

Supplementary information

miR828 and miR858 regulate VvMYB114 to promote anthocyanin and flavonol accumulation in grapes

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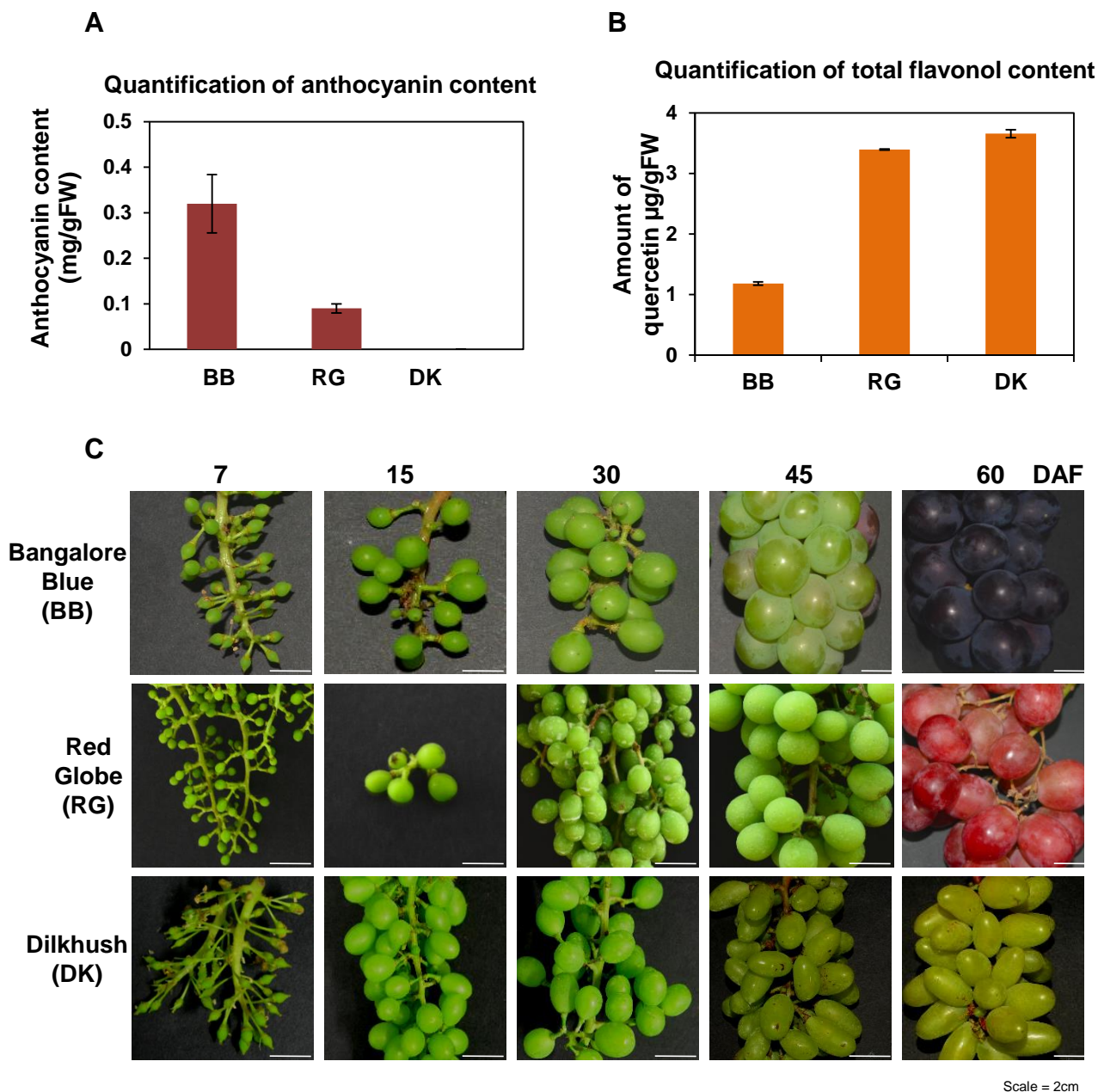
Supplementary Table S5. Mass spectrometric analysis of total proteins from reproductive tissues of the DK and BB grape lines.

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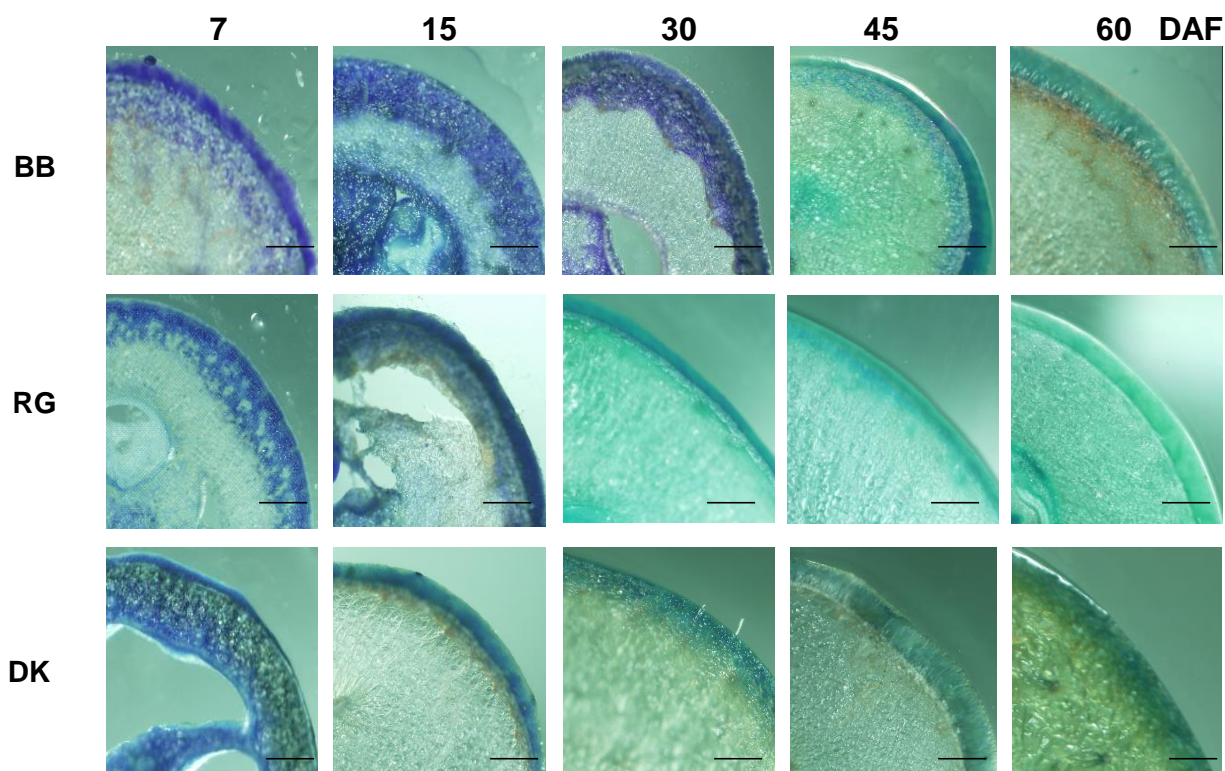
Supplementary datasets

Supplementary Data Set S1. Differently expressed genes among the fruit peel samples.

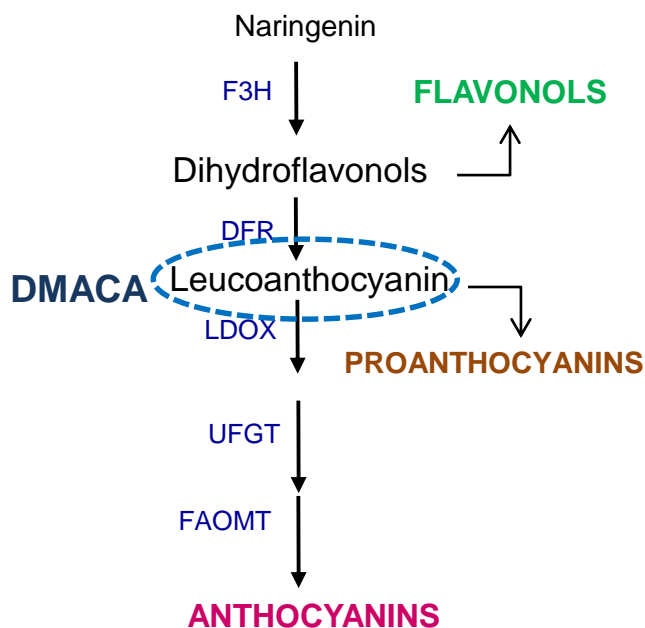
Supplementary Data Set S2. Differently expressed genes among grape young leaf samples.



Supplementary Fig. S1. Estimation of total anthocyanins and flavonols in fruit peels of the grape lines used in this study. (A) Estimation of total anthocyanin from the fruits peels of three varieties of grapes. Berries at 60 DAF (days after fertilization) were used for the estimation. The total anthocyanin was estimated as amount of malvidin. Data is represented as mean \pm SE of three replicates. (B) Estimation of total flavonols from the fruits peels. Berries at 60 DAF were used for the estimation. The total flavonoil content is estimated as amount of quercetin in the sample. Data is represented as mean \pm SE of three replicates. (C) Grape berries at various developmental stages for the lines used in this study. Only at 60DAF the accumulation of anthocyanin is seen in BB and RG lines. Scale - 2cm.

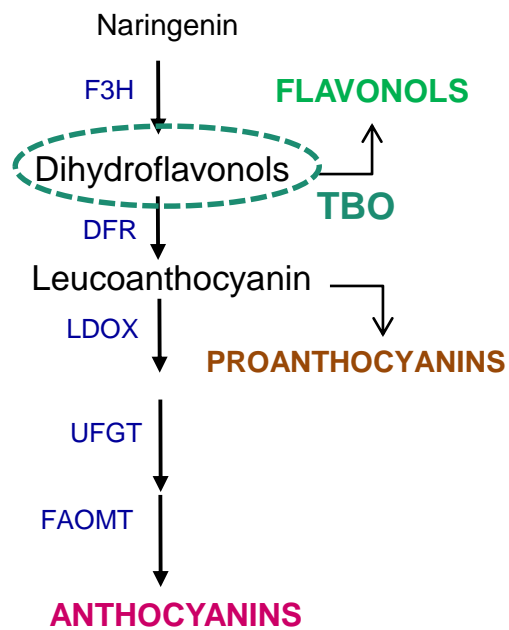
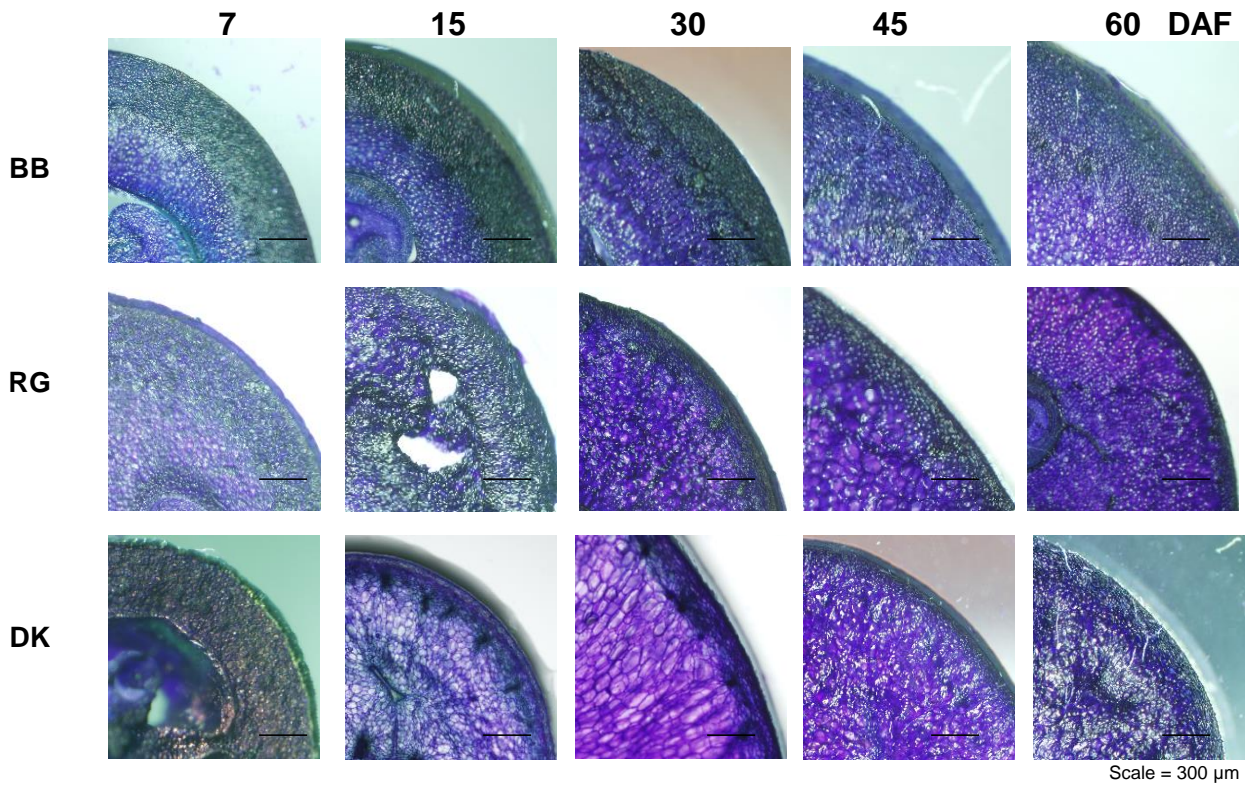


Scale = 300 μ m

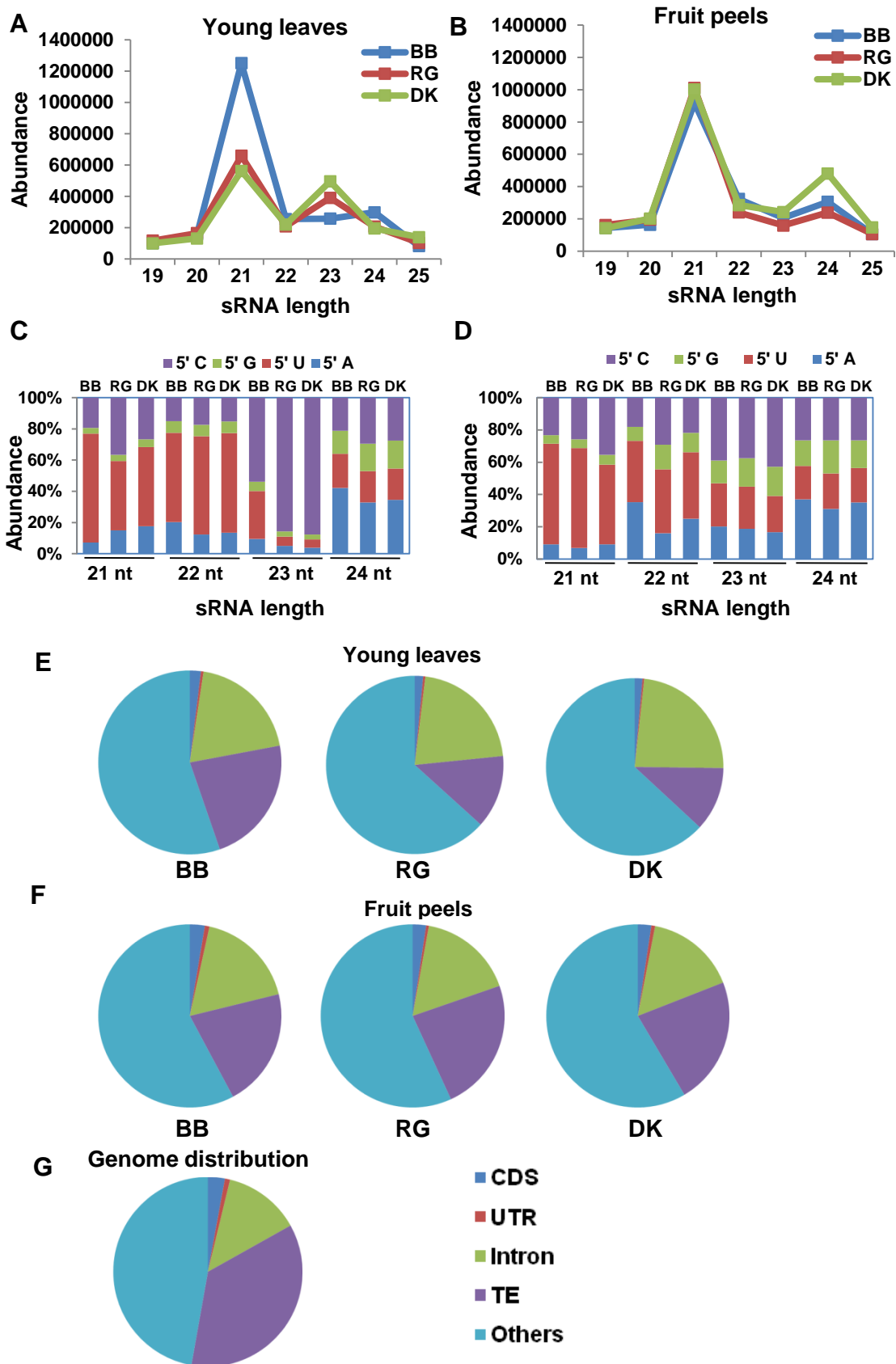


Supplementary Fig. S2. DMACA staining of berries at various developmental stages. Sections of berries at various DAF were stained for the detection of proanthocyanidins (PA) and their precursor molecules using DMACA. Purple/blue color represents presence of PA compounds. Scale - 300 μ m.

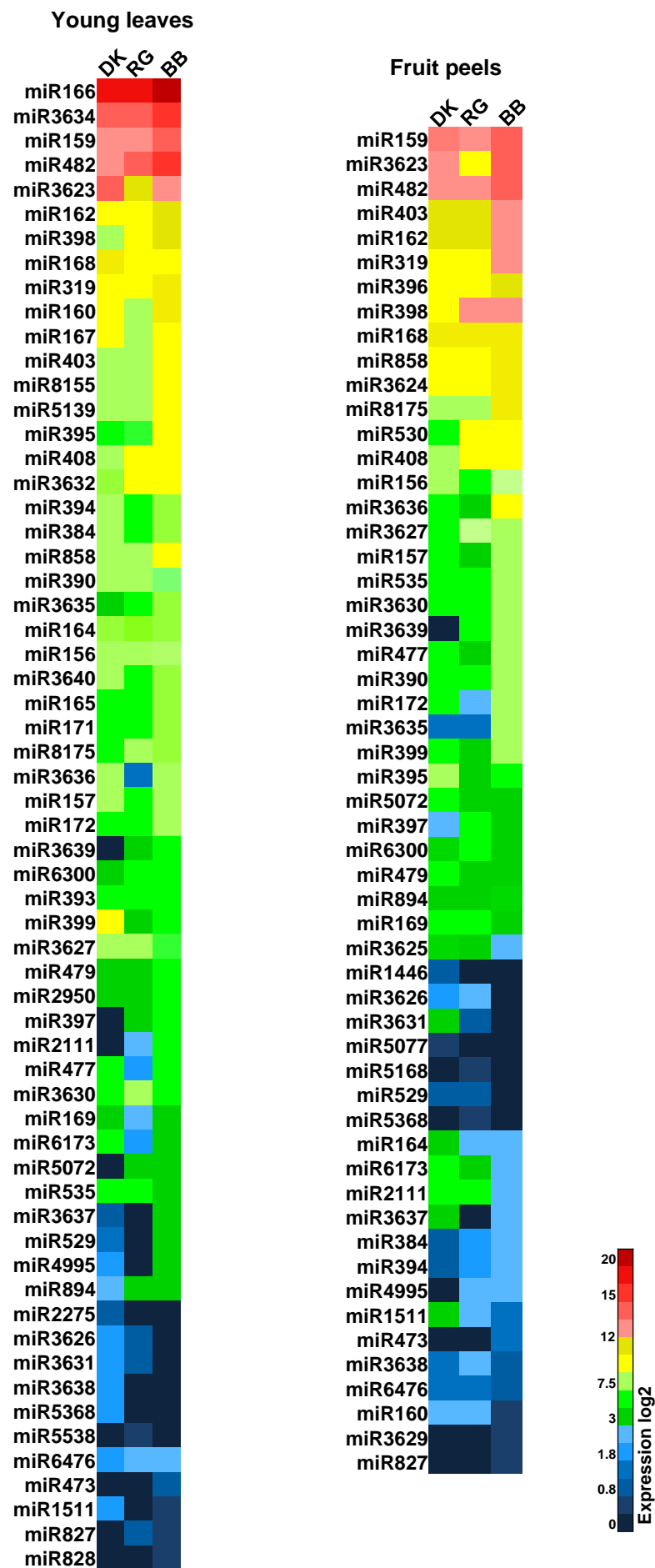
The schematic highlights the precursor molecule to which DMACA binds in the phenylpropanoid pathway.



Supplementary Fig. S3. TBO staining of berries at various developmental stages. Sections of berries at different stages after fertilization were stained for the detection of Dihydroflavonols using TBO. Greenish-blue color represents the presence of precursor molecules of anthocyanins. Scale - 300μm. The schematic in the bottom panel shows to which precursor molecule TBO binds.

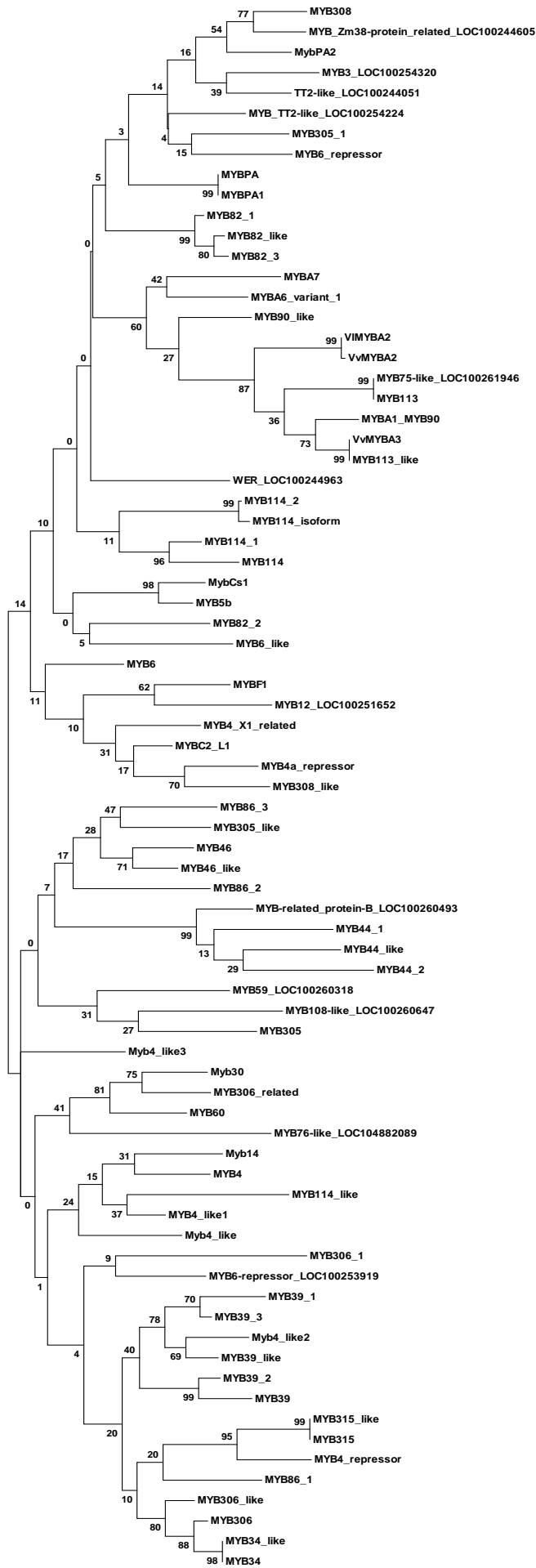


Supplementary Fig. S4. Small RNA profiling across selected grape lines. Small RNA profile of young leaf (A) and fruit peel (B) tissues of three grape lines. Values are average of two biological replicates. Nucleotide preferences of the small RNAs at 5' position in young leaves (C) and fruit peels (D). Distribution of siRNAs found in small RNA datasets of three grape lines in young leaves (E) and fruit peels (F). Pie charts shows the percentage of reads mapping to CDS (coding regions), UTR (untranslated regions), introns, TE (transposable elements) and other repeats in the annotated *Vitis vinifera* genome. In (G), genomic representation indicating percentage of genomic regions in the grape genome to highlight unusually high percentage of intronic and transposon regions.

