTCCAAACTG	CC1
SMC22.T.ATAAGAGTCCGAATGT	CC2
SMC22.T.ATCACGACATATGGTC	CC2
SMC22.T.ATCACGATCGCCTGTT	CC1
SMC22.T.ATCATGGAGACAAGCC	CC1
SMC22.T.ATCATGGAGGGCTTGA	CC1
SMC22.T.ATCATGGGTAAGTGGC	CC1
SMC22.T.ATCATGGGTCCTAGCG	CC1
SMC22.T.ATCATGGGTTGCTAA	CC2
SMC22.T.ATCATGGTCCGCAGTG	CC1
SMC22.T.ATCCACCTCCTTGGTC	CC1
SMC22.T.ATCCACCTCTAGCACA	CC1
SMC22.T.ATCCACCTCTGTCTCG	CC2
SMC22.T.ATCCGAACATGTTCCC	CC2
SMC22.T.ATCCGAAGTGATAAAC	CC1
SMC22.T.ATCGAGTAGCGTGTCC	CC1
SMC22.T.ATCGAGTAGGCATGGT	CC1
SMC22.T.ATCGAGTCACTTAACG	CC1
SMC22.T.ATCGAGTCAGGGTTAG	CC2
SMC22.T.ATCGAGTCATGCCTAA	CC1

SMC22.T.ATCGAGTGTCCCGACA	CC1
SMC22.T.ATCTACTAGTAGATGT	CC1
SMC22.T.ATCTGCCAGGCTAGCA	CC1
SMC22.T.ATCTGCCCAAGCCATT	CC1
SMC22.T.ATCTGCCCATCGACGC	CC1
SMC22.T.ATCTGCCGTCCGTCAG	CC1
SMC22.T.ATCTGCCGTTCCGGCAC	CC1
SMC22.T.ATGAGGGAGATCTGCT	CC1
SMC22.T.ATGAGGGGTGCCTTGG	CC2
SMC22.T.ATGAGGGGTGTGAATA	CC2
SMC22.T.ATGAGGGGTTGGTGGA	CC1
SMC22.T.ATGAGGGTCCATGAAC	CC1
SMC22.T.ATGCGATTCTCGGACG	CC1
SMC22.T.ATGGGAGAGCCTATGT	CC1
SMC22.T.ATGGGAGCACGAAAGC	CC2
SMC22.T.ATGGGAGCATTGAGCT	CC2
SMC22.T.ATGGGAGGTGTTGAT	CC1
SMC22.T.ATGGGAGTCATGCTCC	CC1
SMC22.T.ATGGGAGTCCCTTGCA	CC1
SMC22.T.ATGTGTGAGATGGGTC	CC1
SMC22.T.ATGTGTGCAAAGTGCG	CC1
SMC22.T.ATGTGTGCAACGATCT	CC1
SMC22.T.ATGTGTGCACCTCGTT	CC2
SMC22.T.ATGTGTGTCCCGGATG	CC1
SMC22.T.ATGTGTGTCTGCCCTA	CC1
SMC22.T.ATTACTCAGCTAGTTC	CC1
SMC22.T.ATTACTCAGTCGTTTG	CC1
SMC22.T.ATTATCCAGCTACCTA	CC2
SMC22.T.ATTATCCCATCGTCGG	CC1
SMC22.T.ATTATCCCATTGTGCA	CC2
SMC22.T.ATTATCCGTTTGACAC	CC1
SMC22.T.ATTATCCTCCGCATAA	CC1
SMC22.T.ATTCTACAGATCTGAA	CC1
SMC22.T.ATTCTACAGTTGCAGG	CC1
SMC22.T.ATTCTACGTTGGTAAA	CC1
SMC22.T.ATTCTACTCGTTGACA	CC1
SMC22.T.ATTCTACTCTGCCAGG	CC1
SMC22.T.ATTGGACAGCGAAGGG	CC1
SMC22.T.ATTGGACAGTTGCAGG	CC1
SMC22.T.ATTGGACGTAATCACC	CC1
SMC22.T.ATTGGACGTATAGGGC	CC1
SMC22.T.ATTGGACTCAACACTG	CC1
SMC22.T.ATTGGACTCCTAGGGC	CC1
SMC22.T.ATTGGACTCCTGCCAT	CC1
SMC22.T.ATTGGACTCTACCTGC	CC1
SMC22.T.ATTGGACTCTTCGAGA	CC1
SMC22.T.ATTGGTGAGCAGGTCA	CC2
SMC22.T.ATTGGTGAGTTACCCA	CC2
SMC22.T.ATTGGTGCAATGCCAT	CC1
SMC22.T.ATTGGTGGTGACTACT	CC1
SMC22.T.CAACCAAAGAGGACGG	CC1
SMC22.T.CAACCAAAGGCTACGA	CC1
SMC22.T.CAACCAACATTGGGCC	CC1
SMC22.T.CAACCAATCCAGATCA	CC2
SMC22.T.CAACCAATCCCGGATG	CC1
SMC22.T.CAACCAATCGGCCGAT	CC1
SMC22.T.CAACCTCAGGGATGGG	CC1
SMC22.T.CAACCTCCAGGTCTCG	CC1

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SMC22.T.CAACCTCTCCAGAAGG	CC1
SMC22.T.CAACTAGAGGATGCGT	CC1
SMC22.T.CAACTAGTCGTTACAG	CC1
SMC22.T.CAACTAGTCTTGCAAG	CC2
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SMC22.T.CAAGAAATCAACCAAC	CC1
SMC22.T.CAAGATCAGAAACGCC	CC1
SMC22.T.CAAGATCCAATGACCT	CC2
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SMC22.T.CAAGTTGCAGAGCCAA	CC1
SMC22.T.CAAGTTGGTTTCGCTC	CC2
SMC22.T.CAAGTTGTCAATCACG	CC2
SMC22.T.CACAAACAGCGTTCCG	CC2
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SMC22.T.CACAAACTCGCCAAAT	CC1
SMC22.T.CACACAAAGTCGTACT	CC2
SMC22.T.CACACAACACCAGATT	CC1
SMC22.T.CACACAATCAAAGTAG	CC1
SMC22.T.CACACAATCAGGTTCA	CC1
SMC22.T.CACACAATCCACGAAT	CC1
SMC22.T.CACACAATCTGGGCCA	CC1
SMC22.T.CACACCTCAAAGTGC	CC2
SMC22.T.CACACCTGTCTAACGT	CC1
SMC22.T.CACACCTTCGATCCCT	CC2
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SMC22.T.CACACTCTCCTGCAGG	CC1
SMC22.T.CACACTCTCGTACCGG	CC2
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SMC22.T.CACAGGCTCATGTAGC	CC2
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SMC22.T.CACATAGAGATGTGTA	CC1
SMC22.T.CACATAGAGGATCGCA	CC1
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SMC22.T.CACATAGGTTTCCACC	CC1
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SMC22.T.CACATAGTCAGTGAT	CC1
SMC22.T.CACATTTAGCAAATCA	CC1
SMC22.T.CACCACTCAAGGCTCC	CC1
SMC22.T.CACCACTGTCTGCGGT	CC1
SMC22.T.CACCACTTCACCATAG	CC1
SMC22.T.CACCACTTCGCTTAGA	CC1
SMC22.T.CACCAGGTCCTTCAAT	CC1
SMC22.T.CACCTTGCAAGCGCTC	CC1
SMC22.T.CACCTTGACACAGAG	CC1
SMC22.T.CACCTTGACGGCCAT	CC1
SMC22.T.CACCTTGATCGGTTA	CC1
SMC22.T.CACCTTGGTATGAATG	CC1

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SMC22.T.CACCTTGTCTATCCCG	CC1
SMC22.T.CAGAATCAGGACAGCT	CC1
SMC22.T.CAGAATCGTCTACCTC	CC1
SMC22.T.CAGAATCGTCTTCGTC	CC1
SMC22.T.CAGAATCGTGTTTCGAT	CC1
SMC22.T.CAGAATCTCCTTTCCG	CC1
SMC22.T.CAGAGAGCACCCATTC	CC1
SMC22.T.CAGAGAGGTCCGTCAG	CC1
SMC22.T.CAGAGAGTCTTGCAAG	CC1
SMC22.T.CAGATCAAGGGCTTCC	CC2
SMC22.T.CAGATCAAGTCTCCTC	CC2
SMC22.T.CAGATCAGTAAATACG	CC1
SMC22.T.CAGATCATCAATCACG	CC1
SMC22.T.CAGATCATCTGTGCAA	CC2
SMC22.T.CAGCAGCAGGACAGAA	CC1
SMC22.T.CAGCAGCGTCTTCTCG	CC1
SMC22.T.CAGCAGCGTGCAACGA	CC2
SMC22.T.CAGCAGCGTTCGCTAA	CC1
SMC22.T.CAGCATAAGCAATATG	CC1
SMC22.T.CAGCATAAGGCCCTTG	CC1
SMC22.T.CAGCATAACAAGACGTG	CC1
SMC22.T.CAGCATAACAGGCTGAA	CC1
SMC22.T.CAGCATAGTCGAACAG	CC1
SMC22.T.CAGCATATCAGTTCGA	CC1
SMC22.T.CAGCATATCCGGCACA	CC1
SMC22.T.CAGCCGAAGACAAAAGG	CC1
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SMC22.T.CAGCCGAGTCAAAGCG	CC1
SMC22.T.CAGCCGAGTCCGAATT	CC1
SMC22.T.CAGCCGAGTCGACTAT	CC2
SMC22.T.CAGCCGATCCTATTCA	CC1
SMC22.T.CAGCGACAGCTGAACG	CC1
SMC22.T.CAGCGACTCATTCACT	CC2
SMC22.T.CAGCGACTCTTACCTA	CC2
SMC22.T.CAGCTAAGTGACTCAT	CC2
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SMC22.T.CAGCTGGAGAGTACAT	CC2
SMC22.T.CAGCTGGAGTTTCCTT	CC2
SMC22.T.CAGCTGGCAGGGAGAG	CC2
SMC22.T.CAGCTGGCAGGTCGTC	CC1
SMC22.T.CAGCTGGCATTCTGC	CC1
SMC22.T.CAGGTGCAGCCAGGAT	CC2
SMC22.T.CAGGTGCAGGTGCAAC	CC2
SMC22.T.CAGGTGCTCTCCTATA	CC2
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SMC22.T.CAGTAACTCACGACTA	CC1
SMC22.T.CAGTCCTCATACCATG	CC1
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SMC22.T.CAGTCCTGTCTAAAGA	CC1
SMC22.T.CAGTCCTTCAGCATGT	CC1
SMC22.T.CAGTCCTTCATTATCC	CC1
SMC22.T.CATATGGTCGTAGGTT	CC2
SMC22.T.CATATTCGTTCCCGAG	CC1
SMC22.T.CATATTCTCGTCGTTT	CC1
SMC22.T.CATCAAGCAAGGTTTC	CC1

SMC22.T.CATCAAGGTCACCTAA	CC1
SMC22.T.CATCAAGGTCTACCTC	CC1
SMC22.T.CATCAAGTCATTTGGG	CC2
SMC22.T.CATCAGACAGCCACCA	CC1
SMC22.T.CATCAGACAGTCAGAG	CC1
SMC22.T.CATCAGAGTCTCTTAT	CC1
SMC22.T.CATCCACAGCCAGGAT	CC1
SMC22.T.CATCCACCACCATGTA	CC1
SMC22.T.CATCGAACAAGGACAC	CC2
SMC22.T.CATCGAACACACAGAG	CC1
SMC22.T.CATCGAAGTTATGCGT	CC1
SMC22.T.CATCGAATCCGTAGGC	CC1
SMC22.T.CATCGGGAGCGTGAAC	CC1
SMC22.T.CATCGGGCATGCCTAA	CC2
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SMC22.T.CATCGGGTCCGCGTTT	CC1
SMC22.T.CATGACACAATGTAAG	CC1
SMC22.T.CATGACACATCCTTGC	CC1
SMC22.T.CATGACACATGAGCGA	CC1
SMC22.T.CATGACAGTGCAGTAG	CC1
SMC22.T.CATGACATCAAACGGG	CC1
SMC22.T.CATGACATCGTACCGG	CC2
SMC22.T.CATGCCTCATGGTCAT	CC1
SMC22.T.CATGGCGAGGGTTCCC	CC1
SMC22.T.CATGGCGGTGAGCGAT	CC1
SMC22.T.CATGGCGTCCAGAAGG	CC1
SMC22.T.CATGGCGTCCGAGCCA	CC1
SMC22.T.CATTATCAGCCCAGCT	CC1
SMC22.T.CATTATCAGCCGGTAA	CC1
SMC22.T.CATTATCAGGAGTCTG	CC1
SMC22.T.CATTATCCAGCTCGCA	CC1
SMC22.T.CATTATCTCGACCAGC	CC1
SMC22.T.CATTGCGAGCTAACTC	CC2
SMC22.T.CATTGCCAAGTAATG	CC1
SMC22.T.CATTGCCATCAGTCA	CC1
SMC22.T.CATTGCCATGTTCCC	CC1
SMC22.T.CATTGCGTCTTGTC	CC1
SMC22.T.CATTGCGTGTGGTTT	CC1
SMC22.T.CATTGCTCAAGCCTA	CC1
SMC22.T.CATTGCTCCCGACTT	CC2
SMC22.T.CCAATCCAGGGCTTCC	CC1
SMC22.T.CCAATCCCACCATGTA	CC1
SMC22.T.CCAATCCGTTACGCGC	CC2
SMC22.T.CCAATCCGTTGGACCC	CC1
SMC22.T.CCAATCCTCCGGGTGT	CC2
SMC22.T.CCAATCCTCGGAATCT	CC1
SMC22.T.CCACCTACAACAACCT	CC1
SMC22.T.CCACGGAAGTCATGCT	CC2
SMC22.T.CCACGGAGTCAGTGGA	CC1
SMC22.T.CCACGGAGTTGCTCCT	CC2
SMC22.T.CCACGGATCGTTACAG	CC2
SMC22.T.CCACTACCAGCCACCA	CC2
SMC22.T.CCAGCGACAATTGCTG	CC1
SMC22.T.CCATGTGAGCCTATGT	CC2
SMC22.T.CCATGTCCACGGTTTA	CC2
SMC22.T.CCATGTCTTAACCGA	CC1
SMC22.T.CCATTCGAGATGTGTA	CC1
SMC22.T.CCATTCGAGCCGGTAA	CC1

SMC22.T.CCATTGAGGTGCAAC	CC1
SMC22.T.CCATTGAGTGAAGTT	CC2
SMC22.T.CCATTGACAGGAGT	CC1
SMC22.T.CCATTGAGGGTT	CC1
SMC22.T.CCCAATCGTCCTGCTT	CC1
SMC22.T.CCCAGTTCACGCGAAA	CC1
SMC22.T.CCCAGTTTCGACAGCC	CC2
SMC22.T.CCCATACAGGAATCGC	CC1
SMC22.T.CCCATACCAAGCGATG	CC2
SMC22.T.CCCATACCACTAAGTC	CC1
SMC22.T.CCCTCCTTCAACCAAC	CC1
SMC22.T.CCCTCCTTCATAACCG	CC1
SMC22.T.CCCTCCTTCCGAATGT	CC1
SMC22.T.CCCTCCTTCGTTTATC	CC1
SMC22.T.CCGGGATAGACACGAC	CC1
SMC22.T.CCGGGATAGTACTTGC	CC1
SMC22.T.CCGGGATCATACAGCT	CC1
SMC22.T.CCGGGATCATCGGGTC	CC1
SMC22.T.CCGGGATGTCAGTGGA	CC2
SMC22.T.CCGGGATGTGCAGGTA	CC2
SMC22.T.CCGGGATGTGCGCTTG	CC2
SMC22.T.CCGGGATTCCCTGACT	CC1
SMC22.T.CCGGTAGAGCCTCGTG	CC1
SMC22.T.CCGGTAGCACTAAGTC	CC1
SMC22.T.CCGGTAGCATCCGTGG	CC1
SMC22.T.CCGTACTGTCACAAGG	CC1
SMC22.T.CCGTGAAGGTAAACT	CC1
SMC22.T.CCGTGGACATGTCTCC	CC1
SMC22.T.CCGTGGAGTACTCTCC	CC2
SMC22.T.CCGTGGAGTGGTACAG	CC1
SMC22.T.CCGTTCAAGGTGTGGT	CC1
SMC22.T.CCGTTCACACCCATGG	CC1
SMC22.T.CCGTTCAGTCATCCCT	CC1
SMC22.T.CCGTTCAGTGACCAAG	CC2
SMC22.T.CCTAAAGCAGTCTTCC	CC2
SMC22.T.CCTAAAGTCCTGTACC	CC1
SMC22.T.CCTACACAGAGGACGG	CC1
SMC22.T.CCTACACAGGACTGGT	CC1
SMC22.T.CCTACACGTCTAAAGA	CC1
SMC22.T.CCTACACTCTGGGCCA	CC1
SMC22.T.CCTACCAAGACAAAGG	CC1
SMC22.T.CCTACCAAGTACTTGC	CC1
SMC22.T.CCTACCAAGTGCAAGC	CC1
SMC22.T.CCTACCACAATGGAGC	CC1
SMC22.T.CCTACCAGTCCGAGTC	CC1
SMC22.T.CCTACCAGTGAAATCA	CC1
SMC22.T.CCTACCAGTGGGTATG	CC1
SMC22.T.CCTACCATCAGAGACG	CC1
SMC22.T.CCTACCATCATCATT	CC1
SMC22.T.CCTAGCTGTTAAGAAC	CC1
SMC22.T.CCTAGCTTCATAAAGG	CC1
SMC22.T.CCTATTAAGAGCCCAA	CC1
SMC22.T.CCTATTAAGATGCCAG	CC1
SMC22.T.CCTATTACACAGTCGC	CC2
SMC22.T.CCTCAGTAGGAGTAGA	CC1
SMC22.T.CCTCAGTAGGTGATAT	CC1
SMC22.T.CCTCTGAAGTAATCCC	CC1
SMC22.T.CCTCTGACAGTGGAGT	CC1

SMC22.T.CCTCTGAGTTATCGGT	CC1
SMC22.T.CCTCTGAGTTCCACAA	CC1
SMC22.T.CCTCTGAGTTTCGCTC	CC1
SMC22.T.CCTTACGAGCTGAAAT	CC2
SMC22.T.CCTTACGTCCAACCAA	CC1
SMC22.T.CCTTCCCCAACAACT	CC2
SMC22.T.CCTTCCCCATTACGAC	CC2
SMC22.T.CCTTCCCTCCACTGGG	CC1
SMC22.T.CCTTCCCTCTCTGTCTG	CC1
SMC22.T.CCTTCTGAAGAAGGTGA	CC1
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SMC22.T.CCTTCTGCACAGTGGAGT	CC1
SMC22.T.CCTTCTGCACATGCCTAA	CC1
SMC22.T.CCTTCTGCAGTCGCTTCT	CC1
SMC22.T.CCTTCTAGACTTGAA	CC2
SMC22.T.CCTTCTAGTCTCGGC	CC1
SMC22.T.CCTTCTGTACTCAAC	CC2
SMC22.T.CCTTCTGTCAGAATA	CC1
SMC22.T.CGAACATTCGCGTAGC	CC1
SMC22.T.CGAATGTGTGCAGACA	CC1
SMC22.T.CGACCTTCAGCTGCTG	CC1
SMC22.T.CGACCTTTCTGAAAGA	CC2
SMC22.T.CGACTTCAGAAGCCCA	CC2
SMC22.T.CGACTTCCATTCTTAC	CC1
SMC22.T.CGACTTCTCGGCTTGG	CC2
SMC22.T.CGAGAAGCATAAGACA	CC1
SMC22.T.CGAGAAGGTGAGGGAG	CC1
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SMC22.T.CGAGCACAGTCCGGTC	CC1
SMC22.T.CGAGCACCAACGCC	CC2
SMC22.T.CGAGCACCATATGAGA	CC2
SMC22.T.CGAGCACGTGGTACAG	CC1
SMC22.T.CGAGCCAAGCTAACTC	CC2
SMC22.T.CGAGCCAGTTCGCGAC	CC1
SMC22.T.CGAGCCAGTTGGTAAA	CC2
SMC22.T.CGAGCCATCCACGACG	CC1
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SMC22.T.CGATCGGCAGATCGGA	CC1
SMC22.T.CGATCGGCATGGTCTA	CC2
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SMC22.T.CGATGGCCAGCCAGAA	CC1
SMC22.T.CGATGGCGTAATTGGA	CC2
SMC22.T.CGATGGCGTTGAGGTG	CC1
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SMC22.T.CGATGTACAAATCCGT	CC1
SMC22.T.CGATGTACAAGTCTGT	CC1
SMC22.T.CGATGTACATCACAAC	CC1
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SMC22.T.CGATGTATCTATCCCG	CC2
SMC22.T.CGATGTATCTTTCCTC	CC1
SMC22.T.CGATTGAAGTTGCAGG	CC1
SMC22.T.CGATTGAGTCTAGCGC	CC1

SMC22.T.CGCCAAGAGAGATGAG	CC1
SMC22.T.CGCCAAGAGTGTGAAT	CC2
SMC22.T.CGCCAAGGTCCTAGCG	CC2
SMC22.T.CGCGGTAAGAACTCGG	CC1
SMC22.T.CGCGGTACACAGGTTT	CC2
SMC22.T.CGCGTTTAGCATCATC	CC2
SMC22.T.CGCTATCAGAGCCTAG	CC1
SMC22.T.CGCTATCTCAAACAAG	CC1
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SMC22.T.CGCTGGACATGTTCCC	CC2
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SMC22.T.CGCTGGAGTTCCAACA	CC1
SMC22.T.CGCTGGATCAGGCCCA	CC1
SMC22.T.CGCTGGATCCCAACGG	CC1
SMC22.T.CGGACACAGTGCCTGA	CC1
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SMC22.T.CGGACACCACATGGGA	CC1
SMC22.T.CGGACACGTATTCGTG	CC2
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SMC22.T.CGGACGTAGGCCGAAT	CC1
SMC22.T.CGGACGTAGTGCTGCC	CC1
SMC22.T.CGGACGTTCGGCGCTA	CC1
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SMC22.T.CGGACTGAGCGAAGGG	CC1
SMC22.T.CGGACTGGTGGAAAGA	CC2
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SMC22.T.CGGGTACAGGGCATA	CC1
SMC22.T.CGGGTACATCCTAGA	CC1
SMC22.T.CGGGTCAAGTGCCTGGT	CC1
SMC22.T.CGGGTCAATCCGTCAA	CC1
SMC22.T.CGGTTAAAGCACGCCT	CC2
SMC22.T.CGGTTAAAGTGTACTC	CC1
SMC22.T.CGGTTAAGTTATCCGA	CC1
SMC22.T.CGTAGCGAGAGGTTGC	CC2
SMC22.T.CGTAGCGAGATGTGTA	CC1
SMC22.T.CGTAGCGAGCTTATCG	CC1
SMC22.T.CGTAGCGAGTGGTAGC	CC1
SMC22.T.CGTAGCGGTTAAGGGC	CC1
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SMC22.T.CGTAGGCTCGGTGTCG	CC1
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SMC22.T.CGTCAGGTCAGGATCT	CC1
SMC22.T.CGTCCATCAAGAGGCT	CC2
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SMC22.T.CGTCCATCATAGAAAC	CC1
SMC22.T.CGTCCATGTCTTCGTC	CC1
SMC22.T.CGTCCATTCTGCAGTA	CC1
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SMC22.T.CGTCTACCAGACAGGT	CC1
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SMC22.T.CGTCTACGTCCGACGT	CC2
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SMC22.T.CGTGTCTGTCCAGTGC	CC2
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SMC22.T.CTAAGACTCCCTGACT	CC2
SMC22.T.CTAAGACTCGATGAGG	CC1
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SMC22.T.CTAATGGCACTGCCAG	CC2

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SMC22.T.CTAATGGGTAAAGGAG	CC1
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SMC22.T.CTACACCAGGCTCATT	CC1
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SMC22.T.CTCACACGTCTGCGGT	CC1
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SMC22.T.CTCCTAGCAGCGATCC	CC2
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SMC22.T.CTCGAAAAGTCCAGGA	CC2
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SMC22.T.CTCGAAAGTGTAACGG	CC1
SMC22.T.CTCGAAAGTTCCACAA	CC2
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SMC22.T.CTCTAATAGGCGTACA	CC1
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SMC22.T.CTCTAATCAGCGTAAG	CC1
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SMC22.T.CTCTGGTTCGTCTAT	CC2
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SMC22.T.CTGCGGAGTACAGTTC	CC1

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SMC22.T.CTGCTGTTCTGCGGCA	CC1
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SMC22.T.CTGTGCTAGTTGAGTA	CC2
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SMC22.T.CTGTTTACAGGTGGAT	CC1
SMC22.T.CTGTTTAGTCTGCGGT	CC2
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SMC22.T.CTTAACTTCACATACG	CC2
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SMC22.T.CTTTGCGCATGTTGAC	CC2
SMC22.T.CTTTGCGGTAGCGCTC	CC1
SMC22.T.CTTTGCGTCAAAGACA	CC2
SMC22.T.GAAACTCAGACGACGT	CC1
SMC22.T.GAAACTCAGCTGAAAT	CC2
SMC22.T.GAAACTCCACCAGCAC	CC1
SMC22.T.GAAACTCTCCACTGGG	CC1
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SMC22.T.GAAATGAAGCTGATAA	CC1
SMC22.T.GAAATGACAATAACGA	CC2
SMC22.T.GAAATGACACGGTGTC	CC1
SMC22.T.GAAATGATCTTCTGGC	CC1
SMC22.T.GAACATCAGCCCAACC	CC1
SMC22.T.GAACCTAAGCGACGTA	CC1
SMC22.T.GAACCTAAGCTCCTTC	CC1
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SMC22.T.GAACCTATCCCATTTA	CC2
SMC22.T.GAACCTATCCTTGGTC	CC1
SMC22.T.GAACGGACATATGCTG	CC1
SMC22.T.GAAGCAGAGCACAGGT	CC1
SMC22.T.GAAGCAGCACATAACC	CC2

SMC22.T.GAAGCAGTCTGGCGAC	CC1
SMC22.T.GAATAAGAGAGTACCG	CC1
SMC22.T.GAATAAGGTAGCGATG	CC2
SMC22.T.GAATAAGGTCGTCTTC	CC2
SMC22.T.GAATAAGTCTGTCCGT	CC1
SMC22.T.GAATGAAAGATATGCA	CC1
SMC22.T.GAATGAAAGCATCATC	CC1
SMC22.T.GAATGAAAGGTGCACA	CC1
SMC22.T.GAATGAATCCGATATG	CC1
SMC22.T.GACACGCAGGTCATCT	CC1
SMC22.T.GACACGCCAAGCTGTT	CC1
SMC22.T.GACACGCGTAAGTTCC	CC1
SMC22.T.GACACGCGTCATGCCG	CC1
SMC22.T.GACACGCGTTCCAACA	CC1
SMC22.T.GACAGAGCATGCAACT	CC2
SMC22.T.GACAGAGCATGTCTCC	CC1
SMC22.T.GACCAATGTCTAGGTT	CC1
SMC22.T.GACCTGGAGGCTAGGT	CC1
SMC22.T.GACCTGGAGTCGAGTG	CC1
SMC22.T.GACCTGGGTGTAACGG	CC1
SMC22.T.GACGCGTAGAAGAAGC	CC2
SMC22.T.GACGCGTAGCGCCTCA	CC2
SMC22.T.GACGCGTAGCTAAGAT	CC1
SMC22.T.GACGCGTCACAGATTC	CC1
SMC22.T.GACGCGTGTGCGACTGC	CC1
SMC22.T.GACGCGTTCAGGATCT	CC2
SMC22.T.GACGCGTTCTCCCTGA	CC1
SMC22.T.GACGCGTTCTCGAGTA	CC1
SMC22.T.GACGCGTTCTGATTCT	CC1
SMC22.T.GACGGCTAGATAGCAT	CC1
SMC22.T.GACGGCTCACCATCCT	CC1
SMC22.T.GACGGCTGTGCAATCT	CC2
SMC22.T.GACGGCTTCGGCGCTA	CC1
SMC22.T.GACGGCTTCTACTATC	CC1
SMC22.T.GACGTGCAGCCGATTT	CC2
SMC22.T.GACGTGCGTACATGTC	CC1
SMC22.T.GACGTGCTCCTGCCAT	CC1
SMC22.T.GACGTTACAAAGGCGT	CC1
SMC22.T.GACGTTACAGCGAACA	CC2
SMC22.T.GACGTTATCAGCATGT	CC1
SMC22.T.GACTAACCAATTGCTG	CC2
SMC22.T.GACTAACCACAGATTC	CC1
SMC22.T.GACTACACATGGGACA	CC1
SMC22.T.GACTACAGTCAGCTAT	CC1
SMC22.T.GACTACATCCAACCAA	CC2
SMC22.T.GACTGCGCAGACGTAG	CC1
SMC22.T.GACTGCGGTATCAGTC	CC1
SMC22.T.GACTGCGTCAGGCGAA	CC1
SMC22.T.GAGCAGAAGGGATAACC	CC2
SMC22.T.GAGCAGAAGTGTGAAT	CC1
SMC22.T.GAGCAGACACGTCAGC	CC1
SMC22.T.GAGCAGACAGGTTTCA	CC1
SMC22.T.GAGCAGATCACAACGT	CC1
SMC22.T.GAGCAGATCACCTTAT	CC1
SMC22.T.GAGCAGATCGACGGAA	CC1
SMC22.T.GAGCAGATCGTAGGAG	CC1
SMC22.T.GAGGTGAAGATAGCAT	CC1
SMC22.T.GAGGTGAGTTCGGCAC	CC2

SMC22.T.GAGTCCGAGAGCCCAA	CC1
SMC22.T.GAGTCCGGTGCTCTTC	CC1
SMC22.T.GAGTCCGGTTTAGGAA	CC2
SMC22.T.GAGTCCGTCTTACCGC	CC2
SMC22.T.GATCAGTCACGCGAAA	CC1
SMC22.T.GATCAGTGTAGCGTCC	CC1
SMC22.T.GATCGATAGGCACATG	CC1
SMC22.T.GATCGATAGGCTATCT	CC1
SMC22.T.GATCGATAGGGATGGG	CC1
SMC22.T.GATCGATAGTGGTAAT	CC1
SMC22.T.GATCGATCAACGATCT	CC2
SMC22.T.GATCGATCAAGCCCAC	CC1
SMC22.T.GATCGATTCCGTTGTC	CC1
SMC22.T.GATCGCGAGCAGCGTA	CC1
SMC22.T.GATCGCGCAGCAGTTT	CC1
SMC22.T.GATCGTAGTCGCGTGT	CC2
SMC22.T.GATCTAGAGATATGGT	CC1
SMC22.T.GATCTAGGTCTTCGTC	CC1
SMC22.T.GATCTAGTCGTGACAT	CC2
SMC22.T.GATGAAAAGGATGCGT	CC2
SMC22.T.GATGAAATCAGCCTAA	CC1
SMC22.T.GATGAGGAGATGCCAG	CC1
SMC22.T.GATGAGGAGCGCCTCA	CC1
SMC22.T.GATGAGGAGGGTGTGT	CC1
SMC22.T.GATGAGGCAAGGCTCC	CC1
SMC22.T.GATGAGGCATACTCTT	CC1
SMC22.T.GATGCTACAACTGCGC	CC1
SMC22.T.GATGCTAGTCACACGC	CC1
SMC22.T.GATTCAGAGCGCCTTG	CC1
SMC22.T.GATTCAGCATGGGACA	CC1
SMC22.T.GATTCAGGTACAGTGG	CC1
SMC22.T.GATTCAGGTTAGTGGG	CC1
SMC22.T.GATTCAGTCCCAAGTA	CC1
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SMC22.T.GCAAACCTCATACGCCG	CC2
SMC22.T.GCAAACCTCAGCTCGG	CC1
SMC22.T.GCAATCACAAATGGATA	CC1
SMC22.T.GCAATCACACCGTTGG	CC2
SMC22.T.GCACATAAGTGGTAGC	CC1
SMC22.T.GCACATAAGTTCCACA	CC2
SMC22.T.GCACATAGTCGATTGT	CC1
SMC22.T.GCACATAGTTGTTTGG	CC1
SMC22.T.GCACTCTAGCCCAACC	CC1
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SMC22.T.GCAGCCAGTACCGCTG	CC1
SMC22.T.GCAGCCAGTCCAGTAT	CC2
SMC22.T.GCAGCCAGTGGTAACG	CC1
SMC22.T.GCAGCCATCACACCT	CC1
SMC22.T.GCAGCCATCTACTATC	CC1
SMC22.T.GCAGTTAAGCAGGCTA	CC1
SMC22.T.GCAGTTAGTTCGTGAT	CC1
SMC22.T.GCATAACAAGTGTCCCG	CC2
SMC22.T.GCATAACAACGATGG	CC1
SMC22.T.GCATAAGTACTTAGC	CC2
SMC22.T.GCATAAGTCTAGTGT	CC1

SMC22.T.GCATACAGTTCTGGTA	CC1
SMC22.T.GCATACATCCTCAATT	CC1
SMC22.T.GCATACATCCTGCCAT	CC1
SMC22.T.GCATGATAGCTCCTTC	CC1
SMC22.T.GCATGATAGGCCCTCA	CC1
SMC22.T.GCATGATGTGACAAAT	CC1
SMC22.T.GCATGATTCAGCGACC	CC1
SMC22.T.GCATGATTCCTTCAAT	CC1
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SMC22.T.GCATGCGAGTAAGTAC	CC1
SMC22.T.GCATGCGCATGTTCCC	CC1
SMC22.T.GCATGCGGTACCGTTA	CC1
SMC22.T.GCATGCGTCACGCATA	CC2
SMC22.T.GCATGTAAGGCCCTCA	CC1
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SMC22.T.GCATGTATCGTTTGCC	CC1
SMC22.T.GCATGTATCTCAAACG	CC1
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SMC22.T.GCCAAATCATACTCTT	CC1
SMC22.T.GCCAAATTCGTCATC	CC2
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SMC22.T.GCCTCTATCGTGGACC	CC2
SMC22.T.GCGACCACATATGGTC	CC1
SMC22.T.GCGACCAGTTGCCTCT	CC2
SMC22.T.GCGACCATCAACCAAC	CC2
SMC22.T.GCGAGAAAGGACAGCT	CC2
SMC22.T.GCGAGAAAGTCCCACG	CC1
SMC22.T.GCGAGAACATCACGTA	CC1
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SMC22.T.GCGCAACCAAAGTGCG	CC1
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SMC22.T.GCGCGATGTGTTGAGG	CC2
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SMC22.T.GCGGGTTAGAATGTGT	CC1
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SMC22.T.GCGGGTTTCAGCGACC	CC2
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SMC22.T.GCTCTGTAGTGTCCAT	CC1
SMC22.T.GCTCTGTCACAGCGTC	CC1
SMC22.T.GCTCTGTGTATCTGCA	CC2
SMC22.T.GCTCTGTGTGTGCGTC	CC2
SMC22.T.GCTGCAGAGAGAGCTC	CC2
SMC22.T.GCTGCAGAGATCCTGT	CC1
SMC22.T.GCTGCAGAGGAGTCTG	CC2
SMC22.T.GCTGCAGCAAGGTTTC	CC2
SMC22.T.GCTGCAGCAGGACGTA	CC1

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SMC22.T.GCTGCAGGTTGGACCC	CC2
SMC22.T.GCTGCAGTCAGTCCCT	CC2
SMC22.T.GCTGCGAAGCTAGCCC	CC2
SMC22.T.GCTGCGACAATCACAC	CC2
SMC22.T.GCTGCGACAATCGGTT	CC1
SMC22.T.GCTGCGATCTGTGCAA	CC1
SMC22.T.GCTGCTTAGGAGTCTG	CC1
SMC22.T.GCTGCTTAGTACGCGA	CC1
SMC22.T.GCTGCTTCATCGTCGG	CC1
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SMC22.T.GCTGCTTGTACGCACC	CC1
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SMC22.T.GCTGGGTTCTATCCTA	CC2
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SMC22.T.GCTTGAATCCGCGTTT	CC2
SMC22.T.GCTTGAATCTCGTATT	CC2
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SMC22.T.GGAAAGCCATGTCTCC	CC1
SMC22.T.GGAAAGCTCAGTTTGG	CC2
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SMC22.T.GGAACTTCATCCGGGT	CC1
SMC22.T.GGAACTTGTACCGTAT	CC1
SMC22.T.GGAACTTCAACACCA	CC2
SMC22.T.GGAATAAGTCTGGAGA	CC1
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SMC22.T.GGACAAGCATTCTCTCG	CC1
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SMC22.T.GGACGTCTTACGCGC	CC1
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SMC22.T.GGACGTCTCCAAAGTC	CC1

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SMC22.T.GGAGCAAAGTACGTTC	CC2
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SMC22.T.GGAGCAACACTGCCAG	CC1
SMC22.T.GGAGCAACATCCAACA	CC2
SMC22.T.GGAGCAAGTAGCGATG	CC1
SMC22.T.GGAGCAAGTCAGCTAT	CC1
SMC22.T.GGAGCAAGTGTTGAT	CC1
SMC22.T.GGAGCAAGTTCAGACT	CC1
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SMC22.T.GGATGTTAGTTTGCCT	CC1
SMC22.T.GGATGTTCAAGAAGAG	CC2
SMC22.T.GGATGTTGTACAGACG	CC2
SMC22.T.GGATGTTGTATATCCG	CC1
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SMC22.T.GGATTACAGATGAGAG	CC2
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SMC22.T.GGCGACTGTTAGATGA	CC2
SMC22.T.GGCGACTTCCTGCAGG	CC1
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SMC22.T.GTAACTGGTTGTGGAG	CC2
SMC22.T.GTAACTGTCAACCATG	CC2
SMC22.T.GTAACTGTCATGGTCA	CC1
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SMC22.T.GTACGTATCGCGTAGC	CC1
SMC22.T.GTACGTATCGTAGGAG	CC1
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SMC22.T.GTACTCCAGGAATGGA	CC2
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SMC22.T.GTAGTCAGTGCGCTTG	CC1

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SMC22.T.GTATTCTAGAACAATC	CC1
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SMC22.T.GTCACAAAGGCATTGG	CC1
SMC22.T.GTCACAACAGCTATTG	CC2
SMC22.T.GTCACAACATGGTCTA	CC1
SMC22.T.GTCACAAGTACACCGC	CC2
SMC22.T.GTCACAATCAGCTTAG	CC2
SMC22.T.GTCACGGTTCGCGTGT	CC2
SMC22.T.GTCACGGTCCATGCTC	CC1
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SMC22.T.GTCATTTTCTGGTGTA	CC2
SMC22.T.GTCCTCAAGGATTCGG	CC1
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SMC22.T.GTCCTCATCTAACTGG	CC1
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SMC22.T.GTCGGGTCAATCACTT	CC2
SMC22.T.GTCGGGTGTGCAACTT	CC1
SMC22.T.GTCGGGTTCGAGAGCA	CC1
SMC22.T.GTCGTAAGTGTTGGGA	CC1
SMC22.T.GTCGTAAGTTGAGTTC	CC2
SMC22.T.GTCGTAATCACGAAGG	CC1
SMC22.T.GTCGTAATCATAACCG	CC1
SMC22.T.GTCGTAATCATGCAAC	CC1
SMC22.T.GTCGTAATCCTAGTGA	CC1
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SMC22.T.GTGCAGCCATGCAACT	CC1

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SMC22.T.GTGCAGCGTCGCGGTT	CC1
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SMC22.T.GTGCGGTAGTCGATAA	CC1
SMC22.T.GTGCGGTAGTGAACGC	CC1
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SMC22.T.GTGCTTCTCCTGTAGA	CC1
SMC22.T.GTGCTTCTCGCGGATC	CC2
SMC22.T.GTGCTTCTCGGCCGAT	CC2
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SMC22.T.GTGGGTCAGACTAAGT	CC2
SMC22.T.GTGGGTCAGCATCATC	CC2
SMC22.T.GTGGGTCGTAGCCTAT	CC2
SMC22.T.GTGGGTCTCCTAGAAC	CC2
SMC22.T.GTGTGCGCACATGTGT	CC1
SMC22.T.GTGTGCGCAGCATGAG	CC1
SMC22.T.GTGTGCGTCAAACGGG	CC1
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SMC22.T.GTGTTAGAGTTAACGA	CC1
SMC22.T.GTGTTAGCAATGAATG	CC1
SMC22.T.GTGTTAGCAGTGGGAT	CC1
SMC22.T.GTGTTAGCAGTTCCT	CC1
SMC22.T.GTGTTAGGTTGGAGGT	CC2
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SMC22.T.GTGTTAGTCGAGAACG	CC2
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SMC22.T.GTTAAGCTCCCTAACC	CC1
SMC22.T.GTTAAGCTCCTCAACC	CC1
SMC22.T.GTTACAGGTCATCGGC	CC2
SMC22.T.GTTACAGGTGTGACGA	CC2
SMC22.T.GTTCATTAGCTGTCTA	CC2
SMC22.T.GTTCATTAGTACTTGC	CC1
SMC22.T.GTTCATTAGTTGTAGA	CC2
SMC22.T.GTTCATTCAAGCGAGT	CC1
SMC22.T.GTTCATTATCCTTGC	CC1
SMC22.T.GTTCATTGTCTCTCGT	CC2
SMC22.T.GTTCATTGTTAGGGTG	CC2
SMC22.T.GTTCATTTATGGTCA	CC1
SMC22.T.GTTCGGGTCTTGCGG	CC1
SMC22.T.GTTCGGGTGCGGATCG	CC1
SMC22.T.GTTCTCGGTCTTCTCG	CC1
SMC22.T.GTTCTCGGTTTGACAC	CC1
SMC22.T.GTTCTCGTCCATTCTA	CC1
SMC22.T.GTTTCTAAGATGTCGG	CC2
SMC22.T.GTTTCTACATGCATGT	CC1

SMC22.T.GTTTCTAGTCAGATAA	CC1
SMC22.T.GTTTCTAGTCTAGCGC	CC1
SMC22.T.GTTTCTAGTCTTGATG	CC1
SMC22.T.GTTTCTAGTGTCGCTG	CC2
SMC22.T.GTTTCTATCCAAAGTC	CC1
SMC22.T.GTTTCTATCCCAGGTG	CC1
SMC22.T.GTTTCTATCTGTCCGT	CC1
SMC22.T.TAAGAGAAGTGAAGAG	CC1
SMC22.T.TAAGAGATCGCCCTTA	CC1
SMC22.T.TAAGCGTAGAAACCAT	CC1
SMC22.T.TAAGCGTAGATCCGAG	CC1
SMC22.T.TAAGCGTCAGTTCATG	CC1
SMC22.T.TAAGCGGTGCATGCCG	CC2
SMC22.T.TAAGTGCAGCGATGAC	CC1
SMC22.T.TAAGTGCCACTAAGTC	CC1
SMC22.T.TAAGTGCGTACAGTGG	CC1
SMC22.T.TAAGTGCGTGTGAATA	CC1
SMC22.T.TAAGTGCTCCATTCTA	CC1
SMC22.T.TACACGACAACACCTA	CC1
SMC22.T.TACACGACAGTAAGAT	CC2
SMC22.T.TACACGATCTCAACTT	CC1
SMC22.T.TACACGATCTTACCGC	CC2
SMC22.T.TACAGTGAGGATGGTC	CC1
SMC22.T.TACAGTGAGTTAAGTG	CC1
SMC22.T.TACCTATAGAATTGTG	CC1
SMC22.T.TACCTATAGCCCGAAA	CC1
SMC22.T.TACCTATAGCTAGTCT	CC1
SMC22.T.TACCTATCAGATCTGT	CC1
SMC22.T.TACCTATGTGACGCCT	CC1
SMC22.T.TACCTTAAGAGTTGGC	CC2
SMC22.T.TACCTTAAGCAGCGTA	CC1
SMC22.T.TACGGATCATGATCCA	CC2
SMC22.T.TACGGATGTTGCTAA	CC2
SMC22.T.TACGGGCAGCACACAG	CC2
SMC22.T.TACGGGCTCAAGAAGT	CC1
SMC22.T.TACGGTACACAGCCCA	CC1
SMC22.T.TACGGTAGTACCGTTA	CC1
SMC22.T.TACGGTAGTCAGATAA	CC1
SMC22.T.TACGGTAGTCTCAACA	CC1
SMC22.T.TACGGTAGTTTCGCTC	CC1
SMC22.T.TACTCATAGAGTCTGG	CC2
SMC22.T.TACTCATTGAGCCCA	CC1
SMC22.T.TACTCGCAGACTAGGC	CC1
SMC22.T.TACTCGCAGGCCCTCA	CC1
SMC22.T.TACTCGCGTGACTCAT	CC1
SMC22.T.TACTTACAGAATTGTG	CC1
SMC22.T.TACTTACAGTCCATAC	CC2
SMC22.T.TACTTACTCTGTTTGT	CC1
SMC22.T.TACTTGTAGAGTAATC	CC1
SMC22.T.TACTTGTC AACGCACC	CC1
SMC22.T.TACTTGTCACAGACTT	CC2
SMC22.T.TACTTGTCAGCCACCA	CC1
SMC22.T.TACTTGTTACGCGGT	CC1
SMC22.T.TAGACCACATACAGCT	CC1
SMC22.T.TAGACCAGTTACGTCA	CC2
SMC22.T.TAGACCATCGCGCAA	CC1
SMC22.T.TAGAGCTCAAGTTCTG	CC2
SMC22.T.TAGAGCTGTAGCTCCG	CC1

SMC22.T.TAGAGCTTCCAGGGCT	CC2
SMC22.T.TAGCCGGAGCTAAGAT	CC1
SMC22.T.TAGCCGGCAGCCACCA	CC1
SMC22.T.TAGCCGGGTCTCAACA	CC1
SMC22.T.TAGCCGGTGTCTGAT	CC1
SMC22.T.TAGCCGGTCCAGAAGG	CC1
SMC22.T.TAGGCATAGGTAGCTG	CC1
SMC22.T.TAGGCATAGTGCGTGA	CC1
SMC22.T.TAGGCATTGCGCTTGG	CC2
SMC22.T.TAGGCATTCTGCTGCT	CC1
SMC22.T.TAGTGGTAGGTAGCTG	CC1
SMC22.T.TAGTGGTGTACTCAAC	CC1
SMC22.T.TAGTGGTGTGGTTTG	CC1
SMC22.T.TAGTGGTTCAGTTGAC	CC1
SMC22.T.TAGTTGGAGGATATAC	CC1
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SMC22.T.TAGTTGGTCGAATGCT	CC1
SMC22.T.TATCAGGAGCCACGTC	CC1
SMC22.T.TATCAGGAGCTAGTTC	CC1
SMC22.T.TATCAGGAGGTAGCTG	CC2
SMC22.T.TATCAGGCAGGATTGG	CC1
SMC22.T.TATCAGGGTAAGGGCT	CC1
SMC22.T.TATCAGGTCGAGAGCA	CC1
SMC22.T.TATCTACAAGTTGTC	CC1
SMC22.T.TATCTCACAGCGATCC	CC2
SMC22.T.TATCTCATCAAAGACA	CC1
SMC22.T.TATCTCATCAACCAAC	CC2
SMC22.T.TATCTCATCCGATATG	CC1
SMC22.T.TATCTCATCCTTGGTC	CC1
SMC22.T.TATGCCCAGTTGCAGG	CC1
SMC22.T.TATGCCCTCCGCATAA	CC1
SMC22.T.TATTACCCAGCTGTTA	CC1
SMC22.T.TATTACCGTCGCGAAA	CC1
SMC22.T.TATTACCTCGGACAAG	CC1
SMC22.T.TCAACGAAGACTCGGA	CC1
SMC22.T.TCAACGACAATAGAGT	CC1
SMC22.T.TCAACGACAGCGTAAG	CC1
SMC22.T.TCAACGAGTAGCGATG	CC1
SMC22.T.TCAACGAGTCCTCTTG	CC1
SMC22.T.TCAACGATCGGTGTCG	CC1
SMC22.T.TCAATCTAGAAGAAGC	CC1
SMC22.T.TCAATCTGTCGGCACT	CC2
SMC22.T.TCAATCTGTCGTGGCT	CC1
SMC22.T.TCAATCTGTTGCGCAC	CC1
SMC22.T.TCAATCTTCCGTAGTA	CC2
SMC22.T.TCAATCTTCTGCGTAA	CC1
SMC22.T.TCACAAGAGGCTAGAC	CC1
SMC22.T.TCACAAGGTAGCGTGA	CC1
SMC22.T.TCACAAGTCACATACG	CC2
SMC22.T.TCACGAAAGGATCGCA	CC1
SMC22.T.TCACGAACAATGTAAG	CC1
SMC22.T.TCAGATGAGACAAGCC	CC2
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SMC22.T.TCAGATGGTTGCCTCT	CC1
SMC22.T.TCAGATGTCTCAAGTG	CC2
SMC22.T.TCAGCAAAGTATCTCG	CC1
SMC22.T.TCAGCAACATGTCGAT	CC1

SMC22.T.TCAGCAAGTGGGTATG	CC1
SMC22.T.TCAGCTCAGCTGTCTA	CC1
SMC22.T.TCAGCTCCACCTCGTT	CC1
SMC22.T.TCAGCTCCAGCAGTTT	CC1
SMC22.T.TCAGCTCCATACGCCG	CC1
SMC22.T.TCAGCTCGTCTTTTCAT	CC1
SMC22.T.TCAGCTCGTGCGAAAC	CC1
SMC22.T.TCAGCTCGTTAAAGAC	CC2
SMC22.T.TCAGGATAGGTAAACT	CC1
SMC22.T.TCAGGATAGTCCGTAT	CC1
SMC22.T.TCAGGATAGTCTTGCA	CC1
SMC22.T.TCAGGATCACCAGGCT	CC1
SMC22.T.TCAGGATGTTAGTGGG	CC1
SMC22.T.TCAGGATGTTTCCACC	CC1
SMC22.T.TCAGGTACAGGATTGG	CC1
SMC22.T.TCAGGTACAGTTTACG	CC1
SMC22.T.TCAGGTAGTTCCGTCT	CC2
SMC22.T.TCAGGTATCGGATGGA	CC2
SMC22.T.TCATTACAGAGAGCTC	CC2
SMC22.T.TCATTACCAAATACAG	CC1
SMC22.T.TCATTACTCGATGAGG	CC1
SMC22.T.TCATTGAGGGCTTGA	CC2
SMC22.T.TCATTGCAAGCTGAG	CC2
SMC22.T.TCATTGCTCCTGCTT	CC1
SMC22.T.TCATTGTTGTTCTTT	CC1
SMC22.T.TCATTGTCAGAGGTG	CC2
SMC22.T.TCCACACAGAAGATTC	CC1
SMC22.T.TCCACACAGCACCGTC	CC1
SMC22.T.TCCACACAGTGCGATG	CC1
SMC22.T.TCCACACCAAAGCGGT	CC1
SMC22.T.TCCACACGTATAGGTA	CC2
SMC22.T.TCCCGATAGATATGCA	CC1
SMC22.T.TCCCGATAGCAAATCA	CC2
SMC22.T.TCCCGATCAAGGTTTC	CC1
SMC22.T.TCCCGATGTATCGCAT	CC1
SMC22.T.TCCCGATGTATGAATG	CC1
SMC22.T.TCCCGATGTCTCACCT	CC1
SMC22.T.TCCCGATGTGCACGAA	CC1
SMC22.T.TCCCGATGTGGCAAAC	CC1
SMC22.T.TCCCGATTACCACCT	CC1
SMC22.T.TCCCGATTCCAGTAGT	CC1
SMC22.T.TCCCGATTCTGCAAGT	CC1
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SMC22.T.TCGAGGCTCAGCAACT	CC2
SMC22.T.TCGCGAGAGAAGGCCT	CC1
SMC22.T.TCGCGAGAGTCCACG	CC2
SMC22.T.TCGCGAGCAATAGCGG	CC1
SMC22.T.TCGCGAGCATAGACTC	CC2
SMC22.T.TCGCGAGTCATCATT	CC1
SMC22.T.TCGCGAGTCCGTACAA	CC1
SMC22.T.TCGCGTTAGGAACTGC	CC1
SMC22.T.TCGCGTTGTTTGAATC	CC1
SMC22.T.TCGCGTTTCCCAAGAT	CC1
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SMC22.T.TCGGGACAGACTCGGA	CC1
SMC22.T.TCGGGACAGCAGACTG	CC1

SMC22.T.TCGGGACAGCCGTCGT	CC1
SMC22.T.TCGGGACTCAGGCCCA	CC1
SMC22.T.TCGGGACTCCAGAGGA	CC1
SMC22.T.TCGGTAAGTGGGCTA	CC1
SMC22.T.TCGGTAAGTTGCGCG	CC1
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SMC22.T.TCGTACCCACTAAGTC	CC1
SMC22.T.TCGTACCCAGGCAGTA	CC1
SMC22.T.TCGTACCTCCTCAACC	CC1
SMC22.T.TCGTAGAAGCCATCGC	CC2
SMC22.T.TCGTAGACAGGTTTCA	CC2
SMC22.T.TCGTAGACATGGATGG	CC1
SMC22.T.TCGTAGATCAGAGCTT	CC2
SMC22.T.TCTATTGAGTACTTGC	CC1
SMC22.T.TCTATTGGTCACTGGC	CC2
SMC22.T.TCTATTGGTCATGCCG	CC1
SMC22.T.TCTATTGTGCGCATCG	CC1
SMC22.T.TCTATTGTCTCATTCA	CC1
SMC22.T.TCTCATAGTAGAGTGC	CC1
SMC22.T.TCTCATATCATCACCC	CC1
SMC22.T.TCTCTAAAGACGCTTT	CC2
SMC22.T.TCTCTAAAGACTTGAA	CC2
SMC22.T.TCTCTAAAGCTAGCCC	CC1
SMC22.T.TCTCTAACATGTAGTC	CC1
SMC22.T.TCTCTAAGTCCGAACC	CC1
SMC22.T.TCTCTAATCCAGAAGG	CC2
SMC22.T.TCTCTAATCTCGCATC	CC1
SMC22.T.TCTCTAATCTGTCAAG	CC1
SMC22.T.TCTGAGAAGCTAGTTC	CC1
SMC22.T.TCTGAGAAGTCATCCA	CC1
SMC22.T.TCTGAGAGTATTACCG	CC1
SMC22.T.TCTGAGATCACAGGCC	CC1
SMC22.T.TCTGAGATCACCATAG	CC1
SMC22.T.TCTGAGATCTTTCCTC	CC1
SMC22.T.TCTGGAACAACACCTA	CC1
SMC22.T.TCTGGAACAGTATCTG	CC2
SMC22.T.TCTGGAAGTTTGTTC	CC1
SMC22.T.TCTGGAATCGGTGTTA	CC1
SMC22.T.TCTTCGGTCCGTCAA	CC2
SMC22.T.TCTTCCAGCTTTGGT	CC1
SMC22.T.TCTTCCCATATACGC	CC1
SMC22.T.TCTTCCCATCCGCGA	CC1
SMC22.T.TCTTCCGTAAAGTCA	CC1
SMC22.T.TGAAAGAAGCGCCTTG	CC1
SMC22.T.TGAAAGAAGGATGTAT	CC1
SMC22.T.TGAAAGAGTGAGTATA	CC1
SMC22.T.TGAAAGAGTGGACGAT	CC1
SMC22.T.TGAAAGATCACCGGGT	CC1
SMC22.T.TGACAACGTCTAAACC	CC1
SMC22.T.TGACAACCTCGCCAAAT	CC1
SMC22.T.TGACAACCTCGTGACAT	CC1
SMC22.T.TGACAACCTCCAGGG	CC1
SMC22.T.TGACGGCAGCCCAGCT	CC1
SMC22.T.TGACGGCCAAGCCGCT	CC2
SMC22.T.TGACGGCCAGCGTAAG	CC2
SMC22.T.TGACGGCGTATATGAG	CC2
SMC22.T.TGACGGCGTCGCGTGT	CC2