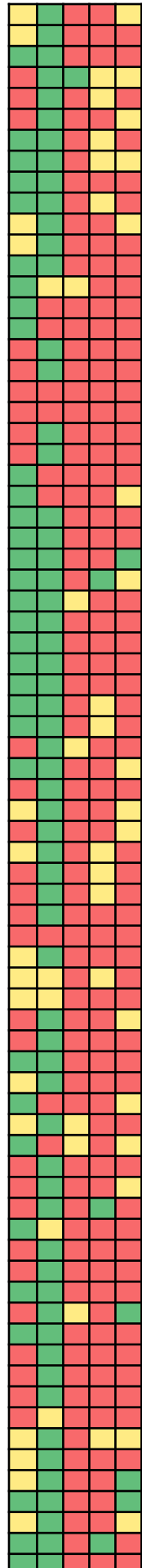


Supplementary Fig. S5. Differential expression of known MicroRNAs across grape lines.

Heat maps of conserved and non-conserved miRNAs(miRBase ver. 21) across the young leaves and fruit peel tissues of grape lines. A cut-off of $\log_2(\text{fold change}) > 2$ was used for differential expression analysis of miRNA.



miR828
miR858
miR827
miR156
miR159



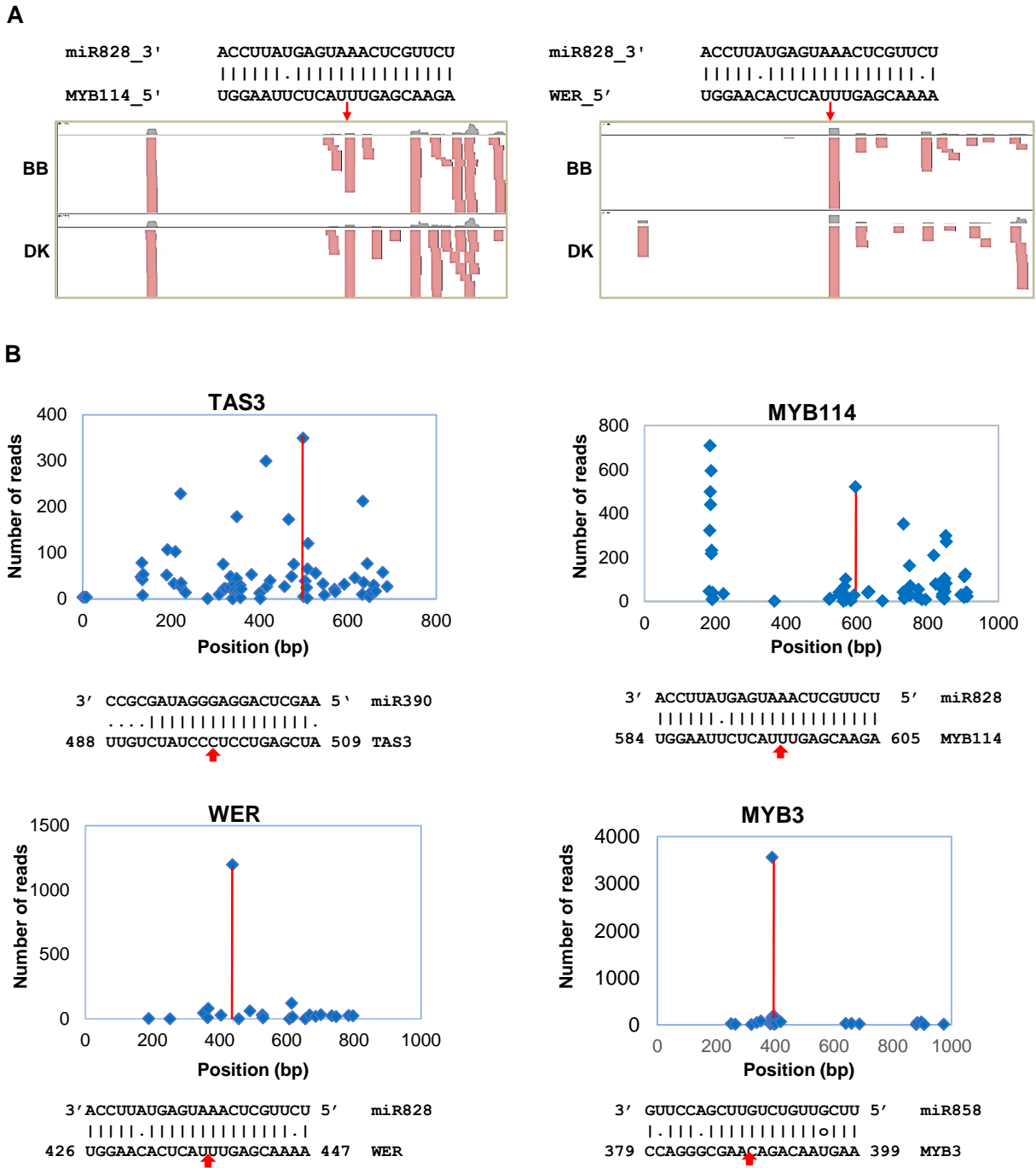
Target score < 8
Target score 8-15
Non target

Supplementary Fig. S6. Phylogenetic tree of MYBs from grapes and targeting abilities of miR828, miR858, miR827, miR156 and miR159.

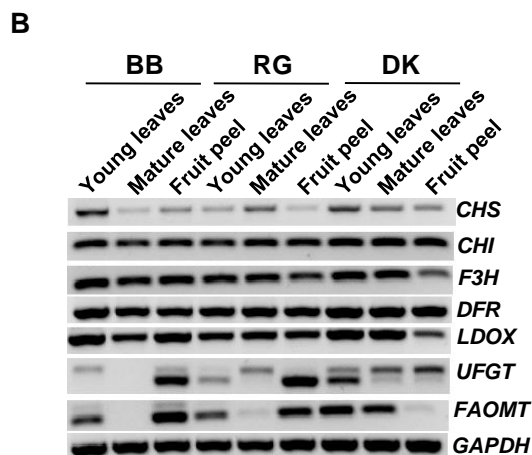
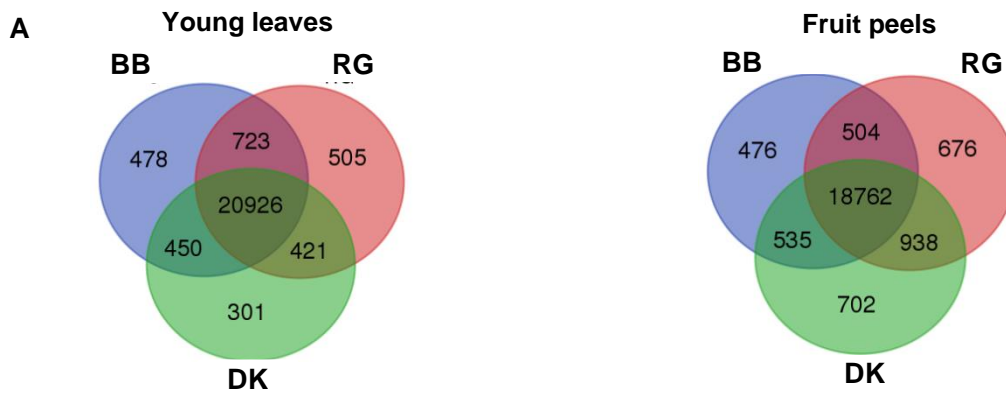
The sequences of mRNA belonging to R2R3 MYB family were obtained from NCBI. The phylogenetic tree was constructed using maximum likelihood method using bootstrap 100. The figure also shows the miRNAs that target different MYB mRNAs, predicted using TAPIR analysis. Colored boxes indicate extent of MYB targeting, generated using TAPIR.

A	Mdm-miR858	-UUCGUUGUCUGUUCGACCUGA
	Ath-miR858a	UUUCGUUGUCUGUUCGACCUU-
	Aly-miR858-5p	UUUCGUUGUCUGUUCGACCUU-
	Ppe-miR858	-CUCGUUGUCUGUUCGACCUUG
	Vvi-miR858	-UUCGUUGUCUGUUCGACCUUG
	Ath-miR858b	-UUCGUUGUCUGUUCGACCUUG
B	Ath-miR828	UCUUGCUCAAAUGAGUAUCCA
	Mes-miR828a	UCUUGCUCAAAUGAGUAUCCA
	Mdm-miR828b	UCUUGCUCAAAUGAGUAUCCA
	Mdm-miR828a	UCUUGCUCAAAUGAGUAUCCA
	Gma-miR828a	UCUUGCUCAAAUGAGUAUCCA
	Cme-miR828	UCUUGCUCAAAUGAGUAUCCA
	Ptc-miR828a	UCUUGCUCAAAUGAGUAUCCA
	Vvi-miR828a	UCUUGCUCAAAUGAGUAUCCA
	Ssl-miR828	UCUUGCUCAAAUGAGUAUCCA
	Gma-miR828b	UCUUGCUCAAAUGAGUAUCCA
	Mes-miR828b	UCUUGCUCAAAUGAGUAUCCA
	Lus-miR828a	UCUUGCUCAAAUGAGUGUCCA

Supplementary Fig. S7. Sequence variations among selected miRNAs. The sequences of MYB targeting microRNAs such as miR858 (A), miR828 (B) obtained from miRBase. The mismatch is represented in black.

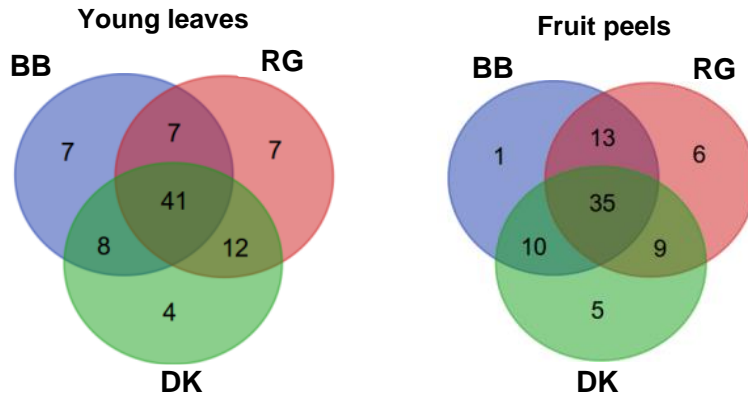


Supplementary Fig. S8. (A) Schematic diagram of miR828 mediated cleavage in MYB114 and WER in BB and DK. The degradome datasets were obtained from GSE118701 the reads were aligned to the MYB sequences using in-house pipelines and results were represented as T-plots (B). The sequence pairing of the miRNA – mRNA is shown below with cleavage site marked. TAS3 served as a control.

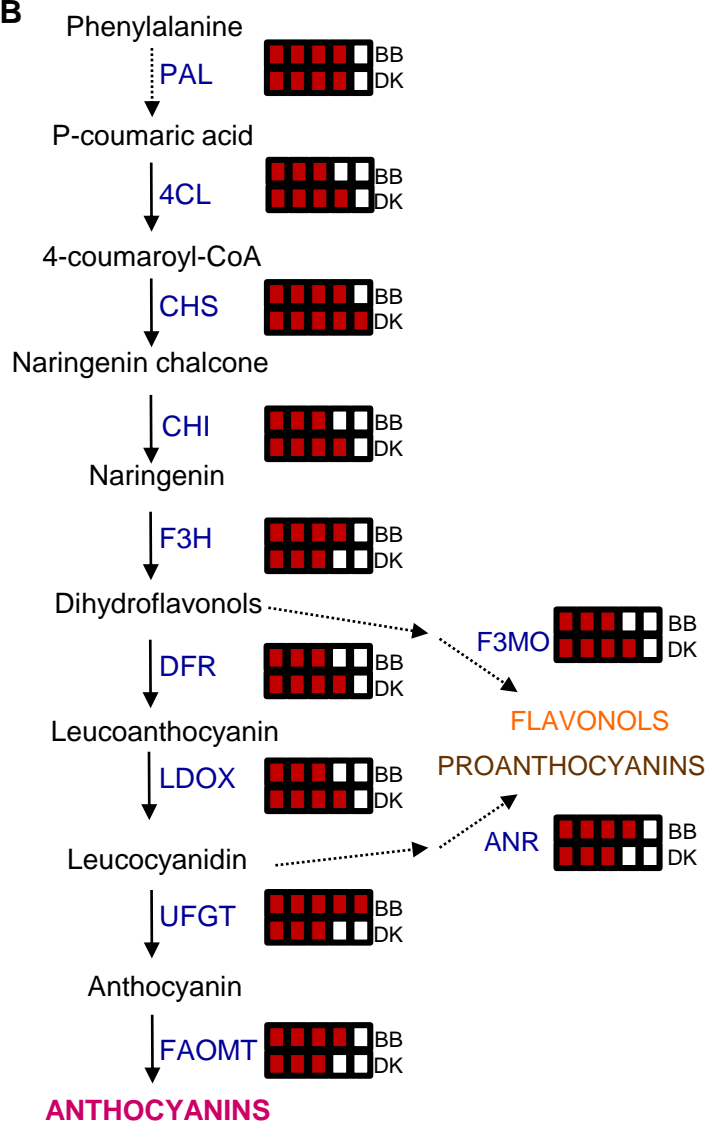


Supplementary Fig. S9. (A) Venn diagram representing total number of genes identified among grape lines. (B) RT-PCR confirmation of differential expression for specific phenylpropanoid pathway mRNAs.

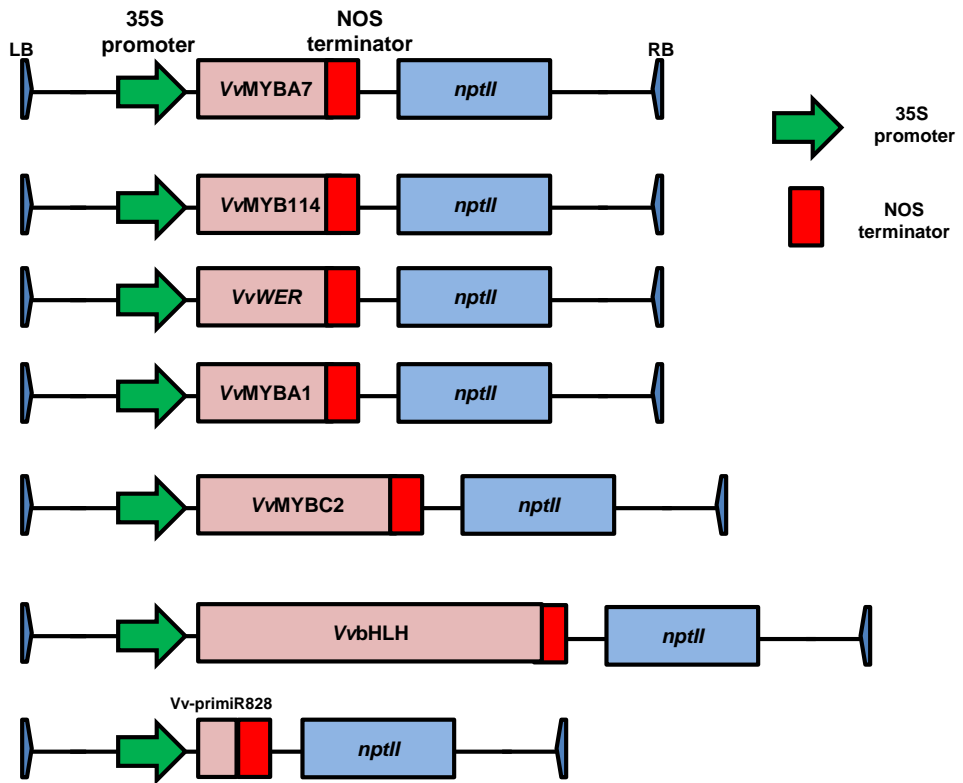
A



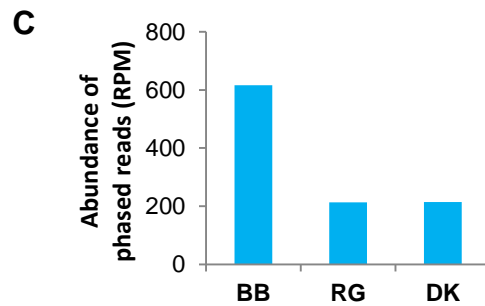
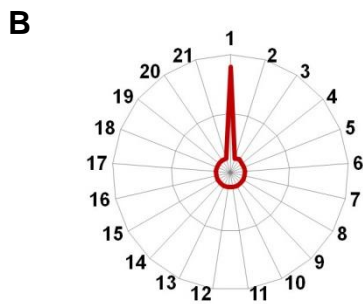
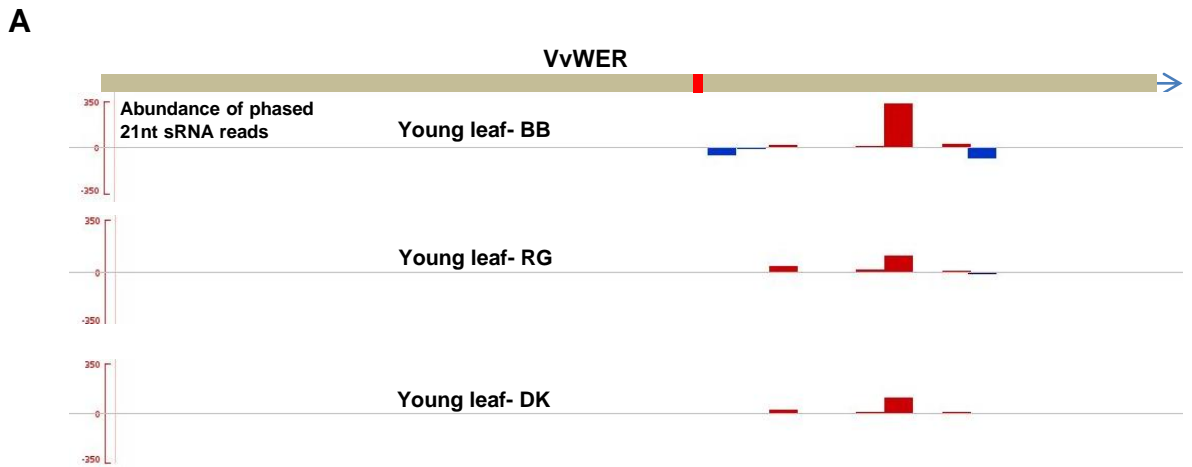
B



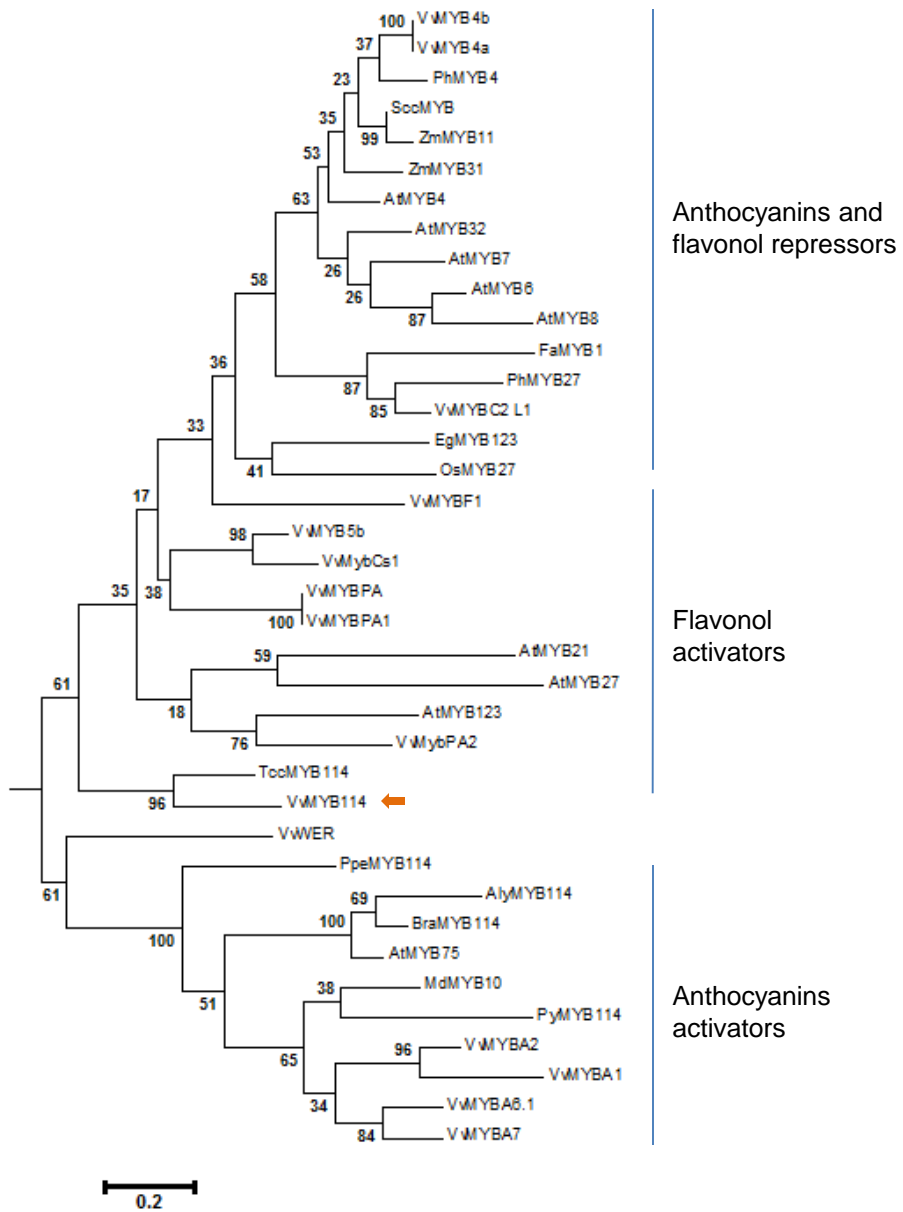
Supplementary Fig. S10. MYB proteins accumulate differentially between grape tissues and lines. (A) Venn diagram summarizing differentially expressed proteins identified by LC-MS/MS analysis. (B) Schematic representation of comparative expression of phenylpropanoid pathway proteins in fruit peels of BB and DK lines. Values represented as filled boxes out of 5.