SMC22.T.TGACGGCTCCACGTGG	CC1
SMC22.T.TGACGGCTCTATCCCG	CC1
SMC22.T.TGACTAGAGAAGAAGC	CC1
SMC22.T.TGACTAGCACATGGGA	CC1
SMC22.T.TGACTAGGTACATCCA	CC2
SMC22.T.TGACTAGGTAGCACGA	CC1
SMC22.T.TGACTAGGTTTCATGGT	CC2
SMC22.T.TGACTAGGTTTCGCGAC	CC1
SMC22.T.TGACTTTCAAAGGTGC	CC1
SMC22.T.TGACTTTCACTTAAGC	CC1
SMC22.T.TGACTTTGTCCGCTGA	CC1
SMC22.T.TGACTTTTCATCGATG	CC2
SMC22.T.TGAGAGGAGCCGGTAA	CC1
SMC22.T.TGAGAGGAGGAATCGC	CC2
SMC22.T.TGAGAGGAGTACGCGA	CC1
SMC22.T.TGAGAGGCATCGGACC	CC2
SMC22.T.TGAGAGGGTCTAGAGG	CC2
SMC22.T.TGAGAGGTCACAGTAC	CC1
SMC22.T.TGAGCATAGTGTGAAT	CC1
SMC22.T.TGAGCATGTATTCTCT	CC1
SMC22.T.TGAGCATGTTTCAGACT	CC1
SMC22.T.TGAGCCGCATCTGGTA	CC2
SMC22.T.TGAGCCGCATTCTCAT	CC1
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SMC22.T.TGAGGGAGTCGTGGCT	CC1
SMC22.T.TGAGGGATCCAAATGC	CC2
SMC22.T.TGAGGGATCCCTTGTG	CC1
SMC22.T.TGAGGGATCTGGTATG	CC1
SMC22.T.TGATTTTCAGCCACTAT	CC2
SMC22.T.TGATTTTCAGCGTCTAT	CC2
SMC22.T.TGATTTTCACGAAAGC	CC1
SMC22.T.TGATTTCTCACCGGGT	CC1
SMC22.T.TGATTTCTCCGTAGGC	CC2
SMC22.T.TGCACCTAGATAGGAG	CC1
SMC22.T.TGCACCTAGGACACCA	CC1
SMC22.T.TGCACCTAGTGAACGC	CC1
SMC22.T.TGCACCTCAATCCAAC	CC1
SMC22.T.TGCACCTCACCAGCAC	CC1
SMC22.T.TGCACCTGTCTGATTG	CC1
SMC22.T.TGCACCTTCACCTTAT	CC2
SMC22.T.TGCACCTTCTGATACG	CC1
SMC22.T.TGCCAAACATTCCTGC	CC1
SMC22.T.TGCCAAAGTCCCTTGT	CC1
SMC22.T.TGCCAAAGTTAAGTAG	CC1
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SMC22.T.TGCCAAATCGTTGACA	CC1
SMC22.T.TGCCCATCAACACCTA	CC2
SMC22.T.TGCCCATCACAAGACG	CC1
SMC22.T.TGCCCATCATACTCTT	CC1
SMC22.T.TGCCCATGTAACGTTT	CC2

SMC22.T.TGCCCATGTGCCTGTG	CC1
SMC22.T.TGCCCATGTTATGCGT	CC1
SMC22.T.TGCCCATTCCTCATTA	CC1
SMC22.T.TGCCCTAAGCAAATCA	CC1
SMC22.T.TGCCCTAAGCGGATCA	CC1
SMC22.T.TGCCCTACATGTGCGAT	CC1
SMC22.T.TGCGCAGAGCCGTCGT	CC2
SMC22.T.TGCGCAGAGCTAAGAT	CC2
SMC22.T.TGCGCAGGTACGCACC	CC2
SMC22.T.TGCGGGTAGTACATGA	CC1
SMC22.T.TGCGGGTGTATCACCA	CC1
SMC22.T.TGCGTGGCAACGATCT	CC1
SMC22.T.TGCGTGGCACTCGACG	CC1
SMC22.T.TGCGTGGGTTCAACCA	CC1
SMC22.T.TGCGTGGTCAGGTTCA	CC2
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SMC22.T.TGCTGCTGTAAGAGGA	CC1
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SMC22.T.TGGACGCTCTGGAGCC	CC1
SMC22.T.TGGCCAGCAGACAAAT	CC2
SMC22.T.TGGCCAGCAGACACTT	CC1
SMC22.T.TGGCCAGCATTGTGCA	CC1
SMC22.T.TGGCCAGGTAGTAGTA	CC1
SMC22.T.TGGCGCACACACGCTG	CC2
SMC22.T.TGGCGCATCGCACTCT	CC1
SMC22.T.TGGCTGGAGTTCGATC	CC2
SMC22.T.TGGCTGGGTCTCACCT	CC2
SMC22.T.TGGGCGTCATTGCGGC	CC1
SMC22.T.TGGTTAGAGTGCGTGA	CC1
SMC22.T.TGGTTAGTCAGTTTGG	CC1
SMC22.T.TGGTTCCAGTTAGGTA	CC1
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SMC22.T.TGTATTCTCGCAAGCC	CC2
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SMC22.T.TGTCCCACAGTCGTGC	CC1
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SMC22.T.TGTCCCAGTTAAGAAC	CC1
SMC22.T.TGTGGTAGTGATGTCT	CC2
SMC22.T.TGTGGTATCTCACATT	CC1
SMC22.T.TGTGTTTTCCACGTGG	CC2
SMC22.T.TGTTCCGTCCTTAATC	CC1
SMC22.T.TGTTCCGTCGCTAGCG	CC1

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SMC22.T.TTAACTCCATGTCTCC	CC1
SMC22.T.TTAACTCGTTGAGTTC	CC1
SMC22.T.TTAGGACAGTGAATTG	CC1
SMC22.T.TTAGGACTCAGCGACC	CC2
SMC22.T.TTAGGACTCCTGTACC	CC1
SMC22.T.TTAGGCAAGCAGATCG	CC1
SMC22.T.TTAGGCAGTGATGTGG	CC1
SMC22.T.TTAGGCAGTGCAGTAG	CC1
SMC22.T.TTAGGCATCTGTCAAG	CC1
SMC22.T.TTAGTTCAGCCTTGAT	CC1
SMC22.T.TTAGTTCATTCTTAC	CC1
SMC22.T.TTAGTTCATTTGGG	CC1
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SMC22.T.TTAGTTCCTCCTCAGT	CC1
SMC22.T.TTAGTTCCTCGTTGACA	CC2
SMC22.T.TTATGCTAGAGACTTA	CC2
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SMC22.T.TTCCCAGGTCGCGTGT	CC1
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SMC22.T.TTCGAAGGTCCAACA	CC2
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SMC22.T.TTCTACAAGGGTGTGT	CC1
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SMC22.T.TTCTCCTGTCAAGCGA	CC1
SMC22.T.TTCTCCTTCTGTGCAA	CC2
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SMC22.T.TTCTTAGAGACCTTTG	CC1
SMC22.T.TTCTTAGCAATAAGCA	CC2
SMC22.T.TTCTTAGGTAAACACA	CC1
SMC22.T.TTCTTAGTCTTTACAC	CC1
SMC22.T.TTGAACGCATCAGTCA	CC1
SMC22.T.TTGAACGGTCATTAGC	CC2
SMC22.T.TTGAACGTCCCAAGAT	CC1
SMC22.T.TTGAACGTGGAATGGG	CC2
SMC22.T.TTGAACGTCTTGTTTG	CC1
SMC22.T.TTGACTTAGCTAGGCA	CC2
SMC22.T.TTGACTTAGGACCACA	CC1
SMC22.T.TTGCCGTCACCAGTTA	CC2
SMC22.T.TTGCCGTCATAACCTG	CC2
SMC22.T.TTGCGTCAGGCTCAGA	CC2
SMC22.T.TTGCGTCCATGTTCCC	CC1
SMC22.T.TTGGAACCAAACGCGA	CC2
SMC22.T.TTGGAACCAAGTCACTA	CC2
SMC22.T.TTGGCAAAGACATAAC	CC1
SMC22.T.TTGGCAAAGCTTTGGT	CC2
SMC22.T.TTGGCAAAGGTCCGAT	CC1

SMC22.T.TTGGCAAGTGTGGTTT	CC1
SMC22.T.TTGGCAAGTTTAGCTG	CC1
SMC22.T.TTGGCAATCAGCACAT	CC1
SMC22.T.TTGGCAATCTAGCACA	CC2
SMC22.T.TTGTAGGAGCTGTCTA	CC1
SMC22.T.TTGTAGGGTTACTGAC	CC1
SMC22.T.TTGTAGGTCGCCCTTA	CC1
SMC22.T.TTTACTGGTCGTCTTC	CC2
SMC22.T.TTTACTGTCCCAAGTA	CC1
SMC22.T.TTTACTGTCTGTGCAA	CC1
SMC22.T.TTTATGCAGCAGCCTC	CC1
SMC22.T.TTTATGCCACCAGCAC	CC1
SMC22.T.TTTATGCCATTGGGCC	CC1
SMC22.T.TTTATGCGTCGACTGC	CC1
SMC22.T.TTTATGCGTTTTGCTC	CC1
SMC22.T.TTTATGCTCCCACTTG	CC1
SMC22.T.TTTATGCTCCTGTACC	CC1
SMC22.T.TTTATGCTCGTCCGTT	CC2
SMC22.T.TTTCCTCAGGCGACAT	CC2
SMC22.T.TTTCCTCGTGTGGCTC	CC1
SMC22.T.TTTCCTCTCACAATGC	CC1
SMC22.T.TTTGCGCAGAGAACAG	CC1
SMC22.T.TTTGCGCAGATCTGAA	CC1
SMC22.T.TTTGCGCCATCGGGTC	CC1
SMC22.T.TTTGCGCGTCATTAGC	CC1
SMC22.T.TTTGCGCGTTACGGAG	CC1
SMC22.T.TTTGCGCGTTGGGACA	CC1
SMC22.T.TTTGGTTAGACAGGCT	CC1
SMC22.T.TTTGGTTAGTACTTGC	CC1
SMC22.T.TTTGGTTCAACACCCG	CC1
SMC22.T.TTTGGTTTCTGTGCAA	CC1
SMC22.T.TTTGGTTTCTTGCCGT	CC1
SMC22.T.TTTGTCATCCTCAATT	CC1
SMC23.T.AAACCTGTCTTAGCCC	CC1
SMC23.T.AAACGGGCATTCTCTGC	CC1
SMC23.T.AAACGGGGTAGGAGTC	CC1
SMC23.T.AAAGATGCACCAGGCT	CC1
SMC23.T.AAAGCAAAGATAGCAT	CC1
SMC23.T.AAAGCAACATGATCCA	CC1
SMC23.T.AAAGCAAGTCCGCTGA	CC1
SMC23.T.AAATGCCCAGGAATCG	CC1
SMC23.T.AACACGTGTTAAGTAG	CC1
SMC23.T.AACCATGCAATCCGAT	CC1
SMC23.T.AACCGCGTCGCACTCT	CC1
SMC23.T.AACGTTGTCAGCACAT	CC1
SMC23.T.AACTCAGTCCGAAGAG	CC1
SMC23.T.AACTCTTCATGCAACT	CC2
SMC23.T.AACTCTTGTGAGTATA	CC1
SMC23.T.AAGGAGCAGAGGGCTT	CC1
SMC23.T.AAGGAGCCAAGGACAC	CC1
SMC23.T.AAGGAGCCACCACGTG	CC1
SMC23.T.AAGGAGCCATCCAACA	CC2
SMC23.T.AAGGAGCGTGTGCCTG	CC1
SMC23.T.AAGGCAGCACAGACTT	CC1
SMC23.T.AAGGTTCTCAAACCAC	CC1
SMC23.T.AAGTCTGCAGTCTTCC	CC1
SMC23.T.AAGTCTGCATACCATG	CC1
SMC23.T.AATCCAGAGACTAGGC	CC1

SMC23.T.AATCGGTAGGAGTAGA	CC2
SMC23.T.ACACCCTCAGGTCTCG	CC1
SMC23.T.ACACCCTTCATCATT	CC1
SMC23.T.ACACTGAAGTGCGTGA	CC1
SMC23.T.ACAGCTATCCGAGCCA	CC1
SMC23.T.ACATACGGTCAACATC	CC1
SMC23.T.ACATGGTCAAAGCAAT	CC1
SMC23.T.ACATGGTTCGGAGGTA	CC1
SMC23.T.ACCAGTACACGGACAA	CC1
SMC23.T.ACCAGTAGTTTAGGAA	CC1
SMC23.T.ACCCACTAGGTCATCT	CC1
SMC23.T.ACCCACTCATAAGACA	CC1
SMC23.T.ACCCACTTCGATGAGG	CC1
SMC23.T.ACCGTAAAGCAATATG	CC1
SMC23.T.ACCGTAACAGGTCGTC	CC1
SMC23.T.ACGAGCCCACTGTTAG	CC1
SMC23.T.ACGAGCCCATATGAGA	CC1
SMC23.T.ACGAGGAGTACGCTGC	CC2
SMC23.T.ACGAGGAGTGATGTGG	CC1
SMC23.T.ACGAGGATCCGGGTGT	CC1
SMC23.T.ACGAGGATCTACCAGA	CC1
SMC23.T.ACGATACAGCCAACAG	CC1
SMC23.T.ACGATACTCCGCAGTG	CC1
SMC23.T.ACGATGTAGAACAAC	CC1
SMC23.T.ACGCAGCAGCTGAAAT	CC1
SMC23.T.ACGCAGCCACAGGAGT	CC1
SMC23.T.ACGCCGAAGTCCCACG	CC1
SMC23.T.ACGCCGATCCATTCTA	CC1
SMC23.T.ACGCCGATCTCCTATA	CC1
SMC23.T.ACGGAGAGTGTGGCTC	CC1
SMC23.T.ACGGAGATCGGCGCTA	CC1
SMC23.T.ACGGCCACAGCCTTGG	CC1
SMC23.T.ACGGGTCAGGGAAACA	CC1
SMC23.T.ACGGGTCGTTGTCGCG	CC1
SMC23.T.ACGGGTCTCCTCAATT	CC1
SMC23.T.ACTGAACGTGCAGTAG	CC1
SMC23.T.ACTGAGTAGGCGATAC	CC1
SMC23.T.ACTGAGTAGTACCGGA	CC1
SMC23.T.ACTGATGCATTCCTGC	CC1
SMC23.T.ACTGATGGTAACGACG	CC1
SMC23.T.ACTGTCCCATAGAAAC	CC1
SMC23.T.ACTTACTCAATAGCGG	CC1
SMC23.T.ACTTACTGTCCAAGTT	CC1
SMC23.T.ACTTACTGTGGCGAAT	CC1
SMC23.T.ACTTACTTCTCGATGA	CC1
SMC23.T.ACTTTCACACCGTTGG	CC2
SMC23.T.AGAATAGTCTCAAGTG	CC1
SMC23.T.AGACGTTAGCGATAGC	CC1
SMC23.T.AGACGTTAGGGATGGG	CC1
SMC23.T.AGACGTTCAAGTCTAC	CC1
SMC23.T.AGACGTTCAATCGGTT	CC1
SMC23.T.AGAGCGAAGTGGTCCC	CC1
SMC23.T.AGAGCGACAATAGCAA	CC1
SMC23.T.AGAGCGATCACTATTC	CC2
SMC23.T.AGAGCGATCTACCAGA	CC1
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SMC23.T.AGAGTGGTCGCCAAAT	CC1
SMC23.T.AGAGTGGTCTACCTGC	CC2

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SMC23.T.AGATTGCCACTGAAGG	CC1
SMC23.T.AGCAGCCAGACTGGGT	CC1
SMC23.T.AGCATACGTCCTGCTT	CC1
SMC23.T.AGCCTAAGTCCGACGT	CC1
SMC23.T.AGGCCACCAATGTTGC	CC1
SMC23.T.AGGCCACTCTGTCTCG	CC1
SMC23.T.AGGCCGTCACCTGGTG	CC1
SMC23.T.AGGCCGTTCAATTGCGA	CC2
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SMC23.T.AGGGATGGTACATCCA	CC1
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SMC23.T.AGGGTGACAGCCTATA	CC1
SMC23.T.AGGGTGATCAAACCGT	CC1
SMC23.T.AGGTCCGAGCACAGGT	CC1
SMC23.T.AGGTCCGCAGACAAGC	CC1
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SMC23.T.AGGTCCGTCGCTAGCG	CC1
SMC23.T.AGTCTTTAGCTTCGCG	CC1
SMC23.T.AGTCTTTCATCACGAT	CC1
SMC23.T.AGTGAGGAGCAATCTC	CC1
SMC23.T.AGTGAGGGTGACGTAG	CC1
SMC23.T.AGTGGGAGTAAGTGTA	CC1
SMC23.T.AGTGTCAAGTTCGCGC	CC1
SMC23.T.AGTGTCATCTTAGAGC	CC1
SMC23.T.AGTTGGTTCCGTCAA	CC1
SMC23.T.ATAACGCTCGTTTAGG	CC1
SMC23.T.ATAAGAGGTCCGAAGA	CC1
SMC23.T.ATAAGAGTCAGTACGT	CC1
SMC23.T.ATCACGATCCCAAGAT	CC1
SMC23.T.ATCATCTGTTCCACAA	CC1
SMC23.T.ATCCACCAGACTAAGT	CC1
SMC23.T.ATCGAGTAGCCAGAAC	CC2
SMC23.T.ATCGAGTAGCGTTTAC	CC1
SMC23.T.ATCGAGTCAGCTGTGC	CC1
SMC23.T.ATCGAGTGTTATGCGT	CC2
SMC23.T.ATCGAGTTCGCCATAA	CC1
SMC23.T.ATCTACTGTGAGCGAT	CC1
SMC23.T.ATCTGCCAGGTGACCA	CC1
SMC23.T.ATCTGCCTCAGCTGGC	CC1
SMC23.T.ATCTGCCTCGCAAGCC	CC2
SMC23.T.ATGAGGGAGAGGGATA	CC1
SMC23.T.ATGTGTGCAAGCTGAG	CC1
SMC23.T.ATTACTCGTGTGACCC	CC2
SMC23.T.ATTATCCGTACCGGCT	CC1
SMC23.T.ATTCTACGTAGCCTCG	CC2
SMC23.T.ATTCTACTCCAAACTG	CC1
SMC23.T.ATTGGACAGTCTCAAC	CC1
SMC23.T.ATTGGACCACTTAAGC	CC1
SMC23.T.ATTGGACCATGGTCTA	CC1
SMC23.T.ATTTCTGAGACAGGCT	CC1
SMC23.T.ATTTCTGGTTGGAGGT	CC2
SMC23.T.ATTTCTGGTTTAAGCC	CC1
SMC23.T.ATTTCTGTACGCGGT	CC2
SMC23.T.CAACCAACATGCCTAA	CC1
SMC23.T.CAACCAAGTCCGAACC	CC1

SMC23.T.CAACCAATCAGCCTAA	CC1
SMC23.T.CAACCTCAGAGTCTGG	CC1
SMC23.T.CAACCTCCACGTCAGC	CC1
SMC23.T.CAACTAGAGCTAACAA	CC2
SMC23.T.CAAGAAAGTCTTCTCG	CC1
SMC23.T.CAAGAAATCCCATTTA	CC1
SMC23.T.CAAGATCCATTACCTT	CC1
SMC23.T.CAAGTTGGTAAGGATT	CC1
SMC23.T.CACAAACAGCCTCGTG	CC1
SMC23.T.CACAAACCAGGCTGAA	CC1
SMC23.T.CACAAACGTACGAAAT	CC1
SMC23.T.CACAAACGTCTGGAGA	CC1
SMC23.T.CACACCTCATTCTCG	CC1
SMC23.T.CACACCTTCATAGCAC	CC1
SMC23.T.CACACTCCACCCATTC	CC1
SMC23.T.CACACTCGTAATCACC	CC1
SMC23.T.CACACTCTCTCAACTT	CC2
SMC23.T.CACACTCTGCTTGC	CC1
SMC23.T.CACAGGCTCCGTTGTC	CC2
SMC23.T.CACAGTATCGGTCTAA	CC2
SMC23.T.CACATAGAGCAGATCG	CC1
SMC23.T.CACATTTAGCGATATA	CC1
SMC23.T.CACATTTGTAAATACG	CC1
SMC23.T.CACCACTCAAATCCGT	CC1
SMC23.T.CACCACTTCGGCGCTA	CC1
SMC23.T.CACTCCAAGGCTCAGA	CC1
SMC23.T.CAGAGAGCATCAGTAC	CC1
SMC23.T.CAGAGAGTCATAGCAC	CC1
SMC23.T.CAGATCAGTAAAGGAG	CC1
SMC23.T.CAGCATAAGGATCGCA	CC2
SMC23.T.CAGCCGAGTCGCGGTT	CC1
SMC23.T.CAGCTAACATAGGATA	CC1
SMC23.T.CAGCTAAGTCCAGTAT	CC1
SMC23.T.CAGCTGGTCTCGTATT	CC1
SMC23.T.CAGTAACAGAAAGTGG	CC1
SMC23.T.CAGTCCTTCTCAACTT	CC2
SMC23.T.CATATTCTCTGATTCT	CC1
SMC23.T.CATCAAGTCGCCTGAG	CC1
SMC23.T.CATCAGAAGTCACGCC	CC1
SMC23.T.CATCAGATCCCAAGAT	CC1
SMC23.T.CATCAGATCCGTCATC	CC1
SMC23.T.CATCAGATCCTTCAAT	CC1
SMC23.T.CATCAGATCTTGACT	CC2
SMC23.T.CATCCACAGTGA CTCT	CC1
SMC23.T.CATCGAAAGCGGCTTC	CC1
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SMC23.T.CATCGGGAGCGATAGC	CC1
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SMC23.T.CATGCCTAGGTGACCA	CC1
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SMC23.T.CATGCCTGTCTCTCGT	CC1
SMC23.T.CATGCCTGTTTCGGCAC	CC1
SMC23.T.CATGCCTGTTTGTTTC	CC1
SMC23.T.CATGGCGTCTCGCATC	CC1
SMC23.T.CATTATCAGACCCACC	CC1

SMC23.T.CATTCGCTCTTGCCGT	CC1
SMC23.T.CCAATCCAGACTACAA	CC1
SMC23.T.CCAATCCCAGTTCATG	CC1
SMC23.T.CCACCTAAGAGCTGGT	CC1
SMC23.T.CCACCTAAGCTCCTTC	CC2
SMC23.T.CCATTCGAGAGTGACC	CC1
SMC23.T.CCATTCGGTCATGCCG	CC1
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SMC23.T.CGGAGTCGTTCAGCGC	CC2
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SMC23.T.CGGTTAATCTGTCAAG	CC2
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SMC23.T.CTCGTACTIONCACTCCA	CC1
SMC23.T.CTCGTACTIONCTGCAGTA	CC1
SMC23.T.CTCTAATTCAGTACGT	CC2
SMC23.T.CTCTAATTCAGGTG	CC1

SMC23.T.CTCTGGTAGGAGTTTA	CC1
SMC23.T.CTCTGGTCAACTGCGC	CC2
SMC23.T.CTCTGGTTCAGTTAGC	CC1
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SMC23.T.CTGAACAGCTGCAAG	CC1
SMC23.T.CTGAACAGCCTGTG	CC1
SMC23.T.CTGAACGTCGGGTCT	CC1
SMC23.T.CTGAAGTGTTGCTAA	CC1
SMC23.T.CTGATAGAGGGATCTG	CC1
SMC23.T.CTGATCCTCGGCGCTA	CC2
SMC23.T.CTGCCTAAGATTACCC	CC2
SMC23.T.CTGCCTACATGATCCA	CC2
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SMC23.T.CTGCTGTGTGATGTGG	CC1
SMC23.T.CTGGTCTAGTAGCCGA	CC1
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SMC23.T.CTGTGCTAGCACGCCT	CC1
SMC23.T.CTGTGCTGTACGAAAT	CC1
SMC23.T.CTTACCGTTACGTCA	CC1
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SMC23.T.GAACATCTCTGACCTC	CC1
SMC23.T.GAACCTAAGTGTCAT	CC2
SMC23.T.GAACGGACAGGGTACA	CC1
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SMC23.T.GAAGCAGGTAGTGAAT	CC1
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SMC23.T.GACCAATAGAGCCCAA	CC1
SMC23.T.GACCAATAGCATCATC	CC1
SMC23.T.GACCTGGTCCAAGTAC	CC1
SMC23.T.GACGCGTGTCCACTC	CC1
SMC23.T.GACGGCTAGACCTAGG	CC2
SMC23.T.GACGGCTACCCAGGTC	CC1
SMC23.T.GACGGCTTCTGTCTAT	CC1
SMC23.T.GACGTGCGTTCGAATC	CC1
SMC23.T.GACGTGCTCAGCTTAG	CC1
SMC23.T.GACGTTAAGTCTCCTC	CC1
SMC23.T.GACGTTAAGTGTTGAA	CC1
SMC23.T.GACTACAGTCTCTCTG	CC1
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SMC23.T.GCTCTGTGTTAGGGTG	CC1
SMC23.T.GCTGCAGGTTGGAGGT	CC1
SMC23.T.GCTGCAGTCTACTATC	CC2
SMC23.T.GCTGCGAGTTGAACTC	CC1
SMC23.T.GCTGCTTTCTACGAGT	CC1
SMC23.T.GCTTCCACACGTGAGA	CC1
SMC23.T.GCTTCCACAGACAGGT	CC1
SMC23.T.GGAAAGCCAGGTTTCA	CC1
SMC23.T.GGAAAGCTCTCGCATC	CC2
SMC23.T.GGAACTTCAGTCCTTC	CC1
SMC23.T.GGAACTTGTCTAAACC	CC1
SMC23.T.GGAATAATCCTCTAGC	CC1
SMC23.T.GGACAAGAGGAGTAGA	CC1
SMC23.T.GGACAAGCAGCTTAAC	CC1
SMC23.T.GGACAGAGTAAGCACG	CC1
SMC23.T.GGACATTTCATAACCG	CC1
SMC23.T.GGACGTCAGCTGAAAT	CC1
SMC23.T.GGATGTTACACCCGCA	CC1
SMC23.T.GGATGTTGTAGAGCTG	CC1
SMC23.T.GGATGTTTCTTCGAGA	CC1
SMC23.T.GGATTACAGCCACGCT	CC1
SMC23.T.GGCAATTTCTTGATC	CC1
SMC23.T.GGCCGATCAGGTGCCT	CC1
SMC23.T.GGCCGATGTGACTCAT	CC2
SMC23.T.GGCGACTAGGAGTTTA	CC1
SMC23.T.GGCGACTCAGTCAGAG	CC1
SMC23.T.GGCGACTCAGTTCCCT	CC1
SMC23.T.GGCGTGTAGTTAGGTA	CC1
SMC23.T.GGCTCGAGTTTACTG	CC1
SMC23.T.GGCTGGTGTAAAGGAA	CC1