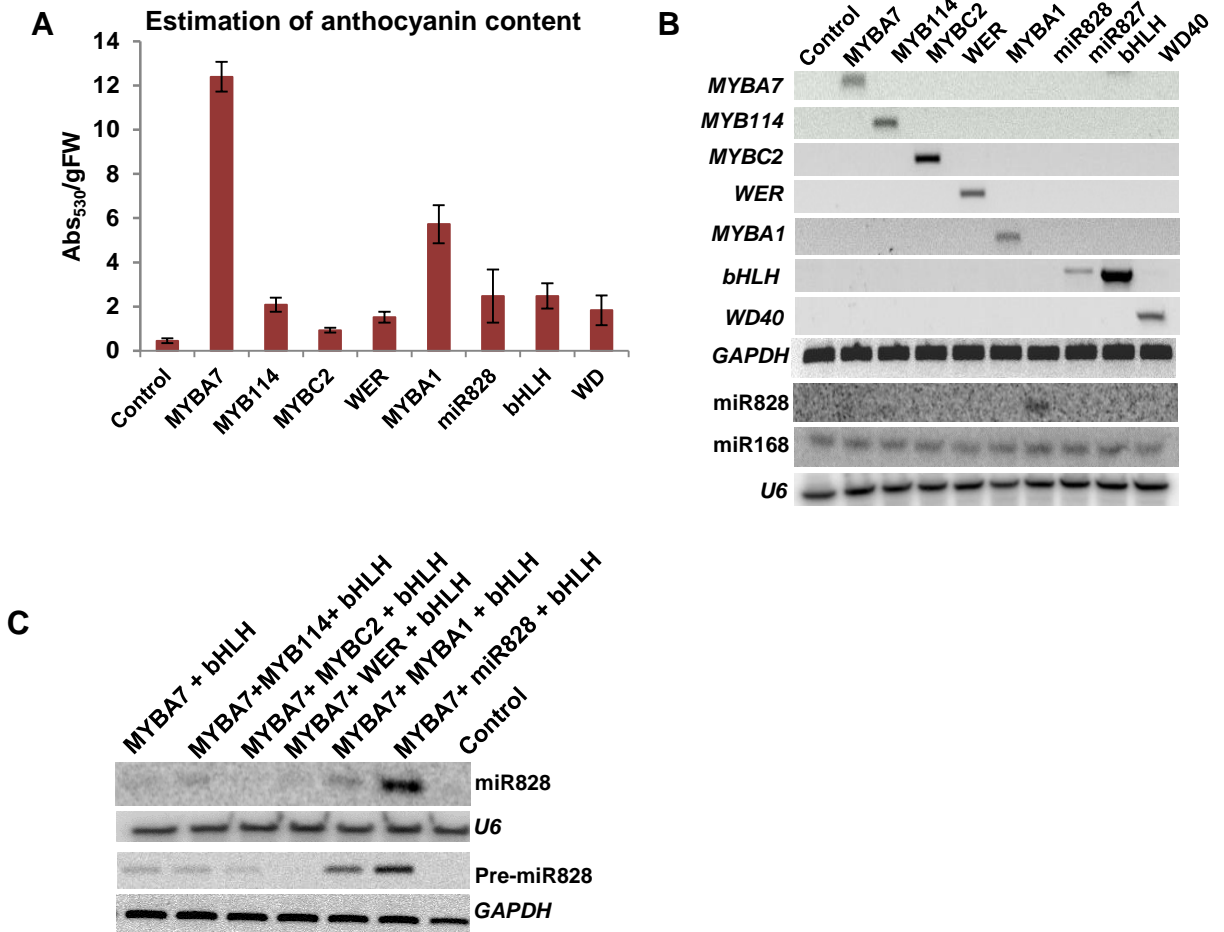
Supplementary Fig. S11. Linear diagrams of the constructs used in this study.



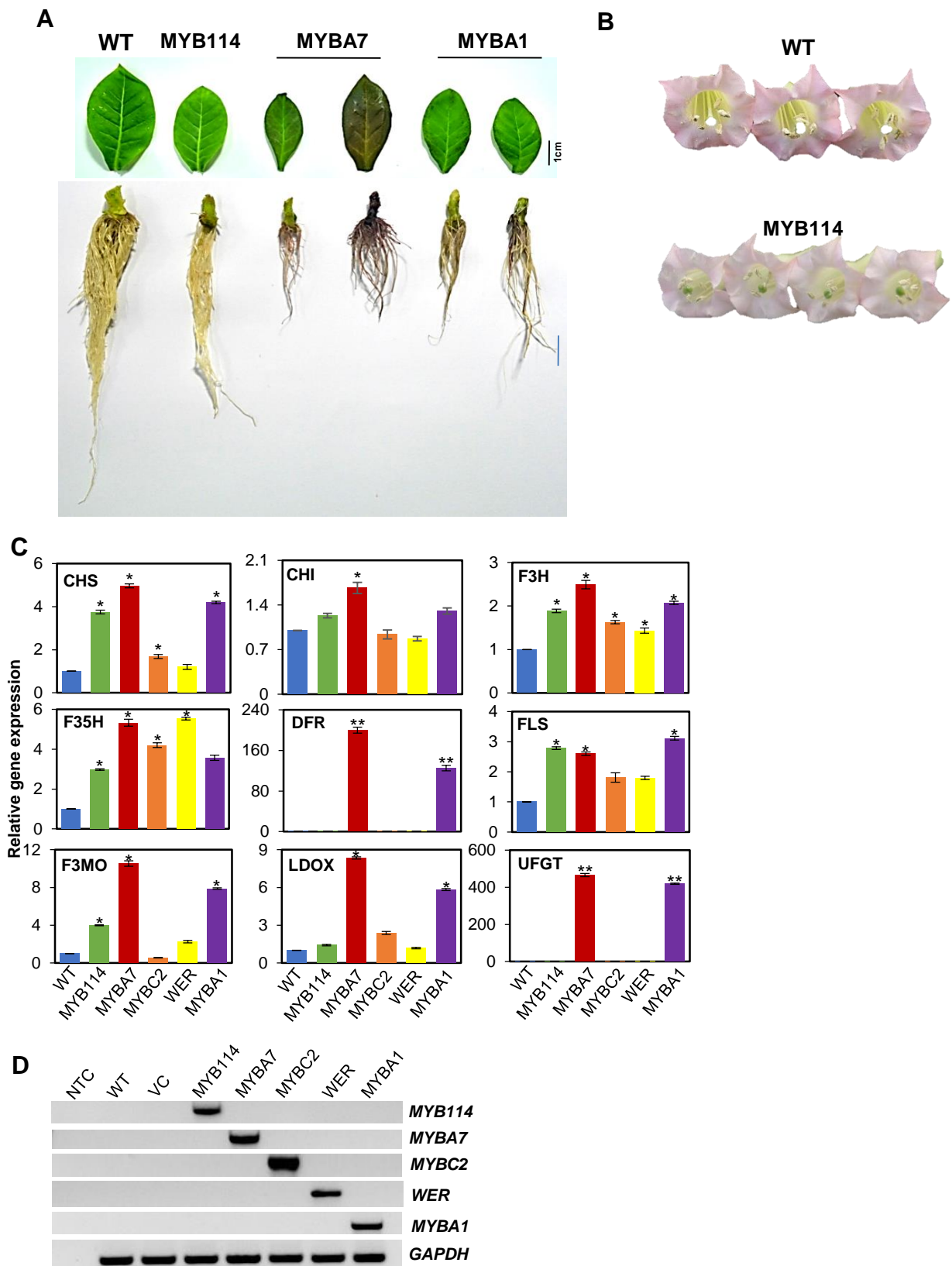
Supplementary Fig. S12. Analysis of secondary silencing cascade in WER locus. (A) A schematic representation of phased sRNA matching WER locus in different grape lines. miR828 target site is shown as red box. (B) Phasing register for WER locus. (C) Abundance of phased siRNAs in grape lines.



Supplementary Fig. S13. Phylogenetic tree of MYB activators and repressors from various plant species. The sequences R2R3 MYB family members were obtained from NCBI. The phylogenetic tree was constructed using maximum likelihood method using bootstrap 100. *Vitis* MYB114 falls into a unique clade.



Supplementary Fig. S14. Estimation of anthocyanin and RT-PCR from samples transiently expressing MYB genes and miRNAs. Panel (A) shows anthocyanin content in infiltrated tissues. Data is represented as mean \pm SE of three replicates. (B) Confirmation of expression of infiltrated MYBs and miRNAs. GAPDH and U6 served as controls for mRNAs and sRNAs, respectively. (C) MYBs can induce the transcription of MIR828 gene in grapes. The figures shows the northern hybridization for miR828 and an RT-PCR for pre-miRNA in MYB infiltrated samples. U6 and GAPDH serve as controls.



Supplementary Fig. S15. Phenotype of MYB expressing transgenic plants (A) (B). Phenotype of MYB114 OE flowers showing reduced anthocyanin accumulation. (C) Quantitative expression analysis for flavonol and anthocyanin biogenesis genes in selected transgenic plants using qRT-PCR from leaf samples. *GAPDH* served as control. Names of abbreviated genes are provided in Supplementary Table 4. (D) Expression of MYB in the stable transgenic lines used for qRT-PCR analysis. Wildtype (WT) and vector control (VC) plants serve as controls

Supplementary Table S1. Summary of small RNA statistics.

Tissue type	Fruit Peels					
Sample	BB		RG		DK	
Replicates	Repl1	Repl2	Repl1	Repl2	Repl1	Repl2
Raw reads	4797025	6903409	8246098	7894012	6168563	9569854
Adapter removal	3128908	4545833	4317205	2984465	3226760	6224913
length range filtering	3054540	4438658	4233235	2951279	3157230	5996036
tRNA and rRNA filtering	2373670	3452196	2921455	2033163	2267425	4382717
Mapped reads	1944630	2817459	2461231	1735944	1860635	3542731
Unmapped reads	429040	634737	460224	297219	406790	839986

Tissue type	Young Leaves					
Sample	BB		RG		DK	
Replicates	Repl1	Repl2	Repl1	Repl2	Repl1	Repl2
Raw reads	4811769	5190376	4466191	5409542	3924482	6354301
Adapter removal	2903654	3806901	2579779	3094438	2626420	4038183
length range filtering	2879539	3736998	2534597	3050354	2557358	3860875
tRNA and rRNA filtering	2326868	3066587	1971143	2331884	2084750	3141770
Mapped reads	2178416	2828362	1809466	2140280	1933757	2885775
Unmapped reads	148452	238225	161677	191604	150993	255995

Supplementary Table S2. Abundance and targets of conserved miRNAs from grape lines.

Known miRNA	Abundance (RPM)						Target
	Young leaves			Fruit peels			
	BB	RG	DK	BB	RG	DK	
miR156	51.745	20.255	30.96	39.835	4.72	19.865	Squamosa-promoter Binding Protein (SBP) box gene
miR159	5377.505	1370.5	2505.185	4053.2	1538.595	2494.51	GaMYB, MYB genes for GA signalling
miR160	321.05	38	127.12	0.185	1.745	1.8	Auxin response factor (ARF17, ARF10)
miR162	848.82	189.71	360.46	1042.995	356.755	547.13	DNA-directed RNA polymerase 1, mitochondrial (LOC100263361)
miR164	65.115	38.515	52.835	0.9	0.71	1.18	NAC domain-containing protein 100-like (LOC100251801)
miR166	281433.6	107205	102313.4	183180.9	224142.3	131408	Homeobox-leucine zipper protein
miR167	278.5	75.94	170.65	35.58	40.6	35.46	Auxin response factor
miR168	479.745	293.355	342.99	387.16	281.29	358.51	Argonaute protein
miR169	4.065	0.975	4.28	1.085	11.43	5.73	NFYA5 transcription factor
miR171	34.475	13.835	18.005	36.14	18.745	32.695	Scarecrow-like protein
miR172	19.175	4.48	8.815	10.41	0.84	4.765	AP2-like ethylene-responsive transcription factor
miR319	414.73	241.05	83.805	975.725	213.025	365.58	Transcription factor TCP4
miR390	82.4	19.625	13.935	14.885	4.905	1.775	TAS3
miR393	10.78	2.64	4.965	85.465	43.115	42.72	Auxin signaling F-box protein
miR394	87.125	15.605	18.69	0.715	0.585	0.25	F-box only protein
miR395	21731	31589	31593	3693	7773	31147	Sulfate transporter
miR396	1823.215	572.98	1253.625	786.145	275.255	548.045	Growth-regulating factor
miR397	7.375	1.665	0	3.72	8.34	1.085	Laccase
miR398	578.19	433.09	37.97	766.57	1406.285	168.63	Unknown
miR399	9.605	1.375	53.635	8.795	4.455	8.99	Phosphate transporter
miR403	249.86	88.27	84.01	2125.415	304.39	327.63	Argonaute protein AGO2
miR477	6.005	0.46	9.05	15.675	1.745	5.005	DELLA protein GAI (LOC100263271)
miR482	4955.485	4703.7	3392.925	2247.685	1911.25	1812.91	Uncharacterized LOC100853159
miR828	0.185	0	0	0	0	0	R2R3 MYB transcription factor
miR2111	7.335	0.805	0	0.715	7.64	4.015	GTP-binding protein
miR3632	148.035	228.315	130.145	55.515	34.085	32.72	Disease resistance protein At1g50180

Supplementary Table S3. List of oligos used as probes.

Probe Name	sequence (5'→3')
Vv-miR828	TGGAATACTCATTTGAGCAAGA
Vv-miR858	CAAGGTCGAACAGACAACGAA
MYB114_TASI	TCAGAGAACAAGAGTGGTAGA
WER_TASI	AGAGCTCTCTTTGGTTTTCTA
<i>U6-I</i>	GGCCATGCTAATCTTCTCTGTATCGTT
<i>U6-II</i>	CCAATTTTATCGGATGTCCCCGAAGGGAC
miR168	GTCCCGACCTGCACCAAGCGA
miR156	GTGCTCACTCACTTCTGTCA

Supplementary Table S4. Details of primer pairs used for cloning and qRT-PCR

Construct name	Accession numbers	Primer pairs sequence (5'→3')	Gene name
MYBA7	NM_001281073	TAGGTCGGATCCTTATGGAGGGCTTTAGGT TCCGTGAGCTCATCATGCATTATGAGATCC	
MYB114	XM_002273955	GAGAGGGATCCATGGCTGAGAAGGAAGTGAAG GTCTTGAGCTCTTATGAAGGATGGCATAAGCCC	
MYBC2	NM_001281204	ATACCGGATCCATGAGGATGCCCTGCTGT TAACAGAGCTCTCATCCAAAGAGGAGCAGCGTG	
WER	XM_002279092	CTGCTGGATCCATGGAGGGAGCAAATG CAAAGGTCGACTTACAAGCCATCCCAAAC	
MYBA1	AB097923	GTTAGATCTATGGAGAGCTTAGGAGTTAGAAAGGG GAATGAGCTCTCAGATCAAGTGATTTACTTGTGTG	
bHLH	NM_001281045	GTGTGICTAGATGGCTAATGGGTCC TCCATCGAGCTCTCAGCATTGCTTGTATC	Basic helix loop helix
WD40	NM_001281077	CACCAGGATCCATGGAGAGATCAAG CAACAGAGCTCCTAAACTTTAAGAAGCTGC	WD40 repeat
miR828	MI0007972	GAAAAAGGATCCACTCCCTATAAAGTTTCTTGCTC GAAGAAGAAGAGCTCTCCATTTTAAGGTTGCTTCTC	
MYBA6	XM_002274956	TACCCGGGGTGGAGATGCCTGAATTTGG GGCATTGAAGCTTGACAAGG	
Vv-CHS	NM_001280950.1	CAGTGAGCACATGACCGAGT TCGATTGCTCCTTCGGAGTC	Chalcone synthase
Vv-CHI	NM_001281104.1	GTCACAGGCCCTTTGAGAA AAACACCATGCTTGCCGATG	Chalcone isomerase
Vv-F3H	KP966099.1	GGATGGCGGAAAGACTTGGA TGGTCAATGGGCTTGACTC	Flavanone 3-hydroxylase
Vv-DFR	NM_001281215.1	CGGTTTCATCGTTTCATGGC TTCGTTCCAGTGATCGGGG	Dihydroflavonol 4-reductase
Vv-LDOX	NM_001281218.1	GACAGCTTGAGTGGGAGGAC GGAAGAGTGGTGGCTCAGTC	Leucoanthocyanidin dioxygenase
Vv-UGFT	XM_002276999.4	GCCCCAGGAGGATATTGAGC CCTCAGCTAGGGCTACAAGC	UDP flavonoid-3-O-glucosyltransferase
Vv-AOMT	NM_001303082	AGCTCAAGTCATAGGGGCATTC TCCACCATCGCAAAGTCCAA	Anthocyanin methyltransferase
Nt-GAPDH	XM_016597540	GGAGGAGGGAACAACAAGAGG AGATGCCGTCACTGCCGA	Glyceraldehyde 3-phosphate dehydrogenase
Nt-CHS	AF311783.1	TCGAGGAATTCGTAGGGCG TTGATGGCTTTTTGGGCTGC	Chalcone synthase
Nt-CHI	AB213651.1	TGCCTTTGACGGGTAAGCAA CCTGACACTCTTCGGCGAT	Chalcone isomerase
Nt-F3H	AB289450.1	ACTGTTGAGCCGTTGAAGG TTTCAACTTGGCCTTCTCAGC	Flavanone 3-hydroxylase
Nt-FLS	AB289451.1	ACGTTGCATGGTGTGCTACT GGCAGAAGGAGGCCAAATCT	Flavanoid synthase
Nt-F3MO	KJ438812.1	GTTACCCGTTGCCACTACCA GTGCCGAATAAAATCGCCA	Flavonoid 3'-monooxygenase
Nt-F35H	XM_016597113	GCCACCCACTTGGCCTATAATG GTAAGTACTGAGCCTTCGCTTACAG	Flavonoid 3',5'-hydroxylase
Nt-DFR1	EF421429.1	CTCTCGATGCCCAAGAACAC CAGCAGAAAGGGGAATGGTTTC	Dihydroflavonol 4-reductase
Nt-LDOX	XM_009773928.1	TGATCGTGTCAAGGTTTCTGGA GGTTGGGGGCAATTTGGGATA	Leucoanthocyanidin dioxygenase
Nt-UGFT	NM_001326108.1	GAGAAAATGAATGTCCCTGGATTGC CCAATGCACTCATTGTTCCACTTTTG	UDP flavonoid-3-O-glucosyltransferase

Supplementary Table S5. Mass spectrometric analysis of total proteins from reproductive tissues of the DK and BB grape lines.

Data shown for replicates 1 and 2.

Accession	Peptides	Score	Anova (p)*	Fold	Tags	Description	Average Normalised	
							DK	BB
225446080	120 (57)	620.38	0.25	1.39		4-coumarate--CoA ligase 2 [Vitis vinifera]	6.38E+10	4.59E+10
122893276	139 (70)	591.99	0.96	1.06		phenylalanin ammonia-lyase [Vitis vinifera]	3.74E+10	3.51E+10
526117770	138 (48)	586.88	0.46	1.38		MYB5b [Vitis vinifera]	2.84E+10	2.06E+10
258558776	111 (44)	461.23	0.56	1.67		MYBF1 [Vitis vinifera]	1.67E+10	9.95E+09
731425700	112 (49)	435.67	0.67	1.19		PREDICTED: transcription factor MYB34-like isoform X1 [Vitis vinifera]	1.93E+10	1.62E+10
225442138	96 (35)	428.19	0.99	1.05		PREDICTED: transcription factor MYB114 [Vitis vinifera]	7.71E+09	7.36E+09
225431879	102 (31)	419.91	0.69	1.15		PREDICTED: transcription factor MYB12 [Vitis vinifera]	1.03E+10	1.18E+10
526117870	130 (66)	413.55	0.57	1.34		chalcone synthase [Vitis vinifera]	3.59E+10	2.68E+10
225429662	109 (43)	406.62	0.7	1.23		PREDICTED: transcription factor TT2-like [Vitis vinifera]	1.25E+10	1.01E+10
526117920	70 (31)	402.26	0.6	1.27		leucoanthocyanidin dioxygenase [Vitis vinifera]	1.50E+10	1.18E+10
526117485	86 (30)	392.88	0.76	1.05		naringenin,2-oxoglutarate 3-dioxygenase [Vitis vinifera]	1.22E+10	1.28E+10
225429672	103 (36)	387.44	0.77	1.05		PREDICTED: transcription factor MYB114 [Vitis vinifera]	9.40E+09	9.89E+09
225454815	66 (31)	382.38	0.98	1.03		PREDICTED: anthocyanidin 3-O-glucosyltransferase 2 [Vitis vinifera]	1.57E+10	1.53E+10
526117864	73 (29)	342.44	0.07	1.59		R2R3 Myb transcription factor C2 repressor motif protein [Vitis vinifera]	2.17E+10	1.37E+10
225426214	94 (28)	338.63	0.35	1.45		PREDICTED: transcription repressor MYB6 [Vitis vinifera]	9.04E+09	1.31E+10
225434329	88 (44)	336.49	0.45	1.35		PREDICTED: trans-cinnamate 4-monooxygenase [Vitis vinifera]	1.57E+10	1.16E+10
731414936	94 (44)	320.46	0.48	1.42		PREDICTED: transcription factor MYB46 [Vitis vinifera]	1.20E+10	8.45E+09
225453132	85 (32)	310.25	0.51	1.32		PREDICTED: transcription repressor MYB6 [Vitis vinifera]	5.63E+09	7.44E+09

225450423	73 (32)	281.57	0.67	1.18		PREDICTED: transcription factor MYB86 [Vitis vinifera]	4.02E+09	4.73E+09
225458725	76 (29)	277.48	0.29	1.71		PREDICTED: transcription factor MYB44-like [Vitis vinifera]	1.64E+10	9.60E+09
225448491	76 (22)	270.63	0.68	1.06		PREDICTED: myb-related protein B [Vitis vinifera]	1.52E+10	1.61E+10
297738990	80 (28)	269.29	0.68	1.07		unnamed protein product, partial [Vitis vinifera]	1.07E+10	1.14E+10
225446136	73 (19)	268.5	0.52	1.5		PREDICTED: myb-related protein 306 [Vitis vinifera]	3.56E+09	5.34E+09
225456110	75 (24)	264.21	0.1	1.83		PREDICTED: transcription repressor MYB6 isoform X1 [Vitis vinifera]	1.32E+10	7.18E+09
225433136	61 (21)	251.11	0.11	1.62		PREDICTED: myb-related protein Myb4 [Vitis vinifera]	2.72E+10	1.69E+10
733214879	46 (19)	247.92	1	1.26		flavonoid methyltransferase [Vitis vinifera]	5.56E+09	4.41E+09
225423967	82 (27)	246.66	0.68	1.29		PREDICTED: tetraketide alpha-pyrone reductase 2 [Vitis vinifera]	3.06E+10	2.37E+10
526117894	50 (15)	243.38	0.62	1.13		anthocyanidin reductase [Vitis vinifera]	1.17E+10	1.31E+10
225452873	64 (21)	240.36	0.94	1.07		PREDICTED: myb-related protein 306-like [Vitis vinifera]	1.16E+10	1.08E+10
731425941	65 (21)	234.6	0.46	1.24		PREDICTED: myb-related protein 315 isoform X1 [Vitis vinifera]	5.27E+09	6.55E+09
526117902	63 (29)	232.73	0.01	2.18		leucoanthocyanidin reductase 1 [Vitis vinifera]	1.54E+10	7.05E+09
359490763	68 (39)	230.83	0.93	1.22		caffeic acid 3-O-methyltransferase [Vitis vinifera]	1.28E+10	1.05E+10
225470167	70 (24)	230.22	0.86	1.13		PREDICTED: transcription repressor MYB6 [Vitis vinifera]	1.10E+10	9.70E+09
225427431	55 (4)	221.57	0.06	1.96		PREDICTED: transcription factor MYB113 [Vitis vinifera]	3.10E+10	1.58E+10
225442144	53 (22)	215.57	0.29	1.95		PREDICTED: transcription factor MYB82 [Vitis vinifera]	2.10E+09	4.08E+09
225461291	56 (17)	214.78	0.27	1.3		PREDICTED: transcription factor MYB39 [Vitis vinifera]	6.51E+09	8.49E+09
220979400	43 (4)	211.44	0.03	2.25		R2R3 MYBA6 transcription factor splice variant 1 [Vitis vinifera]	8.18E+09	3.64E+09
731407447	56 (17)	210.2	0.84	1.05		PREDICTED: transcription factor MYB82-like [Vitis vinifera]	3.84E+09	4.04E+09
526117848	53 (13)	208.34	0.78	1.01		flavonoid-related R2R3 MYB 4a repressor transcription factor [Vitis vinifera]	6.10E+09	6.17E+09









526118134	61 (18)	206.04	0.2	2.98		R2R3 Myb30 transcription factor [Vitis vinifera]	1.79E+09	5.34E+09
731434687	62 (18)	203.25	0.04	1.83		PREDICTED: myb-related protein Myb4 [Vitis vinifera]	1.47E+10	8.00E+09
731417479	57 (14)	202.92	0.03	3		PREDICTED: transcription factor MYB90-like [Vitis vinifera]	1.68E+10	5.60E+09
731430989	50 (14)	198.97	0.17	1.82		PREDICTED: myb-related protein 308-like [Vitis vinifera]	3.95E+09	7.18E+09
225427423	53 (4)	197.92	0.06	1.94		PREDICTED: transcription factor MYB75-like [Vitis vinifera]	3.02E+10	1.55E+10
526117860	68 (8)	197.47	0.05	1.97		R2R3 Myb14 transcription factor [Vitis vinifera]	6.65E+09	1.31E+10
225429660	51 (12)	192.05	0.74	1.06		PREDICTED: transcription factor MYB3 [Vitis vinifera]	5.24E+09	5.54E+09
526117481	28 (18)	172.09	1	1.61		chalcone--flavonone isomerase 2 [Vitis vinifera]	2.09E+09	1.30E+09
47232544	51 (8)	170.03	0.47	1.37		myb-related transcription factor VvMYBA2 [Vitis vinifera]	6.31E+09	8.63E+09
526118012	66 (34)	167.84	0.38	1.83		R2R3 transcription factor MYB108-like protein 2 [Vitis vinifera]	2.24E+09	4.10E+09
82623170	48 (7)	167.39	0.82	1.38		transcription factor MybA [Vitis vinifera]	5.80E+09	4.21E+09
526117437	52 (16)	162.46	0.28	1.68		R2R3 MYB60 transcription factor [Vitis vinifera]	4.77E+09	8.04E+09
225463990	50 (14)	152.45	0.23	2.16		PREDICTED: transcription repressor MYB6 [Vitis vinifera]	1.94E+09	4.20E+09
225447685	44 (6)	144.47	0.87	1.01		PREDICTED: transcription factor MYB39 [Vitis vinifera]	4.89E+09	4.93E+09
526117687	31 (15)	122.55	0.65	1.13		leucoanthocyanidin reductase 2 [Vitis vinifera]	5.47E+09	6.17E+09
225445579	31 (9)	120.71	0.6	1.03		PREDICTED: transcription factor MYB82 [Vitis vinifera]	2.56E+09	2.64E+09
225458515	34 (16)	94.14	0.91	1.21		PREDICTED: transcription factor MYB44 [Vitis vinifera]	3.26E+09	2.68E+09
	Anova p-value ≤ 0.05							
	Up-Regulated in DK							
	Up-Regulated in BB							




Supplementary Table S6. Mass spectrometric analysis of total proteins from reproductive tissues of the DK and RG grape lines.