SMC23.T.GGGACCTCAATCGGTT	CC1
SMC23.T.GGGACCTCATACGCTA	CC1
SMC23.T.GGGAGATCAATGGAAT	CC1
SMC23.T.GGGTCTGTCTGGGCCA	CC1
SMC23.T.GGGTTGCGTTGGTAAA	CC1
SMC23.T.GGTATTGAGTACGACG	CC1
SMC23.T.GGTGAAGCATACTCTT	CC1
SMC23.T.GGTGAAGCATCACCCCT	CC1
SMC23.T.GGTGCGTAGAATAGGG	CC1
SMC23.T.GGTGCGTAGATCTGCT	CC2
SMC23.T.GGTGCGTAGGACGAAA	CC1
SMC23.T.GGTGCGTAGTATTGGA	CC1
SMC23.T.GGTGCGTCCCAACGG	CC1
SMC23.T.GGTGTTAGTGGCAAAC	CC1
SMC23.T.GTAACGTAGGGTGTG	CC2
SMC23.T.GTAACGTCAAGCGAGT	CC1
SMC23.T.GTAACGTCACAGGCCT	CC1
SMC23.T.GTAACGTTCCGACAAG	CC1
SMC23.T.GTAACTGCAGTGGGAT	CC1
SMC23.T.GTACTCCCATCCCATC	CC1
SMC23.T.GTACTCCCATTAGGCT	CC1
SMC23.T.GTACTCCTCAACACTG	CC1
SMC23.T.GTATCTTCACGTCAGC	CC1
SMC23.T.GTATCTTGTTCCACTC	CC1
SMC23.T.GTCAAGTCACCTATCC	CC1
SMC23.T.GTCAAGTGTCGGTTAA	CC1
SMC23.T.GTCACAACAGACACTT	CC1
SMC23.T.GTCACAAGTCCCTTGT	CC1
SMC23.T.GTCACGGAGGTGCTAG	CC2
SMC23.T.GTCACGGTCGAGAACG	CC1
SMC23.T.GTCCTCAAGGCATTGG	CC1
SMC23.T.GTCCTCAGTGAAGGCT	CC1
SMC23.T.GTCGGGTCATTACCTT	CC1
SMC23.T.GTCTCGTTCAGCCTAA	CC1
SMC23.T.GTCTTCGGTCGTGGCT	CC1
SMC23.T.GTGAAGGAGGAATGGA	CC1
SMC23.T.GTGCAGCAGATGTAAC	CC2
SMC23.T.GTGCAGCCACCTCGTT	CC1
SMC23.T.GTGCATAAGAGAGCTC	CC1
SMC23.T.GTGCATACACATCCGG	CC1
SMC23.T.GTGCGGTAGAGATGAG	CC1
SMC23.T.GTGCTTCCAGTAACGG	CC1
SMC23.T.GTGCTTCCATTGACA	CC1
SMC23.T.GTGCTTCTCCCAACGG	CC1
SMC23.T.GTGGGTCTCCAAACAC	CC2
SMC23.T.GTGTGCGGTTTCAATC	CC1
SMC23.T.GTTAAGCCATGAAGTA	CC1
SMC23.T.GTTACAGTCCGTCATC	CC1
SMC23.T.GTTCATTGTCCGAGTC	CC1
SMC23.T.GTTCTCGAGGCACATG	CC1
SMC23.T.GTTTCTATCAGTGTTG	CC1
SMC23.T.TAAACCGGTCACCTAA	CC1
SMC23.T.TAAGAGACAAGCCCAC	CC1
SMC23.T.TAAGAGACAGATGAGC	CC1
SMC23.T.TAAGAGACATTCCTGC	CC1
SMC23.T.TAAGTGCAGAAGGACA	CC1
SMC23.T.TAAGTGCAGCTCAACT	CC2
SMC23.T.TACACGAAGTACACCT	CC1

SMC23.T.TACACGAGTTAGGGTG	CC1
SMC23.T.TACACGATCTTGACGA	CC1
SMC23.T.TACAGTGAGCGTGAGT	CC1
SMC23.T.TACAGTGCAATCCAAC	CC1
SMC23.T.TACCTATCATCACAAC	CC1
SMC23.T.TACGGGCGTGTTGGGA	CC1
SMC23.T.TACGGTAAGGGTATCG	CC1
SMC23.T.TACGGTAGTCCCGACA	CC1
SMC23.T.TACGGTAGTGCGATAG	CC1
SMC23.T.TACTCATCAGTCACTA	CC1
SMC23.T.TACTCATGTACTTCTT	CC1
SMC23.T.TACTTACTCATCACCC	CC1
SMC23.T.TAGAGCTCAGTTAACC	CC1
SMC23.T.TAGCCGGAGACTCGGA	CC1
SMC23.T.TAGGCATAGATGCGAC	CC1
SMC23.T.TAGGCATAGATGTGTA	CC1
SMC23.T.TAGTGGTCAATGTAAG	CC1
SMC23.T.TAGTGGTGTCTCTTG	CC1
SMC23.T.TAGTTGGCAGATGAGC	CC1
SMC23.T.TAGTTGGCATATACGC	CC1
SMC23.T.TAGTTGGTCGATAGAA	CC1
SMC23.T.TATCAGGAGAAGGTTT	CC1
SMC23.T.TATCAGGCAGGGTACA	CC1
SMC23.T.TATCTCATCCAGTATG	CC1
SMC23.T.TATCTCATCCCATTAT	CC1
SMC23.T.TATGCCCGTCGTTGTA	CC1
SMC23.T.TATGCCCTCCTCAATT	CC1
SMC23.T.TATTACCAGTATCTCG	CC1
SMC23.T.TCAACGAAGCAGACTG	CC1
SMC23.T.TCAACGATCGGTTCCG	CC1
SMC23.T.TCAATCTCAGATCGGA	CC1
SMC23.T.TCACAAGAGGTGCTTT	CC2
SMC23.T.TCACAAGTCTTTACAC	CC1
SMC23.T.TCACGAAGTAAGTTCC	CC1
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SMC23.T.TCAGATGGTGTGACGA	CC1
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SMC23.T.TCAGGATTCGAACTGT	CC1
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SMC23.T.TCATTACCATCCTTGC	CC1
SMC23.T.TCATTACGTCTTCAAG	CC1
SMC23.T.TCATTGGTCCGAACC	CC1
SMC23.T.TCATTGTCAAGGCTT	CC1
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SMC23.T.TCGCGTTGTATAAACG	CC1
SMC23.T.TCGGGACCAATGACCT	CC1
SMC23.T.TCGGGACTCGTCCAGG	CC1
SMC23.T.TCGGTAATCACCTTAT	CC1
SMC23.T.TCGTACCAGCGTGAAC	CC1
SMC23.T.TCTATTGGTGGTCCGT	CC2
SMC23.T.TCTATTGGTTCACGGC	CC1
SMC23.T.TCTATTGTATCATTC	CC1
SMC23.T.TCTCATAAGATATGGT	CC1

SMC23.T.TCTCTAATCTACCTGC	CC1
SMC23.T.TCTGAGAAGAGGGATA	CC2
SMC23.T.TCTGAGATCAAAGTAG	CC1
SMC23.T.TCTGGAAGCGTGTCC	CC1
SMC23.T.TCTGGAAGTAAATGTG	CC1
SMC23.T.TCTTTCCCATTTGCTT	CC1
SMC23.T.TGAAAGAGTGCAGACA	CC1
SMC23.T.TGAAAGATCCTGCTTG	CC1
SMC23.T.TGACAACAGTGAAGAG	CC1
SMC23.T.TGACAACCACGGCCAT	CC1
SMC23.T.TGACGGCTCGGAGGTA	CC1
SMC23.T.TGACTAGTCCTTTCTC	CC1
SMC23.T.TGACTTTTCAGGCAGTA	CC1
SMC23.T.TGACTTTTCGCCCTTA	CC1
SMC23.T.TGAGAGGTCGGGAGTA	CC1
SMC23.T.TGAGCATCACACCGCA	CC1
SMC23.T.TGAGCATCACACGCTG	CC1
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SMC23.T.TGAGGGAGTTATGCGT	CC1
SMC23.T.TGAGGGAGTTCCGTCT	CC2
SMC23.T.TGATTTCCAATACGCT	CC1
SMC23.T.TGATTTTCGTGATGTGG	CC1
SMC23.T.TGCCCATCATATGAGA	CC1
SMC23.T.TGCGCAGGTACCGGCT	CC1
SMC23.T.TGCGGGTAGAGAGCTC	CC1
SMC23.T.TGCGGGTAGTCGCCGT	CC1
SMC23.T.TGCGGGGTAGCTAAA	CC1
SMC23.T.TGCTACCCAAGACACG	CC1
SMC23.T.TGCTACCTCAGCTTAG	CC2
SMC23.T.TGCTGCTAGCACCGTC	CC1
SMC23.T.TGGCCAGTTCAACCA	CC1
SMC23.T.TGGCCAGTCAGTTGAC	CC1
SMC23.T.TGGCGCAAGTGATCGG	CC1
SMC23.T.TGGCGCACACTAGTAC	CC1
SMC23.T.TGGCTGGTCATGTAGC	CC2
SMC23.T.TGGCTGGTCGGTTAAC	CC2
SMC23.T.TGGGAAGAGGCCCTTG	CC1
SMC23.T.TGGGAAGCACAGCGTC	CC1
SMC23.T.TGGGAAGGTTGCGTTA	CC1
SMC23.T.TGGGCGTTCGTATCAG	CC1
SMC23.T.TGGTTCCAATAGAGT	CC1
SMC23.T.TGGTTCCGTGGTGTAG	CC1
SMC23.T.TGGTTCCCTTTACAC	CC1
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SMC23.T.TGTGGTAAGCTCTCGG	CC1
SMC23.T.TGTGGTAGTCGCTTTC	CC2
SMC23.T.TGTGTTTCAGTATGCT	CC1
SMC23.T.TGTTCCGCAAGTAATG	CC1
SMC23.T.TGTTCCGCAATTCCTT	CC1
SMC23.T.TTAGGACAGTCATCCA	CC2
SMC23.T.TTAGGCACAATCTACG	CC1
SMC23.T.TTAGGCACATGAAGTA	CC1
SMC23.T.TTATGCTGTGTTGAGG	CC1
SMC23.T.TTATGCTTCTCGAGTA	CC1

SMC23.T.TTCGAAGAGGCATGGT	CC1
SMC23.T.TTCGAAGCAGCAGTTT	CC1
SMC23.T.TTCGGTCTCGAGCCCA	CC1
SMC23.T.TTCTACAAGAGTCGGT	CC1
SMC23.T.TTCTACAAGGGCACTA	CC1
SMC23.T.TTCTACACAGGGTACA	CC1
SMC23.T.TTCTACATCCGCTGTT	CC1
SMC23.T.TTCTCAACACACCGCA	CC1
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SMC23.T.TTGCCGTCAGGCGATA	CC1
SMC23.T.TTGCCGTGTTTCGCTC	CC1
SMC23.T.TTGCGTCAGGTCGGAT	CC1
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SMC23.T.TTGGAACCACATCCGG	CC1
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SMC23.T.TTGTAGGAGTTGCAGG	CC1
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SMC23.T.TTGTAGGGTGGCCCTA	CC1
SMC23.T.TTTACTGAGATGAGAG	CC1
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SMC23.T.TTTATGCGTAGCGTAG	CC1
SMC23.T.TTTCCTCGTCTAGCCG	CC1
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SMC23.T.TTTGCGCAGGCGATAC	CC1
SMC23.T.TTTGCGCCAGACGCTC	CC1
SMC23.T.TTTGTCAAGCTACCGC	CC1
SMC23.T.TTTGTCAAGCTGCTG	CC1
SMC23.T.TTTGTCAATCTCT	CC1
SMC24.T.AAAGCAAAGACTGGGT	CC2
SMC24.T.AAAGTAGAGCTAAGAT	CC2
SMC24.T.AAAGTAGTCTTGTACT	CC2
SMC24.T.AACACGTAGGTGCTAG	CC2
SMC24.T.AACGTTGCATCACGAT	CC2
SMC24.T.AACTCAGTCCCTCTTT	CC2
SMC24.T.AACTCCCCACCAACCG	CC2
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SMC24.T.AAGTCTGTCTCCGGTT	CC2
SMC24.T.AATCCAGTCCGCATCT	CC2
SMC24.T.AATCCAGTCGAACTGT	CC2
SMC24.T.ACACCCTCATTTGCC	CC2
SMC24.T.ACAGCCGAGAAGCCCA	CC2
SMC24.T.ACAGCCGGTGTAACGG	CC2
SMC24.T.ACATCAGAGGCTATCT	CC1
SMC24.T.ACATCAGTCCGCATAA	CC2
SMC24.T.ACCCACTAGAGCAATT	CC2
SMC24.T.ACCCACTAGGACCACA	CC2

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SMC24.T.ACGAGGAAGTCCATAC	CC2
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SMC24.T.ACGATGTAGTCTTGCA	CC2
SMC24.T.ACGATGTGTCTAACGT	CC2
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SMC24.T.ACGCAGCGTACTCAAC	CC2
SMC24.T.ACGCAGCGTTCGTGAT	CC2
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SMC24.T.ACGCAGCTCTGATTCT	CC2
SMC24.T.ACGGGCTAGAGAGCTC	CC2
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SMC24.T.ACTATCTTCTATCCTA	CC2
SMC24.T.ACTGATGTCACCCTCA	CC2
SMC24.T.ACTTACTAGGGCTCTC	CC2
SMC24.T.ACTTACTCAGTTAACC	CC2
SMC24.T.ACTTGTTTCAATGCT	CC2
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SMC24.T.ATCCACCTCCTGTAGA	CC2
SMC24.T.ATCCGAATCGTCCGTT	CC2
SMC24.T.ATCCGAATCGTGACAT	CC2
SMC24.T.ATCGAGTTCCTCAATT	CC2
SMC24.T.ATCTACTGTTAAAGTG	CC2
SMC24.T.ATCTACTGTTCCACTC	CC2
SMC24.T.ATGAGGGTCTGTCAAG	CC2
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SMC24.T.CACAGGCGTTACCACT	CC2
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SMC24.T.CAGATCAAGTAAGTAC	CC2

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SMC24.T.CAGCTGGCATAGTAAG	CC2
SMC24.T.CAGGTGCAGTGTTAGA	CC2
SMC24.T.CAGGTGCGTCGCATAT	CC1
SMC24.T.CAGTCCTCATGTCCTC	CC2
SMC24.T.CATATGGCAATGGTCT	CC2
SMC24.T.CATATGGCAGGGTACA	CC2
SMC24.T.CATATTCTCAAGATCC	CC2
SMC24.T.CATCAAGAGATGGGTC	CC2
SMC24.T.CATCAGATCTTCATGT	CC2
SMC24.T.CATCCACAGCAAATCA	CC2
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SMC24.T.CGAACATCAGTAAGAT	CC2
SMC24.T.CGAATGTCATGAGCGA	CC1
SMC24.T.CGACCTTCAATGCCAT	CC2
SMC24.T.CGACTTCTCTGGTTCC	CC2
SMC24.T.CGACTTCTCTTGCCGT	CC2
SMC24.T.CGAGAAGGTAGCGTCC	CC2
SMC24.T.CGAGAAGTCGGATGTT	CC2
SMC24.T.CGAGCACTCTACTATC	CC2
SMC24.T.CGAGCCAGTTCCTTG	CC2
SMC24.T.CGATTGAAGCCCGAAA	CC2
SMC24.T.CGATTGAGTTCAACCA	CC2
SMC24.T.CGCCAAGAGATCTGCT	CC2
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SMC24.T.CGCGTTTGTAACGCGA	CC2
SMC24.T.CGCGTTTTCCCTTG	CC2
SMC24.T.CGCTATCAGCGGCTTC	CC2
SMC24.T.CGCTATCTCAGATAAG	CC2
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SMC24.T.CGGACACGTACATCCA	CC2
SMC24.T.CGGACACGTACGAAAT	CC2
SMC24.T.CGGACACTCAAGAAGT	CC2
SMC24.T.CGGACGTGTGTTAAGA	CC2
SMC24.T.CGGACTGAGAACAAC	CC2

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SMC24.T.CGGTTAACACCCAGTG	CC2
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SMC24.T.CGTCTACGTCCAGTTA	CC2
SMC24.T.CGTGAGCCATCACAAC	CC2
SMC24.T.CGTGAGCTCGTTTGCC	CC2
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SMC24.T.CTACGTCTCCAGATCA	CC2
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SMC24.T.CTAGTGATCACATGCA	CC2
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SMC24.T.CTCTAATAGGTAGCCA	CC2
SMC24.T.CTCTAATTCGTCGTTC	CC2
SMC24.T.CTCTAATTCGTCTGAA	CC2
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SMC24.T.CTCTACGAGATGAGAG	CC2
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SMC24.T.CTTCTCTTCCTCATTA	CC2
SMC24.T.CTTTGCGTCGCTTGTC	CC2
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SMC24.T.GAACATCTCTGAGGGA	CC2
SMC24.T.GAACGGAAGTTGAGAT	CC2
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SMC24.T.GAATGAATCAACCATG	CC2
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SMC24.T.GACAGAGAGACAGAGA	CC2
SMC24.T.GACGCGTAGTTGTCGT	CC2
SMC24.T.GACGGCTAGGTGCTAG	CC2
SMC24.T.GACGGCTCAGTCAGCC	CC2
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SMC24.T.GACTGCGCACCGGAAA	CC2
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SMC24.T.GAGGTGACATGGATGG	CC2
SMC24.T.GAGGTGATCCACTCCA	CC2
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SMC24.T.GATCGCGGTCAGAAGC	CC2
SMC24.T.GATCTAGGTTGAGGTG	CC2
SMC24.T.GATGAGGAGTGCTGCC	CC2
SMC24.T.GATGCTAGTGCCTGGT	CC2
SMC24.T.GCAATCACAAAGCAAT	CC2
SMC24.T.GCAATCACAGCCAATT	CC2
SMC24.T.GCACTCTGTGACCAAG	CC2
SMC24.T.GCAGCCAGTAGCTAAA	CC2
SMC24.T.GCAGCCATCCAAACAC	CC2
SMC24.T.GCAGTTAGTGAGTATA	CC2

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SMC24.T.GCATGATTCCGCTGTT	CC2
SMC24.T.GCCAAATTCACGCAG	CC2
SMC24.T.GCGACCAAGTACGACG	CC2
SMC24.T.GCGCAACTCGGGAGTA	CC2
SMC24.T.GCTGCAGAGCTTATCG	CC2
SMC24.T.GCTGGGTCACCTTCTGC	CC2
SMC24.T.GCTGGGTTGAGAGCA	CC2
SMC24.T.GCTTCCATCTATCCCG	CC2
SMC24.T.GCTTCCATCTGCAAGT	CC2
SMC24.T.GGAAAGCAGACAAGCC	CC2
SMC24.T.GGACAGAGTACGACCC	CC2
SMC24.T.GGACATTCAAACGCGA	CC2
SMC24.T.GGATGTTGTACCATCA	CC2
SMC24.T.GGATTACCATTGACA	CC2
SMC24.T.GGCAATTAGACGCACA	CC2
SMC24.T.GGCGACTGTCAAGCGA	CC2
SMC24.T.GGCTGGTAGTTTAGGA	CC2
SMC24.T.GGGACCTAGGAGTCTG	CC2
SMC24.T.GGGATGAGTATATCCG	CC2
SMC24.T.GGGCACTCAGTGGGAT	CC2
SMC24.T.GGGCACTGTAATAGCA	CC2
SMC24.T.GGGCACTGTCTACCTC	CC2
SMC24.T.GGGCACTCAAAGACA	CC2
SMC24.T.GGGCATCAGCGATCCC	CC2
SMC24.T.GGGCATCTCCAGGG	CC2
SMC24.T.GGGTCTGAGGCTCAGA	CC2
SMC24.T.GGGTTGCTCTCCCTGA	CC2
SMC24.T.GTAAACGTGTGCCTGGT	CC2
SMC24.T.GTAACTGTCTCAACTT	CC2
SMC24.T.GTACTCCCACCATGTA	CC2
SMC24.T.GTACTCCTCTAGCACA	CC2
SMC24.T.GTAGGCCCAAGAGGCT	CC2
SMC24.T.GTCATTTGTTAGGGTG	CC2
SMC24.T.GTCTTCGGTTCCGGCA	CC2
SMC24.T.GTGCATATCTTGCCGT	CC2
SMC24.T.GTGGGTCAGCGACGTA	CC2
SMC24.T.GTGGGTCTCCGGGTGT	CC2
SMC24.T.GTTACAGAGAGCAATT	CC2
SMC24.T.GTTACAGAGAGCCTAG	CC1
SMC24.T.GTTCATTCACTCTGTC	CC2
SMC24.T.GTTCGGGGTTCGGGCT	CC2
SMC24.T.TAAGAGAAGTTAAGTG	CC2
SMC24.T.TAAGTGCGTCTACCTC	CC2
SMC24.T.TAAGTGCTCAGAGCTT	CC2
SMC24.T.TACAGTGTCACGAAGG	CC2
SMC24.T.TACCTTACACGTGAGA	CC2
SMC24.T.TACGGGCTCCAGTAGT	CC2
SMC24.T.TACTCATCAAAGTCAA	CC2
SMC24.T.TACTCGCCATCACAAAC	CC2
SMC24.T.TACTTACAGTTAACGA	CC2
SMC24.T.TACTTGTGTTCCACAA	CC1
SMC24.T.TAGAGCTAGTGTACGG	CC2
SMC24.T.TAGAGCTGTTCAACCA	CC2
SMC24.T.TAGCCGGGTCTCCCTA	CC2
SMC24.T.TAGGCATGTGATGTGG	CC2
SMC24.T.TAGGCATGTGGGTCAA	CC2
SMC24.T.TAGTGGTGTTCGGTCT	CC2

SMC24.T.TATCAGGAGGCGTACA	CC2
SMC24.T.TATTACCAGTCTCCTC	CC2
SMC24.T.TCAACGAGTACCGTAT	CC2
SMC24.T.TCAACGATCCCTCAGT	CC2
SMC24.T.TCAATCTAGCCCAGCT	CC2
SMC24.T.TCAATCTGTGATGTGG	CC2
SMC24.T.TCACAAGAGAGACGAA	CC2
SMC24.T.TCACAAGCACGGTGTC	CC2
SMC24.T.TCACAAGTCGTTTGCC	CC2
SMC24.T.TCACGAATCGGGAGTA	CC2
SMC24.T.TCAGATGAGGACACCA	CC2
SMC24.T.TCAGATGCAGCCACCA	CC2
SMC24.T.TCAGCTCTCCAAACAC	CC2
SMC24.T.TCAGGATCATGCTGGC	CC2
SMC24.T.TCAGGTATCAATCTCT	CC2
SMC24.T.TCATTTGAGTACATGA	CC2
SMC24.T.TCGGTAACACAGGAGT	CC1
SMC24.T.TCGGTAACAGAGTGTG	CC2
SMC24.T.TCGGTAATCACTTATC	CC2
SMC24.T.TCGTACCAGTGTACGG	CC2
SMC24.T.TCGTACCTCCATGAAC	CC2
SMC24.T.TCGTAGAGTGTGAAAT	CC2
SMC24.T.TCGTAGATCGGCGCTA	CC2
SMC24.T.TCTATTGTCGTTGCCT	CC2
SMC24.T.TCTATTGTCTCATTCA	CC2
SMC24.T.TCTCTAACATGAAGTA	CC2
SMC24.T.TCTTCGGGTAACGACG	CC2
SMC24.T.TCTTTCCACAGAGGT	CC2
SMC24.T.TGACTAGGTCATGCCG	CC2
SMC24.T.TGACTTTAGTTCGCGC	CC2
SMC24.T.TGACTTTCAGGTCCAC	CC2
SMC24.T.TGACTTTTCTTAGAGC	CC2
SMC24.T.TGAGCCGGTAGTAGTA	CC2
SMC24.T.TGAGGGACACGTTGGC	CC2
SMC24.T.TGATTTTCGTGACTCAT	CC2
SMC24.T.TGCCCTATCTGGCGTG	CC2
SMC24.T.TGCGCAGGTCTGCCAG	CC2
SMC24.T.TGCGCAGGTTACGACT	CC2
SMC24.T.TGGCTGGGTCTTCGTC	CC2
SMC24.T.TGGGAAGGTTGATTGC	CC2
SMC24.T.TGGGCGTCATGGATGG	CC2
SMC24.T.TGTATTCAAGTGTTC	CC2
SMC24.T.TGTGTTTGTAAAGGAA	CC2
SMC24.T.TGTTCCGAGACTACAA	CC2
SMC24.T.TTAACTCAGTCCGGTC	CC2
SMC24.T.TTAACTCTCAAACCGT	CC1
SMC24.T.TTAGTTCAGCTGAAAT	CC2
SMC24.T.TTCCCAGAGGTGCAAC	CC2
SMC24.T.TTCCCAGTCTACGAGT	CC2
SMC24.T.TTCGGTCCAAGTTCTG	CC2
SMC24.T.TTCGGTTCGTGACCAAG	CC2
SMC24.T.TTCTTAGGTCTAGAGG	CC2
SMC24.T.TTCTTAGTTCGCCTGTT	CC2
SMC24.T.TTGAACGAGAGACTTA	CC2
SMC24.T.TTGGCAAAGTCTTGCA	CC2
SMC24.T.TTGTAGGCAGCCAATT	CC2
SMC24.T.TTTATGCGTAGCAAAT	CC2
SMC24.T.TTTCCTCGTTGTCTTT	CC2

SMC24.T.TTTGGTTAGATGGCGT	CC2
SMC24.T.TTTGTCAGTTCCTTG	CC2
SMC24.T.TTTGTCAGTTGCGTTA	CC2
SMC25.T.AAACGGGGTTATGTGC	CC1
SMC25.T.AAACGGGTCAACACAC	CC1
SMC25.T.AAAGATGGTAACGTTT	CC1
SMC25.T.AAATGCCAGTGATCGG	CC1
SMC25.T.AAATGCCTCAAACGGG	CC1
SMC25.T.AACCATGTCCTAAGTG	CC2
SMC25.T.AACTCAGCACCGAAAG	CC1
SMC25.T.AACTCAGGTAGAGTGC	CC1
SMC25.T.AACTCAGGTCCGAAGA	CC1
SMC25.T.AACTCAGGTTGGTAAA	CC1
SMC25.T.AACTCTTGTAGGGACT	CC1
SMC25.T.AACTCTTGTTCGCGAC	CC1
SMC25.T.AACTGGTTCAGGCCCA	CC1
SMC25.T.AACTTTCAGCCCAATT	CC1
SMC25.T.AAGACCTCAGGAATCG	CC1
SMC25.T.AAGACCTTCAGTCCCT	CC1
SMC25.T.AAGCCGCCAGGTGCCT	CC1
SMC25.T.AAGGCAGAGCAAATCA	CC1
SMC25.T.AAGGCAGCAAGCCATT	CC1
SMC25.T.AAGGCAGCACTTAACG	CC1
SMC25.T.AAGGCAGGTCCAGTGC	CC1
SMC25.T.AAGGTTCTCTGTCTAT	CC1
SMC25.T.AAGTCTGAGCTACCGC	CC1
SMC25.T.AAGTCTGGTGGTGTAG	CC1
SMC25.T.AATCCAGGTGTAATGA	CC1
SMC25.T.AATCCAGTCCGCATAA	CC1
SMC25.T.AATCGGTCAGTACACT	CC1
SMC25.T.AATCGGTTCCGTCATC	CC1
SMC25.T.ACACCAATCGAATCCA	CC1
SMC25.T.ACACCCTAGTATCGAA	CC2
SMC25.T.ACACCGTCCCTGTACC	CC1
SMC25.T.ACACTGACAGTCACTA	CC1
SMC25.T.ACAGCTATCACTCCTG	CC1
SMC25.T.ACATACGAGTCAATAG	CC1
SMC25.T.ACATACGCACCACGTG	CC1
SMC25.T.ACATCAGAGGGCTCTC	CC1
SMC25.T.ACATGGTAGCTCCTTC	CC1
SMC25.T.ACCCACTAGAATGTTG	CC2
SMC25.T.ACCCACTAGCAGCGTA	CC1
SMC25.T.ACCTTTACACCAACCG	CC1
SMC25.T.ACCTTTAGTGACCAAG	CC1
SMC25.T.ACCTTTATCACCCACT	CC1
SMC25.T.ACGAGCCGTAATAGCA	CC1
SMC25.T.ACGAGGAAGTGAAGTT	CC1
SMC25.T.ACGAGGACACGGCCAT	CC1
SMC25.T.ACGATGTTTCAGTTTGG	CC1
SMC25.T.ACGCCAGGTCGTGGCT	CC1
SMC25.T.ACGCCGACACAGATTC	CC1
SMC25.T.ACGCCGAGTCTAGTGT	CC1
SMC25.T.ACGGGCTTCATACGGT	CC1
SMC25.T.ACGGGTCAGGCATTGG	CC1
SMC25.T.ACGGGTCAGGCTATCT	CC2
SMC25.T.ACGGGTCAGTTGTCGT	CC1
SMC25.T.ACGTCAACACAGCCCA	CC1
SMC25.T.ACGTCAAGTCGCTTCT	CC1

SMC25.T.ACGTCAATCTACTCAT	CC1
SMC25.T.ACTATCTCACTGAAGG	CC1
SMC25.T.ACTGAACGTCGCTTTC	CC1
SMC25.T.ACTGAGTGTCAAGCGA	CC1
SMC25.T.ACTGATGTCTACTCAT	CC1
SMC25.T.ACTGATGTCTTAGCCC	CC1
SMC25.T.ACTGCTCAGTCGATAA	CC1
SMC25.T.ACTGCTCGTGAGTGAC	CC2
SMC25.T.ACTGTCCGTTATTCTC	CC1
SMC25.T.ACTGTCTCTGGCGTG	CC1
SMC25.T.ACTTGTTGTTGTGGAG	CC1
SMC25.T.AGAGCTTCAGACAGGT	CC1
SMC25.T.AGAGTGGCAAATCCGT	CC2
SMC25.T.AGATTGCGTATGCTTG	CC1
SMC25.T.AGCAGCCAGTGCAAGC	CC1
SMC25.T.AGCAGCCGTATATGAG	CC1
SMC25.T.AGCCTAATCACTTCAT	CC1
SMC25.T.AGCGTATAGATAGTCA	CC1
SMC25.T.AGCGTCGAGTGGGATC	CC1
SMC25.T.AGCTCTCCAGCTGTGC	CC1
SMC25.T.AGCTCTCGTAGCACGA	CC1
SMC25.T.AGGCCACGTCCAGTAT	CC1
SMC25.T.AGGGAGTTCCGTACAA	CC1
SMC25.T.AGGTCCGAGTGGGATC	CC1
SMC25.T.AGTCTTTCACCGTTGG	CC1
SMC25.T.AGTCTTTGTTCTGTTT	CC1
SMC25.T.AGTGTCAAGTAATCCC	CC1
SMC25.T.ATAACGCAGGTGACCA	CC1
SMC25.T.ATAACGCTCAATCTCT	CC1
SMC25.T.ATCATCTAGACAAAGG	CC1
SMC25.T.ATCATGGCAGACGCCT	CC1
SMC25.T.ATCATGGTCGGTGTCTG	CC1
SMC25.T.ATCATGGTCTGGAGCC	CC1
SMC25.T.ATCGAGTCATTGGGCC	CC1
SMC25.T.ATCTACTCAACTGGCC	CC1
SMC25.T.ATCTACTCACTGTCGG	CC1
SMC25.T.ATCTACTCAGCTCGCA	CC1
SMC25.T.ATGAGGGCAGACAAGC	CC1
SMC25.T.ATGCGATCATAGAAAC	CC1
SMC25.T.ATGGGAGCATCACGTA	CC1
SMC25.T.ATGTGTGTCTTGTATC	CC1
SMC25.T.ATTACTCGTCAGAAGC	CC1
SMC25.T.ATTATCCTCCGCATAA	CC1
SMC25.T.ATTGGACCATAAAGGT	CC1
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SMC25.T.CAAGATCGTTGCGCAC	CC1
SMC25.T.CAAGATCTCACCATAG	CC1
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SMC25.T.CACAAACCATTTCACT	CC1
SMC25.T.CACAAACGTATAGGGC	CC1
SMC25.T.CACACAAAGAACAATC	CC1
SMC25.T.CACACCTGTCCGTGAC	CC1
SMC25.T.CACACCTGTGAAAGAG	CC1
SMC25.T.CACACTCGTCACTTCC	CC1
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SMC25.T.CACCTTGAGATCTGCT	CC1
SMC25.T.CACCTTGCAATCCGAT	CC1
SMC25.T.CAGAATCCAATAGCGG	CC1

SMC25.T.CAGATCACATGTAGTC	CC1
SMC25.T.CAGCATAAGTGAATTG	CC2
SMC25.T.CAGCATAACAAGGTTTC	CC1
SMC25.T.CAGCATAACAGTGAGTG	CC1
SMC25.T.CAGCCGAGTCGCATAT	CC1
SMC25.T.CAGCCGAGTTCGTCTC	CC1
SMC25.T.CAGCCGATCGAAACT	CC1
SMC25.T.CAGCCGATCTCTTGAT	CC1
SMC25.T.CAGCTAAAGCCCAGCT	CC1
SMC25.T.CAGCTGGCAGCTGCTG	CC1
SMC25.T.CAGGTGCAGGTAAACT	CC2
SMC25.T.CAGGTGCGTCGCATAT	CC1
SMC25.T.CATATTCTCTTGAGAC	CC1
SMC25.T.CATCAGACAATGTAAG	CC1
SMC25.T.CATCCACAGATCGGGT	CC2
SMC25.T.CATCCACGTCTCAACA	CC1
SMC25.T.CATCGAAGTTTGTTGG	CC1
SMC25.T.CATGACACATATACCG	CC1
SMC25.T.CATGGCGGTTTCGCTAA	CC1
SMC25.T.CATTATCAGGTAGCCA	CC1
SMC25.T.CATTATCGTACCCAAT	CC1
SMC25.T.CCAATCCGTCGAATCT	CC1
SMC25.T.CCATGTCTCGAATGGG	CC1
SMC25.T.CCATGTCTCGACAGCC	CC1
SMC25.T.CCATTGACACAAGACG	CC1
SMC25.T.CCCAATCTCTTATCTG	CC1
SMC25.T.CCCTCCTTCATGGTCA	CC1
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SMC25.T.CCGGGATAGCGGCTTC	CC1
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SMC25.T.CGAACATAGTCCGTAT	CC1
SMC25.T.CGAATGTCAACGATGG	CC1
SMC25.T.CGAATGTCATGAGCGA	CC1
SMC25.T.CGACCTTTCTTCCTTC	CC1
SMC25.T.CGATGGCGTACCGGCT	CC1
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SMC25.T.CGATTGATCGACCAGC	CC1
SMC25.T.CGCCAAGTCCAACCAA	CC1
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SMC25.T.CGCTTCAGTAGCGATG	CC1
SMC25.T.CGGACACAGGCAGTCA	CC1
SMC25.T.CGGACGTTCTTCCTTC	CC1
SMC25.T.CGGACTGGTGGTAACG	CC1
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SMC25.T.CGGCTAGAGACTACAA	CC1
SMC25.T.CGGCTAGGTCCGAATT	CC1

SMC25.T.CGGTTAACATGCCTAA	CC1
SMC25.T.CGGTTAAGTCTAAAGA	CC2
SMC25.T.CGTAGGCAGTATCGAA	CC2
SMC25.T.CGTCCATTACATAGC	CC1
SMC25.T.CGTCTACAGTAGATGT	CC1
SMC25.T.CGTTAGATCGAACTGT	CC1
SMC25.T.CGTTGGGCAGGCAGTA	CC1
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SMC25.T.CTAATGGGTTATGTGC	CC1
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SMC25.T.CTCACACGTATTCGTG	CC1
SMC25.T.CTCAGAACAAGGCTCC	CC1
SMC25.T.CTCCTAGCAAGCTGAG	CC1
SMC25.T.CTCGAAACACCGAAAG	CC1
SMC25.T.CTCGAGGCATCTACGA	CC1
SMC25.T.CTCGGAGAGCGTAATA	CC1
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SMC25.T.CTCTACGGTCAATGTC	CC1
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SMC25.T.CTGATAGGTCCTACT	CC1
SMC25.T.CTGATAGGTTGCGTTA	CC1
SMC25.T.CTGCTGTGTATTACCG	CC1
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SMC25.T.CTGTTTACAGCTCCGA	CC1
SMC25.T.CTTACCGGTCATCGGC	CC1
SMC25.T.CTTCTCTCAATTCCTT	CC1
SMC25.T.CTTCTCTCATCGATGT	CC2
SMC25.T.CTTCTCTTCTGCTGCT	CC1
SMC25.T.GAAACTCAGAATGTGT	CC1
SMC25.T.GAAACTCAGACTAAGT	CC1
SMC25.T.GAAACTCCATGCCTAA	CC1
SMC25.T.GAAATGAGTTTGGCGC	CC1
SMC25.T.GAAATGATCGATCCCT	CC1
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SMC25.T.GAAGCAGGTAAATGAC	CC1
SMC25.T.GAAGCAGTCAGAGCTT	CC1
SMC25.T.GAAGCAGTCGCTTAGA	CC1
SMC25.T.GAATAAGAGAGTCGGT	CC1
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SMC25.T.GACTACACAGGCGATA	CC1

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SMC25.T.GATCAGTCATGGTCAT	CC1
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SMC25.T.GATCTAGCAGTATGCT	CC2
SMC25.T.GATGAAACATGTCCTC	CC1
SMC25.T.GATGAAATCTGTCTCG	CC1
SMC25.T.GATGAGGAGCCGGTAA	CC1
SMC25.T.GATGAGGTCTGGTTCC	CC1
SMC25.T.GATTCAGGTCGGCACT	CC1
SMC25.T.GATTCAGGTTCCATGA	CC1
SMC25.T.GCAAACACGGTGTC	CC1
SMC25.T.GCAATCAAGAGTACCG	CC1
SMC25.T.GCACTCTCACGACTCG	CC1
SMC25.T.GCAGCCAGTTCCTCCA	CC1
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SMC25.T.GCATGATGTCTGGAGA	CC1
SMC25.T.GCATGATGTGTCGCTG	CC1
SMC25.T.GCATGTAGTAGCTTGT	CC2
SMC25.T.GCATGTATCACTTCAT	CC1
SMC25.T.GCATGTATCTTCGAGA	CC1
SMC25.T.GCCAAATCATTGCCC	CC1
SMC25.T.GCGAGAATCTGGAGCC	CC1
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SMC25.T.GCGCAGTAGTCACGCC	CC2
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SMC25.T.GGACAAGTCTACTATC	CC1
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SMC25.T.GGAGCAAAGGCTAGCA	CC1
SMC25.T.GGAGCAAAGTTAAGGGC	CC1
SMC25.T.GGAGCAATCCCTCAGT	CC2
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SMC25.T.GGCGACTGTTGTGGAG	CC1
SMC25.T.GGCGTGTCTGAGTGT	CC1

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SMC25.T.GTGTTAGCAGACACTT	CC1
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SMC25.T.GTTACAGAGGGATCTG	CC1
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SMC25.T.GTTACAGTCGCCAGCA	CC1
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SMC25.T.GTTCTCGAGAGTAATC	CC1
SMC25.T.GTTCTCGCATTACGAC	CC1
SMC25.T.GTTTCTAGTGACAAAT	CC1
SMC25.T.TAAACCGAGTGGGATC	CC1
SMC25.T.TAAGAGAGTTGTGGAG	CC1
SMC25.T.TACACGATCCACGCAG	CC1
SMC25.T.TACAGTGAGAGCTGGT	CC1
SMC25.T.TACCTTAGTAATCGTC	CC1
SMC25.T.TACCTTATCATTGGG	CC1
SMC25.T.TACGGATTCTCGAGTA	CC1
SMC25.T.TACGGTAAGGGAGTAA	CC1
SMC25.T.TAGACCATCCTGTACC	CC1
SMC25.T.TAGAGCTCACAGGCCT	CC1
SMC25.T.TAGAGCTTCAGTCAGT	CC1
SMC25.T.TAGAGCTTCTCACATT	CC1
SMC25.T.TAGCCGGCAAGAGTCG	CC1
SMC25.T.TAGGCATAGAGTCGGT	CC1

SMC25.T.TAGGCATAGGATGTAT	CC2
SMC25.T.TAGGCATGTTCCACTC	CC1
SMC25.T.TAGTGGTAGATCGGGT	CC1
SMC25.T.TAGTTGGTCAAGAAGT	CC1
SMC25.T.TATGCCAGTTACGGG	CC1
SMC25.T.TATTACCGTGTGTTGTG	CC1
SMC25.T.TATTACCTACCCGAG	CC1
SMC25.T.TATTACCTCTGGTGTA	CC1
SMC25.T.TCAACGAAGGCAGTCA	CC1
SMC25.T.TCACGAACATCCTTGC	CC1
SMC25.T.TCACGAAGTAAATGAC	CC1
SMC25.T.TCAGCTCCATTAACCG	CC2
SMC25.T.TCATTTGAGATGTTAG	CC1
SMC25.T.TCCCGATGTAGCGTGA	CC1
SMC25.T.TCGAGGCAGAACTCGG	CC1
SMC25.T.TCGCGAGCAAGAGTCG	CC1
SMC25.T.TCGCGAGGTCTGAATCT	CC1
SMC25.T.TCGCGTTTCCGAGCCA	CC1
SMC25.T.TCGGGACCATATACGC	CC2
SMC25.T.TCGTACCCACAGACAG	CC1
SMC25.T.TCGTAGACAGCCTGTG	CC1
SMC25.T.TCGTAGATCTTCGAGA	CC1
SMC25.T.TCTATTGTCATTATCC	CC1
SMC25.T.TCTCATAAGGCTCAGA	CC1
SMC25.T.TCTCTAAAGTACGTAA	CC1
SMC25.T.TCTCTAACATCGTCGG	CC1
SMC25.T.TCTGAGACACGTCTCT	CC1
SMC25.T.TCTGAGACATCACGAT	CC1
SMC25.T.TCTGGAACAGTGGAGT	CC1
SMC25.T.TCTTCGGGTCTCCCTA	CC1
SMC25.T.TCTTTCCAGCGTCTAT	CC2
SMC25.T.TCTTTCCGTAGCGTCC	CC1
SMC25.T.TCTTTCCCTCTACCAGA	CC1
SMC25.T.TCTTTCCCTCTGGCGTG	CC1
SMC25.T.TGACAACAGCGTGAGT	CC1
SMC25.T.TGACAACCACTGTGTA	CC1
SMC25.T.TGACAACGTTTACTCT	CC1
SMC25.T.TGACTTTTCAACTCTT	CC1
SMC25.T.TGAGAGGAGAATTCCC	CC1
SMC25.T.TGAGAGGAGTGGAGTC	CC1
SMC25.T.TGAGAGGTCAACTCTT	CC1
SMC25.T.TGAGCATTCTCTGTCTG	CC1
SMC25.T.TGAGCCGTCTGTTTG	CC1
SMC25.T.TGCGCAGTCTGGTATG	CC1
SMC25.T.TGCGTGGGTCAATACC	CC1
SMC25.T.TGCTACCGTATAATGG	CC1
SMC25.T.TGGACGCGTGGTGTAG	CC1
SMC25.T.TGGCTGGAGATCCTGT	CC1
SMC25.T.TGGGAAGAGACCCACC	CC1
SMC25.T.TGGGAAGCAGGCTCAC	CC1
SMC25.T.TGGTTAGGTTACAGAA	CC1
SMC25.T.TGGTTCCGTTTACGGCC	CC1
SMC25.T.TGTGGTAAGTGGTCCC	CC1
SMC25.T.TGTTCCGTCTTGCCA	CC1
SMC25.T.TTAACTCTCAAACCGT	CC1
SMC25.T.TTAGGCACACAGAGGT	CC1
SMC25.T.TTAGGCAGTTTGTGTG	CC1
SMC25.T.TTAGTTCCAATAACGA	CC1

SMC25.T.TTCTACATCTTAGAGC	CC1
SMC25.T.TTCTCAAAGGTTTCCTA	CC1
SMC25.T.TTCTCAACATAGACTC	CC1
SMC25.T.TTCTCCTGTTAGATGA	CC1
SMC25.T.TTGAACGAGGCGACAT	CC1
SMC25.T.TTGAACGGTATGCTTG	CC1
SMC25.T.TTGAACCGAGGTATG	CC1
SMC25.T.TTGAACGTCAACTGT	CC1
SMC25.T.TTGTAGGGTCATATGC	CC1
SMC25.T.TTTGCGCAGACACGAC	CC1
SMC25.T.TTTGCGCCATGGAATA	CC1
SMC25.T.TTTGGTTGTAGGGTAC	CC2
SMC25.T.TTTGTCAAGAGGGATA	CC2

Table S4. The annotation of single cells

cell name	annotation
KUL01.T_AAACCTGGTCTTTCAT	CC2
KUL01.T_AAACGGGTCGGTTAAC	CC2
KUL01.T_AAAGATGGTATAGGGC	CC1
KUL01.T_AAAGATGGTGGCCCTA	CC2
KUL01.T_AAAGCAAGTAAACACA	CC2
KUL01.T_AAAGCAATCACATGCA	CC2
KUL01.T_AAAGTAGTCCGTCATC	CC2
KUL01.T_AAATGCCAGTCGTTTG	CC2
KUL01.T_AAATGCCAGTGACTCT	CC2
KUL01.T_AAATGCCACAGTCGC	CC2
KUL01.T_AAATGCCTCAAACCAC	CC2
KUL01.T_AAATGCCTCAACCATG	CC2
KUL01.T_AAATGCCTCCCTCAGT	CC2
KUL01.T_AACACGTCACGTCTCT	CC2
KUL01.T_AACACGTCAGGTTTCA	CC2
KUL01.T_AACACGTGTACAGTTC	CC2
KUL01.T_AACACGTGTCATGCAT	CC1
KUL01.T_AACCATGAGCAGCCTC	CC2
KUL01.T_AACCATGGTAAATACG	CC2
KUL01.T_AACCGCGCAATGAATG	CC2
KUL01.T_AACGTTGGTCAAAGAT	CC2
KUL01.T_AACTCAGAGCTAGTTC	CC2
KUL01.T_AACTCTTTCACAAACC	CC2
KUL01.T_AACTGGTCAGTGACAG	CC2
KUL01.T_AACTTTCCACTTACGA	CC2
KUL01.T_AACTTTCCATACCATG	CC2
KUL01.T_AACTTTCGTGTGAAAT	CC2
KUL01.T_AAGACCTAGAGGGATA	CC2
KUL01.T_AAGACCTAGGAGCGTT	CC2
KUL01.T_AAGACCTAGTCATCCA	CC1
KUL01.T_AAGACCTGTACTCTCC	CC2
KUL01.T_AAGGCAGAGAGTAATC	CC2
KUL01.T_AAGGCAGTCAACACAC	CC2
KUL01.T_AAGGCAGTCTGAAAGA	CC2
KUL01.T_AAGTCTGAGGGCATGT	CC1
KUL01.T_AAGTCTGCACTTGGAT	CC2
KUL01.T_AATCCAGAGATGGGTC	CC2
KUL01.T_AATCCAGGTTCTCATT	CC2
KUL01.T_AATCGGTTCAACCACCT	CC1
KUL01.T_ACACCAAAGAACAACCT	CC2
KUL01.T_ACACCGGTGCAGTAG	CC2
KUL01.T_ACACCGGTCCCATTAT	CC2
KUL01.T_ACACTGAGTAATCACC	CC2
KUL01.T_ACAGCCGCACCAACCG	CC2
KUL01.T_ACAGCCGCAGCTCCGA	CC1
KUL01.T_ACAGCCGTCTACCTGC	CC1
KUL01.T_ACAGCTAAGGAGTAGA	CC2
KUL01.T_ACAGCTAGTTGTCTTT	CC2
KUL01.T_ACATACGAGAAGGCCT	CC2
KUL01.T_ACATACGAGTCCCACG	CC2
KUL01.T_ACATACGCAGCTGTTA	CC2
KUL01.T_ACATACGTCCACGTTC	CC1
KUL01.T_ACATCAGTCCTATTCA	CC2
KUL01.T_ACATGGTTTCGCGGATC	CC1
KUL01.T_ACCCACTGTAGGCATG	CC2
KUL01.T_ACCGTAAGTCAAACCTC	CC2

KUL01.T_ACCGTAAGTTACTGAC	CC2
KUL01.T_ACCTTTACTACTACAGT	CC1
KUL01.T_ACGAGGACACGGATAG	CC2
KUL01.T_ACGATGTAGTCCAGGA	CC2
KUL01.T_ACGATGTGTCTAGTGT	CC2
KUL01.T_ACGCAGCAGGTGTTAA	CC2
KUL01.T_ACGCAGCTCAGGTTC	CC2
KUL01.T_ACGCCAGGTTAGTGGG	CC2
KUL01.T_ACGCCAGTCACATACG	CC2
KUL01.T_ACGCCGAAGCCCGAAA	CC1
KUL01.T_ACGGAGAGTGCACCAC	CC2
KUL01.T_ACGGCCAGTTCTGAAC	CC2
KUL01.T_ACGGGCTTCGATAGAA	CC2
KUL01.T_ACGTCAAAGCGAGAAA	CC2
KUL01.T_ACTATCTCACGCATCG	CC2
KUL01.T_ACTATCTCATACAAC	CC2
KUL01.T_ACTATCTTCTTCTGGC	CC2
KUL01.T_ACTGAACAGGCTACGA	CC2
KUL01.T_ACTGAACGTGACTACT	CC2
KUL01.T_ACTGAGTAGTAAGTAC	CC2
KUL01.T_ACTGAGTCAATGGAAT	CC2
KUL01.T_ACTGAGTCACCGAATT	CC2
KUL01.T_ACTGAGTTCACAACGT	CC2
KUL01.T_ACTGAGTTCGCCATAA	CC2
KUL01.T_ACTGATGGTAAACGCG	CC2
KUL01.T_ACTGATGGTATAAACG	CC2
KUL01.T_ACTGATGGTCTAGCGC	CC2
KUL01.T_ACTGCTCCAAATACAG	CC2
KUL01.T_ACTGCTCCAATCTGCA	CC2
KUL01.T_ACTGCTCCACGCGAAA	CC2
KUL01.T_ACTGCTCGTGACAAAT	CC2
KUL01.T_ACTGCTCGTTCGTGAT	CC2
KUL01.T_ACTGTCCCAGTGTAG	CC2
KUL01.T_ACTGTCCCAGGACGTA	CC2
KUL01.T_ACTTACTCAATCTGCA	CC1
KUL01.T_ACTTACTCACCGTTGG	CC2
KUL01.T_ACTTACTGTGAGGGAG	CC2
KUL01.T_ACTTGTTAGCTATGCT	CC2
KUL01.T_ACTTTCAAGACAAGCC	CC2
KUL01.T_AGAATAGAGACTCGGA	CC2
KUL01.T_AGAATAGCAATACGCT	CC2
KUL01.T_AGAATAGCACAGGAGT	CC2
KUL01.T_AGAATAGGTATAAACG	CC2
KUL01.T_AGAATAGGTCATCCCT	CC2
KUL01.T_AGACGTTGTTGACGTT	CC1
KUL01.T_AGAGCGACAGGATCGA	CC2
KUL01.T_AGAGCGAGTCGAACAG	CC2
KUL01.T_AGAGTGGTCAGTGCAT	CC1
KUL01.T_AGATCTGCAATGGAGC	CC2
KUL01.T_AGATTGCCACGAAACG	CC2
KUL01.T_AGATTGCGTACCGTAT	CC2
KUL01.T_AGATTGCTCACTCCTG	CC1
KUL01.T_AGCAGCCAGAGAGCTC	CC2
KUL01.T_AGCCTAACACACAGAG	CC2
KUL01.T_AGCCTAAGTCGCGGTT	CC2
KUL01.T_AGCGGTCCATAAAGGT	CC2
KUL01.T_AGCGGTCTCTTGAGAC	CC2
KUL01.T_AGCGTATCATATACCG	CC2

KUL01.T_AGCGTCGAGAACTGTA	CC2
KUL01.T_AGCTCTCAGACTGGGT	CC2
KUL01.T_AGCTCTCCACACGCTG	CC1
KUL01.T_AGCTCTCGTCGGATCC	CC1
KUL01.T_AGCTCTCTCGCGTTTC	CC2
KUL01.T_AGCTTGACATTTCACT	CC2
KUL01.T_AGCTTGAGTTCTGAAC	CC1
KUL01.T_AGCTTGATCTCACATT	CC2
KUL01.T_AGGCCACTCAGAGGTG	CC2
KUL01.T_AGGCCACTCCACTCCA	CC2
KUL01.T_AGGGAGTGTTCGGCA	CC2
KUL01.T_AGGGATGGTGGCTCCA	CC2
KUL01.T_AGGGATGTCTACTCAT	CC2
KUL01.T_AGGGTGATCTCACATT	CC2
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KUL01.T_AGGTCCGAGGCTCAGA	CC2
KUL01.T_AGGTCCGTCGGAGCAA	CC2
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KUL01.T_AGTAGTCTCAAAGACA	CC2
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KUL01.T_AGTCTTTGTGCATCTA	CC2
KUL01.T_AGTCTTTTCGTGACAT	CC1
KUL01.T_AGTGAGGAGCGATAGC	CC1
KUL01.T_AGTGAGGGTAGCCTAT	CC2
KUL01.T_AGTGAGGTCGGAAATA	CC2
KUL01.T_AGTGTCAGTCTCCACT	CC1
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KUL01.T_AGTTGGTCAGGGATTG	CC2
KUL01.T_AGTTGGTGTTACGTCA	CC2
KUL01.T_ATAACGCCAGAGTGTG	CC2
KUL01.T_ATAAGAGGTACGCTGC	CC2
KUL01.T_ATAAGAGGTTATCCGA	CC1
KUL01.T_ATAAGAGGTTTGTGG	CC2
KUL01.T_ATAAGAGTCAAACCGT	CC2
KUL01.T_ATAAGAGTCTCCAACC	CC2
KUL01.T_ATCACGACATTTGCTT	CC2
KUL01.T_ATCACGATCAGTTCGA	CC1
KUL01.T_ATCATCTTCGTGACAT	CC2
KUL01.T_ATCATGGCACGTCAGC	CC2
KUL01.T_ATCATGGGTACAGTGG	CC2
KUL01.T_ATCATGGTCCTAGTGA	CC1
KUL01.T_ATCATGGTCCTGCTTG	CC2
KUL01.T_ATCCACCGTATTCTCT	CC1
KUL01.T_ATCCGAATCACATACG	CC2
KUL01.T_ATCGAGTTCAAAGACA	CC2
KUL01.T_ATCTACTAGCTCCCAG	CC2
KUL01.T_ATCTACTCAAACCTAC	CC2
KUL01.T_ATGCGATAGTGTACTC	CC1
KUL01.T_ATGCGATTCCCGGATG	CC2
KUL01.T_ATGGGAGTCACCTCGT	CC1
KUL01.T_ATGGGAGTCTACTTAC	CC2
KUL01.T_ATGTGTGAGGACAGAA	CC2
KUL01.T_ATTACTCAGTCGATAA	CC2
KUL01.T_ATTATCCCACCGCTAG	CC2
KUL01.T_ATTATCCGTGGCCCTA	CC2
KUL01.T_ATTCTACAGCTGCGAA	CC2
KUL01.T_ATTCTACCACCTGGTG	CC2