Data shown for replicates 1 and 2.

Accession	Peptides	Score	Anova (p)*	Fold	Tags	Description	Average Normalised Abundances*	
							DK	RG
122893276	132 (70)	618.34	0.04	5.5		phenylalanin ammonia-lyase [Vitis vinifera]	4.32E+10	7.84E+09
526117770	122 (51)	617.96	0.03	4.83		MYB5b [Vitis vinifera]	3.78E+10	7.81E+09
225446080	106 (68)	571.22	0.01	6.79		4-coumarate--CoA ligase 2 [Vitis vinifera]	9.12E+10	1.34E+10
731425702	92 (50)	369.89	0.02	5.33		PREDICTED: transcription factor MYB39-like isoform X2 [Vitis	1.83E+10	3.43E+09
225454815	62 (30)	351.79	0.07	4.42		PREDICTED: anthocyanidin 3-O-glucosyltransferase 2 [Vitis vinifera]	1.19E+10	2.69E+09
526117485	95 (46)	339.47	0.58	3.69		naringenin,2-oxoglutarate 3-dioxygenase [Vitis vinifera]	1.44E+10	3.89E+09
526117870	106 (67)	327.87	0.02	10.92		chalcone synthase [Vitis vinifera]	5.33E+10	4.88E+09
225431879	79 (40)	324.26	0.7	3.27		PREDICTED: transcription factor MYB12 [Vitis vinifera]	9.26E+09	2.83E+09
59939328	76 (45)	314.82	0.02	7.6		dihydroflavonol 4-reductase [Vitis vinifera]	4.74E+10	6.24E+09
258558776	82 (42)	300.53	0.03	5.19		MYBF1 [Vitis vinifera]	6.85E+09	1.32E+09
225458725	76 (39)	282.35	0.07	5.3		PREDICTED: transcription factor MYB44-like [Vitis vinifera]	2.29E+10	4.31E+09
225434329	69 (34)	270.81	0.06	5.4		PREDICTED: trans-cinnamate 4-monooxygenase [Vitis vinifera]	2.35E+10	4.35E+09
225429672	74 (36)	269.47	0.29	2.99		PREDICTED: transcription factor MYB114 [Vitis vinifera]	7.08E+09	2.37E+09
225442138	61 (28)	265.85	0.1	5.87		PREDICTED: transcription factor MYB114 [Vitis vinifera]	6.51E+09	1.11E+09
526117902	54 (31)	253	0.02	5.89		leucoanthocyanidin reductase 1 [Vitis vinifera]	1.96E+10	3.33E+09

225448491	70 (41)	247.02	0.01	11.26		PREDICTED: myb-related protein B [Vitis vinifera]	2.22E+10	1.98E+09
526117864	54 (30)	244.53	0.03	5.09		R2R3 Myb transcription factor C2 repressor motif protein [Vitis vinifera]	3.28E+10	6.44E+09
225423967	64 (25)	240.21	0.25	5.19		PREDICTED: tetraketide alpha-pyrone reductase 2 [Vitis vinifera]	2.89E+10	5.57E+09
297738990	60 (26)	229.32	0.57	2.75		unnamed protein product, partial [Vitis vinifera]	4.85E+09	1.76E+09
526117920	61 (33)	224.8	0.03	4.13		leucoanthocyanidin dioxygenase [Vitis vinifera]	1.22E+10	2.95E+09
225470167	69 (36)	204.9	0.06	2.74		PREDICTED: transcription repressor MYB6 [Vitis vinifera]	8.60E+09	3.13E+09
731386250	55 (30)	202.33	0.89	1.59		PREDICTED: transcription factor MYB44-like [Vitis vinifera]	2.08E+09	1.31E+09
526117894	46 (15)	199.69	0.07	3.91		anthocyanidin reductase [Vitis vinifera]	1.87E+10	4.79E+09
225462046	57 (30)	198.49	0.01	2.03		PREDICTED: transcription repressor MYB4 [Vitis vinifera]	2.77E+09	1.36E+09
526117359	36 (11)	193.43	0.05	10.93		uncharacterized protein LOC100265568 [Vitis vinifera]	5.70E+10	5.22E+09
359490763	53 (32)	192.51	0.12	12.75		caffeic acid 3-O-methyltransferase [Vitis vinifera]	3.41E+10	2.67E+09
733214879	39 (17)	189.45	0.08	3.33		flavonoid methyltransferase [Vitis vinifera]	5.11E+09	1.53E+09
526117848	48 (26)	183.57	0.57	1.08		flavonoid-related R2R3 MYB 4a repressor transcription factor [Vitis vinifera]	3.52E+09	3.79E+09
526117764	53 (15)	182.52	0.26	1.72		Myb transcription factor [Vitis vinifera]	7.04E+09	4.08E+09
225442142	43 (19)	169.61	6.24E-03	8.24		PREDICTED: myb-related protein Zm38 [Vitis vinifera]	8.85E+09	1.07E+09
731407447	50 (20)	168.83	0.18	2.95		PREDICTED: transcription factor MYB82-like [Vitis vinifera]	4.84E+09	1.64E+09
225446136	49 (25)	167.46	0.5	4.22		PREDICTED: myb-related protein 306 [Vitis vinifera]	8.02E+09	1.90E+09
526118134	42 (20)	159.21	0.3	1.86		R2R3 Myb30 transcription factor [Vitis vinifera]	1.41E+09	2.62E+09
526118012	50 (32)	155.37	0.88	2.08		R2R3 transcription factor MYB108-like protein 2 [Vitis vinifera]	3.60E+09	1.73E+09
731434687	44 (26)	147.77	0.23	9		PREDICTED: myb-related protein Myb4 [Vitis vinifera]	6.76E+09	7.52E+08
225429660	43 (20)	147.45	0.18	1.68		PREDICTED: transcription factor MYB3 [Vitis vinifera]	1.58E+09	9.45E+08

<u>220979400</u>	22 (6)	142.87	6.83E-03	22.32		R2R3 MYBA6 transcription factor splice variant 1 [Vitis vinifera]	1.54E+10	6.89E+08
<u>359491528</u>	26 (16)	139.18	4.04E-03	11.1		PREDICTED: transcription factor WER [Vitis vinifera]	1.75E+10	1.58E+09
<u>731422987</u>	41 (22)	138.42	0.13	2.43		PREDICTED: transcription factor MYB76-like [Vitis vinifera]	5.96E+09	2.45E+09
<u>731430989</u>	36 (19)	133.28	0.27	1.47		PREDICTED: myb-related protein 308-like [Vitis vinifera]	1.06E+09	1.55E+09
<u>526117481</u>	19 (16)	118.91	0.74	2.16		chalcone--flavonone isomerase 2 [Vitis vinifera]	4.33E+08	2.00E+08
<u>225426160</u>	31 (14)	101.39	0.2	4.36		PREDICTED: transcription factor MYB86 [Vitis vinifera]	4.33E+09	9.93E+08
<u>225458515</u>	25 (8)	85.72	0.09	2.6		PREDICTED: transcription factor MYB44 [Vitis vinifera]	3.52E+09	1.35E+09
<u>359481933</u>	21 (8)	65.84	0.01	1.71		PREDICTED: myb-related protein 305 [Vitis vinifera]	5.45E+08	3.18E+08

	Anova p-value ≤ 0.05
	Up-Regulated in DK
	Up-Regulated in RG

Supplemental Data Set 1. Differently expressed genes among the fruit peel samples.

Gene	BB	RG	DK
LOC100266436	0.705335	7.63774	5.0651
LOC100262788	7.44834	1.27224	13.1086
LOC100260982	0.610214	2.69349	1.00309
LOC100266262	1.01993	3.39478	19.9158
LOC100244000	10.1089	17.6016	3.42321
LOC100250897	9.70933	1.38073	5.16004
LOC100242416	5.16697	2.26075	15.8756
LOC100267908	9.72115	0	7.1535
LOC100247541	0	1.80822	0.915275
LOC104878923	0	0.315968	2.79837
LOC100264480	0.470762	0.197464	2.72149
LOC100262843	0.812207	7.89362	2.60331
LOC100257723	6.1814	38.4813	11.6641
LOC100247480	0.0267809	0.502039	2.6676
LOC100262991	11.7424	3.70619	19.8437
LOC100247323	2.31303	10.0671	4.16889
LOC100259502	1.6021	7.78343	1.60541
LOC100245576	2.14893	23.2352	12.901
LOC100262836	0.184064	0.284214	1.33347
LOC100259291	27.9309	7.48996	31.3999
LOC100261188	6.52122	36.4914	14.9042
LOC100254317	5.94301	21.5939	85.9236
MYBC2-L1	91.9737	25.6615	21.4527
LOC100252471	0.81758	3.00402	11.2943
LOC100254219	1.90535	1.16208	14.2546
LOC100262819	3.98116	6.49345	92.7793
LOC100257690	2.35022	11.8055	0.343878
LOC100233130	0.321283	5.38743	4.28599
LOC100257722	7.85896	0.452436	0.104891
LOC100244068	0.0318079	0	3.68011
LOC100242302	9.42148	5.33232	48.4306
LOC100249075	0.287389	6.40002	1.78866
LOC100264465	0.659215	0.334561	3.75502
LOC100267978	0.486017	2.01757	3.09079
LOC100260250	16.9115	28.667	6.84745
LOC100251695	8.33376	6.48855	28.3738
LOC100854095	0.218881	5.993	6.0745
LOC100258559	0.427736	0.310934	5.366
LOC100267261	0.272038	0.616198	1.52949
LOC100248463	2.02143	5.51306	1.34461
LOC100253486	6.47467	20.7873	35.632
LOC100246738	5.49167	1.19973	2.62183
LOC100253576	84.5552	6.50611	11.8214

LOC100258696	10.8022	296.262	320.131
LOC100262076	0.66063	12.2938	1.78401
LOC100249919	0	1.41493	0.949016
LOC100248178	0.318824	3.42047	0.70841
LOC100255708	0.434778	16.9344	33.6122
LOC104880116	0.614637	3.95417	0.178043
LOC100249622	17.8773	34.105	3.89925
LOC104880138	0.698353	2.81005	2.23173
LOC100258240	8.15305	20.1652	40.3096
LOC100251346	0.186554	1.24701	0.0643737
LOC100253093	2.32928	0.482264	0.454602
LOC100249555	1.26317	8.63856	6.24387
LOC100266692	0.431815	1.56459	0.341438
LOC104880233	0.84408	5.1681	2.89695
LOC100254591	7.05244	0.468504	1.81201
LOC100257993	2.31131	0.591953	3.026
LOC100245965	1.14623	4.72084	5.25557
LOC100266558	0.397681	3.82395	0.377181
LOC100259590	1.23357	46.1304	8.831
LOC100264769	14.4282	22.9798	5.03845
LOC104880458	685.651	21.2517	81.0167
LOC104880461	287.681	15.0745	27.6672
LOC100259595	2.78047	0.276111	0.924758
LOC100242487,LOC100264777	4.13316	0.594622	0.693062
LOC100252727	0.683288	0.0745059	1.75348
LOC100244331,LOC100249476	4.7921	0.878414	0.233091
LOC100254585	1.11608	4.07387	0.709226
LOC100249487	1.91023	0.0897981	0
LOC100263123	0	1.28049	0.198113
LOC104880513	0	14.234	3.2228
LOC104880515	0.244828	3.19256	0.834038
LOC104880521	0	11.5144	4.2211
LOC100259196	0.821702	8.5499	3.96914
FAOMT	50.7872	14.0773	0
LOC100853551	1.18208	2.61709	0.515779
LOC104880633	0.180888	0.286073	3.70292
LOC100245367	64.0533	0.628288	55.6353
LOC100854734	4.086	0	1.09949
LOC100855410	4.74548	1.07056	1.88597
LOC100248984	29.1151	5.8612	37.0113
LOC100250476	7.15836	7.19608	1.6806
LOC100245345	50.2636	12.4169	26.3835
LOC100267772	0.214282	3.06504	1.46398
LOC100232906	4.0633	1.39163	10.2805
LOC104879282	5.35417	10.6933	27.3055
LOC100259322,LOC100264496	53.8989	1.41598	40.8874
BG1	1.09744	6.89177	0.13962

LOC100254419,LOC104877428	1.74399	4.207	0.766423
LOC100250979	55.7516	4.08746	21.43
LOC100247487,LOC100264700	43.3497	28.4563	184.946
LOC100266416	14.0647	34.3978	4.29508
LOC104878973	6.16256	0	5.11864
LOC104878972	1.47432	0	0.0731115
LOC104878965	0.50941	0	2.59464
LOC104879340	0.598067	3.20685	0.400362
LOC100257577	8.37591	28.6989	145.603
LOC100852498	0.342579	1.83437	0
LOC100250961	1.69944	0.53881	10.9676
LOC100257863	0.198009	9.34087	0.0848397
LOC100249076	1.75102	1.17185	5.67351
LOC100261252	0.273218	1.01988	1.28386
LOC100267893	0.237562	1.89339	1.67669
LOC100252491	0.338261	0.334924	3.68057
LOC104882357	2.42403	0.241421	0.300285
LOC100262736	10.5047	0.233435	0.0924202
LOC104881294	1.02261	3.22973	0.760343
LOC100257750	0.519757	8.68785	0.806428
LOC100252699	1.58065	7.43383	9.99499
LOC100250994	0.177094	1.06313	0.0861047
LOC100256086	1.55499	0	0.417404
LOC100264640	6.78385	1.82049	1.6594
LOC100259463	0.563837	63.8852	75.2458
LOC100249254	0.247092	3.2441	2.71411
LOC100247446	0.372665	2.91184	0.580654
LOC104879119	3.48323	0.0547375	0
LOC100261163	34.9411	18.481	7.24793
LOC100266415	0	20.9277	2.70591
LOC100242453	70.995	59.8831	13.2192
LOC100242197	8.69814	0.912508	22.7906
LOC100266215	0.77432	6.73371	2.43384
LOC100244027	7.96589	50.8476	18.6684
LOC104877321	3.10482	0.21276	6.26538
LOC100261157	0.0663428	8.89209	0.390233
LOC104879692	4.39405	14.2215	21.2255
LOC100249925	5.0072	6.12686	23.2318
LOC100251624	3.17534	1.55887	0.62815
LOC100248190	1.36627	14.9622	15.4372
LOC104879657	0.529841	4.57653	23.9464
LOC100244715	1.15198	9.69992	19.1849
LOC104879710	15.5446	25.4422	203.874
LOC100852822	26.0847	11.618	129.082
LOC100852797	2.88586	52.4261	30.9517
LOC100852697	1.64952	13.6371	5.84636
LOC104880029	1.26083	0.0968425	12.0923

LOC100263777	2.43031	2.77271	27.2027
LOC100243241	4.7687	1.04136	0.672238
LOC100244964	2.04392	36.1884	18.7096
LOC100854597	2.40654	22.8838	4.6407
LOC100255341	0.301549	2.2762	1.6738
LOC100246832	3.25224	20.6783	58.5432
LOC100250071	3.27966	0.405761	1.25199
LOC100253553	0.0455985	4.38011	1.05961
LOC100246639	3.64623	13.1416	15.9125
LOC100241332	13.8193	2.85357	59.9502
LOC100260247	1.16919	0.92112	4.4589
LOC100258541	15.016	49.9233	71.1235
LOC100255052	0.174589	0.783359	1.80821
LOC100262011	69.517	10.3321	52.2787
LOC100241338	1.94605	10.6876	2.85797
LOC100256507	1.69948	18.2982	33.1126
LOC100263380	0	1.79347	0.0461411
LOC100266718	0.170976	1.13817	2.5438
LOC100261517	0.520767	1.08631	3.80298
LOC104880653	0.418808	0.530404	2.02603
LOC100258158	10.8228	25.4874	57.8017
LOC100259859	34.6109	8.93454	80.4088
LOC100265010	0.286872	1.75237	1.24292
LOC100243095	1.23701	5.12624	3.87167
LOC100251075,LOC100265393,LOC100855072,L	1.05238	2.97598	5.67055
LOC100249479	7.34276	9.97731	30.0731
LOC100259700	2.48097	0	0
LOC100242603	453.184	3326.46	2405.25
LOC100251079	1.01385	0.36233	2.1639
LOC100240962	8.13043	33.1629	26.4798
LOC100261435	1.66512	5.30321	1.20462
LOC100259604	12.8112	5.79566	1.21695
LOC100264777	4813.97	210.37	1531.35
LOC100251213	0.132114	1.89419	0.316536
LOC104880508,LOC104880714	0.570185	7.86979	0.645676
LOC100855198	0	3.31219	0.308215
LOC100855337	0.192426	1.15949	1.0636
LOC100242071	0.100964	9.29311	2.11793
LOC100241971	0.0427322	1.41704	0.323758
LOC100245446	12.2126	2.92386	8.25262
LOC100243827	70.2265	4.60184	8.36275
LOC104880823	51.0987	239.415	317.276
LOC100264403	0.521016	14.4642	1.09397
LOC100257506	0.921822	6.23208	0.721281
LOC100266047	0.424076	1.85284	0.623246
LOC104880871	0.118871	0.585953	1.6585
LOC100242104	32.7271	8.6495	37.5181

LOC100248869	0.651528	0.524758	15.8969
LOC100255664	49.849	30.2969	7.77727
LOC100262614	1.04204	5.09673	0.327668
LOC100264381	0.776295	3.16814	7.51147
LOC100248590	14.2926	465.956	80.9019
LOC100253692	0	4.07304	0.660643
LOC100250303	1.63432	8.92094	0.941433
LOC100241922	1.54171	6.45154	5.85798
LOC100252176	9.86102	3.56252	23.7767
LOC100241814	136.545	14.7563	316.014
LOC100252079	0.281778	1.28734	0.883768
LOC100262309	5.63382	1.62699	7.75184
LOC100855171	0.62888	2.19105	5.82343
LOC100243417	0.460617	2.22016	1.92138
LOC100252168	106.208	25.5569	73.9122
LOC100267564	7.5551	3.17119	17.8443
LOC100250388	9.24473	9.99172	0.743246
LOC104880486	11.1718	0.0438842	0.402534
LOC100266966	0.58826	3.26792	1.01086
LOC100251542	0.500982	0.696428	2.66369
CIPK16	15.5799	3.7586	1.64819
LOC100261772	2.92404	8.18324	12.9576
LOC100244635	3.40019	10.177	18.3905
LOC100249702	0.969506	1.88255	0.419367
LOC104880544	0	1.93739	0.163201
LOC100246406	3.26051	28.0026	5.54496
LOC100244640	17.9486	4.98678	4.45071
LOC104880494	29.5945	12.9741	4.55008
LOC100241193	1.97834	4.07043	41.1505
LOC100251456	4.49462	0.397387	3.17568
LOC100256593	0.799549	1.05315	9.25984
LOC100261690	0.857327	4.55455	9.94783
LOC100852589	0.399784	3.50712	0.286312
LOC100260638	1.47284	0.243022	0.0713791
LOC100257300	0.711759	5.40906	3.86222
LOC100262345	3.29286	0.340389	1.43259
LOC100241745	35.6697	11.2492	168.899
LOC104880558	1.19148	0.323717	0
SIRK	8.05694	1.4355	6.38583
LOC100257299	0	0	2.18223
LOC100855345	0	0.127211	1.25152
LOC100251443	0	0.0383096	1.40201
LOC104880522	1.83416	9.59006	0.112084
LOC104880524	0.03753	10.2472	0.134102
LOC100241242,LOC104880527	0.701226	3.13239	1.97219
LOC100268068	1.20623	0.261349	0
LOC104877376	2.38465	0.376634	0

LOC100266188	0	1.00061	0.205055
LOC100249172	1.32398	8.9133	3.03438
LOC100257624	90.9052	48.686	259.715
LOC104880575	0.839946	1.13917	0.236633
LOC100254590	3.97856	0.328667	1.19379
LOC104880589	0	4.55949	10.4332
LOC104880612	0	4.02066	0
LOC100261161	0.957204	0.42622	2.09694
LOC100247588	0.396146	4.01051	3.49156
LOC100257214	0.161811	2.5968	0.138395
LOC100854884	65.2531	171.972	26.2983
LOC104880466	2.4047	1.79346	10.011
LOC100252054	0.672289	0.372896	3.04152
LOC100247041	0.176839	0.626222	8.95886
LOC100243529	1.59478	2.3303	0.302559
LOC100248671	10.2386	3.90593	1.65432
LOC100258905	0.216074	1.15978	0.684526
LOC100246932	3.29154	1.43786	31.4807
LOC100260637	5.71448	8.71684	1.17045
LOC100265219	0.146173	5.72702	0.52623
LOC100258410	3.43928	1.29623	13.4215
LOC100256680	1.18606	5.34188	1.93464
LOC100265230	1.5995	8.28955	26.1322
CIPK16	34.0813	10.0857	3.42852
LOC100259946	2.398	3.23189	23.5283
LOC100247046	9.92978	57.1104	29.4085
LOC100265897	29.0939	0	0.0841989
LOC100253669	4.88902	3.79302	20.0733
LOC100249766	0.300623	0.822414	1.58371
LOC104880528	2.99723	6.4025	12.0051
LOC104880531	0.855181	0.623191	2.61141
LOC100262778	0.230106	0.0669281	1.17202
LOC100247713	0.346614	0.295837	4.15978
LOC100259563	9.62063	0.318576	3.60403
LOC100256223	40.2128	5.69477	13.4215
LOC100245970	7.38921	28.6876	32.2179
LOC100266562	0.312933	1.34028	0.160284
LOC100254492	0.419383	10.2802	1.24675
LOC100247995	0.89461	3.79374	0.553984
LOC100242940	0.399763	11.46	14.9627
LOC100241201,LOC100263475	0.879489	5.18564	3.10772
LOC100251568	0.190924	2.04476	0.27831
LOC104880605	0.871462	2.32514	4.23486
LOC104880619	1.06056	0.238405	1.94291
LOC104880620	23.5895	3.62874	6.95055
LOC100245658	0	0.922777	1.55614
LOC100249279	18.3431	78.9565	104.197