KUL01.T_ATTGGACAGATAGCAT	CC2
KUL01.T_ATTGGTGCAAAGGCGT	CC2
KUL01.T_ATTGGTGGTTAGAACA	CC2
KUL01.T_ATTGGTGTCGCATGAT	CC2
KUL01.T_CAACCTCTCAGGTAAG	CC2
KUL01.T_CAACCTCTCTCGAGTA	CC2
KUL01.T_CACACAACAGTTCATG	CC2
KUL01.T_CACACAAGTAAGTTCC	CC1
KUL01.T_CACACAAGTGTGAATA	CC2
KUL01.T_CACACCTCAATGGTCT	CC2
KUL01.T_CACACTCTCCGCAAGC	CC2
KUL01.T_CACAGTAGTCCTCTTG	CC2
KUL01.T_CACATTTCAATGGAGC	CC2
KUL01.T_CACCACTGTAGCGCAA	CC2
KUL01.T_CACCACTGTGGTACAG	CC2
KUL01.T_CACCAGGAGCGATCCC	CC2
KUL01.T_CACCTTGTCTATGTGG	CC2
KUL01.T_CACTCCACACGTAAGG	CC2
KUL01.T_CAGAGAGGTTTACTCT	CC2
KUL01.T_CAGATCAGTCATATCG	CC2
KUL01.T_CAGATCATCTCTTATG	CC2
KUL01.T_CAGCAGCCATGGGAAC	CC2
KUL01.T_CAGCAGCTCCTGCAGG	CC2
KUL01.T_CAGCATAGTCTCTTAT	CC2
KUL01.T_CAGCCGAAGAAACGCC	CC2
KUL01.T_CAGCCGAGTTATGCGT	CC1
KUL01.T_CAGCCGATCGTAGGTT	CC2
KUL01.T_CAGCGACAGAGCTATA	CC1
KUL01.T_CAGCGACGTAGCACGA	CC2
KUL01.T_CAGCGACGTCTCTTAT	CC2
KUL01.T_CAGCGACTCACCACCT	CC1
KUL01.T_CAGCGACTCGATGAGG	CC2
KUL01.T_CAGCGACTCTCAACTT	CC2
KUL01.T_CAGCTAAGTCTAACGT	CC2
KUL01.T_CAGCTAAGTGTTTCGAT	CC2
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KUL01.T_CAGTAACAGCGGCTTC	CC2
KUL01.T_CAGTAACAGGCGATAC	CC2
KUL01.T_CATATGGGTGTTCTTT	CC2
KUL01.T_CATATGGTCCGTTGTC	CC2
KUL01.T_CATATGGTCGCCAGCA	CC2
KUL01.T_CATATGGTCTTTAGTC	CC2
KUL01.T_CATATTCGTTACTGAC	CC2
KUL01.T_CATCAAGCAGGTCGTC	CC2
KUL01.T_CATCAAGCATCGGAAG	CC2
KUL01.T_CATCAGAGTAAGAGGA	CC2
KUL01.T_CATCCACGTGTTCTTT	CC2
KUL01.T_CATCCACGTTTCATGGT	CC2
KUL01.T_CATCGAAGTATAGGGC	CC2
KUL01.T_CATGACAAGGCTAGGT	CC2
KUL01.T_CATGACAAGTCGTAAT	CC2
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KUL01.T_CATGCCTGTTATTCTC	CC2
KUL01.T_CATGGCGCACCATCCT	CC2
KUL01.T_CATTATCCAGTAAGCG	CC2
KUL01.T_CCAATCCAGTGCCAGA	CC2

KUL01.T_CCACCTAAGCGTAATA	CC1
KUL01.T_CCACTACAGACGACGT	CC2
KUL01.T_CCACTACAGCGCCTCA	CC2
KUL01.T_CCACTACGTATGAAAC	CC2
KUL01.T_CCACTACTCGTCACGG	CC2
KUL01.T_CCAGCGAAGAAGCCCA	CC1
KUL01.T_CCAGCGAGTAGCCTCG	CC2
KUL01.T_CCATGTCTCGGTCCGA	CC2
KUL01.T_CCATTCGAGCTAACTC	CC2
KUL01.T_CCATTCGCACCGATAT	CC2
KUL01.T_CCATTCGTCACTGGGC	CC2
KUL01.T_CCCAGTTAGAATAGGG	CC1
KUL01.T_CCCAGTTAGCTAGTCT	CC2
KUL01.T_CCCAGTTGTCCGTCAG	CC2
KUL01.T_CCCATACTCTCACATT	CC2
KUL01.T_CCCTCCTAGGCTAGGT	CC2
KUL01.T_CCCTCCTTCTTGTTTG	CC2
KUL01.T_CCGGGATAGTGATCGG	CC2
KUL01.T_CCGGGATAGTTTCCTT	CC2
KUL01.T_CCGGTAGCATGGGAAC	CC2
KUL01.T_CCGGTAGTCCACGAAT	CC2
KUL01.T_CCGTACTCACATCCGG	CC2
KUL01.T_CCGTTCAAGAGGACGG	CC2
KUL01.T_CCTAAAGGTCGACTGC	CC2
KUL01.T_CCTAAAGGTTCTGTGAT	CC2
KUL01.T_CCTAAAGTCTTAACCT	CC2
KUL01.T_CCTACACCATCGGGTC	CC1
KUL01.T_CCTACCAGTCGGCTCA	CC2
KUL01.T_CCTACCAGTTCAGACT	CC2
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KUL01.T_CCTAGCTAGTGTACTC	CC2
KUL01.T_CCTAGCTGTATATCCG	CC2
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KUL01.T_CCTCTGAAGAGTTGGC	CC2
KUL01.T_CCTCTGATCCTAGAAC	CC2
KUL01.T_CCTTACGCAGGGTATG	CC2
KUL01.T_CCTTACGCATACTACG	CC2
KUL01.T_CCTTACGGTAGAAGGA	CC2
KUL01.T_CCTTACGTCCGCCGAT	CC2
KUL01.T_CCTTCCCTCTAACTCT	CC2
KUL01.T_CCTTCGAAGGACTGGT	CC2
KUL01.T_CCTTCGAGTGAGTATA	CC2
KUL01.T_CCTTCGAGTTCGAATC	CC1
KUL01.T_CCTTTCTCAGCGTCCA	CC2
KUL01.T_CCTTTCTGTCCGAAGA	CC2
KUL01.T_CCTTTCTGTGTGGCTC	CC2
KUL01.T_CGAACATAGTCAAGCG	CC2
KUL01.T_CGAACATGTGCATCTA	CC2
KUL01.T_CGAATGTCAATACGCT	CC2
KUL01.T_CGACTTCAGATATGCA	CC2
KUL01.T_CGACTTCAGGCTAGAC	CC2
KUL01.T_CGACTTCTCTATGTGG	CC2
KUL01.T_CGAGAAGCAGGAATCG	CC2
KUL01.T_CGAGCACAGCCACGCT	CC2
KUL01.T_CGAGCACTCGTTTAGG	CC2
KUL01.T_CGAGCCACAGCAGTTT	CC2
KUL01.T_CGAGCCACAGTATGCT	CC2
KUL01.T_CGAGCCATCGACAGCC	CC2

KUL01.T_CGATCGGCAATCAGAA	CC2
KUL01.T_CGATCGGTCCTTGCCA	CC2
KUL01.T_CGATGGCAGATCGGGT	CC2
KUL01.T_CGATTGAAGCTCCCAG	CC2
KUL01.T_CGATTGATCCACGAAT	CC2
KUL01.T_CGATTGATCTGGCGAC	CC2
KUL01.T_CGCCAAGAGTCCTCCT	CC2
KUL01.T_CGCGGTATCAACTCTT	CC2
KUL01.T_CGCGTTTAGCGCTTAT	CC2
KUL01.T_CGCTATCTCACCTCA	CC1
KUL01.T_CGCTGGACATAGTAAG	CC2
KUL01.T_CGCTGGAGTGGTCTCG	CC2
KUL01.T_CGCTGGATCAGCCTAA	CC2
KUL01.T_CGCTTCAGTCGAGTTT	CC2
KUL01.T_CGGACACCAAGGACAC	CC2
KUL01.T_CGGACACGTTATGCGT	CC1
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KUL01.T_CGGAGCTGTAATCGTC	CC2
KUL01.T_CGGAGCTGTTGGGACA	CC2
KUL01.T_CGGAGCTTCGCCATAA	CC1
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KUL01.T_CGGCTAGTCCTCATTA	CC2
KUL01.T_CGGGTCACAAGAAAGG	CC2
KUL01.T_CGGGTCATCGGTCCGA	CC1
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KUL01.T_CGGTTAATCTGACCTC	CC2
KUL01.T_CGTAGCGGTAGCGATG	CC2
KUL01.T_CGTAGCGTCAGGCCCA	CC2
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KUL01.T_CGTAGGCGTCGACTGC	CC2
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KUL01.T_CGTCACTCATCCTTGC	CC2
KUL01.T_CGTCTACAGATGAGAG	CC2
KUL01.T_CGTGAGCAGACCGGAT	CC2
KUL01.T_CGTGTAAAGCGAAGGG	CC2
KUL01.T_CGTGTCTCACGGACAA	CC2
KUL01.T_CGTTAGATCAAGATCC	CC2
KUL01.T_CGTTCTGGTATAATGG	CC2
KUL01.T_CGTTGGGAGCCGTCGT	CC2
KUL01.T_CGTTGGGGTCGCTTTC	CC2
KUL01.T_CTAACCTAGCTCTCGG	CC2
KUL01.T_CTAAGACAGTGGAGTC	CC2
KUL01.T_CTAATGGAGGTGCACA	CC1
KUL01.T_CTACATTCAATCTACG	CC2
KUL01.T_CTACATTCAGTCACTA	CC2
KUL01.T_CTACCCATCGACCAGC	CC1
KUL01.T_CTACGTCCAGGATCGA	CC2
KUL01.T_CTAGAGTCATACGCTA	CC2
KUL01.T_CTAGAGTGTACTCAAC	CC2
KUL01.T_CTAGTGAAGCTACCTA	CC1
KUL01.T_CTAGTGAGTATGAATG	CC2
KUL01.T CTCACACGTAGCCTAT	CC2
KUL01.T CTCACACGTCTGCTT	CC2
KUL01.T CTCACACGTGCACCAC	CC2

KUL01.T_CTCACACGTGTATGGG	CC2
KUL01.T_CTCAGAAAGTGGTAAT	CC1
KUL01.T_CTCATTACATACCATG	CC2
KUL01.T_CTCGAAACAGTAACGG	CC2
KUL01.T_CTCGAAAGTGCAGGTA	CC2
KUL01.T_CTCGAAATCAACTCTT	CC2
KUL01.T_CTCGAAATCTAACTGG	CC2
KUL01.T_CTCGAGGGTAGCTCCG	CC2
KUL01.T_CTCGAGGGTTAAGATG	CC2
KUL01.T_CTCGAGGTCATGGTCA	CC2
KUL01.T_CTCGGAGAGCGATGAC	CC2
KUL01.T_CTCGGAGCACTAGTAC	CC2
KUL01.T_CTCGGAGTCCCGGATG	CC2
KUL01.T_CTCGGGACAATCGGTT	CC1
KUL01.T_CTCGGGAGTACGAAAT	CC2
KUL01.T_CTCGTACCAATCCGAT	CC2
KUL01.T_CTCGTCAAGGCTAGGT	CC2
KUL01.T_CTCTAATAGGCGATAC	CC2
KUL01.T_CTCTACGCAGACAAAT	CC2
KUL01.T_CTCTACGGTTCCCTTG	CC2
KUL01.T_CTCTACGTCATTTGGG	CC2
KUL01.T_CTGAAACGTATATCCG	CC2
KUL01.T_CTGAAACTCCAGTAGT	CC2
KUL01.T_CTGAAGTAGCGGCTTC	CC1
KUL01.T_CTGATAGCAGTACACT	CC1
KUL01.T_CTGATCCCATTGAGCT	CC2
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KUL01.T_CTGCGGAAGTGGTAAT	CC2
KUL01.T_CTGCGGAGTGGTCCGT	CC2
KUL01.T_CTGCGGAGTTGATTGC	CC2
KUL01.T_CTGCGGATCCCTTGTG	CC1
KUL01.T_CTGTTTAAGCGCCTCA	CC2
KUL01.T_CTGTTTAAGTGGCACA	CC2
KUL01.T_CTGTTTACAGGACGTA	CC1
KUL01.T_CTTAACTCAGCGTAAG	CC2
KUL01.T_CTTACCGCAAGCGATG	CC2
KUL01.T_CTTACCGTCAACGGCC	CC2
KUL01.T_CTTACCGTCCCGACTT	CC2
KUL01.T_CTTACCGTCTACCTGC	CC2
KUL01.T_CTTAGGAAGAGTAAGG	CC2
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KUL01.T_CTTCTCTGTGCCTGGT	CC2
KUL01.T_CTTCTCTGTGTAAGTA	CC2
KUL01.T_CTTCTCTTCATCGATG	CC2
KUL01.T_CTTCTCTTCCGTACAA	CC2
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KUL01.T_CTTTGCGGTCTTGATG	CC2
KUL01.T_GAAACTCAGGGATGGG	CC2
KUL01.T_GAAACTCCACCAGGCT	CC2
KUL01.T_GAAATGAAGGTACTION	CC2
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KUL01.T_GAACCTAAGTAAGTAC	CC2
KUL01.T_GAACGGACAGCGTAAG	CC2
KUL01.T_GAACGGATCTGATTCT	CC1
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KUL01.T_GAATAAGCAGTAGAGC	CC2

KUL01.T_GAATAAGGTGAGGCTA	CC2
KUL01.T_GAATGAAAGGTGCACA	CC2
KUL01.T_GAATGAACATGTTCGAT	CC2
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KUL01.T_GACACGCAGTTAACGA	CC2
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KUL01.T_GACAGAGCAGGGTATG	CC2
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KUL01.T_GACCTGGAGGCAATTA	CC2
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KUL21.T_CTTAACTGTAAGGGAA	CC2
KUL21.T_CTTAACTGTCCTTTG	CC2
KUL21.T_CTTACCGAGCGTTGCC	CC1
KUL21.T_CTTACCGAGTAGCGGT	CC1
KUL21.T_CTTACCGGTTTAGGAA	CC1
KUL21.T_CTTACCGTCTCTGCTG	CC2
KUL21.T_CTTAGGACAGCCTATA	CC1
KUL21.T_CTTAGGACAGTCCCT	CC1
KUL21.T_CTTAGGAGTTAAGAAC	CC1
KUL21.T_CTTCTCTAGATGTGGC	CC1
KUL21.T_CTTCTCTGTAGCGCAA	CC2
KUL21.T_CTTCTCTTCATCGATG	CC2
KUL21.T_CTTGGCTCATTCTGC	CC1
KUL21.T_CTTGGCTTCCTAGAAC	CC2
KUL21.T_CTTTGCGAGAATCTCC	CC1
KUL21.T_CTTTGCGCAATCCAAC	CC1
KUL21.T_GAAACTCAGATCTGAA	CC2
KUL21.T_GAAACTCAGTTACGGG	CC1
KUL21.T_GAAACTCGTAAGCACG	CC2
KUL21.T_GAAATGAGTGACTACT	CC1
KUL21.T_GAACATCGTATGAATG	CC2
KUL21.T_GAACCTAAGGCTAGGT	CC2
KUL21.T_GAACCTATCCAACTG	CC2
KUL21.T_GAACGGATCCACGAAT	CC1
KUL21.T_GAACGGATCTGCTGCT	CC1
KUL21.T_GAATAAGGTCGAAAGC	CC1
KUL21.T_GAATAAGTCGCGATCG	CC1
KUL21.T_GAATGAAAGTGTACCT	CC2
KUL21.T_GAATGAACAGCGATCC	CC2
KUL21.T_GAATGAACAGCTATTG	CC2
KUL21.T_GACACGCGTGATGTCT	CC1
KUL21.T_GACAGAGAGGATCGCA	CC1
KUL21.T_GACAGAGCAGACAGGT	CC2
KUL21.T_GACAGAGTCAGCTCGG	CC2
KUL21.T_GACCAATAGCTACCGC	CC1
KUL21.T_GACCAATCAGGATTGG	CC2
KUL21.T_GACCAATTCAAGGCTT	CC1
KUL21.T_GACCTGGGTTACCGAT	CC1
KUL21.T_GACGCGTAGGCATTGG	CC2
KUL21.T_GACGGCTCATGAAGTA	CC2
KUL21.T_GACGGCTGTCCGAGTC	CC2

KUL21.T_GACGTGCTCCTACAGA	CC2
KUL21.T_GACGTTAAGGCAATTA	CC2
KUL21.T_GACGTTAGTCTAGTCA	CC1
KUL21.T_GACGTTATCGCAAGCC	CC1
KUL21.T_GACGTTATCGCGCCAA	CC1
KUL21.T_GACTAACAGCTGTTCA	CC2
KUL21.T_GACTACAGTCAGAAGC	CC2
KUL21.T_GACTGCGTCTTCAACT	CC1
KUL21.T_GAGCAGAAGAAACGAG	CC2
KUL21.T_GAGTCCGGTAGCTTGT	CC1
KUL21.T_GATCGATGTGACTACT	CC1
KUL21.T_GATCGCGGTATTCTGTG	CC1
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KUL21.T_GATCTAGAGTGACTCT	CC1
KUL21.T_GATGAAAAGATGGCGT	CC2
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KUL30.T_CGCTTCATCTAACTGG	CC2
KUL30.T_CGGAGTCGTGTCGCTG	CC1
KUL30.T_CGTAGGCAGATCCCGC	CC2
KUL30.T_CTACCCAGTGATAAAC	CC1
KUL30.T_CTCGAGGAGGCTAGCA	CC1
KUL30.T_CTCGTCAGTTCTCATT	CC1
KUL30.T_CTCTACGTCGGAAACG	CC1
KUL30.T_CTGCTGTGTGATGCC	CC1
KUL30.T_GAGTCCGCACGACGAA	CC1
KUL30.T_GCACATAAGAGGTACC	CC1

KUL30.T_GCCTCTAAGCTCCCAG	CC1
KUL30.T_GCGCGATTTCGTTACGA	CC2
KUL30.T_GGACGTCAGTAGTGCG	CC1
KUL30.T_GGGAATGTCACGATGT	CC2
KUL30.T_GGGCACTTCTCGGACG	CC2
KUL30.T_GGGTTGCTCTCGGACG	CC2
KUL30.T_GGTGTTAGTCTGGTCTG	CC1
KUL30.T_GTCAAGTGTCCGCTGA	CC1
KUL30.T_GTCTTCGTCAAGGTAA	CC1
KUL30.T_GTGGGTCTGACCAAGTT	CC2
KUL30.T_TAAACCGCAAAGTCTGCT	CC1
KUL30.T_TAGCCGGCATCGGACC	CC2
KUL30.T_TATCAGGGTCAACAG	CC1
KUL30.T_TATCTCATCATTTGGG	CC1
KUL30.T_TCAACGAGTCCAGTAT	CC1
KUL30.T_TCGAGGCTCGGATGTT	CC1
KUL30.T_TGAGCCGTCTCGATGA	CC2
KUL30.T_TGAGCCGTCTTACCTA	CC1
KUL30.T_TGCCAAACAGGCGATA	CC1
KUL30.T_TGGACGCCAAGTTCTG	CC1
KUL30.T_TGGCTGGAGTATCTCG	CC1
KUL30.T_TGGTTAGTCCGTACAA	CC1
KUL30.T_TTCTCAATCATAACCG	CC2
KUL30.T_TTGCCGTTTCGATAGAA	CC1
KUL30.T_TTGCGTCAGCACGCCT	CC2
KUL30.T_TTGAACCAAGTAGAGC	CC1
KUL30.T_TTTGGTTAGGACGAAA	CC1
KUL31.T_AACACGTGTCATCCCT	CC1
KUL31.T_AACTCAGGTCAACATC	CC1
KUL31.T_AAGCCGCAGTGTCCAT	CC1
KUL31.T_AATCGGTAGTCCCACG	CC1
KUL31.T_ACGCCGAGTAAACACA	CC1
KUL31.T_ACTTTCACATGCATGT	CC2
KUL31.T_AGAGCGAGTCGACTGC	CC1
KUL31.T_AGAGCTTTCCTACTCCA	CC1
KUL31.T_ATCACGATCTACCAGA	CC1
KUL31.T_ATCCACCTCGGAGCAA	CC1
KUL31.T_CACAGTACAAGCCTAT	CC1
KUL31.T_CACCACTGTGCAACGA	CC1
KUL31.T_CACTCCAGTACATCCA	CC1
KUL31.T_CAGGTGCAGGTGCACA	CC1
KUL31.T_CATCCACTCTATCCCG	CC2
KUL31.T_CCATTTCGGTAGCGTGA	CC1
KUL31.T_CCTCAGTAGACATAAC	CC1
KUL31.T_CGCCAAGTCCAGGGCT	CC1
KUL31.T_CGGAGCTCACTGTCCG	CC1
KUL31.T_CGTGAGCAGGAGTAGA	CC1
KUL31.T_CTAATGGAGCTTTGGT	CC1
KUL31.T_CTCGGAGCATTTGCC	CC1
KUL31.T_CTGAAACAGTGTACGG	CC1
KUL31.T_GAAATGATCCTTGGTC	CC1
KUL31.T_GAACGGATCCTGCTTG	CC1
KUL31.T_GATCGTAGTAAGTAGT	CC1
KUL31.T_GCATGCGTCAGTTCGA	CC1
KUL31.T_GTAGTCAAGTCTCGGC	CC1
KUL31.T_GTATCTTCAAGAGTCG	CC1
KUL31.T_TAAACCGAGGTGATAT	CC1
KUL31.T_TAGCCGGTCAAGTCTG	CC1

KUL31.T_TATCAGGCACGAAAGC	CC1
KUL31.T_TCAGATGTCCTTTACA	CC1
KUL31.T_TCTTTCCCAGCGTTCG	CC1
KUL31.T_TGACAACTCACTCTTA	CC1
KUL31.T_TGCTGCTCATCCAACA	CC2
KUL31.T_TGTTCCGCATGCTAGT	CC1
KUL31.T_TTCTTAGCATTCTTAC	CC1
KUL31.T_TTGAACGTCGGGAGTA	CC1
KUL31.T_TTGACTTGTAACACA	CC1
KUL31.T_TTGACTTGTTATCACG	CC1

Table S5. TCGA gene clusters and genes A-C

samples	NMF clusters	Gene clusters
TCGA.A6.5656.01	CC1	Gene cluster A
TCGA.A6.5659.01	CC1	Gene cluster A
TCGA.A6.5662.01	CC1	Gene cluster A
TCGA.A6.5667.01	CC1	Gene cluster A
TCGA.A6.A56B.01	CC1	Gene cluster A
TCGA.AA.A01X.01	CC1	Gene cluster A
TCGA.AF.3911.01	CC1	Gene cluster A
TCGA.AF.4110.01	CC1	Gene cluster A
TCGA.AH.6643.01	CC1	Gene cluster A
TCGA.AM.5820.01	CC1	Gene cluster A
TCGA.CA.5797.01	CC1	Gene cluster A
TCGA.CA.6716.01	CC1	Gene cluster A
TCGA.CM.4747.01	CC1	Gene cluster A
TCGA.CM.5344.01	CC1	Gene cluster A
TCGA.CM.6164.01	CC1	Gene cluster A
TCGA.CM.6165.01	CC1	Gene cluster A
TCGA.CM.6678.01	CC1	Gene cluster A
TCGA.D5.6922.01	CC1	Gene cluster A
TCGA.D5.6924.01	CC1	Gene cluster A
TCGA.D5.6926.01	CC1	Gene cluster A
TCGA.DC.6681.01	CC1	Gene cluster A
TCGA.DC.6683.01	CC1	Gene cluster A
TCGA.DY.A1DD.01	CC1	Gene cluster A
TCGA.DY.A1DF.01	CC1	Gene cluster A
TCGA.EI.6514.01	CC1	Gene cluster A
TCGA.EI.6883.01	CC1	Gene cluster A
TCGA.EI.7002.01	CC1	Gene cluster A
TCGA.F4.6463.01	CC1	Gene cluster A
TCGA.F4.6854.01	CC1	Gene cluster A
TCGA.F5.6571.01	CC1	Gene cluster A
TCGA.F5.6814.01	CC1	Gene cluster A
TCGA.F5.6861.01	CC1	Gene cluster A
TCGA.F5.6863.01	CC1	Gene cluster A
TCGA.F5.6864.01	CC1	Gene cluster A
TCGA.G4.6303.01	CC1	Gene cluster A
TCGA.G4.6310.01	CC1	Gene cluster A
TCGA.NH.A8F8.01	CC1	Gene cluster A
TCGA.QG.A5Z1.01	CC1	Gene cluster A
TCGA.A6.6649.01	CC2	Gene cluster A
TCGA.AD.5900.01	CC2	Gene cluster A
TCGA.A6.2684.01	CC3	Gene cluster A
TCGA.A6.2685.01	CC3	Gene cluster A
TCGA.A6.5657.01	CC3	Gene cluster A
TCGA.A6.5664.01	CC3	Gene cluster A
TCGA.A6.6651.01	CC3	Gene cluster A
TCGA.AF.2687.01	CC3	Gene cluster A
TCGA.AF.2690.01	CC3	Gene cluster A
TCGA.AG.4022.01	CC3	Gene cluster A
TCGA.AH.6644.01	CC3	Gene cluster A
TCGA.CA.6717.01	CC3	Gene cluster A
TCGA.CA.6719.01	CC3	Gene cluster A
TCGA.CK.6748.01	CC3	Gene cluster A
TCGA.CM.5348.01	CC3	Gene cluster A
TCGA.CM.5349.01	CC3	Gene cluster A
TCGA.CM.6167.01	CC3	Gene cluster A