LOC100267888	28.8743	26.4611	145.941
LOC100247370	5.04041	29.6178	17.001
LOC100243962,LOC100268126	11.0397	1.03615	8.32085
LOC100250788,LOC100254375	2.53889	0.402942	0.583416
LOC100256088	5.88768	2.25134	9.29028
LOC100261078	0.334397	3.62196	3.09579
LOC100249054	0.503559	0.608259	2.89408
LOC100266364	7.65621	11.1207	2.73673
LOC100256142	2.04388	0.11518	0
LOC100268094	9.71096	0.0243778	2.02468
LOC100268013	1.12294	0.837115	6.87943
LOC100853379	0.616433	16.3092	5.89097
LOC104880640	0.704209	4.69461	0.721658
LOC100249096	0.761358	14.6486	10.5705
LOC100247563	2.33565	1.50213	0.376706
LOC100242430	0.272628	2.16882	0.325661
PMT2	1.46469	0.236179	0.54911
LOC104880645	0.26687	0.334682	1.24392
LOC104880676	11.4375	2.12595	1.98597
LOC100257654	833.564	95.999	134.014
LOC100259389	7.10539	31.6719	26.4877
LOC100254268	0.304864	1.50293	1.48402
LOC100266419	19.407	54.2489	157.536
LOC100262921	0	0.298161	1.96105
LOC100250892	0.184911	1.50603	1.23421
LOC100854061	3.06918	12.0183	2.17156
LOC100245678	2.07269	0.414308	0.449277
LOC100264626	200.119	49.0802	337.056
LOC100249240	33.5835	11.7912	6.03889
LOC100247542	1.30549	0.905454	0
LOC100255957	35.2651	9.00316	4.139
LOC100257716	57.2845	14.0545	7.75702
LOC100249959	55.1468	27.4067	125.459
LOC104880694	0.19412	1.24507	0.974036
LOC100265544	0.657656	0.406178	1.9316
LOC100258760	1.25892	0.940885	9.01388
LOC100267270	2.27616	0.116164	0.0299947
LOC100262220	0.59864	0.412425	1.83282
LOC100248411	127.116	38.058	188.221
CYP716A17	7.28184	0.0805484	0.339988
CYP716A15	48.3151	104.773	238.914
LOC100258651	3.09203	0.837529	0.577337
LOC104880763	1.25036	5.0936	8.114
LOC100258430	0.57798	2.42652	3.17589
LOC104880731	12.1548	1.05781	0.799281
LOC100251539	6.03023	1.21651	0.167775
LOC104880778	0.931251	3.79069	1.28583

LOC100243678	1.0887	6.40717	7.10483
LOC100252308	0	1.39209	0.0866598
LOC104880766	3.14476	19.1411	4.61077
LOC100254783	61.2708	16.6236	14.4406
LOC104880790	0.623457	3.32986	0.264712
LOC104880788	13.6177	2.87585	13.104
LOC100251303	18.9389	39.6561	129.357
LOC100246166	2.79608	3.51192	12.813
LOC100258257	1.32674	8.45909	7.89499
LOC100252949	3.16138	0.591505	2.48047
LOC100854235	0.12929	2.15938	0.287779
LOC100247930	0.906718	1.72862	3.74246
LOC100247834	68.8951	1.14043	0.670005
LOC100264662	0.105696	0.434513	5.98187
GER6	2.53252	10.4628	18.0275
LOC100242235	10.6485	8.00689	2.37668
LOC100264512	0.253261	0	1.3588
LOC100254150,LOC104880627	1.87338	0.361862	0
LOC100261010	0.517968	2.48065	1.22206
LOC100264596,LOC104880628	0.104833	0	4.01827
LOC100254298	4.89265	0.131791	2.00401
LECY1	5.83742	0.532157	2.73568
LOC100245780	0.894858	1.87143	4.65665
LOC100242449	0.701083	4.73393	4.99782
LOC100247359	14.1683	13.2134	57.1517
LOC100242363	3.97003	3.17669	18.9967
LOC100249036	34.3655	20.4307	151.987
LOC100264581	0	0.209027	2.07464
LOC100247495	30.3408	6.07047	17.8257
LOC100245766	1.25693	0.119625	0.0529027
LOC100266427	0.868164	3.688	4.34733
LOC100252531	1.08122	6.0901	11.4389
LOC100264574,LOC100268163	3.82924	3.45142	21.1315
LOC100268083	25.053	0.750253	2.42257
LOC100254204	0.964368	14.0719	9.05231
LOC100260990	19.0273	77.3419	9.38827
LOC100255911	1.60731	12.4106	0.723514
LOC100250904	0.983795	0.617049	7.87504
LOC100266175	0.110191	1.16042	0.193434
LOC100267909	0	1.48647	0.0464567
LOC100853647	0.202344	0.204089	3.9313
LOC100243923	29.0741	57.4158	8.86519
LOC100268054	0.614835	24.6739	1.39686
LOC100249232	32.4619	79.1308	16.6881
LOC100248934	2.9733	0.171222	0.945171
LOC100247195	131.364	0.121115	0
LOC100249966	13.3909	9.18828	2.42002

LOC100267134	13.8102	16.3294	60.9818
LOC104880688	14.7417	8.78033	42.9445
LOC100243222	1.24986	6.13548	5.27706
LOC100255413	0	112.713	33.7267
LOC100250192	0.340175	4.98771	2.2609
LOC100854114	0.807691	4.48514	0.450367
LOC104880723	2.22544	0	0.742594
LOC100262122	9.43389	0.0460476	0.0167901
LOC100267215	13.4197	10.6517	2.03813
LOC104880762	0	2.0272	0.377964
LOC104880753	0.136712	0.663365	1.18746
LOC100855096	0.50062	3.21283	3.04002
LOC100248929,LOC100253912	0.208079	0.404057	2.16582
LOC100245404	0.151696	1.14329	0.792273
LOC100855243	4.53535	16.6854	2.39635
LOC100266751	0.698063	3.53048	3.27078
LOC104880789	1.13638	5.56174	0
LOC100249583	0.511553	0.0797174	3.96596
LOC100244428	7.14815	0.363951	0.263031
LOC100246245	18.5975	24.7597	89.4161
LOC100264996	0.587155	2.7882	0
LOC100259802	0.39618	10.3841	1.01704
LOC100244426	0.619085	4.47183	13.6466
LOC100256520	6.87903	9.0244	30.5765
LOC100266747	2.18792	1.82077	23.2705
LOC100241119	1.92695	7.68159	1.64361
LOC100256457	2.91917	16.8206	76.7058
LOC100242781	8.16242	55.0404	41.3409
LOC100263305	0.847404	1.87514	3.58417
LOC100266820	0.237095	3.51601	0.794404
LOC100854936	1.3542	8.37475	3.83576
LOC100854169	1.1178	3.79008	5.18111
LOC100252233	0.632849	0	6.83836
LOC100242081	0.271515	0.740486	1.25015
LOC100855381	1.82465	1.84985	0.366034
LOC100252279	8.91729	5.32293	28.9798
LOC100257381	0.193112	1.90139	0.283559
LOC100254085	2.01475	6.2229	9.97794
LOC100248870	3.64264	1.24199	0.619995
LOC100253969	0.226775	0.114968	1.44595
LOC100243659	0.188194	0.518821	1.48287
LOC100248798	1.76297	6.88209	0.873695
LOC100243744	1.22374	0.834383	18.3495
LOC100267794	0.0774704	1.26183	0.201545
LOC100245484	0.051806	0	4.22516
LOC100258492	0.455494	2.30818	1.49108
LOC100263637	41.4873	5.54317	2.46714

LOC100253369	1.13102	0.124296	1.71411
LOC100265426	35.6227	9.09739	60.4025
LOC100233045	3.18478	69.9024	1.15362
LOC100260211	0.767121	19.6007	44.9967
LOC100261876	129.653	31.4771	105.653
LOC100243183	0.916516	0.317713	1.30436
OMT1	0.0298004	0	1.71053
LOC100248306	6.03317	1.75114	10.0265
LOC104880880	0	0	20.7855
LOC100261846	2.23832	0.565597	11.1237
LOC100246512	0	0	1.02942
LOC100253364	0.829531	3.69466	8.23491
LOC100255186	0	3.00278	0.225078
LOC100261836	0.229036	2.34475	0
LOC100256744	0.425152	1.25594	1.94777
LOC100248328	0.458595	8.54448	15.1988
LOC100245897	77.7099	10.7343	93.9184
LOC100251039	190.825	82.6055	40.3607
LOC100263177	0.58233	1.72788	3.01395
LOC100259728	0.955749	3.26328	10.1076
LOC100854493	2.80696	14.7385	25.4962
LOC100242544	4.93467	28.458	37.5223
LOC100247678	23.2217	6.37308	5.39927
LOC104880927	5.88543	1.44463	0.712172
LOC100263071	2.31639	0.21117	0.540329
LOC100244934	0.281225	1.71417	2.28286
LOC100243324	0	0.109991	1.5345
LOC104880950	0.813143	2.29046	0.39569
LOC100854937	1.41143	1.0745	6.3843
LOC100253830	1.03247	5.00472	5.4181
LOC100853523	3.86092	0.534345	0.932786
LOC100267415	1.80742	5.58688	11.12
LOC104880967	0	1.03635	0.172699
LOC100253734	1.76785	7.57636	3.68209
LOC100265176	5.19375	23.2556	21.8747
LOC104880991	0.237455	1.47905	0
LOC100261789	12.4168	0.355426	6.56119
LOC100248011	66.0501	7.01779	227.231
LOC100246324	1.68439	1.65284	0.371066
LOC104880986	3.48586	1.93492	0.397293
LOC100242860	6.15908	28.2411	6.25561
LOC100241211,LOC100246336	2.50394	3.86601	0.709429
LOC104881073	2.63363	0	0.700743
LOC100242191	2.16495	18.0452	10.393
LOC100252443	17.6676	78.5076	34.0169
LOC100243910	1.594	3.52162	0.654667
LOC100266411	0.766137	1.34746	4.65154

LOC100243768	5.04238	4.34808	1.20752
LOC104881040	0.0627925	0.02768	1.27804
LOC100250636	0.074294	0.199151	1.44206
LOC100233113	56.2454	124.719	745.59
LOC104881028	8.39445	1.58836	5.28979
LOC104881026	13.6636	7.78267	0.286821
LOC100253941	1.41941	0.291725	0.66216
LOC100852672	0.23653	4.08522	0.294736
LOC100259242	2.99973	7.07614	1.70446
GST3	44.8846	0.440727	0
LOC100262536	103.51	0.948365	0.152646
LOC104880855	0	1.20455	0.276861
LOC100255689	2.44119	0.993164	6.24804
LOC100266079	6.01127	3.22573	17.7871
LOC104880825	4.12072	1.56583	7.47263
LOC100255665	1.00669	0	0
LOC100266060	0.0938933	0.935939	5.91021
LOC100253895	8.54036	5.43305	38.8731
LOC100264432	21.0317	0.837017	59.0926
LOC100243748	1.52987	0.881088	3.9275
LOC100243770	3.95861	1.4166	0.839523
LOC100265959	2.55558	0.291633	3.46748
LOC100241471	0.402454	8.99068	3.43597
LOC100258604	0.6362	3.22184	1.17518
LOC100253285	1.11091	0	0.604858
LOC100243037	6.40117	0.863187	9.98313
LOC104880864	0	1.71843	2.68457
LOC100256792	49.8448	14.8961	71.6414
LOC100256762	1.58283	2.09486	10.6985
LOC100260185	7.52788	0.174944	1.8905
LOC100255020	117.147	42.0069	231.72
LOC100267124	0.676346	0.159723	14.8997
LOC100251662	36.4894	7.62394	7.67188
LOC100260207	2.1874	0.265804	0.134203
LOC100265388	19.7045	4.61224	21.7191
LOC104880896	1.15484	8.86861	2.43966
LOC100266600	0.224042	0.0979593	1.58584
LOC100247755	0.53481	33.6739	1.44591
LOC100266583	6.38323	0.69975	4.30842
LOC100252786	44.1235	8.64828	4.46846
LOC104880934	0	0.824431	1.47406
LOC100244155	3.19361	14.7704	20.1437
LOC100250179	0.0782654	1.22132	0.206043
LOC100265939	0.836889	2.16163	0
LOC100854898	0	0	11.398
LOC100241766	0.408388	0.442163	2.29287
LOC100265929	1.30836	6.01756	1.02251

LOC100253842	1.925	0.495983	0.179724
LOC100264156	5.6802	23.0989	10.298
LOC100242982	16.4208	193.148	39.8443
LOC100267003	0.216044	2.01092	0.468997
LOC104881018	23.7706	5.45264	173.776
LOC104880979	16.9736	0	0
LOC104881052	24.6683	3.89511	2.31477
LOC100255940,LOC100855076,LOC104881076	24.3499	29.161	98.0772
LOC104881075	0.360444	1.92782	0.245236
LOC100244072	0	0.0512771	11.0106
LOC100266401	14.5454	0.936182	6.05404
LOC100252582	0	0.770648	1.59245
LOC100267991	1.67178	9.48024	0.361984
LOC104881068	3.40351	0	0.0228384
LOC104881063	44.1198	0.177102	1.71245
LOC104881037,LOC104881066	3.13585	1.35326	0.747262
LOC100855087,LOC104881036	4.2251	0	3.08763
LOC104881060	0.540378	0	1.96854
LOC104881029	16.3089	26.3179	160.908
LOC100243669	3.2877	0.468863	0
LOC100258799	5.54154	0.462766	25.6533
LOC100267240	0.183004	2.43138	0.0980603
LOC100262156	0	0.0958883	1.36859
LOC100263824	0.175785	1.28547	1.15567
LOC100260392	0.883418	3.9355	4.36593
LOC100248525	6.56872	1.13708	1.63048
LOC100265720	25.1984	1.39043	11.2502
LOC100243391	0.643571	0.674293	3.91379
LOC100262072	0.175428	0.758225	2.05611
LOC100257059	0.985733	0.301266	3.90576
LOC100246797	9.02155	0.585921	5.41645
LOC100267208	1.53656	0.921429	0.377822
TIP1%3B1	10.0503	6.27945	68.3849
LOC100242729	5.56169	25.8124	8.38258
LOC104881141	0	1.06143	0.844555
LOC100256478	3.92273	27.5342	25.1173
LOC100241117	4.81473	1.67042	13.1585
LOC100244410	5.56965	2.03601	9.9314
LOC100241120	3.21947	18.741	6.41195
LOC100852492	0.470913	2.10509	3.88652
LOC100249681	2.00585	1.66547	7.00157
LOC100265103	279.884	38.8998	113.755
LOC100256525	0.518778	0.897297	3.60801
LOC104881130	0	0.0717884	1.60226
LOC100258131	0	0.430713	1.51048
LOC100854960	97.1009	10.7253	52.4815
LOC100256408	3.0271	13.016	10.7562

LOC100259884	0.659455	1.53241	10.4449
LOC100247927	0.235612	0.346162	4.73475
LOC100242738	127.654	35.165	26.5953
LOC100259896	0	0.302124	1.36911
LOC100247937	0	0	10.2871
LOC100263243	0.255001	0.595879	1.51214
LOC100242744	0.385231	7.04888	7.95973
LOC100233012	264.068	94.8195	22.2193
LOC100246181	0.401062	1.29961	0.130312
LOC100266758	1.75727	71.1433	0.52358
LOC100240997	0	1.12983	0.304744
LOC100259215	2.21013	4.05153	19.338
LOC100253963	1.15232	6.54914	0
LOC100260154	17.1971	3.6515	0.129286
LOC100246540	0.0607465	0	2.61433
LOC100256822	4.08577	10.0186	22.0779
LOC100248168	4.87782	0.0293295	1.07339
LOC100244711	1.17942	0	0.546761
LOC104881227	0.45406	1.04764	2.60016
LOC100252264	19.6809	0.0549184	0.800838
LOC100259226	5.49248	1.24039	3.51234
LOC104881248	0	2.03193	0.147707
LOC100267759	6.06821	0.126675	2.2852
LOC104881231	0.917319	3.11579	0.598551
LOC100251485	0.802705	9.08302	5.22034
LOC104881266	0	2.29757	0.520843
LOC100248982	0.315091	40.3759	11.3919
LOC100266045	2.47613	1.06548	11.9593
LOC100853980	1.61242	11.0508	7.18178
LOC100242949	7.8104	37.0329	7.84522
LOC104881277	1.70132	6.88072	0.935416
LOC100244656	1.16103	2.42095	0.311733
LOC100852683	1.2365	9.42943	3.25583
LOC104881298	2.07782	0.254787	0.310469
LOC100251683	30.0648	6.9831	19.4095
LOC100246545	0.194848	8.88786	0.775956
LOC100248271	12.1566	0.217167	9.67444
LOC100248253	0.971488	1.96263	0.346266
LOC100265437	0.221578	1.49987	0.643569
LOC100244848	4.54187	0.951269	1.16903
LOC100853803	0.188981	4.36439	10.5206
LOC100241493	1.11619	0	4.37105
LOC100251681	5.08636	1.26492	5.51807
LOC100855101	0.947472	0.360131	4.02205
LOC100242459	0.493632	2.3239	0.255801
LOC100252934	2.73247	9.31857	13.3338
LOC100258065	3.00483	17.5707	0.335873

LOC100240945	0.63778	8.97122	2.02483
LOC100246038	0.286432	5.81891	0.573091
LOC104881350	0.17831	0.0838537	1.80339
LOC100261425	0.241708	2.56269	25.3759
LOC104881349	0.918866	1.76785	5.0386
LOC100249452,LOC100264857,LOC100853465	4.74951	4.73872	21.1857
LOC104881346	2.26222	0.925788	48.2413
LOC100245930	0.647346	0.554708	6.21188
LOC100255315	0.738339	5.78263	1.3496
LOC100245030	2.62008	0.453609	2.79956
LOC100243201	43.6171	16.0535	67.1592
LOC100267317	1.02559	1.41848	4.62028
LOC100262045	1.81105	1.45445	9.70858
LOC100263817	9.72256	19.2941	3.65971
LOC100255303	0.567637	0	1.52762
LOC100267335	46.9241	8.13215	106.163
LOC100245000	0.200325	2.00634	2.32896
LOC100265591	1.19309	3.2092	20.0358
LOC100854814	0.162519	0.190007	2.01562
LOC100265586	0.484439	3.28557	2.89919
LOC104881144	26.3371	2.87686	35.131
LOC100265056	0.515775	3.9937	0.408095
LOC100251241	5.19742	18.8841	30.3997
LOC100261491	0.21265	0.120429	3.24478
LOC100241084	3.74307	0.92402	2.80373
LOC100242821	23.6864	4.48434	11.0294
LOC100261545	0.289409	2.05174	6.17652
LOC100249578	0	0.473866	3.39995
LOC100259842	5.80785	1.59145	1.35528
LOC100247965,LOC100253091	114.863	25.4297	202.696
LOC104881153	2.2223	22.0296	1.98051
PIP2%3B1	1229.55	400.542	1776.23
LOC100258229	119.023	15.4599	11.4652
LOC100249618	31.0139	1.36468	9.77612
LOC100259822	0.410493	3.19177	0.364927
LOC100262621	1.41914	0	0
LOC100241998	2.73121	11.7109	25.9144
LOC104881194	2.45623	0	1.66192
LOC100267185	0.0692121	0.329121	17.4466
LOC100248183	0.683145	0.111905	21.9562
LOC100265452	8.18009	8.18431	1.53303
LOC100256901	1.28113	0.462496	0.0831502
LOC100244619	1.41784	0.0666264	0
LOC104881225	0.447799	2.04101	3.14945
LOC100250801	0.896598	0.812953	6.44069
LOC100267983	1.3517	1.65832	5.63132
LOC104881229	0.870196	2.09551	0

LOC100259102	2.53301	0.132415	0.53469
LOC100253935	1.29271	0.619822	0.0811749
LOC100256621	9.62764	12.7647	2.19827
LOC104881267	0.489575	2.15387	1.49247
LOC104881264	1.64325	0.583625	4.09155
LOC100267657	1.47992	0.198686	3.67314
LOC100260835	3.45603	1.51313	6.51669
LOC104881260	0.348922	0	1.28498
LOC100248873	0.421875	5.82067	2.24365
LOC100267765	0.182832	0.451823	1.14902
LOC100854267	69.0137	0.21036	0.113978
LOC104881279	3.95898	0.934751	3.173
LOC100256802	0.292484	2.60134	0.119396
LOC100251675	0.109878	1.29836	0.468267
LOC100246623	13.0121	2.99192	9.40805
LOC100248162	6.03624	1.68632	6.85548
LOC104881338	18.0466	0	2.8897
LOC100263758	2.0093	0.266306	0.889527
LOC104881316	0.359827	0.14551	1.78232
LOC100267144	5.86476	0	0
LOC100249468	0.550305	1.2962	4.40922
LOC100254554,LOC104881302	10.5411	12.6258	3.11654
LOC100261320	0.376175	2.24283	0.125241
LOC100263212	0.454265	1.61039	4.60508
LOC100855367	7.45563	13.073	43.3492
LOC100242579	0.0966634	0.179777	1.33091
LOC100247715	0.135251	0.183219	1.01751
LOC100264849	7.98793	11.5205	44.3306
LOC100244282	88.4574	18.0989	30.6655
LOC100257908	0.162777	0.164981	1.10372
LOC100240883	0.869129	0	1.31679
LOC100244157	20.1372	4.15258	8.26525
LOC100232941	2.52381	2.67697	24.0132
LOC100240807	3.63656	0.408748	0.158563
LOC100259692	11.405	1.9113	5.82369
LOC100261443	1.34791	7.49815	0.359786
LOC100250410	1.58457	3.09082	8.74782
LOC104881443	0.137669	1.44382	0.92043
LOC104881440,LOC104881456	0	27.5257	4.97085
LOC104881438	0.463151	0.0922728	2.22827
LOC100260652	0.799489	0.0798245	1.1476
LOC100241809	96.0162	23.7262	102.998
LOC100247035	1.87265	8.33168	1.02767
LOC100854778	8.71297	3.42795	17.057
LOC100262295	1.26165	1.80232	7.83238
LOC100267439	7.56614	54.9522	10.5137
LOC100264063	53.5992	7.67512	18.6568

LOC100255405	2655.53	2218.36	383.911
LOC104881471	1.04041	10.8969	0.606017
LOC104877303	0	1.05545	0
LOC104881508	0.243595	0.178767	1.24386
LOC104881521	0.346374	0.38379	4.08539
LOC100261369	24.5318	0.231918	0.0778578
LOC104881494	0.42462	0.782876	1.88506
LOC100264805,LOC104877371	0.464458	2.29682	1.38983
LOC104881513	1.81052	2.11229	0.267749
LOC100240893	3.28854	6.37129	1.03283
LOC100242523	3.81323	9.26773	2.31564
LOC100249700	0.951175	4.51027	0.519221
LOC100251445	3.12247	3.07054	13.3006
LOC100258402	2.47889	4.66783	1.16433
LOC104881585	0	1.04221	2.30327
LOC100246645	4.17191	8.84363	30.4981
LOC100243237	13.638	61.2126	85.9588
LOC100248367	2.46856	13.6544	0.0423811
LOC100251383	0	0.0835689	1.40218
LOC100249652	0.229533	0.0766348	3.31771
LOC100244704	6.93466	19.3985	161.976
LOC100854072	3.88066	34.858	282.487
LOC100241191	0.577307	1.76121	0.382613
LOC104881566	0.694926	3.67116	0.573799
LOC100249716	3.75368	1.22123	0.209155
LOC100855078	0.885195	4.48463	9.81268
LOC100254983	0.332746	9.7544	3.03747
LOC100253129	0.226391	2.57112	20.2219
LOC104881615	0.333002	2.86307	0
LOC100854073	131.311	6.84621	23.8462
LOC100263410	3.04775	0.620711	6.65761
LOC100249844	0.568028	5.37945	5.15834
LOC100265266	9.84343	41.2877	9.31983
LOC100246380	0.551659	1.17489	6.52244
LOC100246358	34.7721	6.32611	5.63965
LOC100265200	0.921139	1.16374	6.00476
LOC100251434	2.9382	16.0892	4.40671
LOC100260066	5.59595	4.91432	29.4136
LOC100249110	10.4568	2.44318	3.73244
LOC100259468	0.234666	5.98526	1.36704
LOC100245690	0	12.4744	10.5646
LOC100243977	30.9753	8.79124	3.66888
LOC100256128	0	2.07381	1.21822
LOC100852430	0.516349	4.79134	1.77806
LOC100852579,LOC104881666	0.655753	6.00136	4.07558
LOC100254241	39.8884	18.4153	6.48102
LOC100249137	165.22	20.1978	36.3073