TCGA.CM.6168.01	CC3	Gene cluster A
TCGA.CM.6679.01	CC3	Gene cluster A
TCGA.D5.6898.01	CC3	Gene cluster A
TCGA.DT.5265.01	CC3	Gene cluster A
TCGA.DY.A1DE.01	CC3	Gene cluster A
TCGA.EI.6885.01	CC3	Gene cluster A
TCGA.EI.7004.01	CC3	Gene cluster A
TCGA.F4.6459.01	CC3	Gene cluster A
TCGA.F4.6460.01	CC3	Gene cluster A
TCGA.F4.6461.01	CC3	Gene cluster A
TCGA.F4.6704.01	CC3	Gene cluster A
TCGA.F4.6805.01	CC3	Gene cluster A
TCGA.F4.6807.01	CC3	Gene cluster A
TCGA.F4.6809.01	CC3	Gene cluster A
TCGA.F5.6464.01	CC3	Gene cluster A
TCGA.F5.6465.01	CC3	Gene cluster A
TCGA.F5.6702.01	CC3	Gene cluster A
TCGA.F5.6812.01	CC3	Gene cluster A
TCGA.F5.6813.01	CC3	Gene cluster A
TCGA.G4.6302.01	CC3	Gene cluster A
TCGA.G4.6314.01	CC3	Gene cluster A
TCGA.G4.6627.01	CC3	Gene cluster A
TCGA.A6.5660.01	CC1	Gene cluster B
TCGA.AA.3496.01	CC1	Gene cluster B
TCGA.AA.3662.01	CC1	Gene cluster B
TCGA.AZ.4684.01	CC1	Gene cluster B
TCGA.CM.5868.01	CC1	Gene cluster B
TCGA.CM.6170.01	CC1	Gene cluster B
TCGA.D5.5541.01	CC1	Gene cluster B
TCGA.D5.6929.01	CC1	Gene cluster B
TCGA.D5.6932.01	CC1	Gene cluster B
TCGA.DC.6154.01	CC1	Gene cluster B
TCGA.DM.A1HA.01	CC1	Gene cluster B
TCGA.DM.A28A.01	CC1	Gene cluster B
TCGA.EI.6509.01	CC1	Gene cluster B
TCGA.G4.6304.01	CC1	Gene cluster B
TCGA.NH.A6GA.01	CC1	Gene cluster B
TCGA.NH.A6GC.01	CC1	Gene cluster B
TCGA.A6.2686.01	CC2	Gene cluster B
TCGA.A6.5661.01	CC2	Gene cluster B
TCGA.A6.5665.01	CC2	Gene cluster B
TCGA.A6.6138.01	CC2	Gene cluster B
TCGA.A6.6653.01	CC2	Gene cluster B
TCGA.A6.6780.01	CC2	Gene cluster B
TCGA.AA.3492.01	CC2	Gene cluster B
TCGA.AA.3506.01	CC2	Gene cluster B
TCGA.AA.3663.01	CC2	Gene cluster B
TCGA.AA.3713.01	CC2	Gene cluster B
TCGA.AA.A01P.01	CC2	Gene cluster B
TCGA.AA.A02K.01	CC2	Gene cluster B
TCGA.AD.6548.01	CC2	Gene cluster B
TCGA.AD.6889.01	CC2	Gene cluster B
TCGA.AD.6895.01	CC2	Gene cluster B
TCGA.AD.A5EJ.01	CC2	Gene cluster B
TCGA.AF.6655.01	CC2	Gene cluster B
TCGA.AG.3902.01	CC2	Gene cluster B
TCGA.AM.5821.01	CC2	Gene cluster B
TCGA.AU.6004.01	CC2	Gene cluster B

TCGA.AZ.4315.01	CC2	Gene cluster B
TCGA.AZ.4615.01	CC2	Gene cluster B
TCGA.BM.6198.01	CC2	Gene cluster B
TCGA.CA.5254.01	CC2	Gene cluster B
TCGA.CA.6718.01	CC2	Gene cluster B
TCGA.CK.4948.01	CC2	Gene cluster B
TCGA.CK.4951.01	CC2	Gene cluster B
TCGA.CK.4952.01	CC2	Gene cluster B
TCGA.CK.5913.01	CC2	Gene cluster B
TCGA.CK.6751.01	CC2	Gene cluster B
TCGA.CM.4743.01	CC2	Gene cluster B
TCGA.CM.4751.01	CC2	Gene cluster B
TCGA.CM.5860.01	CC2	Gene cluster B
TCGA.CM.5861.01	CC2	Gene cluster B
TCGA.CM.5863.01	CC2	Gene cluster B
TCGA.CM.6162.01	CC2	Gene cluster B
TCGA.CM.6169.01	CC2	Gene cluster B
TCGA.CM.6171.01	CC2	Gene cluster B
TCGA.CM.6674.01	CC2	Gene cluster B
TCGA.CM.6675.01	CC2	Gene cluster B
TCGA.CM.6680.01	CC2	Gene cluster B
TCGA.D5.5538.01	CC2	Gene cluster B
TCGA.D5.5539.01	CC2	Gene cluster B
TCGA.D5.6529.01	CC2	Gene cluster B
TCGA.D5.6530.01	CC2	Gene cluster B
TCGA.D5.6531.01	CC2	Gene cluster B
TCGA.D5.6535.01	CC2	Gene cluster B
TCGA.D5.6536.01	CC2	Gene cluster B
TCGA.D5.6540.01	CC2	Gene cluster B
TCGA.D5.6541.01	CC2	Gene cluster B
TCGA.D5.6928.01	CC2	Gene cluster B
TCGA.D5.6930.01	CC2	Gene cluster B
TCGA.D5.6931.01	CC2	Gene cluster B
TCGA.D5.7000.01	CC2	Gene cluster B
TCGA.DC.6158.01	CC2	Gene cluster B
TCGA.DM.A1HB.01	CC2	Gene cluster B
TCGA.DM.A280.01	CC2	Gene cluster B
TCGA.DM.A28K.01	CC2	Gene cluster B
TCGA.EI.6511.01	CC2	Gene cluster B
TCGA.EI.6917.01	CC2	Gene cluster B
TCGA.F4.6570.01	CC2	Gene cluster B
TCGA.F5.6811.01	CC2	Gene cluster B
TCGA.G4.6297.01	CC2	Gene cluster B
TCGA.G4.6299.01	CC2	Gene cluster B
TCGA.G4.6311.01	CC2	Gene cluster B
TCGA.G4.6586.01	CC2	Gene cluster B
TCGA.G4.6588.01	CC2	Gene cluster B
TCGA.G4.6628.01	CC2	Gene cluster B
TCGA.NH.A50V.01	CC2	Gene cluster B
TCGA.NH.A5IV.01	CC2	Gene cluster B
TCGA.A6.2675.01	CC3	Gene cluster B
TCGA.A6.6142.01	CC3	Gene cluster B
TCGA.A6.6654.01	CC3	Gene cluster B
TCGA.A6.6781.01	CC3	Gene cluster B
TCGA.A6.6782.01	CC3	Gene cluster B
TCGA.A6.A5ZU.01	CC3	Gene cluster B
TCGA.AA.3489.01	CC3	Gene cluster B
TCGA.AD.6899.01	CC3	Gene cluster B

TCGA.AD.6901.01	CC3	Gene cluster B
TCGA.AD.6964.01	CC3	Gene cluster B
TCGA.AG.3731.01	CC3	Gene cluster B
TCGA.AG.4021.01	CC3	Gene cluster B
TCGA.AH.6547.01	CC3	Gene cluster B
TCGA.D5.6534.01	CC3	Gene cluster B
TCGA.DC.6156.01	CC3	Gene cluster B
TCGA.EI.6507.01	CC3	Gene cluster B
TCGA.F4.6569.01	CC3	Gene cluster B
TCGA.F4.6703.01	CC3	Gene cluster B
TCGA.F4.6855.01	CC3	Gene cluster B
TCGA.G4.6625.01	CC3	Gene cluster B
TCGA.WS.AB45.01	CC3	Gene cluster B
TCGA.3L.AA1B.01	CC1	Gene cluster C
TCGA.4N.A93T.01	CC1	Gene cluster C
TCGA.4T.AA8H.01	CC1	Gene cluster C
TCGA.5M.AATE.01	CC1	Gene cluster C
TCGA.A6.5666.01	CC1	Gene cluster C
TCGA.A6.6140.01	CC1	Gene cluster C
TCGA.A6.6648.01	CC1	Gene cluster C
TCGA.A6.6652.01	CC1	Gene cluster C
TCGA.AA.3509.01	CC1	Gene cluster C
TCGA.AA.3511.01	CC1	Gene cluster C
TCGA.AA.3660.01	CC1	Gene cluster C
TCGA.AA.3675.01	CC1	Gene cluster C
TCGA.AD.6888.01	CC1	Gene cluster C
TCGA.AD.6890.01	CC1	Gene cluster C
TCGA.AD.6965.01	CC1	Gene cluster C
TCGA.AD.A5EK.01	CC1	Gene cluster C
TCGA.AF.6136.01	CC1	Gene cluster C
TCGA.AF.6672.01	CC1	Gene cluster C
TCGA.AF.A56L.01	CC1	Gene cluster C
TCGA.AF.A56N.01	CC1	Gene cluster C
TCGA.AG.3732.01	CC1	Gene cluster C
TCGA.AH.6544.01	CC1	Gene cluster C
TCGA.AH.6549.01	CC1	Gene cluster C
TCGA.AH.6897.01	CC1	Gene cluster C
TCGA.AH.6903.01	CC1	Gene cluster C
TCGA.AY.A54L.01	CC1	Gene cluster C
TCGA.AY.A69D.01	CC1	Gene cluster C
TCGA.AY.A71X.01	CC1	Gene cluster C
TCGA.AY.A8YK.01	CC1	Gene cluster C
TCGA.CA.5255.01	CC1	Gene cluster C
TCGA.CA.5256.01	CC1	Gene cluster C
TCGA.CA.6715.01	CC1	Gene cluster C
TCGA.CI.6619.01	CC1	Gene cluster C
TCGA.CI.6620.01	CC1	Gene cluster C
TCGA.CI.6622.01	CC1	Gene cluster C
TCGA.CK.5912.01	CC1	Gene cluster C
TCGA.CK.5915.01	CC1	Gene cluster C
TCGA.CL.4957.01	CC1	Gene cluster C
TCGA.CL.5917.01	CC1	Gene cluster C
TCGA.CL.5918.01	CC1	Gene cluster C
TCGA.CM.5864.01	CC1	Gene cluster C
TCGA.CM.6161.01	CC1	Gene cluster C
TCGA.CM.6163.01	CC1	Gene cluster C
TCGA.CM.6166.01	CC1	Gene cluster C
TCGA.CM.6172.01	CC1	Gene cluster C

TCGA.CM.6676.01	CC1	Gene cluster C
TCGA.D5.5537.01	CC1	Gene cluster C
TCGA.D5.5540.01	CC1	Gene cluster C
TCGA.D5.6532.01	CC1	Gene cluster C
TCGA.D5.6533.01	CC1	Gene cluster C
TCGA.D5.6538.01	CC1	Gene cluster C
TCGA.D5.6923.01	CC1	Gene cluster C
TCGA.DC.4745.01	CC1	Gene cluster C
TCGA.DC.4749.01	CC1	Gene cluster C
TCGA.DC.5869.01	CC1	Gene cluster C
TCGA.DC.6155.01	CC1	Gene cluster C
TCGA.DC.6157.01	CC1	Gene cluster C
TCGA.DC.6682.01	CC1	Gene cluster C
TCGA.DM.A1D0.01	CC1	Gene cluster C
TCGA.DM.A1D4.01	CC1	Gene cluster C
TCGA.DM.A1D6.01	CC1	Gene cluster C
TCGA.DM.A1D7.01	CC1	Gene cluster C
TCGA.DM.A1D8.01	CC1	Gene cluster C
TCGA.DM.A1D9.01	CC1	Gene cluster C
TCGA.DM.A282.01	CC1	Gene cluster C
TCGA.DM.A288.01	CC1	Gene cluster C
TCGA.DM.A28C.01	CC1	Gene cluster C
TCGA.DM.A28E.01	CC1	Gene cluster C
TCGA.DM.A28F.01	CC1	Gene cluster C
TCGA.DM.A28G.01	CC1	Gene cluster C
TCGA.DM.A28H.01	CC1	Gene cluster C
TCGA.DY.A0XA.01	CC1	Gene cluster C
TCGA.DY.A1H8.01	CC1	Gene cluster C
TCGA.EF.5830.01	CC1	Gene cluster C
TCGA.EF.5831.01	CC1	Gene cluster C
TCGA.EI.6508.01	CC1	Gene cluster C
TCGA.EI.6512.01	CC1	Gene cluster C
TCGA.EI.6513.01	CC1	Gene cluster C
TCGA.EI.6881.01	CC1	Gene cluster C
TCGA.F4.6806.01	CC1	Gene cluster C
TCGA.F4.6808.01	CC1	Gene cluster C
TCGA.G4.6307.01	CC1	Gene cluster C
TCGA.G4.6315.01	CC1	Gene cluster C
TCGA.G4.6317.01	CC1	Gene cluster C
TCGA.G5.6235.01	CC1	Gene cluster C
TCGA.G5.6641.01	CC1	Gene cluster C
TCGA.NH.A50T.01	CC1	Gene cluster C
TCGA.NH.A8F7.01	CC1	Gene cluster C
TCGA.QG.A5YV.01	CC1	Gene cluster C
TCGA.QG.A5YX.01	CC1	Gene cluster C
TCGA.QL.A97D.01	CC1	Gene cluster C
TCGA.RU.A8FL.01	CC1	Gene cluster C
TCGA.SS.A7HO.01	CC1	Gene cluster C
TCGA.T9.A92H.01	CC1	Gene cluster C
TCGA.A6.6137.01	CC2	Gene cluster C
TCGA.A6.6141.01	CC2	Gene cluster C
TCGA.A6.6650.01	CC2	Gene cluster C
TCGA.AA.3495.01	CC2	Gene cluster C
TCGA.AA.3502.01	CC2	Gene cluster C
TCGA.AA.3526.01	CC2	Gene cluster C
TCGA.AA.3655.01	CC2	Gene cluster C
TCGA.AA.3685.01	CC2	Gene cluster C
TCGA.AA.3697.01	CC2	Gene cluster C

TCGA.AA.3712.01	CC2	Gene cluster C
TCGA.AA.A01Z.01	CC2	Gene cluster C
TCGA.AA.A02Y.01	CC2	Gene cluster C
TCGA.AD.6963.01	CC2	Gene cluster C
TCGA.AF.2693.01	CC2	Gene cluster C
TCGA.AF.5654.01	CC2	Gene cluster C
TCGA.AF.A56K.01	CC2	Gene cluster C
TCGA.AG.3591.01	CC2	Gene cluster C
TCGA.AG.3592.01	CC2	Gene cluster C
TCGA.AG.3725.01	CC2	Gene cluster C
TCGA.AG.3742.01	CC2	Gene cluster C
TCGA.AY.5543.01	CC2	Gene cluster C
TCGA.AY.6197.01	CC2	Gene cluster C
TCGA.AY.6386.01	CC2	Gene cluster C
TCGA.AZ.4313.01	CC2	Gene cluster C
TCGA.AZ.5407.01	CC2	Gene cluster C
TCGA.CA.5796.01	CC2	Gene cluster C
TCGA.CI.6621.01	CC2	Gene cluster C
TCGA.CI.6623.01	CC2	Gene cluster C
TCGA.CI.6624.01	CC2	Gene cluster C
TCGA.CK.4947.01	CC2	Gene cluster C
TCGA.CK.4950.01	CC2	Gene cluster C
TCGA.CK.5914.01	CC2	Gene cluster C
TCGA.CK.6747.01	CC2	Gene cluster C
TCGA.CM.4744.01	CC2	Gene cluster C
TCGA.CM.6677.01	CC2	Gene cluster C
TCGA.D5.6537.01	CC2	Gene cluster C
TCGA.D5.6539.01	CC2	Gene cluster C
TCGA.D5.6920.01	CC2	Gene cluster C
TCGA.DC.5337.01	CC2	Gene cluster C
TCGA.DC.6160.01	CC2	Gene cluster C
TCGA.DM.A0X9.01	CC2	Gene cluster C
TCGA.DM.A1DA.01	CC2	Gene cluster C
TCGA.DM.A1DB.01	CC2	Gene cluster C
TCGA.DM.A28M.01	CC2	Gene cluster C
TCGA.EI.6506.01	CC2	Gene cluster C
TCGA.EI.6510.01	CC2	Gene cluster C
TCGA.EI.6882.01	CC2	Gene cluster C
TCGA.EI.6884.01	CC2	Gene cluster C
TCGA.F4.6856.01	CC2	Gene cluster C
TCGA.G4.6293.01	CC2	Gene cluster C
TCGA.G4.6295.01	CC2	Gene cluster C
TCGA.G4.6306.01	CC2	Gene cluster C
TCGA.G4.6309.01	CC2	Gene cluster C
TCGA.G4.6320.01	CC2	Gene cluster C
TCGA.G4.6321.01	CC2	Gene cluster C
TCGA.G4.6322.01	CC2	Gene cluster C
TCGA.G4.6323.01	CC2	Gene cluster C
TCGA.NH.A6GB.01	CC2	Gene cluster C
TCGA.QG.A5YW.01	CC2	Gene cluster C
TCGA.QG.A5Z2.01	CC2	Gene cluster C

Table S5. meta-GEO gene clusters :

meta-GEO samples	Gene clusters
GSM358341	C
GSM358342	C
GSM358343	B
GSM358344	C
GSM358345	C
GSM358346	A
GSM358347	C
GSM358348	C
GSM358349	C
GSM358350	C
GSM358351	C
GSM358352	C
GSM358353	B
GSM358354	B
GSM358355	B
GSM358356	C
GSM358357	C
GSM358358	B
GSM358359	A
GSM358360	B
GSM358361	B
GSM358362	B
GSM358363	C
GSM358364	B
GSM358365	C
GSM358366	B
GSM358367	B
GSM358368	C
GSM358370	C
GSM358371	C
GSM358373	B
GSM358374	B
GSM358375	B
GSM358376	C
GSM358377	B
GSM358378	C
GSM358380	C
GSM358381	C
GSM358382	A
GSM358383	C
GSM358384	A
GSM358385	A
GSM358386	A
GSM358387	B
GSM358388	B
GSM358389	A
GSM358390	A
GSM358391	B
GSM358392	A
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GSM358397	A
GSM358398	B

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GSM358400	C
GSM358401	C
GSM358402	B
GSM358403	C
GSM358404	B
GSM358405	A
GSM358406	B
GSM358407	A
GSM358408	A
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GSM358411	C
GSM358412	C
GSM358413	C
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GSM358415	B
GSM358416	A
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GSM358427	B
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GSM358492	A
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GSM972292	B
GSM972293	B
GSM972294	C

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GSM972301	C
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GSM972363	C
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GSM972483	A
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GSM972519	B
GSM972520	B
GSM972521	A
GSM972522	C

Table S5. TCGA gene clusters and genes /

DEGs overlapped	Genes A-C
TET1	genes A
VLDLR	genes A
DIRAS2	genes A
MUM1L1	genes A
RASL11B	genes A
TRAM1L1	genes A
DTNA	genes A
CC2D2A	genes A
TNFAIP8L3	genes A
GHR	genes A
ST6GAL2	genes A
CLSTN2	genes A
SNORD116-28	genes A
IPW	genes A
PAR-SN	genes A
ZNF415	genes A
ZNF134	genes A
ZNF471	genes A
ZSCAN18	genes A
FGF13	genes A
KL	genes A
TXLNB	genes A
DAB2	genes A
TGFBR2	genes A
KLF7	genes A
KIAA0355	genes A
MBD5	genes A
KIDINS220	genes A
BMPR2	genes A
RNF146	genes A
TSPYL4	genes A
NIPSNAP3B	genes A
RCBTB2	genes A
ODZ2	genes A
CGNL1	genes A
GPRASP2	genes A
NFASC	genes A
RAI2	genes A
ZNF167	genes A
ZNF569	genes A
ZNF287	genes A
GBGT1	genes A
MAGEE1	genes A
ZNF853	genes A
SMO	genes A
ZNF423	genes A
HDGFRP3	genes A
LOC285548	genes A
RAB9B	genes A
C11orf63	genes A
SEMA4C	genes A
CRY2	genes A
ZFHX3	genes A
SMTN	genes A
ZNF362	genes A

AKAP6	genes A
RBM20	genes A
	5-Sep genes A
BRSK1	genes A
PCDHGC3	genes A
CILP2	genes A
KIF7	genes A
TSPYL2	genes A
MECP2	genes A
PCP4L1	genes A
HRNBP3	genes A
C6orf168	genes A
CCDC136	genes A
LOC100128239	genes A
NCRNA00085	genes A
TF	genes A
SLC7A10	genes A
FNDC5	genes A
TERF2IP	genes A
CDH8	genes A
	7-Sep genes A
TMEM43	genes A
NXPH3	genes A
NPTXR	genes A
SPEG	genes A
AGTR1	genes A
GPRASP1	genes A
LIMS2	genes A
TCF7L1	genes A
MAP6	genes A
PDZD4	genes A
MPPED2	genes A
HSPB6	genes A
OGN	genes A
CDON	genes A
PCYT1B	genes A
DCHS2	genes A
C1orf95	genes A
ADCY5	genes A
ATP1A2	genes A
CASQ2	genes A
SYNM	genes A
MYH11	genes A
LMO3	genes A
HSPB7	genes A
CARTPT	genes A
ASB5	genes A
HAND1	genes A
CHRM2	genes A
NRSN1	genes A
KIF1A	genes A
FMN2	genes A
PGM5P2	genes A
PGM5	genes A
DDIT4L	genes A
DYNC111	genes A
WASF3	genes A
SORBS1	genes A

RBMS1	genes A
NRXN2	genes A
LGI4	genes A
PPP1R14A	genes A
HRC	genes A
SLC35F1	genes A
RGS5	genes A
FLJ22536	genes A
RPRM	genes A
TMEM35	genes A
ISLR2	genes A
ABCB4	genes A
ORAI2	genes A
MAPK8IP1	genes A
BCAM	genes A
RND2	genes A
WFIKKN2	genes A
LEFTY2	genes A
PTPRT	genes A
HLF	genes A
LOC643763	genes A
ABL2	genes A
STAT5B	genes A
NNAT	genes A
NRIP2	genes A
AASS	genes A
KCTD7	genes A
ZNF333	genes B
IGFL2	genes B
KLF2	genes B
ACTB	genes B
PLOD1	genes B
TREML3	genes B
DCBLD1	genes B
ANXA5	genes B
GUCA1A	genes B
IKBIP	genes B
TMEM45A	genes B
COL6A6	genes B
ALOX15B	genes B
ADAM8	genes B
VMO1	genes B
NFATC1	genes B
TGFB1	genes B
HAPLN3	genes B
SPHK1	genes B
AMZ1	genes B
CLEC4E	genes B
CCL18	genes B
C19orf59	genes B
KCNJ15	genes B
BCL2A1	genes B
TREM1	genes B
AQP9	genes B
CAMK1G	genes B
CHST11	genes B
FCGR2B	genes B
FCGR2C	genes B

CD14	genes B
FCGR2A	genes B
PILRA	genes B
C5AR1	genes B
LILRA6	genes B
LILRB3	genes B
HK3	genes B
NCF2	genes B
ITGAM	genes B
FGR	genes B
ITGAX	genes B
ALOX5AP	genes B
SIGLEC5	genes B
LILRA2	genes B
FPR1	genes B
CSF3R	genes B
MCHR1	genes B
MMP9	genes B
SPP1	genes B
MARCO	genes B
SLC11A1	genes B
CLEC5A	genes B
RGS16	genes B
SOCS3	genes B
OSM	genes B
CHSY1	genes B
STC1	genes B
SLC2A3	genes B
EMP3	genes B
LGALS1	genes B
NNMT	genes B
TSPAN4	genes B
PLEKHO1	genes B
GYPE	genes B
A4GALT	genes B
PTGIR	genes B
ALPK2	genes B
BCAT1	genes B
ADAM12	genes B
TNFAIP6	genes B
LOX	genes B
PRRX1	genes B
KCND2	genes B
MDGA1	genes B
HS3ST3A1	genes B
PDPN	genes B
PRR16	genes B
WISP1	genes B
GPR176	genes B
XIRP1	genes B
PLAU	genes B
NID2	genes B
ADAMTS2	genes B
ZNF469	genes B
COL5A3	genes B
ADAMTS4	genes B
SLC2A6	genes B
ZNF467	genes B

FAM167B	genes B
ESAM	genes B
SH2D3C	genes B
STARD8	genes B
CD93	genes B
CLEC1A	genes B
PECAM1	genes B
SCARF1	genes B
SEMA6B	genes B
ENG	genes B
DEGS1	genes B
TFPI	genes B
AIF1L	genes B
HOXC4	genes B
HOXC9	genes B
ANXA8L2	genes B
UNC5A	genes B
IRF1	genes B
NFIL3	genes B
FGFBP2	genes B
HRASLS5	genes B
VIT	genes B
PDE4DIP	genes B
FGF11	genes B
VAMP2	genes B
SMG6	genes B
WDR81	genes B
ABHD4	genes B
KLHL22	genes B
ADRB2	genes B
ARHGDI8	genes B
RNASE6	genes B
PDE6B	genes B
MAL	genes B
LTA	genes B
LTB	genes B
NAPSB	genes B
AMICA1	genes B
CLEC10A	genes B
RAB33A	genes B
ITM2A	genes B
CLIC2	genes B
GIMAP1	genes B
GIMAP5	genes B
GIMAP7	genes B
ARHGAP15	genes B
GGTA1	genes B
SLC9A9	genes B
BIN2	genes B
SIGLEC8	genes B
GZMK	genes B
PLA2G2D	genes B
TNFSF14	genes B
SPOCK2	genes B
ZNF831	genes B
GVIN1	genes B
KIAA0748	genes B
PPP1R16B	genes B

PRKCB	genes B
IL16	genes B
LY9	genes B
P2RY8	genes B
ABCD2	genes B
LOC100233209	genes B
TRAF3IP3	genes B
ARHGAP9	genes B
RASAL3	genes B
IL21R	genes B
CCR5	genes B
WDFY4	genes B
SELL	genes B
CR1	genes B
HLA-DQA1	genes B
FGD2	genes B
EVI2B	genes B
CD180	genes B
FYB	genes B
APBB1IP	genes B
DOCK10	genes B
ARHGAP25	genes B
KLHL6	genes B
RCSD1	genes B
C17orf87	genes B
STX11	genes B
IL10RA	genes B
NCKAP1L	genes B
SLA	genes B
PIK3R5	genes B
CD53	genes B
BTK	genes B
LILRB1	genes B
SIGLEC10	genes B
FAM78A	genes B
MYO1G	genes B
CYTH4	genes B
FMNL1	genes B
MYO1F	genes B
LCP1	genes B
WAS	genes B
HCLS1	genes B
ARHGAP30	genes B
DOCK2	genes B
ITGAL	genes B
SASH3	genes B
PTPRC	genes B
IKZF1	genes B
NCF1	genes B
LSP1	genes B
CD37	genes B
RHOH	genes B
TAGAP	genes B
TNFSF8	genes B
NCF1C	genes B
NCF1B	genes B
KLRG1	genes B
LOC254559	genes B

PTCRA	genes B
C17orf60	genes B
LILRA4	genes B
HLA-DQA2	genes B
HLA-DQB2	genes B
HLA-DPB2	genes B
CD52	genes B
CD48	genes B
GNGT2	genes B
HCST	genes B
GMFG	genes B
TNFAIP8L2	genes B
LST1	genes B
AIF1	genes B
PSTPIP1	genes B
LIMD2	genes B
FCRL6	genes B
LOC400759	genes B
IL18BP	genes B
ATP6V0D2	genes B
LIPA	genes B
SLC2A5	genes B
GM2A	genes B
HS3ST2	genes B
TREM2	genes B
APOE	genes B
APOC1	genes B
OSCAR	genes B
SLC1A3	genes B
OLR1	genes B
MSR1	genes B
GPNMB	genes B
CTSL1	genes B
C1orf162	genes B
FCGR1C	genes B
FCGR3A	genes B
FCGR1B	genes B
FCGR1A	genes B
PLD3	genes B
PSAP	genes B
KCNE1	genes B
CD68	genes B
CTSB	genes B
MRO	genes B
CPVL	genes B
TNNI2	genes B
BAI2	genes B
PLEKHF1	genes B
FLT3LG	genes B
NAGK	genes B
PPM1M	genes B
CACNA1A	genes B
MX2	genes B
RSAD2	genes B
DDX58	genes B
DRAM1	genes B
PPM1K	genes B
HOXB2	genes B