LOC100249235	0.332936	0.105176	1.07735
LOC100853467	0.850968	1.15115	3.534
LOC100254380	4.10672	0.469201	0.0256995
LOC100259439	0.202776	0.493419	2.06295
LOC100249226	0.566578	2.33369	1.66417
LOC100244055	0.210383	3.57892	7.06574
LOC104881677	0.150398	1.90801	5.52849
LOC100261249	42.2733	8.09945	33.1539
LOC100257620,LOC100257851	0	1.26586	0.248163
LOC100267969	0.25127	1.44469	0.612267
LOC100256158	1.03898	2.0205	0.397496
LOC100244032,LOC100268107	0.423479	3.47034	1.34409
LOC100247366	0.0227714	0.25601	1.29835
LOC100268097	0.972154	4.12559	3.6366
LOC100242374	13.7466	35.9765	8.65412
LOC100266209	25.8982	27.4849	1.95651
LOC100250998	26.6335	37.126	8.2302
LOC100262730	3.40118	14.63	14.7102
LOC100245918	0.358639	0.396263	2.31604
LOC100261280	3.28471	0.496726	0.482581
LOC100266622	28.4843	6.29866	7.19863
LOC100240902	1.24961	0	1.291
LOC100266479	0.834181	0.609466	3.44333
LOC100249324,LOC100257918	22.7162	2.34897	3.41577
LOC100258017	1.22763	0	15.319
LOC100247691	1.31551	0.0922793	0.617678
LOC100254544	0.352704	1.69357	8.62671
LOC100251167	40.1963	8.23968	47.3936
LOC104881365	2.57128	0.63159	0.491739
LOC100242551	5.73082	0.0423447	0
LOC100266614	20.9534	0.431421	37.0287
LOC100258047	4.8528	0.0448798	0
LOC104881360	1.01009	0.132594	0.15647
LOC100249435	0	0.136604	2.42761
LOC104881378	0.0693064	0	1.15481
LOC100244270	0	0	1.37306
LOX	5.63756	59.1735	4.22087
LOC100252850	0.691233	6.78233	0.562764
LOC100247676	1.91321	6.59908	0.151769
LOC100240917	12.5725	7.84426	40.4554
LOC100243559,LOC100248572,LOC104877436	77.7729	0.270725	3.46247
LOC100854480,LOC104881462	3.78483	10.3795	0.195842
LOC104881448	51.8266	5.07159	13.8576
LOC100265873	1.84025	0.0822918	0.402287
LOC100854088	0	0	5.58343
LOC100267582	0.820535	1.15469	7.33995
LOC100247065	0.888685	4.22518	1.47939

LOC104881433	2.49949	0.600778	4.27254
LOC104881431	1.32616	2.05546	0.4889
LOC100243958	12.2099	5.70484	0.793153
LOC104881430	1.32462	3.48928	0.236959
LOC100855224	0.600869	1.34586	9.82436
LOC100264196	26.5875	116.954	72.5321
LOC100245132	6.79845	1.32839	0.481963
LOC100241881	0.359937	3.05484	1.45241
LOC100258882	1.84159	0	1.88504
LOC100262403	5.89319	18.275	3.2616
LOC100253509	1.31669	3.22173	0.690465
LOC100251326	6.62378	1.39042	18.8179
LOC104881532	0.624626	0.442987	1.91558
LOC104877448	0.803151	0.399445	2.0282
LOC100241200	29.8702	2.47317	33.981
LOC100246029,LOC104881527	3.18684	1.36731	11.388
LOC104881525	0.537252	0.172407	1.57527
LOC104881503	4.09786	0.204525	29.3236
LOC100253505	31.3774	9.80333	6.29357
LOC100261475	18.5952	3.78256	18.6388
LOC104881519	1.49693	0	0.0929562
LOC104881542	0	0	2.48083
LOC100263787	0.961906	3.18805	4.36817
LOC104881590	4.88255	0.12709	0
LOC100251783	6.06525	1.07898	6.42714
LOC104881551	5.34422	6.67543	27.7124
LOC100855127	0.157209	1.06599	0.241209
LOC104881559	5.02425	56.6991	2.61168
LOC104881561	1.09374	0.0810604	0
LOC104881600	0	3.6186	1.30042
LOC104881564	6.08447	0.87436	8.50922
LOC104881569	0	0	3.11044
LOC100248073	3.12008	0.922892	4.67682
LOC100853068	0.0966003	1.03576	16.5783
LOC100261655	8.13431	13.5776	33.0622
LOC100251569	0.237979	0	1.43877
LOC100242952	1.21207	26.5533	51.6348
LOC100256612	0.834322	2.51086	0.497705
LOC100241245	0.583598	0	1.71974
BR6OX1	49.9905	10.5554	35.5793
LOC100246342	8.6533	1.0723	4.07206
LOC104881631	87.135	30.9384	282.085
LOC100241313	0.244062	1.59598	0.775314
LOC100249810	1.55497	0.254787	5.94788
LOC100855368	0	1.38106	0
LOC100249838	0.849943	0.603789	3.46735
LOC100244680	1.70801	0.815411	0.339277

LOC100248101	2.93693	32.827	6.74704
LOC100246292	0.999172	4.41395	1.2003
LOC104881648	2.12218	4.09916	0.815423
LOC100261671	3.82807	17.3859	4.44749
LOC104881661	5.22012	0.642355	4.40384
LOC100245735	40.2104	17.866	2.83856
LOC100244128	0.0780499	0.113943	1.72771
LOC100267902	10.3694	64.6978	27.149
LOC100261203	3.17919	2.34653	0.424366
LOC100244063	1.87436	1.97673	7.89948
LOC100257711	2.1879	2.44515	0.59375
LOC100250791	0.569677	0.228626	3.23518
LOC100250859	4.094	17.9027	8.5025
LOC100244038	0.200341	1.56599	2.53815
LOC104881685	1.04556	5.73922	1.01425
LOC100245787	0.168598	2.86771	0.565556
LOC104877279	0.516485	0.880381	7.39212
LOC100242238	107.847	8.15865	3.9952
LOC100255991,LOC100854125	85.6561	1.61511	27.8434
LOC100250853	201.991	2.7233	323.967
LOC104881698	1.36725	14.301	13.2637
LOC100259413	5.85264	0.877025	4.04932
LOC100243953	7.67008	5.25572	42.984
LOC100242017	0.726549	3.31209	0.166705
LOC104881728	0.20146	6.40262	0
LOC100262611	5.67088	18.7414	2.832
LOC104881723	0.781469	0.54968	6.78844
LOC100247140	1.29266	8.761	4.40792
LOC104881715	10.2545	0	0
LOC104881789	0	0.310069	2.32729
LOC100260421	2.79929	9.31597	18.2048
LOC100244941	11.8274	75.6904	16.0561
LOC100854387	1.38425	7.65845	1.13909
LOC100257290	2.76131	0.639349	0.408828
LOC100260525	0.535051	4.36332	3.9188
LOC100257309	0.566079	18.9041	0
LOC104881770	0.781036	1.0342	0.224134
LOC104881776	0	0.397049	7.21701
LOC100263729	3.42385	0.74901	0.0298378
LOC100243849,LOC100250668	1.84616	0	0.0322017
LOC104881819	2.25179	0.199643	1.62718
LOC100263313	0.0735883	0.157023	1.26235
LOC100251390	29.6035	0.647492	58.0119
LOC104881840	0.155928	0	1.76867
LOC104881813	2.46068	85.673	68.1056
LOC100261547	0.306187	0.0201952	1.53594
LOC100265053	45.4535	2.85255	20.795

LOC100256456	0.271428	1.12792	4.3283
LOC100242687	14.0906	0.667042	0.185261
LOC100253104	0.998505	8.38176	0.108023
LOC100253046	641.354	1090.92	62.49
LOC104881898	3.52861	25.8812	4.56144
LOC100255703	8.17407	14.0053	0.499094
LOC100247285	0.255747	0.288736	1.09042
LOC100257531	65.1037	19.256	2.56084
LOC100250596	8.99085	2.20348	3.34726
LOC100255780	0.635916	11.1696	1.47759
LOC100854402	2.45129	0.608188	0.578544
LOC100243647	8.60099	0.501862	17.677
LOC104881866	6.62735	2.75939	14.423
LOC104881888	0	3.10202	0
LOC100262652	0.607207	6.14632	2.4009
LOC104881856	6.62477	57.1513	30.9407
LOC104881857,LOC104881858	1.34827	22.5697	5.02489
LOC100262563	23.1126	2.56757	0.876038
LOC104881886	1.45753	0	0
LOC100260786	0.607636	5.93129	0.098884
LOC100265990	0.532297	4.44311	0.121219
LOC100264217	0.250129	0.0453927	1.42044
LOC100245524	4.81723	2.08368	15.5131
LOC100267266	2.67257	1.71449	9.43436
LOC100246839,LOC100257109	3.57567	0.608946	0.535735
LOC100267384	0.212014	1.12529	3.97182
LOC100260458	149.343	34.8191	72.5842
LOC100241611	2.32067	2.3151	24.669
LOC100246741	4.61695	0.896814	3.87411
LOC100852926	22.7616	1.67292	8.37454
LOC100852808	11.2286	3.57991	21.1581
LOC104881934	1.59005	0.0431512	0
LOC104881933	3.99527	0.0738305	0
LOC104881932	1.97333	0	0
LOC100250031	12.5451	2.03806	45.0323
LOC100251711	2.21544	36.4831	4.17829
LOC104881922	0.572606	3.58801	0.71027
LOC100251716	46.8095	24.4148	6.64055
LOC100260157	2.59139	0.547591	1.54979
LOC100253319	1.23834	0	0
LOC104881915	3.47306	1.10132	4.73937
LOC100267106	2.72636	0.22184	0
LOC104881912	2.97451	6.66274	27.0506
LOC104881911	0.0242307	0	3.5808
LOC100245433	0.37266	12.3649	0.28462
LOC104881729	0.533743	0.318575	1.55953
LOC100267645	0.244385	0.147307	1.94038

LOC100253958,LOC100264385	5.82463	27.2853	5.7914
LOC104881718	4.35938	0	7.11863
LOC100258566	7.04612	51.1876	41.4515
LOC100249847	0.771818	1.82649	4.74868
LOC104881783	0	0	4.09666
LOC100855173	1.76874	9.10813	37.748
LOC104881774	0.639678	4.35738	0.96289
LOC100252221	1.95229	0	0
LOC100267612	2.47104	0.203328	3.80571
LOC100263322	4.40667	5.02076	26.4453
LOC100264963	0.212288	0.101121	2.28923
LOC100247895,LOC100259793	0.647669	1.31889	0.250564
LOC100258179	4.41586	28.6057	44.1467
LOC100249535,LOC100251342	1.62919	10.5001	2.73968
LOC100249535	0.0503733	4.19834	0.346301
LOC104881876	0	3.17678	0.876439
LOC100264273	6.52588	12.2698	1.54831
LOC100260776	3.59432	17.5302	21.0035
LOC104881873	15.5864	0.650084	0.298054
LOC100248925	0.199307	1.48787	0.360202
LOC100242041	13.7157	68.4938	10.1786
LOC100242115	1.11534	0.385861	2.65199
MADS3	0.537893	2.71086	1.06027
LOC100255710	1.28318	7.65846	1.23501
LOC100266067	0.383011	0.0282092	3.83425
LOC100248810,LOC100253903	0.996183	0.259861	5.31793
LOC100262525	0.954078	2.52249	4.85612
LOC100267685	0.175679	0	4.7765
LOC100245370	0.199166	0.0788697	3.4825
LOC104881870	0.637292	1.91458	0.466374
LOC104881864	2.45211	2.19896	0.578917
LOC100261912	19.094	2.50901	13.0398
LOC104881879	0.519862	3.81833	4.83871
LOC100250645	3.87971	8.03244	27.0463
LOC100260344	6.83608	3.15063	1.68795
LOC100263781	21.1488	105.002	57.0579
LOC100249901	3.18811	0.18716	1.16988
LOC104881928	0.935614	4.66569	0.927281
LOC100255049	0.738119	2.60683	0.628179
LOC100256846	34.0684	2.16063	93.4578
LOC100258452	16.2439	6.00843	3.7604
LOC100258567	0	1.63071	0.078687
LOC100265390,PIP1%3B2	184.182	43.0688	609.198
LOC100243164	0	1.18976	0.202241
LOC104881903	0.268108	2.07365	1.63942
LOC100244348	0.246421	1.27767	1.80474
LOC100257926	15.196	1.5907	12.8512

LOC100240884	33.8646	3.80973	62.4219
LOC100263141	2.42094	0.726456	0.400477
LOC100242618	3.40315	8.501	1.90959
LOC100251137	0.765768	1.76345	0.103162
LOC100245997	0.248631	1.28551	0.126013
LOC104881974	2.03256	4.33585	0.803134
LOC100263160	0.285102	1.28842	0.231427
LOC100854997	0.873144	1.07139	0.0878802
LOC100266481	0.840496	1.26001	0.195423
LOC100264816	0	0.165353	8.31097
LOC104881978	10.0951	13.7872	0
LOC100251088	1.79768	8.625	0.544925
LOC100256282	44.2397	342	101.434
LOC100853363	11.1783	52.9413	16.3697
LOC100264915	0.492317	0.614888	2.20001
LOC100259725	3.76045	3.07052	15.259
LOC100254616	8.76778	3.49292	14.7536
LOC100249507	1.9069	5.5758	7.78828
LOC100254297,LOC104882087	3.42166	23.9596	2.93813
LOC104882050	1.85505	5.64391	13.7118
HT4	8.88715	0.323178	2.16848
LOC100243899	0	0.144985	1.36461
LOC104882052	19.9574	148.262	29.4252
LOC104882023	0	146.699	130.155
LOC100260809	1.12369	0.158994	0.198324
LOC100257357	10.946	0	0
LOC100853317	0.580315	5.25909	0.837948
LOC100246573	4.81692	1.83097	0.920442
LOC100246778	8.79476	0.954586	4.24722
LOC100253626	2.04305	0.717372	9.57923
LOC100260413	1.77814	1.0122	4.42784
LOC100253548	113.115	19.3595	142.648
LOC100256970	1.77888	3.68583	170.619
LOC100260301	2.18439	1.60327	21.7884
LOC100258792	469.732	6.9934	10.9006
LOC100265520	0.630707	0	18.6661
LOC100265307	0	1.01416	0.030575
LOC104882133	0.0891183	2.55412	0.140779
LOC100254147	0.739324	2.08077	0.353329
LOC100249725	3.51761	16.5571	3.08819
LOC100263561	1.24089	3.30894	7.11424
LOC100253196	0.943944	3.21645	11.4835
LOC100854290	1.61153	0	0.216846
LOC100252397	1.83024	0	0
LOC100267477	0.140119	1.239	1.87497
LOC100262321	9.1426	44.4221	1.5294
LOC100245181	5.86748	8.48515	0.2814

LOC100250301	6.97777	20.3374	0.393605
LOC100264173	0.351686	1.89171	0.167818
LOC100264844	0.8255	7.23301	0.328774
LOC100267841	54.4879	73.6564	3.08886
LOC100250543	5.54482	2.43796	20.1704
LOC100245414	2.67513	0.446952	0.121927
LOC100267733	0.266328	2.62177	0.0302484
LOC100257448	0.40652	0.0152844	1.67007
LOC104882202	0.204794	6.01533	0.0385509
LOC100242214	4.31483	3.02385	0.95185
LOC100257736	3.58117	3.56309	0.831546
LOC100247478,LOC100854849	0.406893	1.42245	8.77688
LOC100252599	18.0561	48.2351	112.278
LOC104882217	3.23924	10.8839	2.19598
LOC104882216	0	4.03542	0.744391
LOC100261214	8.6705	2.95259	1.79812
LOC100247310	6.31808	3.1024	0.794667
LOC104882184	1.73922	23.2066	1.63557
LOC100242322	62.9242	10.6403	20.1956
LOC100243904	1.31182	0.263848	0.420445
LOC100247451,LOC100254307	1.11547	8.9847	4.18763
LOC100242316	0.275562	2.04368	0.0498846
LOC100854640	4.44714	0.833423	3.97899
LOC100854759	1.40983	3.26033	0.166007
LOC100262350	11.8312	41.404	5.39912
LOC100245317	0.828816	3.81629	6.324
LOC100267499	31.5338	51.6962	4.69934
LOC100853393	0.584313	2.67633	1.00315
LOC100252122	11.4638	100.326	22.1482
LOC100261281	0.558971	2.77932	1.17283
LOC100259640	8.17514	2.38278	77.1385
LOC100254521	7.40284	18.8371	82.3147
LOC100266593	1.23839	2.12325	0.277612
LOC104881973	0	0	1.41737
LOC100251111	9.95325	18.889	3.71308
LOC100245976	1.2055	17.7567	15.7671
UFGT	297.234	308.218	2.09291
LOC100264872	16.2988	22.9159	2.22896
LOC100259687	2.79331	13.1371	30.2358
LOC100246060,LOC104877432	22.5697	38.8859	220.74
LOC100263048	4.15404	1.59912	0.76848
LOC100249403	0	2.12916	0.293726
LOC104882038	5.05681	24.7073	9.85841
LOC100244163	4.5439	8.24211	0.415817
LOC100247649	2.66204	17.53	6.71386
LOC100264804	1.09492	10.3667	6.27193
LOC104882047	11.6231	0	1.56537

LOC100261150,LOC100854021,LOC104882049	4.56497	0.0940724	7.0254
LOC100250918	0.1563	0	2.20296
LOC104882028	0	0.662972	2.13325
LOC104882116	0	0.968937	1.46553
LOC100266367	0.267543	1.23356	19.4968
LOC100254849	4.76463	3.37624	0.961948
LOC100254950	193.405	373.765	939.256
LOC100232980	10.3675	6.51293	30.7963
LOC100853820	2.39568	3.79117	0.501358
LOC100260554	1.78691	3.33906	0.426444
LOC100254045	3.24693	29.6872	1.40139
LOC100853675	1.44707	3.62684	0.380112
LOC100853526	1.51568	2.83287	0.30619
LOC100855299	6.26942	18.9464	1.46349
LOC100853406	0.936026	3.70582	0.280861
LOC100259991	0.975037	5.69954	0.355234
STS	5.67559	12.1468	0.719588
LOC100253166	6.04274	16.6164	0.260497
LOC100263437	21.9284	35.3435	0.976563
LOC100258294	6.47188	3.7005	0.326107
LOC100246283	1.30481	4.79012	0.664324
LOC100266849	3.95623	0.566949	0.0400277
LOC100852886	0.667903	3.02971	0.134228
LOC100249839	1.23692	9.37087	0.502
STS	7.33082	26.401	0.434149
LOC100256632	68.7568	35.3304	14.2933
LOC100247339	37.2963	8.86187	8.88163
LOC100249245	7.42531	2.10464	27.8586
LOC100256121	17.2046	0.69222	3.14233
LOC100250967	301.574	192.821	24.5384
LOC100242195	2.80983	0.581287	0.540902
LOC100242355	0	0.129314	1.78109
LOC104882218	0	3.31134	3.37795
LOC100256100,LOC100262982	41.0702	9.01881	10.0071
LOC100245835	4.03434	0.1187	0.265243
LOC100254171	9.9025	2.37375	0.542324
LOC100268123	0.704076	7.4275	1.85631
LOC100257581	16.886	72.1136	66.4565
LOC104882178	3.10763	0.0602798	0.485921
LOC104877442	0.306008	1.49834	2.83657
CHIT3	0.569455	11.6514	0.725555
LOC100262126	1.82925	12.336	10.3915
LOC100257019	10.2764	46.5345	35.1706
LOC100256922	0.177781	1.47729	1.30162
LOC100854711	2.41651	0.593103	0.782601
LOC100251011	9.77778	14.9431	1.63357
LOC100245376	9.78377	13.8601	2.60845

LOC100247971	0.11805	1.27777	0.528907
LOC100854816	4.86456	4.66	0.871968
LOC104877309	14.9939	3.84385	0.511479
LOC100248613	3.82594	0.938554	0.983466
LOC104877298	4.51238	19.7586	2.17963
LOC100251999	0.524524	1.68224	3.70499
LOC100854106	615.515	88.8307	279.06
LOC100233032	6.54984	116.646	17.9778
LOC100255514	55.2909	119.11	9.83628
LOC100245291	0.146082	1.19484	0.348253
LOC100258861	1.0223	3.45722	10.0361
LOC100243857	34.9628	205.029	167.809
LOC104882372	0	1.25092	1.48178
LOC100242276	1.60071	13.4163	3.11535
LOC100247409	0.763455	21.6603	13.0795
LOC100252577,LOC100257713	1.62073	28.8895	10.0875
LOC100262834	0.427991	3.2869	0.368973
LOC100267921	15.8466	96.3359	98.0898
LOC100254336	0.109723	0.474859	1.90175
LOC100255963	2.11504	0.408533	0.57492
LOC100252457	0.391201	0.178754	1.21779
LOC100260988	0.217727	2.22168	0.680687
LOC104882359	0.392222	2.16417	0.470198
LOC100249181	0	1.7014	1.23215
LOC100853697	0.420809	1.66865	4.20223
LOC100255914	0.108402	0.866418	3.86214
LOC100264510	0.528098	0.796303	6.90791
LOC100242377	1.80442	8.11385	15.568
LOC100247368	63.6833	20.9359	13.7879
LOC100250869	1.4233	6.77731	3.85193
LAR2	3.91641	14.301	61.8249
LOC100250060	0.170601	3.47708	0.718228
LOC100248440	89.1097	155.406	375.339
LOC100265634	0.266229	1.32185	1.39454
LOC100260399	0.709728	2.32233	4.44528
LOC100255336	0.439471	2.53615	0.5707
LOC100248537	2.59731	2.28474	10.25
LOC100248401	1.23856	1.20301	7.70095
LOC104882305	3.07555	0.431897	0.674247
LOC104882302	4.66566	0.310164	0.704089
LOC100241539	6.00266	28.0379	42.7594
LOC104882292	0.195594	3.51111	3.24361
LOC100250236	0.407846	1.95743	3.90035
LOC100250081	0.336924	1.77073	1.18587
LOC100258813	4.64985	5.77526	1.39838
LOC100241544	2.51108	0.827042	24.3924
LOC100244957	0.311687	1.23965	4.43974

LOC104882285	1.42911	0	8.4803
LOC104882284	0	3.56368	0.497179
LOC100245004	0.767168	6.0902	7.99166
LOC100250205	2.88669	9.06715	0.510394
LOC100246848	0.657175	2.53306	2.66126
LOC100262049	2.8659	1.3472	6.03863
LOC100248480	0.442971	10.2775	0.833375
LOC100241618	0.630234	3.5356	2.33074
LOC100855230	0.81756	2.09658	9.23072
LOC100243254	0.750657	0.478151	3.65645
LOC100241660	22.3482	0.251062	2.45531
LOC100246781	5.2301	1.21985	0.0634631
LOC100265573	20.2858	5.70442	3.26207
LOC100253504	0.265054	1.38384	0.201274
LOC104882266	3.08419	5.25966	0.552883
LOC104882265	48.3732	0	0
LOC100252983	0	3.17855	0.114599
LOC100242813	0.691008	4.4405	3.28464
LOC100252799	0.104142	0.098735	1.47056
LOC100263084	1.71593	4.63706	9.43643
LOC100853688	1.66902	0	0.0691136
LOC100261419,LOC104882445	0	0.0276702	1.95181
LOC100257797	0.670934	1.17367	2.78936
LOC104882374	2.62364	22.2192	6.32345
LOC100261186	4.8581	3.39146	0.709225
LOC100247469	0.878981	2.37462	0.525833
LOC100252516	0.181207	3.21216	1.54073
LOC100854389	0.384661	0.472815	5.41342
LOC100260981	0.409171	1.32807	2.851
LOC100266186	1.13815	4.87196	6.70674
LOC100243863	1.55164	70.2525	57.4204
LOC100247479	37.3043	5.03939	17.68
LOC100262841	21.0783	4.57964	7.11591
LOC100267995	0.888321	2.28757	6.94031
LOC100250902	0	0.17509	1.02653
LOC100243943	8.36383	1.80198	7.44042
LOC100257806	6.33793	1.53635	4.14843
LOC100267867	2.319	1.72193	0.514447
LOC100852506	214.133	0.185851	0
LOC100261069	0.179062	1.68893	1.07281
LOC100243949	0.0856717	1.81639	1.7605
LOC100259401	2.03509	0.381268	0.705076
LOC100250750	0	0	1.64691
LOC100242434	1.15404	28.3271	63.8223
LOC100266447	1.58955	0.425364	5.40485
LOC100852784	1.45813	6.53974	6.10948
LOC104882351	0.419659	6.01556	2.71224

LOC100259493	2.00101	9.64637	1.22679
LOC100264668	0.164409	3.62744	0.0625543
LOC100242382	0.387917	10.3226	1.86342
LOC100266297	1.51613	13.0399	4.16618
LOC104882342	0.274299	2.12269	2.16416
LOC100249139	10.6087	0	0.18915
LOC100259359	7.75369	0.163867	1.16371
LOC104882340	1.14587	0	0.661578
LOC100242440	1.60723	3.02223	22.7176
LOC100247390	1.89652	2.14633	0.264373
LOC100250718	2.39876	0.490642	0.724465
LOC100259516	0.414692	4.1098	0.250333
LOC104882328	3.0873	17.3268	4.70699
LOC100268098	4.94888	13.127	2.93033
LOC100263971	43.5838	107.059	215.539
LOC100253660	232.252	1055.58	251.392
LOC100263850	3.85606	0.616538	9.30303
LOC100258695	3.8637	4.62859	1.09745
LOC100245018	2.06768	5.75797	0.720824
LOC100246789	0	0.0769343	1.13141
LOC104882407	3.07925	0	0
LOC100246665	2.12283	8.87733	4.30971
LOC100852956	32.863	6.42848	46.6958
LOC100265518	0	0.215722	2.21104
LOC100253651	0.100285	0.152226	2.37911
LOC100243281	1.26961	0	5.7774
LOC100260306	2.70595	0.312408	0.37849
LOC100257032	3.39361	16.5956	3.96802
LOC100246821	0.175943	3.55937	7.95367
LOC100257111	0.267647	0.173994	4.65067
LOC100241613	0.0930555	1.3139	0.314227
LOC100852763	0.508016	3.11626	4.42399
LOC100267280	1.02834	4.01743	4.2795
LOC100242398	2.52053	15.8903	14.2797
LOC104882428	0	2.15209	0
LOC100258099	0.34552	3.81219	0.752666
LOC100242793	3.49467	0.397541	2.19774
LOC100247939	3.96292	16.4287	7.52749
LOC100250689	1.55213	0.46227	2.80485
LOC100260938	3.95795	0.19168	0.823658
LOC100248971	2.16956	0.806749	21.1209
LOC100252389	8.71026	4.80372	37.0906
LOC100266033	0.267119	0.748254	1.21156
LOC100252368	0.179618	1.57923	2.1074
LOC100262628,LOC104882465	0.841539	18.0479	2.29041
LOC100267796	0.607763	5.25676	1.19993
LOC100259038	0.542881	1.06771	2.39736

LOC100233023	4.64823	26.112	7.67586
LOC100854472	156.197	53.1451	241.722
LOC100262645	0.0584104	0	3.22646
LOC100259041	48.3798	27.526	149.89
LOC100264214	18.2094	5.79353	34.1724
LOC100242154	0.782192	1.91917	4.71448
LOC100247293	1.1236	0.32381	4.03395
LOC100854240	0.228089	0.754969	1.07318
LOC100232945	2.42364	0.521939	4.74231
LOC104882493	0.277838	2.02356	0.108786
LOC100267723	7.89399	18.4549	41.6557
LOC100243668	15.0358	5.87684	32.5991
LOC100243687	41.4068	70.5006	201.382
LOC100257555	2.71922	12.5393	20.6312
LOC100245416	1.23655	29.2522	10.2935
LOC100267722	18.9386	90.3989	22.2044
LOC100255717	0.288028	1.83634	0.229332
LOC100259057	3.77329	17.4831	10.4755
LOC100260898	3.76528	16.3812	12.0411
LOC100257444	2.55252	2.91694	43.9467
LOC100257455	307.67	1909.09	2633.84
LOC100255729	19.0227	111.641	78.3054
LOC100250666	0.35105	2.94634	3.40488
LOC100266006	0	2.05421	0.024798
LOC100255844	2.14116	1.40686	7.16654
LOC100259070	28.5216	5.90855	14.9719
LOC100250675	8.55646	2.66237	14.2511
LOC100243808	10.6688	60.6418	7.64519
LOC100267755	0.0323071	1.84492	0.329805
LOC100855129	0.0741997	0.572454	16.1501
LOC100257363	0.330286	0.281856	3.51594
LOC100248962	0	6.13438	4.40385
LOC100259186	0.281469	18.2971	9.53794
LOC100241978	2.56341	1.13118	0.131214
LOC100259078	32.486	100.211	22.7874
IFRL4	5.79566	61.0439	18.44
LOC100232901	66.5203	3.54168	237.093
LOC100262619	0.705856	6.33623	0.389394
LOC100267776	7.32706	29.8147	5.99621
LOC100253967	0.466675	1.69156	0.169704
LOC100242084	0.174119	0.16288	1.5196
LOC100243853	6.66654	0	6.27874
LOC100249003	1.76774	5.58365	8.42347
LOC100259227	3.80626	1.24433	7.51793
LOC100245479,LOC100257502,LOC100262635	32.6948	6.96109	99.9771
LOC100267792	6.5388	1.44574	9.01272
LOC100262607	3.25031	2.16148	9.1229

LOC100245451	1.73523	0.409286	11.3212
LOC100250578	4.98248	3.33045	17.6416
LOC104882584	4.55796	43.3458	7.73672
LOC100259232	31.2245	0.643518	0.726148
ADH3	84.6525	46.9575	196.008
LOC100248978,LOC100254084	20.5742	94.6603	154.445
LOC100259201	7.44501	88.6593	25.4299
LOC100854780	1.99308	0.292568	0.781844
LOC100247883	0	1.28788	0.141181
LOC100265028	2.61636	33.5168	14.2653
VVSUC27	4.8508	2.12852	11.4995
LOC104882634	0	0.182	1.24244
LOC104882655	0	7.4223	0
LOC104882647	2.06162	0	0
LOC100240827	9.60098	8.24877	109.956
LOC100264185	4.24064	32.2716	17.3806
LOC100247045	0	1.65655	4.46958
LOC100261816	0.460672	1.48333	1.91019
LOC100246262	1.89426	0.108981	0.150125
LOC100261094,LOC104882700	1.87815	9.53605	4.53768
LOC100855105	4.30757	61.6273	87.7083
LOC100259650	1.46934	15.8254	14.4868
LOC100248240	3.0084	6.20542	0.136413
LOC100256879	1.08372	1.01571	0
LOC100246044	2.3652	1.05402	9.45973
LOC104882765	41.8728	16.6583	8.6296
LOC100259577	12.9136	0.33001	0
LOC104882755	25.3809	4.63009	14.711
LOC100249918	6.16459	0.024326	0
LOC100263848	0.417508	2.09426	0.743443
LOC100241404	6.21892	1.00672	0.324496
LOC100232974	46.6882	53.6913	10.2385
LOC100256900	0.249935	11.1138	1.34828
LOC100261993	0.208449	5.20881	3.39889
LOC100267167	0.142098	1.84832	0.261323
LOC100249990	0.0336245	5.10409	0.190623
LOC100253312	0.0184934	1.52622	0
LOC100854143	0.341396	2.94264	6.21828
LOC100263585	1.91302	3.58531	8.84922
LOC100243141	4.1075	1.66618	0.550582
LOC100240987	2.09976	6.92472	8.99149
LOC100247851	1.18386	1.27631	13.3164
LOC100242785	0.243489	1.9348	0.185375
LOC100258104	0.32177	0.531025	1.30408
LOC100244431	2.37973	0.929434	0.568653
LOC104882457	0.61256	0	8.40238
LOC100252353	0.642081	2.12623	2.79086

LOC100259216	14.3866	0.288255	1.7466
LOC100264396	4.8193	0.769035	2.60092
LOC100260772	2.55761	11.6547	7.77945
LOC100267819	1.14938	4.27365	0.869538
LOC100243769	0.149247	1.4783	12.6456
LOC100233023	4.03771	5.42501	19.3819
LOC100262668	3.32708	3.08928	14.8874
LOC100242128	0.0636099	2.94294	0.249155
LOC100266093	69.5553	205.928	532.656
LOC100243675	2.20243	0.139	0.10734
LOC100248812	5.39458	0.171105	0.291808
LOC100267809	40.533	10.0717	15.2297
LOC100255823	0.927098	0.442099	3.49125
LOC100250619	2.53604	0.284607	1.65846
LOC100260880	4.4222	1.61036	7.90507
LOC100247181	0.584813	2.9462	2.65112
LOC100243785	9.83764	0.532542	5.6518
LOC104882515	5.30716	0.958377	3.95806
LOC104882517	14.0489	29.0107	5.20121
LOC100854033	3.75196	1.02039	6.55302
LOC100253922	0.285091	0.722172	6.42234
LOC100254044	4.31873	1.91041	0.656388
LOC100242059	155.007	70.4629	20.5572
LOC100257562	0.342942	0.578308	1.44347
LOC100243702	1.62381	3.23899	18.0654
LOC100241962	12.6103	13.1188	68.4759
LOC100266120	0.261385	0.252991	1.2601
LOC100254056	0.54373	0.94425	2.47822
LOC100255742	2.43379	0.361174	3.34711
LOC100264254	0.0935517	0.770992	6.17607
LOC100257359	32.7822	7.14618	9.3735
LOC100257474	2.65851	7.57757	1.60976
LOC100262602	4.05525	0.982634	0.516786
LOC100250571	8.95191	0.789081	0.254926
LOC100260826	1.3737	9.02063	3.12712
LOC100257468	2.10534	17.8625	18.8305
LOC100253937	5.54556	0.937826	4.15061
LOC100257377	3.6395	3.01193	0.823806
LOC100255862,LOC100260930	6.06452	3.69998	0.250136
LOC100852518	0.32734	5.33136	2.09103
LOC100267760	0.293259	0.400113	14.8753
LOC100255764	539.22	126.213	101.813
LOC100266040	29.3117	25.9992	108.12
LOC104882566	0.398471	1.65117	2.40735
LOC100266024	0.501659	3.66775	3.26245
LOC100255866	1.2312	11.0458	0.0612253
LOC100260935	88.9934	49.0468	2.63319

LOC100254074	8.53912	14.5776	2.52816
LOC100266028	21.2603	14.9639	87.0986
LOC100248859	0	0	1.11079
LOC100249009	5.33177	0.60207	1.05455
LOC100255793	2.64605	4.19511	0.42611
LOC100245373	0.197471	3.54657	0.341917
ADH1	9.88053	42.4824	22.6816
LOC100252383	0.501664	0.904298	3.47997
LOC100262647	0.522451	0.969426	5.75966
LOC100242094	5.34715	2.2684	0.304506
LOC104882629	2.09202	0	0
LOC104882628	0.738509	4.33736	1.90093
LOC100853071	3.27758	3.13352	0
LOC100266619	0.349531	3.51713	0.156696
LOC100247483	0.34439	1.56757	11.0652
LOC100266412	0.566651	1.97018	4.63321
LOC100250966	3.54181	19.5077	14.5787
LOC100253881,LOC104882696	1.40362	6.39148	0.281529
LOC104882688	0.0637836	2.04526	10.1059
LOC100854843	0.387872	0.687277	4.68071
LOC100262406	1.20739	5.11783	1.7893
LOC100260625	2.27371	14.3207	4.2304
LOC100243972	1.49938	0.857925	0.193394
LOC100249129	0.960052	11.2107	9.75881
LOC100242381	1.8111	0.0403712	0
LOC104882732	0.94308	6.83996	14.5935
LOC100256299	8.27163	25.0789	35.1574
LOC100251158	0.258091	15.1383	0.473709
LOC100855175	0.118972	5.05291	0.351098
LOC100261322	10.8515	4.29651	1.14533
LOC104882763	7.10946	6.14359	59.0927
LOC100249337	0.292481	0.476622	4.20394
LOC100853111	0.201196	0.421372	20.0979
LOC104882750	0	4.22092	7.82943
LOC100248194,LOC100256743	8.57699	4.87293	0.535975
LOC104882746	1.46774	0	0
LOC100250024	2.88726	0.795468	0.628065
LOC100251634	0.442107	5.54895	1.92048
LOC100261979	8.09937	5.99702	53.1258
LOC100243063	4.47792	17.3783	0.0767998
LOC104877454	15.6646	2.20489	1.48888
LOC100265345	22.4278	35.1057	8.21731
LOC100255640	10.2889	4.75121	28.3084
LOC100262364	48.0449	71.1348	2.44982
LOC100255540	1.59318	0.294339	1.99146
LOC100245127	1.0407	0.512349	2.30101
LOC100245140	8.56192	18.9971	3.43097

LOC100854036	2.18536	5.38159	0.40365
LOC104877559	1.45724	18.2129	1.43738
LOC104877559	2.86182	65.3873	4.46208
LOC100250269	1.34011	0.177667	0.202696
LOC100247002	13.555	9.82206	44.2539
LOC104877523	0.359843	2.81425	1.31639
LOC104877525	0	0	1.97514
LOC104877564	0	8.81351	0.291083
LOC104877349,LOC104877408	2.60484	3.15197	0
LOC100245158	2.3342	1.13738	0.419648
LOC100262419,LOC104877363,LOC104877572	0.657161	2.92088	11.7188
LOC100255581	0.305591	3.21045	2.24127
LOC100258992	81.8613	24.3655	13.8426
LOC100854699	1.22247	7.38527	1.87681
LOC100243502	0.567307	2.23052	4.71919
LOC100248576	0	2.04183	4.60167
LOC100260669	0.323618	2.51767	1.7648
LOC104877542	1.83785	5.7521	1.13936
LOC100253691	0	0.487576	4.79234
LOC100855066	3.38818	3.68908	18.4473
LOC100255502	6.97692	3.45139	14.2284
LOC100259000	11.7626	27.1591	5.53768
LOC100257132	2164.82	18813.2	2214.16
LOC100253748	1058.06	2920.04	566.985
LOC100258895	19.3716	65.6633	122.382
LOC100243010	6.20333	1.62108	6.8996
LOC100263526	0.795751	4.46048	26.5756
LOC100251431	3.9049	0.72194	4.56314
LOC100260079	140.291	20.1161	69.7446
LOC100246366	0.380649	2.83624	1.01343
LOC100256628	0.703322	1.58246	0.306504
LOC100852799	0.606643	3.8648	7.45973
LOC104877649	4.59543	2.50661	0.300354
LOC100248372	0.370478	4.89731	5.30834
LOC100262772	1884.33	99.4241	490.167
LOC104877726	2.41927	0.280528	0
LOC100254975	5.79456	15.4112	25.9167
LOC100264177	5.46728	80.1097	23.9586
LOC100248356	0.854232	2.33096	5.20825
LOC100264502	0.828672	5.38846	0.823273
LOC104877788	2.3824	1.29452	0.256276
LOC100252621	0.384837	2.2093	0.365382
LOC104877760	0.989344	3.7868	0.348205
LOC100268036	3.09432	1.78424	0.270855
LOC100261089	0.13939	6.66434	0.216284
LOC100241033,LOC100251285	2.80558	0.0305913	0.0291544
LOC104877752	0	2.36684	0

LOC100259870	0.753393	6.27807	3.6715
LOC104877808	1.14468	0	0.38322
LOC100249646	0.260648	0.875964	1.63948
LOC104877797	0.518598	0.737005	2.45972
LOC100243362	0.477268	1.68094	3.16392
LOC100256921	0.462379	2.61567	5.84022
LOC100245214	2.19855	3.46742	11.5727
LOC100257142	0.223206	1.37401	0.612534
LOC100243598	6.08041	37.5109	1.7875
LOC100257253	73.3373	80.6805	355.171
LOC100252144	12.2849	2.51529	0.856021
LOC100258873	31.1838	13.6952	55.4563
LOC100241782,LOC100255645	81.8902	33.9672	8.20464
LOC100257280	0.69819	3.52577	1.23849
LOC100264076	28.4977	5.47478	15.8519
LOC100250352	2.95486	12.4873	16.0547
LOC100265853	3.49143	14.8927	11.4112
LOC104877527	0	1.29542	0.476347
LOC104877575	0.438037	3.21171	0.991933
LOC100257312	0.613656	5.64524	0.139312
LOC100267579	0.803878	2.60596	7.29179
LOC100245275	0	0	2.30849
LOC104877540	0	10.5561	73.8475
LOC104877544	0.231676	12.3744	0.391135
LOC100258946	3.65394	13.1339	18.537
LOC104877584	10.2467	12.5726	2.74375
LOC100265937	1.91665	6.70213	11.1459
LOC100255495	0.655189	10.2809	3.75567
LOC104877588	0.645028	20.2596	3.21593
LOC100245306	18.3352	4.38527	13.521
LOC100265899	7.01531	2.29339	1.03594
LOC100257234	8.84786	0.640776	1.7647
LOC100260574	0.0432198	0.219463	3.08302
LOC100265792	0.403681	0.323496	2.7632
LOC100265300,LOC104877656	3.16854	5.42442	0.854612
LOC100260095	16.7729	79.2907	19.9641
LOC100248132	0.322521	1.1437	1.31487
LOC100242996	3.35782	16.0857	10.1336
LOC100853612	1.48632	0.126936	3.72546
LOC104877637	0	0	0.903029
LOC104877636	0.289101	0.891595	2.35218
LOC100242885	0.091098	0	1.34988
LOC104877640	2.11735	1.38668	11.9237
LOC104877680	0	21.4202	0
LOC100255558	0.069698	14.9558	0
LOC100256345	88.4667	9.2447	10.1024
LOC100232878	32.701	8.44127	123.698

LOC104877716	0.456254	0	10.9167
LOC100257648	19.8977	1.52599	27.6808
LOC100262655	6.47462	1.17213	12.8042
LOC100257609,LOC100852663	13.8569	2.25854	3.41052
LOC100855352	9.10567	9.7906	60.5866
LOC104877780	1.40208	0	6.26832
LOC100249639,LOC104877773	0.345811	0.154428	4.3707
LOC100256445	1.64578	0.286152	0.304205
LOC100258085	0.0421429	0.570072	10.7704
LOC100251296	0.194071	2.28446	2.17162
LOC100261538	0.115583	1.84409	0.0826877
LOC100263791	16.762	1.22241	2.04372
LOC100246744	0.484325	1.2446	5.18194
LOC100265661	28.942	6.64598	7.70364
LOC100258716	0.656623	5.55515	5.77911
LOC100241699	1.76361	11.2901	1.19424
LOC100246818	0	4.21936	0.222823
LOC100243329	0.0727507	0.192418	1.15851
LOC100258609	0.257058	0.348993	1.17512
LOC100248471	23.74	87.7844	20.074
LOC100241597	21.2437	4.81082	17.078
LOC100259874	126.808	43.3926	178.794
LOC100253121	0.266748	2.13365	0.0319263
LOC100249566	1.12324	8.18004	16.1003
VVYS1	563.235	73.4204	75.4116
LOC100259860	5.66743	0.598857	1.02827
LOC100259927	0.27836	2.44053	1.42925
LOC100256431	3.35067	1.50746	7.08057
LOC100242748	13.2664	5.1171	2.48817
LOC100241107	1.22528	5.66669	1.20666
LOC100266710	0.806787	1.78288	0.441265
LOC100242765	31.7667	33.4984	2.87784
LOC100244399	0.584598	1.37943	6.45932
LOC100246131	68.2158	21.9261	6.08891
LOC100244444	0.179788	1.09588	0.145878
LOC100244461	0	1.98488	35.6881
LOC100249610	0	3.57586	21.0962
LOC100254732	0	2.48552	10.3917
LOC100259841	0.0525714	1.66769	32.0018
LOC100242737,LOC100246096,TL3	23182.7	3959.21	3778.74
TL1	4081.04	369.343	1163.28
LOC100263272	993.131	593.526	55.5525
LDOX	2009.94	509.755	170.896
GFH2	12.846	34.084	171.686
LOC100251344	23.4269	9.1475	47.1372
LOC100267708	4.10279	1.0441	6.44218
LOC100855263	2.24196	4.37656	10.7352

LOC100259241	0.888929	7.65178	0.786974
LOC100243800	35.6737	98.8589	21.3237
LOC100255790	32.371	43.4596	238.441
LOC100242080	0.384848	1.4921	3.37723
LOC100254114	0.194323	7.71353	17.0077
LOC100259234	0	1.31109	0
LOC100264277	5.49121	0	0
LOC100240765	0.640526	1.28293	0
LOC100249859	201.991	0	1.47897
LOC100242620	110.974	2.13102	0.647792
LOC104877515	49.7246	5.13069	1.18002
LOC104877539	0.421478	2.5329	0.577784
LOC100245856	18.8034	129.298	530.457
LOC100261349	8.58801	20.0601	57.8815
LOC100267372	7.01861	3.34057	15.2812
LOC100253460	20.3527	2.91979	2.71153
LOC100243235	0.51964	5.9368	17.9905
LOC100248364	0.587403	3.54064	0.78045
LOC100243221,LOC100265535	5.40312	0.37265	0.382561
LOC104881234	0.619609	0.914523	4.44335
LOC104881245	1.67736	0.697431	3.06934
LOC100253577	6.51047	32.8133	21.9614
LOC100265543	9.70389	2.46146	1.39049
LOC100249570	104.967	19.3869	33.8724
LOC100266728	2.41992	10.0342	8.87108
LOC104881495	0	0.629222	1.97014
LOC104881931	0	1.71368	13.1727
LOC100232921	25.0405	143.627	23.7217
LOC100246227	8.9879	13.703	74.9184
LOC100251364	4.81481	2.6852	28.5327
LOC100261608	0.398734	2.36367	2.31809
PIP1%3B3	1246.9	510.711	2528.7
LOC100247828	0.197834	1.42201	1.55061
LOC100256474	4.38659	8.71573	20.5049
LOC100265094	0.236496	0.352436	1.35888
LOC104881793	1.17942	6.02068	6.36939
LOC100252995	0.788476	6.42691	9.88129
LOC100854222	32.6242	7.64406	15.4304
LOC100262548	8.36382	7.34582	42.7414
LOC100241232	44.7985	6.76901	43.9615
LOC100259122	0.977657	0.0504722	23.113
LOC100262648	0.160682	0	1.8688
LOC100267804	0	0.908333	2.6159
LOC100243757	5.83555	0.569727	3.08223
LOC100253999	2.00176	0.354082	5.72072
LOC100260753	0.0438581	0.144051	2.22247
LOC104882174	9.05647	0	0