ERMN	genes B
RNF122	genes B
PDE10A	genes B
CD109	genes B
FBLN7	genes B
CALHM2	genes B
LOC400043	genes B
PDGFRL	genes B
DZIP1L	genes B
ARHGAP24	genes B
ARHGAP20	genes B
PLXDC2	genes B
PALLD	genes B
FYN	genes B
PLXND1	genes B
CHST15	genes B
PEAR1	genes B
C6orf204	genes B
DOCK8	genes B
TLR6	genes B
FZD2	genes B
ARHGAP22	genes B
MOBKL2A	genes B
S1PR2	genes B
RIMBP3	genes B
MAMLD1	genes B
EID3	genes B
NCRNA00181	genes B
NTRK1	genes B
CCDC88A	genes B
OPRL1	genes B
HSD17B14	genes B
HVCN1	genes B
LYL1	genes B
SPATC1	genes B
PLCB2	genes B
STAT2	genes B
NLRP1	genes B
C9orf139	genes B
HSPA7	genes B
CORO1A	genes B
SYTL3	genes B
CD72	genes B
GPSM3	genes B
MFNG	genes B
DOK3	genes B
PIK3CD	genes B
POU2F2	genes B
FERMT3	genes B
GPR132	genes B
SUCNR1	genes B
PLA2G7	genes B
CLEC4A	genes B
EVI2A	genes B
SRGN	genes B
SAMSN1	genes B
PDCD1LG2	genes B
MNDA	genes B

LCP2	genes B
PLEK	genes B
GPR65	genes B
C10orf128	genes B
KCNK13	genes B
GPR34	genes B
MS4A6A	genes B
MS4A4A	genes B
MS4A7	genes B
TLR8	genes B
CYBB	genes B
CD84	genes B
TFEC	genes B
CLEC7A	genes B
IGSF6	genes B
TLR1	genes B
PLXNC1	genes B
TLR7	genes B
MPEG1	genes B
CMKLR1	genes B
CD4	genes B
CSF1R	genes B
GPR141	genes B
	1-Mar
EMILIN2	genes B
PTAFR	genes B
CD300C	genes B
NLRP3	genes B
CASS4	genes B
FCN1	genes B
RASGRP4	genes B
HRH2	genes B
C1orf38	genes B
EMR2	genes B
MS4A14	genes B
SDS	genes B
CD300LB	genes B
DPEP2	genes B
LY86	genes B
PIK3R6	genes B
PRAM1	genes B
PARVG	genes B
EVL	genes B
ESR1	genes B
CECR1	genes B
SLC37A2	genes B
ZNF804A	genes B
SLC31A2	genes B
PDE6G	genes B
CLEC12A	genes B
KMO	genes B
RAB42	genes B
ADORA3	genes B
P2RX7	genes B
FAM20A	genes B
PLEKHO2	genes B
MRC1	genes B
VSIG4	genes B

CD33	genes B
CCR1	genes B
SIRPB2	genes B
LILRB2	genes B
SIGLEC9	genes B
LRRC25	genes B
SIGLEC7	genes B
CD163	genes B
C3AR1	genes B
FPR3	genes B
SIGLEC1	genes B
NLRC4	genes B
TNFSF13B	genes B
HLA-DPB1	genes B
HLA-DOA	genes B
SLC15A3	genes B
NFAM1	genes B
ADAP2	genes B
CD300A	genes B
CD300LF	genes B
HCK	genes B
SLAMF8	genes B
LAPTM5	genes B
ITGB2	genes B
SPI1	genes B
LAIR1	genes B
TYROBP	genes B
FCER1G	genes B
LILRB4	genes B
CD86	genes B
HAVCR2	genes B
TRPV2	genes B
ABI3	genes B
DOK2	genes B
C1QA	genes B
C1QB	genes B
C1QC	genes B
MATK	genes B
ACP5	genes B
DNAJC5B	genes B
STEAP4	genes B
LOC339524	genes B
CD36	genes B
SSTR2	genes B
CYTL1	genes B
NLRP12	genes B
STAC	genes B
CCL8	genes B
CCL7	genes B
DSE	genes B
RNASE2	genes B
GLIPR2	genes B
VAMP5	genes B
C1orf54	genes B
CLEC2B	genes B
LY96	genes B
NCRNA00189	genes B
IL4I1	genes B

ICAM1	genes B
JAK3	genes B
TNFRSF4	genes B
ADORA2A	genes B
TNFRSF8	genes B
SIRPB1	genes B
P2RY6	genes B
LILRA5	genes B
GPR84	genes B
ZNF385A	genes B
RGS19	genes B
MCTP1	genes B
LAT2	genes B
KIAA1949	genes B
ARL4C	genes B
RASGRF2	genes B
SPON1	genes B
ANXA1	genes B
RGS2	genes B
PNMA1	genes B
ATP8B3	genes B
ADCY7	genes B
PMP22	genes B
C10orf10	genes B
LOXL1	genes B
PRKCDBP	genes B
ABLIM3	genes B
MAPK11	genes B
KIFC3	genes B
GNAI2	genes B
MAP7D1	genes B
ANKRD34A	genes B
BCL6	genes B
SLC43A3	genes B
ITPRIPL2	genes B
TOX2	genes B
NFIC	genes B
C14orf49	genes B
CCL23	genes B
MFSD7	genes B
MCOLN1	genes B
ACP2	genes B
C10orf54	genes B
MGAT1	genes B
KLF9	genes B
AGPAT4	genes B
GLIS3	genes B
MFSD1	genes B
RNF144B	genes B
GPR137B	genes B
TCL1A	genes B
CLEC17A	genes B
FAIM3	genes B
TNFRSF13B	genes B
FCRL3	genes B
CD22	genes B
FCRLA	genes B
BLK	genes B

CXCR5	genes B
MS4A1	genes B
CD79B	genes B
TLR10	genes B
AFF2	genes B
TREML1	genes B
PER1	genes B
NR4A3	genes B
ITPRIP	genes B
SERPINE1	genes B
EGR3	genes B
SGK1	genes B
TNFAIP3	genes B
DUSP1	genes B
GPR183	genes B
RGS1	genes B
B4GALT1	genes B
KCTD11	genes B
EMP1	genes B
SEMA7A	genes B
PLEKHG1	genes B
KCTD12	genes B
PDE5A	genes B
ARSB	genes B
SLC16A7	genes B
TRAM2	genes B
ST5	genes B
AHNAK	genes B
AHDC1	genes B
GSN	genes B
C17orf107	genes B
SIDT2	genes B
ASAP3	genes B
RNF24	genes B
PPFIBP1	genes B
HTR1B	genes B
IFNAR2	genes B
TCN2	genes B
SLCO2B1	genes B
IL1RL1	genes B
CTSG	genes B
SIGLEC6	genes B
SIGLECP3	genes B
HDC	genes B
TPSAB1	genes B
TPSB2	genes B
CPA3	genes B
MS4A2	genes B
C1orf150	genes B
C1orf186	genes B
BEND4	genes B
CAMK4	genes B
CLEC9A	genes B
FLT3	genes B
KCND3	genes B
CCDC69	genes B
FAM65B	genes B
FAM55C	genes B

PIP4K2A	genes B
CCR7	genes B
CCL22	genes B
TNFRSF9	genes B
FOXP3	genes B
CCR8	genes B
SPN	genes B
CD28	genes B
CCR4	genes B
PRKAR2B	genes B
S100B	genes B
CCDC141	genes B
EPB41L3	genes B
SASH1	genes B
TIAM1	genes B
ROR1	genes B
STK10	genes B
TMEM140	genes B
RUNDC2A	genes B
LYST	genes B
KIAA0247	genes B
CYLD	genes B
GIT2	genes B
LOC257358	genes B
EMR4P	genes B
EMR1	genes B
CEBPE	genes B
CEACAM4	genes B
CFP	genes B
CLEC4G	genes B
CCL13	genes B
LILRB5	genes B
FOLR2	genes B
PDE4B	genes B
IL10	genes B
SLC24A4	genes B
CXCR4	genes B
SELPLG	genes B
RASSF5	genes B
CHI3L2	genes B
PLCG2	genes B
C16orf54	genes B
LRMP	genes B
STOM	genes B
ITGA1	genes B
AVPR1A	genes B
TRPC6	genes B
CAV1	genes B
STK32B	genes B
COL6A1	genes B
ITGA5	genes B
IRAK3	genes B
HHEX	genes B
CITED2	genes B
LHFPL2	genes B
TCP11L1	genes B
SWAP70	genes B
RAB8B	genes B

SNRK	genes B
CHST2	genes B
KCNN3	genes B
ZNF366	genes B
SFMBT2	genes B
STAB1	genes B
P2RY13	genes B
RGS18	genes B
ST8SIA4	genes B
ITGA4	genes B
CYSLTR1	genes B
CSF2RB	genes B
PIK3CG	genes B
ATP8B4	genes B
GAB3	genes B
CXorf21	genes B
CCR2	genes B
FGL2	genes B
CYSLTR2	genes B
GJD3	genes B
TMEM26	genes B
DOCK4	genes B
RASGRP3	genes B
NR3C1	genes B
GNG2	genes B
VCAM1	genes B
FAM49A	genes B
GIMAP4	genes B
GIMAP6	genes B
FLI1	genes B
GIMAP8	genes B
RASSF2	genes B
ARHGEF6	genes B
MYO5A	genes B
WIPF1	genes B
GPR77	genes B
CLEC4D	genes B
FCAR	genes B
CD300E	genes B
GPR97	genes B
GLT1D1	genes B
EMR3	genes B
LILRA1	genes B
FAM196B	genes B
PAPPA	genes B
APBA2	genes B
C3	genes B
BASP1	genes B
GPR68	genes B
MSC	genes B
SDK1	genes B
ETS1	genes B
ARHGAP31	genes B
SLFN11	genes B
HSD11B1	genes B
CCL2	genes B
CSF1	genes B
NRP1	genes B

DPYD	genes B
LRR8C	genes B
MSN	genes B
IL1R1	genes B
ATP8B2	genes B
ASAM	genes B
OSMR	genes B
COLEC12	genes B
VIM	genes B
RAB31	genes B
CFH	genes B
GNB4	genes B
ZEB2	genes B
MAFB	genes B
MAF	genes B
FUT11	genes B
LIMS1	genes B
SH2B3	genes B
PLBD2	genes B
MTIF2	genes C
OLA1	genes C
HSPE1	genes C
CCDC58	genes C
GPR35	genes C
DUS1L	genes C
TBRG4	genes C
LY6G6D	genes C
EBPL	genes C
KIF11	genes C
HNRNPF	genes C
PBK	genes C
RRM2	genes C
H2AFZ	genes C
CENPM	genes C
ORC1L	genes C
CDC20	genes C
PPA2	genes C
NDUFA9	genes C
PSMA5	genes C
PGAM5	genes C
SORD	genes C
CCNO	genes C
TMC5	genes C
CASP5	genes C
F2RL1	genes C

Table S6. Fersig score of different databases

samples	TCGA PC1 of genes A	TCGA PC1 of genes B
TCGA.3L.AA1B.01	6.106741023	0.533374706
TCGA.4N.A93T.01	-4.003593467	-5.882265235
TCGA.4T.AA8H.01	-5.088839373	-11.04406171
TCGA.5M.AATE.01	-0.88023619	-6.21739114
TCGA.A6.5656.01	2.252418895	-4.092000021
TCGA.A6.5659.01	4.681027345	-3.63126201
TCGA.A6.5660.01	-0.921547602	-1.05371654
TCGA.A6.5662.01	5.032663199	0.021882242
TCGA.A6.5666.01	-4.44594474	-7.244400768
TCGA.A6.5667.01	7.104003138	-1.800366602
TCGA.A6.6140.01	-2.860856999	-6.459034155
TCGA.A6.6648.01	-3.39725703	-7.94652783
TCGA.A6.6652.01	0.0194015	-3.948648302
TCGA.A6.A56B.01	3.554120817	0.09027404
TCGA.AA.3496.01	0.213615277	4.261033879
TCGA.AA.3509.01	-0.973032235	-1.452295053
TCGA.AA.3511.01	0.114176832	-0.977031466
TCGA.AA.3660.01	-0.443400259	-0.598829175
TCGA.AA.3662.01	0.666778463	3.491179044
TCGA.AA.3675.01	-3.948033571	-2.768542773
TCGA.AA.A01X.01	7.271196211	0.046633991
TCGA.AD.6888.01	-3.763744025	-6.71520917
TCGA.AD.6890.01	-1.792776229	-0.928164178
TCGA.AD.6965.01	-1.069447019	-1.858086372
TCGA.AD.A5EK.01	0.611075789	-4.633043268
TCGA.AF.3911.01	2.906688555	-0.369744072
TCGA.AF.4110.01	4.758278296	3.568795192
TCGA.AF.6136.01	-2.00597497	-6.311284676
TCGA.AF.6672.01	-0.166197322	-3.61045943
TCGA.AF.A56L.01	1.318026665	-0.239484987
TCGA.AF.A56N.01	0.589778126	-1.364676293
TCGA.AG.3732.01	2.683045617	-0.683470644
TCGA.AH.6544.01	-4.574626663	-9.11945896
TCGA.AH.6549.01	0.40364921	-0.808589357
TCGA.AH.6643.01	2.276623768	1.35370854
TCGA.AH.6897.01	-6.719275678	-10.45582888
TCGA.AH.6903.01	-0.251306905	-8.59831181
TCGA.AM.5820.01	4.247883091	-1.539574333
TCGA.AY.A54L.01	-4.877384839	-10.03260249
TCGA.AY.A69D.01	-2.370839207	-4.597192035
TCGA.AY.A71X.01	-4.744542655	-5.89066046
TCGA.AY.A8YK.01	-1.002426935	-5.06904886
TCGA.AZ.4684.01	-2.391119509	1.413205018
TCGA.CA.5255.01	-3.626841184	-2.596260521
TCGA.CA.5256.01	-5.066904353	-4.925858381
TCGA.CA.5797.01	3.161237437	-1.618276822
TCGA.CA.6715.01	-0.301610154	-6.578457066
TCGA.CA.6716.01	5.73933306	-3.732349026
TCGA.CI.6619.01	0.859733284	1.841168667
TCGA.CI.6620.01	0.171798414	-2.367265541
TCGA.CI.6622.01	-3.878679451	-6.121340271
TCGA.CK.5912.01	-0.463601179	-6.311605643
TCGA.CK.5915.01	-4.43651113	-10.87521785
TCGA.CL.4957.01	-2.035585154	-4.590217721
TCGA.CL.5917.01	2.796556509	-3.022237556

TCGA.CL.5918.01	-4.081078176	-6.377236846
TCGA.CM.4747.01	2.954262705	-0.487979847
TCGA.CM.5344.01	3.04988584	1.636199627
TCGA.CM.5864.01	-2.722207575	-4.824768607
TCGA.CM.5868.01	0.892339004	0.727116234
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TCGA.CM.6164.01	5.276615509	-0.875323542
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Table S6. Fersig score of different databases

samples	GEO PC1 of genes A	GEO PC1 of genes B
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GSM929614	0.13553872	-20.61409952
GSM929496	-2.703542177	0.184081895
GSM929574	1.543691318	-3.253491998
GSM929590	-0.465568017	-15.3144753
GSM929586	-2.279737211	7.414028219
GSM929585	0.119065243	-1.957691103
GSM929612	1.046043718	-0.936528876
GSM929609	4.049664033	-7.109561602
GSM929497	-3.605444797	4.789586521
GSM929593	-0.690672322	-6.818756241
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GSM929599	-0.717271071	-2.739983058
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GSM929499	-0.263725886	-9.613940855
GSM929504	5.880390964	-2.939265854
GSM929610	0.646231871	8.190159859
GSM929498	-3.387332469	3.142340935
GSM929618	-0.189039517	4.249693533
GSM929575	6.185546865	-14.65495758
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GSM929502	-2.433816523	-2.589629328
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Table S6. Fersig score of different databases

samples	Liu PC1 of genes A	Liu PC1 of genes B	Liu Fersig score
Patient107	-23.80745186	-21.47483195	-2.332619905
Patient163	4.603320171	0.428653169	4.174667002
Patient96	0.933685419	0.687551842	0.246133577
Patient83	0.41275053	-2.641835437	3.054585966
Patient121	2.792776258	2.815565443	-0.022789185
Patient48	-2.645320039	-2.653624975	0.008304935
Patient94	1.60283282	1.136807624	0.466025196
Patient117	3.074452009	3.835144862	-0.760692854
Patient146	1.053291252	1.406463501	-0.353172249
Patient99	0.303442657	3.587045674	-3.283603017
Patient185	1.382480485	1.755067352	-0.372586867
Patient78	1.789925535	3.474724229	-1.684798694
Patient201	1.943360436	-0.442985813	2.386346249
Patient112	1.783808945	2.267832144	-0.484023199
Patient24	1.61770294	1.247336656	0.370366284
Patient187	1.071112201	0.894927489	0.176184712
Patient79	3.041668211	3.066675126	-0.025006915
Patient181	2.196966207	1.849659937	0.34730627
Patient8	0.444599993	-0.256364939	0.700964933
Patient40	-0.971389054	-1.580215117	0.608826063
Patient11	-0.2528136	0.531041628	-0.783855228
Patient34	5.062675306	-0.261274943	5.323950249
Patient72	1.913935463	0.732770315	1.181165148
Patient27	0.406591344	0.100316383	0.306274961
Patient38	-0.038110319	-0.426205025	0.388094706
Patient167	2.758938477	2.851642142	-0.092703665
Patient67	-1.450615964	-3.245409576	1.794793612
Patient193	2.553249606	2.24702318	0.306226427
Patient170	0.829382499	0.964034115	-0.134651616
Patient140	-0.98296165	-0.696718896	-0.286242753
Patient191	-0.097097601	2.372174314	-2.469271914
Patient98	1.794997348	1.93847633	-0.143478982
Patient42	-0.603488467	0.1744312	-0.777919667
Patient183	-2.47838733	-4.088553122	1.610165793
Patient205	0.391474326	2.760480186	-2.369005861
Patient82	0.132335029	-2.231214101	2.36354913
Patient45	0.071840621	3.097589103	-3.025748481
Patient116	3.655870399	0.925544728	2.730325671
Patient206	3.864585585	2.971417947	0.893167638
Patient35	1.674020015	1.328567067	0.345452948
Patient7	1.216125365	0.566764125	0.64936124
Patient144	-1.65378019	-3.528023601	1.87424341
Patient100	1.19096903	4.351230409	-3.160261379
Patient141	-2.418873163	-1.805382651	-0.613490512
Patient47	1.845747249	-1.054179787	2.899927037
Patient105	-3.977244541	-3.614320486	-0.362924056
Patient162	-1.140134543	-0.298694532	-0.841440011
Patient33	1.806144436	2.685720564	-0.879576128
Patient62	1.454475477	3.238365037	-1.78388956
Patient155	0.266507263	0.646653726	-0.380146464
Patient165	-0.163396392	0.591365087	-0.754761479
Patient56	3.156974918	2.538536897	0.618438021
Patient126	1.032414905	1.928625853	-0.896210949
Patient37	0.885131038	2.06995457	-1.184823532
Patient63	0.074084714	-1.782649768	1.856734481

Patient142	-1.996396708	-0.285794148	-1.71060256
Patient169	0.116358406	0.573725974	-0.457367568
Patient18	0.809596044	-0.463951832	1.273547876
Patient61	0.989425751	-6.157680499	7.14710625
Patient58	-2.373672222	-1.769546122	-0.604126101
Patient4	0.244497144	0.343162139	-0.098664995
Patient189	2.303382586	1.249142973	1.054239613
Patient196	1.062229884	0.424820022	0.637409862
Patient31	1.315893821	0.412302491	0.903591329
Patient10	1.341338084	-0.155986767	1.497324851
Patient197	0.751217163	0.123655566	0.627561598
Patient20	-1.366353705	2.659680346	-4.026034051
Patient166	-0.705025849	-0.603426611	-0.101599238
Patient149	0.535824092	4.064162713	-3.52833862
Patient200	4.26668939	2.580767068	1.685922322
Patient23	1.87754961	0.542128147	1.335421463
Patient87	0.016382122	0.607227189	-0.590845067
Patient44	-3.844833739	-1.036468702	-2.808365036
Patient145	0.98245577	1.56928548	-0.586829711
Patient135	-1.847966361	0.104534324	-1.952500684
Patient132	0.764867513	2.667458786	-1.902591274
Patient204	2.772685234	1.613781357	1.158903877
Patient134	0.877819315	0.949226027	-0.071406713
Patient77	0.314650879	2.010746607	-1.696095728
Patient184	-0.774963192	0.522513402	-1.297476594
Patient32	-0.34642393	-0.616998341	0.270574411
Patient108	-13.38330596	-14.28659754	0.903291588
Patient137	-2.162367978	2.292834442	-4.45520242
Patient51	-6.820141305	-2.217801681	-4.602339624
Patient133	-1.939638529	0.509636183	-2.449274712
Patient143	-32.73298265	-32.64521923	-0.087763423
Patient159	1.721914672	1.682767075	0.039147597
Patient195	1.296482828	1.308847624	-0.012364797
Patient25	3.208899635	1.823223897	1.385675738
Patient131	-4.473734865	-2.282169814	-2.191565051
Patient15	1.339210945	-0.397970588	1.737181532
Patient154	4.644832971	0.51381743	4.131015541
Patient106	0.061858344	1.047281109	-0.985422766
Patient17	0.657101761	1.958406443	-1.301304682
Patient130	1.591998423	1.47439849	0.117599934
Patient156	2.239646316	1.957140312	0.282506005
Patient172	2.542570493	2.519602529	0.022967964
Patient150	0.530366057	0.285899604	0.244466453
Patient173	1.835108623	1.937728116	-0.102619493
Patient203	2.652659229	1.99624396	0.656415269
Patient21	-0.45584902	0.190779717	-0.646628737
Patient125	-2.2709535	0.972462635	-3.243416135
Patient6	0.494403283	0.770109375	-0.275706093
Patient158	1.748657638	1.109975492	0.638682146
Patient188	1.563543324	-0.620622468	2.184165792
Patient147	-1.358950435	-1.159199734	-0.199750701
Patient36	0.869128135	-0.935914417	1.805042552
Patient1	-0.307810205	-1.991628532	1.683818327
Patient102	1.751691564	1.893929239	-0.142237676
Patient75	-2.681846211	2.572965989	-5.254812199
Patient168	-0.183834071	0.54772504	-0.731559111
Patient30	-1.190009603	0.015312335	-1.205321938
Patient148	0.732437992	0.435434977	0.297003014

Patient14	2.179404815	1.953417323	0.225987492
Patient9	1.762107117	-0.15093356	1.913040677
Patient73	1.551758102	0.21521774	1.336540362
Patient86	0.059454268	0.968457244	-0.909002977
Patient127	3.005069489	1.434361698	1.570707791
Patient13	2.629219031	0.808248371	1.820970659
Patient179	-6.80245096	-7.997613106	1.195162146
Patient22	0.601541363	-0.422716544	1.024257906

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	173	1 PD/SD
	913	0 CR/PR
	71	1 PD/SD
	1306	0 CR/PR
	53	1 PD/SD
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	521	1 PD/SD
	137	1 PD/SD
	617	0 CR/PR
	849	0 PD/SD
	476	0 CR/PR
	1005	1 PD/SD
	468	1 PD/SD
	160	1 PD/SD
	1691	0 CR/PR
	395	0 PD/SD
	431	1 PD/SD
	343	1 PD/SD
	282	1 PD/SD
	136	1 PD/SD
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	347	0 PD/SD
	351	1 PD/SD
	658	0 CR/PR
	683	1 PD/SD
	1027	0 CR/PR
	572	1 PD/SD
	392	1 PD/SD
	131	1 PD/SD
	1666	0 CR/PR
	118	1 PD/SD
	90	1 PD/SD
	968	1 PD/SD
	269	1 PD/SD
	662	0 CR/PR
	938	1 CR/PR
	875	0 CR/PR
	937	0 PD/SD
	521	1 CR/PR
	201	1 PD/SD
	1679	0 CR/PR
	1001	0 CR/PR
	475	0 PD/SD
	75	0 PD/SD
	122	1 PD/SD
	992	0 CR/PR
	275	1 PD/SD
	178	1 PD/SD

996	0 PD/SD
543	0 CR/PR
130	1 PD/SD
987	0 PD/SD
303	1 PD/SD
600	1 CR/PR
718	0 CR/PR
81	1 PD/SD
426	1 PD/SD
1139	1 CR/PR
960	0 CR/PR
242	1 PD/SD
205	1 CR/PR
497	1 PD/SD
512	1 PD/SD
975	0 PD/SD
1263	0 CR/PR
922	0 CR/PR
833	0 CR/PR
628	0 CR/PR
739	0 CR/PR
819	0 CR/PR
590	1 PD/SD
444	1 PD/SD
513	0 CR/PR
53	1 PD/SD
165	1 PD/SD
772	0 CR/PR
1547	0 CR/PR
370	1 PD/SD
630	0 PD/SD
288	0 PD/SD
895	0 CR/PR
1096	0 CR/PR
833	0 CR/PR
149	1 CR/PR
635	0 PD/SD
780	0 CR/PR
686	1 PD/SD
192	1 PD/SD
87	1 PD/SD
272	0 PD/SD
685	0 CR/PR
42	1 PD/SD
626	1 PD/SD
906	0 CR/PR
978	0 CR/PR
687	1 PD/SD
194	0 CR/PR
74	1 PD/SD
960	0 CR/PR
451	1 PD/SD
283	1 PD/SD
785	0 CR/PR
891	0 CR/PR
623	0 CR/PR
213	1 PD/SD
792	0 CR/PR

186	1 PD/SD
963	0 PD/SD
846	1 PD/SD
1327	0 PD/SD
866	0 CR/PR
58	1 PD/SD
653	0 CR/PR
253	1 PD/SD

Table S6. Fersig score of different databases

samples	Vanallen PC1 of genes A	Vanallen PC1 of genes B
Pt1.baseline	-0.361057658	-0.99009198
Pt2.baseline	-0.070806538	-0.703963262
Pt4.baseline	0.941912746	1.025178075
Pt5.baseline	2.832124426	-4.772701248
Pt6.baseline	-1.043321579	0.62301097
Pt7.baseline	-1.333143924	2.390269156
Pt8.baseline	-1.416292151	1.088585952
Pt9.baseline	0.635362935	-0.290027741
Pt10.baseline	0.468505343	2.149579516
Pt12.baseline	-1.921825859	1.979360996
Pt13.baseline	0.612200365	0.286403325
Pt14.baseline	-0.35186344	1.67918879
Pt15.baseline	-1.869728786	0.632739384
Pt19.baseline	-1.334422477	-0.053248537
Pt20.baseline	-3.756047795	2.026191197
Pt22.baseline	0.915378015	-0.654642908
Pt23.baseline	-3.136455353	2.979018214
Pt25.baseline	-3.591950585	3.947589642
Pt28.baseline	-2.571244128	4.599635325
Pt29.baseline	-1.754614963	2.899474904
Pt31.baseline	1.653638057	-3.608233836
Pt32.baseline	3.293402175	-0.264777681
Pt35.baseline	3.45491312	-4.540842878
Pt37.baseline	2.299128939	-3.606734371
Pt38.baseline	2.483781707	-3.876667891

Vanallen Fersig score	Overall.Survival	Dead	BRgroup
-0.629034323		607	1 PD
-0.633156723		927	0 CR/PR
0.083265329		948	0 CR/PR
-7.604825674		439	0 CR/PR
1.666332548		882	0 CR/PR
3.72341308		662	1 PD
2.504878103	NA		0 CR/PR
-0.925390676		1054	0 CR/PR
1.681074173		387	0 PD
3.901186854		327	1 PD
-0.32579704		917	0 CR/PR
2.03105223		54	0 PD
2.50246817		980	1 CR/PR
1.28117394		1060	0 CR/PR
5.782238992		337	1 PD
-1.570020923		182	1 PD
6.115473567		103	1 PD
7.539540227		262	1 PD
7.170879452		439	1 CR/PR
4.654089867		269	1 PD
-5.261871893		704	0 PD
-3.558179856		171	1 PD
-7.995755998		427	0 CR/PR
-5.90586331		364	0 CR/PR
-6.360449598		448	0 CR/PR