LOC100853134	7.72824	0.109398	0
LOC104882186	0	1.20132	0
LOC100248732	7.34326	4.60296	1.41376
LOC100243854	1.49025	1.04441	11.899
LOC100266064	0.520632	6.65674	13.2776
LOC100248894	0.248336	0.985206	1.9371
LOC100253987	71.9376	74.4125	9.20127
LOC100248986	32.2361	15.4415	0.498605
LOC100264388	0.258667	1.18987	0.163696
LOC100261471	4.12491	1.32929	0.820311
LOC100263035	1.02456	0.032302	10.3982
LOC100243193	0.367396	4.09434	0.543842
LOC100232838	171.372	71.3476	36.7427
LOC100853472	102.307	36.1255	22.4651
LOC100853652	365.503	25.814	5.55073
LOC100253338	1.12447	0.310996	0
LOC100248203	15.2542	0.0357191	0
LOC100265384	5.56281	33.6961	1.12861
LOC100252759	0.195714	0.521755	6.59003
LOC100266675	11.5742	0.557244	2.62886
LOC100257911	0.436062	0.139733	1.53751
LOC104882747	0	2.47825	7.19077
LOC100252878	30.0755	78.1746	18.7141
LOC100251220	0.811336	0.399162	3.50203
HYD2	3.46403	9.17759	19.8826
LOC100242493	1.09369	1.37739	5.00064
LOC100244332	4.57699	10.3516	0.913288
LOC100247745	0.5436	2.3304	3.13715
LOC100251100	14.2035	9.63489	1.32786
LOC100252859	24.3663	13.4913	0.412537
LOC104878760	0.13528	11.1432	0.622469
LOC100250277	3.67686	2.3348	0.674031
LOC100265851	4.65217	0	4.54642
LOC100250384	9.03627	1.89325	15.18
LOC100246872	7.40345	1.24076	21.2049
LOC100253871,LOC100264029	22.1311	0.218517	1.36739
LOC100243412	10.3922	0	2.56365
LOC100258859	1.5345	0	0.297235
LOC100267506	1156.82	194.022	427.437
LOC100250374	0	0	1.15082
LOC100854771	35.8689	17.3274	80.442
LOC100257341	6.06053	26.2294	34.5875
LOC100248597	0.0759624	0.414835	385.124
LOC100250364	1.24751	0.755359	10.1867
LOC100262451	9.78892	1.45929	1.42216
LOC100241875	6.64421	8.23443	0.923113
LOC104878763	10.9351	3.13166	1.82187

LOC100245113	0.25868	0.0679855	2.55312
LOC104878761	0.346626	0.673159	1.39741
LOC100853712	0	3.04231	0.0913458
LOC100853320	47.6773	14.825	109.942
LOC100852969	5.96796	0.992821	120.306
LOC100253828	0.566732	2.42396	1.14474
LOC100245283	0	0.719521	1.45804
LOC104878800	0.663114	0.662351	3.13953
LOC100255508	3.40652	1.77784	0.557454
LOC100252188,LOC100258826	63.6195	11.102	3.72021
LOC100263992	576.369	318.987	4.25737
LOC100248570	0.447215	4.27753	0.0200964
LOC104878791	0.393812	2.18969	1.8974
LOC100265900	3.20824	0.161691	2.84034
LOC100255589	3.84527	20.6294	81.3315
LOC100250402	0.568693	0.48798	4.11143
LOC100250434	5.57783	0.087082	0.198494
LOC100253696	2.33897	0.468822	2.34844
LOC100252205	0	2.16483	0.434708
LOC100264205	2.3704	11.4713	7.49236
LOC100264093	0.507584	1.10807	4.31531
LOC100248682	0.740362	0.865099	3.06411
GT3	11.065	1.35752	0.765345
LOC100251483	0.399365	0.378771	4.46218
LOC100241214	2.91459	0.209893	0.0912697
LOC100245631	39.5181	11.3815	3.06982
LOC100855361	17.5771	9.74949	49.1269
LOC100255590	14.2736	0.339288	0.14754
LOC104878897	250.811	0	0
LOC100253700	3.51846	0.807916	0.273399
LOC100245203	0.177464	1.92624	2.24679
LOC100253706	5.13409	36.5046	42.498
LOC100246869	10.5791	46.3963	51.5614
LOC104878920	58.1074	16.5692	0.319641
LOC104878948	0.117049	1.74996	1.90792
LOC100263311	9.00928	18.0783	47.7121
LOC100244413	65.2	8.76831	671.525
LOC100259788	151.817	381.136	38.5813
LOC100242699	0.667376	86.1177	6.85175
LOC100257121	21.896	3.23346	6.33517
LOC104878931	7.45036	1.72587	0.341474
LOC100251889	7.76635	26.0013	5.94838
LOC100262128	17.2796	13.7338	0.594702
LOC100233114	95.5557	0.377342	1.81332
LOC100243271	8.64659	23.4541	5.73976
LOC100260651	2.03608	0.794256	5.07142
LOC100265746	27.3252	17.8137	4.54081

LOC100257133	76.7922	53.2511	13.9081
LOC100241748	2.62651	0	2.91196
LOC100264191	4.18575	0	0.797278
LOC100248778	13.6706	0	2.16016
LOC100265736	2.49168	0	0.336448
LOC100260633,LOC104878769	2.93542	6.5274	15.8724
LOC100260696	35.9607	10.7853	2.61977
LOC100262390	0.0524	0.243416	1.70535
LOC100241839	1.33115	7.32342	5.27559
LOC100245123	10.9384	0.836037	1.29178
LOC100243457	0.740942	4.86871	5.38603
LOC100243495	1.58785	3.99571	0.579981
LOC100248701	1.69338	5.8035	1.24022
IFRL6	12.7183	156.931	189.453
LOC100853060	0.441862	0	21.2134
LOC100853024	0	0	12.6927
LOC100852930	0.5906	0.142686	824.849
LOC104878807	0.4945	0	9.97109
LOC100265877	8.38752	0.847751	15.7921
LOC100260701	0.0817851	0.119234	7.27269
LOC100264100	28.2635	37.1999	143.943
LOC100245165	3.0396	23.3244	15.6467
LOC100257333	0.272783	0.0809809	1.18341
LOC100241832	0.696581	1.06981	7.63115
LOC100245274	273.119	60.0965	58.8692
LOC100259535	0.485228	13.3222	0.967053
LOC100252521	0.365385	2.6785	39.2652
LOC100242957	0.290773	2.96917	0
LOC100265159	97.4318	30.666	15.3798
LOC100263403	0.106283	1.14128	0.580783
LOC104878821	0	0.374525	4.10079
LOC100259955	0.350312	2.59062	5.04453
LOC100253211	0.892596	0.105438	20.6151
LOC100855413	1.73679	0	0.0378773
LOC100265220	13.5252	0.683769	0.921191
LOC100258330	67.7018	25.0761	15.9958
LOC100241199	6.42627	2.52547	14.2359
LOC100265141	1.63766	0	6.33076
LOC100242852	0.230742	41.8346	1.70545
LOC100247990	1.48771	57.1781	10.4149
LOC100253281	0	3.33102	0.377944
PR-1,PR1	5.98161	0.705437	669.843
LOC104878838	0.670288	0	1.79479
LOC100267951	0.623964	5.61725	9.33264
LOC100254955	0.0943964	3.0744	1.56046
LOC104878895	25.5904	0	3.73175
LOC104878914	0.291973	2.02643	0

LOC104878918	0	0.360616	1.51697
LOC100245219	54.9599	9.46661	40.1176
LOC104878949	0	0	2.41801
LOC100255633	0.043354	0.447475	2.33295
LOC100248624	0.145764	1.50319	0.248678
LOC100254677	141.748	12.0472	4.19502
LOC100266732	8.02537	1.63711	4.07819
LOC100249571	2.9296	0.293474	2.78156
LOC100254685	6.49637	5.14934	21.6511
LOC100246147	2.39387	0.315815	1.87682
LOC100264985	31.4224	2.60512	66.3092
LOC100255284	276.888	1311.75	711.928
LOC100262239	0.358907	4.10993	2.04681
LOC100257733	0.975645	9.61713	1.68136
LOC104878975	1.1017	42.3199	13.1168
LOC100245594	12.706	7.82579	59.081
LOC100252510	11.3888	2.24345	3.323
LOC100242268	2.54572	0.376172	1.64964
LOC100257789	1.81501	2.32812	9.01261
LOC100247474	1.21503	0.327669	2.409
LOC100245801	0.94379	1.01626	4.73923
LOC100257849	6.27986	6.71627	33.533
LOC100259283	0.222965	0.0513704	3.48096
LOC100259270	0.652885	0.310836	1.56896
LOC100257828	0	3.06516	11.0775
LOC100254240	2.77577	4.83311	1.07207
LOC100242450	0.108238	2.11215	2.6284
LOC100259497	14.86	3.6232	12.8824
RD22-C	0.495747	1.03683	246.169
LOC100259409	0	6.48216	5.31649
LOC104879004,LOC104879005	49.9542	2.77846	10.1391
LOC100852625,LOC104879049	12.5414	0	69.6309
LOC100254233	255.915	3.79277	1174.97
LOC100252668	63.7821	0.187092	0.131886
LOC100249127	8.49033	0	1.46125
LOC100243964	6.96337	1.67413	2.02549
LOC100259547	2.68909	2.76921	0.652467
LOC100267929,LOC104879013	1.46249	9.86756	4.15822
LOC100245608	1.67307	21.0063	0.126002
LOC100267884	0.937156	7.926	2.42221
LOC100252479	910.991	224.959	2300.38
LOC100259338	8.775	4.79615	22.2522
LOC100262752	1.26082	3.85044	8.92886
LOC100253755	0.0468599	1.74761	1.23464
LOC100241108	0	2.03124	0.021445
LOC100248656	0	1.42459	0
LOC100252152	1.65758	0.0149745	0

LOC100249685	5.94801	3.56907	17.9944
LOC100244374	7.25429	18.9628	4.07877
LOC100247879	15.7135	1.16403	16.0529
LOC100249605	0.661737	2.68714	9.8889
LOC104879142	0.586258	9.48669	1.22357
LOC100240980	1.27171	1.51165	0.363791
LOC100252985	1.21742	8.23479	4.00769
LOC100265092	54.1098	0.330592	0.0214014
LOC100252977	0.668075	4.39486	0.955433
LOC100241065	21.5843	1.96721	37.5934
LOC100240994	3.71118	2.15805	12.0301
LOC100247207,LOC104877277	3.93418	0.820902	20.1614
LOC100232848	4.55052	4.13781	27.3373
LOC100267863	3.67062	8.50379	1.24605
LOC100854147	0.195541	0.911287	1.18925
LOC100247095	0.0442568	0.33972	2.2513
F3H	276.848	117.34	7.47729
LOC104879153	0	2.40103	0.55885
LOC104879125	1.57331	2.49436	0.6177
LOC100247204	27.2047	165.721	52.5924
LOC100247111	9.34389	38.5391	26.8326
LOC100250555	2.02286	4.91133	1.06744
LOC100259071	1.06126	4.27807	10.0741
LOC100249006,LOC100254111	72.8167	5.0425	98.4765
LOC100853656	0	0	1.00898
LOC100257602	0.178468	1.5603	0.310856
LOC100853165	2049.24	600.83	2889.23
LOC100259244	2.70956	0.0997683	0.256126
LOC100262539	2.10036	8.16515	12.3468
LOC100264434	2.35511	4.20049	0.652972
LOC100250623	1.98593	2.33043	0.371692
LOC100232935	91.0447	44.6971	213.879
LOC100243051	12.5573	1.65207	11.898
LOC100251677	1.46254	0.0187688	0.106729
LOC100247400	0	0.623558	3.06587
LOC100266322	16.835	1.50776	6.9547
LOC100243924	0.0514192	0.198799	6.25447
LOC100245740	17.5706	3.64822	23.3797
LOC100262911	0.239533	5.6238	0.0897336
LOC100254397	2.29475	10.3939	4.89677
LOC100266315	2.62234	2.80609	22.4764
LOC100249153	11.8379	1.64462	7.40739
LOC100266471	179.97	11.5609	21.6673
LOC100257698	2.41465	0.432364	4.67764
LOC100266225	7.99813	4.28563	18.4617
LOC100266369	4.67041	2.07691	0.845097
LOC100264680	4.31375	13.5291	24.0686

LOC100252547	158.818	29.9356	98.4899
LOC100252631	6.4572	0.0933974	0
LOC100852666	5.23138	0	34.2054
LOC104879007	0.812487	0.257411	5.24755
LOC100255917	0.0983782	0.208409	1.58208
LOC100259490	8.01085	0.505064	10.725
LOC104879016	0.708807	3.14266	2.96866
LOC100262779	3.89469	10.9598	15.7551
LOC100255990	37.2647	10.2307	8.55061
LOC100257754	0.324994	24.0107	0.0549032
LOC100242272	0.861297	1.21103	3.7949
LOC100262729	0	0.562867	3.71903
LOC100266177	0	1.14535	0.140137
LOC100259329	48.1073	77.2713	5.94288
LOC100266281	5.7563	1.22437	4.80728
LOC100262872	0.481051	2.40367	1.65064
LOC100254251	3.60054	0.652802	1.08195
LOC104879058	0.503036	6.47758	1.5485
LOC104879077	0.114776	2.73057	0
LOC104879079	0.386628	1.18924	0.293407
LOC100243515	0.571566	1.88192	2.57647
LOC104879098	0	1.96963	0
LOC100854905	0.296571	0.204943	1.34388
GST4	2246.15	1278.89	9.85937
LOC100244416	0.763859	1.43904	0.238045
LOC100253049	0.467745	0.0150621	1.95804
LOC100256454	3.44772	0.472951	3.89511
LOC100264992	11.3936	7.79176	1.30046
LOC100252964,LOC100256532	43.2173	25.2267	6.31759
LOC100261630	1.39279	0.614637	10.2372
LOC100247855	3.06654	3.94017	0.915216
LOC100263254	10.52	23.308	3.25302
LOC100240984	0.701497	4.88195	10.2242
LOC100251398	72.8592	15.2365	36.6075
LOC100266832	2.02601	0	0
LOC100251313	2.92475	5.07073	1.25842
LOC100266757	4.73634	0.593567	0.0528827
LOC100253073	436.172	6.56224	3.13632
LOC100258209	37.5682	5.32026	9.36291
LOC100852802	5.78254	8.37018	32.6595
LOC100262585	5.38468	25.1585	8.09697
LOC100253840	86.539	22.5144	20.1308
LOC100245522	0.324168	0.864952	1.97671
LOC104879194	1.0244	0.329331	0.209345
LOC100266089	98.8674	40.0248	11.3746
LOC100248918	2.06582	3.21862	0.174033
LOC100267170	0.15706	1.31163	0.217613

LOC100260142	24.0105	4.3245	22.9739
LOC100246634	0	1.45231	0.462799
LOC100256778	1.34009	0.764604	0.3333
LOC104879215	0.293808	5.02545	0.851523
LOC100256894	0.285355	1.73373	1.0486
LOC100241496	2.56043	1.84529	7.67232
LOC100261887	63.4075	178.341	2.31759
LOC100256795	18.0909	44.0897	0.38657
LOC100251668	29.2386	27.1516	1.48601
LOC100260215	6.72796	1.72876	0.274216
LOC104879202	3.50671	7.73964	14.1043
LOC100249877	2.33568	7.98804	15.8142
LOC100242064	0.108172	0.265025	2.1801
LOC100263041	0.363167	5.58613	3.34893
LOC100256165	5.72817	0.892409	9.54217
LOC100251007	1.00982	1.35996	11.9352
LOC100259559	0.349329	2.90445	3.3556
LOC100259548	0.569411	4.99092	2.95615
LOC100254429	1.0722	4.98613	4.34915
LOC100261302	7.16462	5.76618	27.2978
LOC100251097	1.00148	3.13094	10.3171
LOC100244323	11.6533	11.7825	1.61248
LOC100263116	15.0832	33.2029	3.86674
LOC100259752	26.9666	293.935	17.3405
LOC100251040	4.16606	17.0272	19.4104
LOC100252901	5.63198	8.02265	1.92013
LOC100259676	41.2339	8.66195	5.23769
LOC100266490	16.9348	12.6738	2.56016
LOC100264824	2.07992	0.358522	0.263194
LOC100266596	6.07302	29.3905	13.9065
LOC100251140	1.18888	0.0749918	0
LOC100261423	3.22771	8.23405	1.00171
LOC100245922	4.03389	15.0953	2.74504
LOC100256292,LOC100261388	89.5611	17.7922	28.0687
LOC100251134	45.7616	11.944	68.5455
LOC100247693	0.886543	1.12981	11.6297
LOC100249518	0.296537	4.13623	5.96104
LOC100266478	0.591134	19.4215	2.10349
LOC104879295	0	1.02312	0.165844
LOC100266585	12.6443	6.47265	31.7198
LOC100256286	0.417504	3.16084	3.08301
LOC100240897	1.12897	0.573191	5.76428
CHS3	2095.84	442.503	49.6964
LOC100265737	9.18533	19.2567	41.1458
LOC100252165	3.77245	0.110943	27.2997
LOC104877384	2.21784	0	0.363699
LOC104877391	5.63413	0	1.33851

LOC104879362	1.8925	0.309857	1.12113
LOC100248619	1.03517	0.551332	0.192105
LOC100250461	0.339756	2.06182	10.3889
LOC100255642	0.713142	7.7032	58.6624
LOC100260716	0.137387	1.23048	1.51971
LOC100259981	0.923313	2.54849	0.547848
LOC100244608	34.9357	21.1819	4.29768
LOC100854828	0.557594	0.506019	2.48944
LOC104879453	1.45918	6.3671	3.34201
LOC104879488	0	2.10091	0.142021
LOC100243918	5.42359	4.23614	0.634169
LOC100264616	23.005	13.7418	5.18277
LOC100266359	0	1.32924	0
LOC100253295	19.2703	48.8064	89.58
LOC100255033	0.542471	1.91707	7.97195
LOC100246529	185.159	0.239126	2.15229
LOC100241405	1.45446	0	0.098183
LOC100256873,LOC104879213	0	4.32439	5.02778
PR10.8	1.38281	4.08867	0.742269
PR10.9	1.90708	18.006	3.52052
PR10.7	58.1407	3.92031	52.7585
LOC100244758	7.03246	21.3399	0.327922
PR10.3	257.262	423.66	42.3839
LOC100255126	8.74984	3.14393	12.943
LOC100265331	4.70438	0.731571	3.44478
LOC100253439	0.134877	0.384731	2.66645
LOC100248153	1.31608	2.50908	0.296835
LOC100241949	46.5773	10.9611	8.74782
LOC100243191	0.460996	2.43047	4.6472
LOC100854284	0	3.92049	11.6027
LOC100853716	0.0438027	17.1	28.0978
LOC100252933	15.8908	8.11038	46.1622
LOC100252810	0.117163	0.472293	2.60721
LOC100251002	0.201629	1.03086	2.28203
LOC100264795	0.218004	1.26739	1.25198
LOC100247810	0.139651	0.292952	2.72188
LOC100249323	277.609	68.6898	116.036
HT5	4.00436	28.0068	1.03109
LOC100240867	0.112965	3.65788	0.22965
LOC104879274	0	9.38973	1.22759
LOC100254587,LOC100263125	7.34338	15.6057	3.44757
LOC100266656	0.427133	6.30653	0.151153
LOC100251211,LOC100256366	6.65248	2.98729	15.7657
LOC100247679	1.91882	3.78648	7.67695
LOC100259653	2.38321	21.0228	3.48256
LOC100245945	0.0707284	1.36998	34.6025
LOC100244856	17.3043	4.37161	28.4843

LOC100254645	0.0111201	0.104168	13.1176
LOC100242476	1.15484	0.685036	0.153163
LOC100259585	0.420333	1.68822	1.43783
LOC100264868	4.80092	10.3646	0.259252
LOC100245900	165.535	44.4019	419.995
LOC100263066	28.4597	44.9224	115.371
LOC100264865	2.35146	1.78912	9.28109
LOC100258034	60.7337	5.78067	27.6244
LOC100242465	0.781391	3.43816	1.78469
GRIP4,MRIP1	578.359	3537.34	1333.63
LOC100240909	18.2826	114.307	1163.07
LOC100264738	80.5041	6.0746	25.8953
LOC100244140	0.314221	2.59075	2.51836
LOC100259740	10.5655	0.896902	5.08322
LOC100249526	5.84819	0.69529	1.35174
LOC100258020	1.44891	15.2303	2.42479
LOC100245916	1.81778	12.1504	1.75244
LOC100240788	0.873196	2.91047	0.463647
LOC100242670	0.327352	0.964592	1.97371
LOC100261301	0.369045	2.9317	1.55992
LOC100852746	0.228476	2.96472	1.39088
LOC104879322	1.63367	1.23114	0.39015
LOC104877450	0.40597	2.22998	0.863423
LOC100266687	0	1.54098	0.201855
LOC100255447	0.688797	6.4285	9.58632
LOC100257288	59.007	35.677	12.9063
LOC100245254	0.610549	3.67857	0.611128
LOC104879368	1.27982	0	0.277997
LOC104879366	0.1155	0.59297	2.97993
LOC100262385	0.404609	6.79056	1.62005
LOC104879357	1.19388	0	0.0986444
LOC104879356	0.206455	0	2.10678
LOC104879355	3.02558	0.0147964	0.276922
LOC100263523	0.932016	9.41474	85.2637
LOC100266931	5.70474	8.80292	24.1036
LOC100246287	40.6692	75.4191	11.6384
LOC100854122	9.77968	2.2576	2.98122
LOC100246361	1.29616	7.0824	7.89776
LOC104879424	0.9266	10.4247	8.60297
LOC100262094	0	3.66696	1.52906
LOC104879465	5.53704	3.28196	0.445691
LOC104879470	0.136988	2.78122	0.295173
LOC100266390	6.57576	45.7258	44.8104
LOC100256098	4.5435	7.95154	1.61492
LOC100244031	0.526249	3.92936	0.0453541
LOC104879495	3.25801	5.44503	27.0486
LOC100244046	4.18941	0.91243	1.7686

LOC100259258	0.261501	1.56654	0.626944
LOC100262970	1.85787	2.56908	9.60116
MLO15	8.89625	83.0446	33.3403
LOC104879640	0.807129	2.26088	0
LOC100258679	2.81962	0.563535	1.15248
LOC100854198	0.486906	2.02403	0.22028
LOC100260405	97.8976	15.1138	174.321
LOC100265620	90.9752	48.8894	256.286
LOC100244918	6.05651	33.3433	9.13316
LOC100253541	52.2369	6.66955	1.28295
LOC100263839	12.286	16.1864	1.60964
LOC100241568	9.45783	23.8002	1.3656
LOC100246695	1.68305	3.52417	0.35723
LOC100251830	1.51936	3.19712	11.3185
LOC100258789	99.5816	0	0.528514
LOC100248545,LOC104879589	1.43851	0.157459	0.170179
LOC100241684	0.318234	0.14349	11.7502
LOC100255333	3.46056	7.86947	1.85771
LOC100241571	0.282459	1.65807	4.44189
LOC100246807	1.16352	6.56049	6.30965
LOC100263963	33.0063	14.6795	6.33582
LOC104879579	6.97498	1.39608	4.96655
LOC100853565	2.47315	0.606001	3.27125
LOC100257080	0	0	2.00904
GRIP22	11935.6	1944.31	9404.42
LOC100245047	7.58404	0.744188	7.49972
LOC100853239	0.914457	1.24323	5.52997
LOC100256973	202.901	39.7929	50.6584
LOC104879568	0.241645	0.600857	5.07643
PIP2	0.368251	3.32674	8.68413
LOC100251941	2.00075	3.73019	14.2896
LOC100253566	1.34529	0.298658	0.538662
LOC100233064	1.1281	3.98007	0.750478
LOC100243320	4.23254	6.35697	31.2522
LOC100255365	0.072623	1.59235	0.504481
LOC100255372	0	0.1879	1.17307
LOC100265533	85.9618	295.685	35.8768
LOC100246640	0.90719	11.5035	9.38681
LOC100250212	3.05281	2.34789	14.6965
LOC104879547	2.0933	1.40751	0
LOC100262098	2.96801	0	0.919358
LOC104879615	0.866303	12.376	0.76711
LOC100248386	179.955	11.1731	87.5618
LOC100241712	1.40696	12.3601	1.07706
LOC100243236	0.65973	0.382233	5.76486
LOC100248366	0.80576	13.671	1.00098
LOC100262025	0	0.24107	3.51275

LOC100265697	2.69557	11.7352	29.741
LOC100262131	0.627628	2.02556	3.53637
LOC100267299	2.68045	19.7247	5.4883
LOC100251984,LOC100262142	1.64994	8.11248	0.831945
LOC100260379	0	2.0042	0.166725
LOC100262223	0.722519	0.412299	3.78432
LOC100263887	1.65104	0.292856	14.512
LOC100257005	79.8818	378.614	88.1669
LOC100261566	0.821361	30.5556	7.49668
LOC100853401,LOC104877424	0.16773	1.4895	0.776677
LOC100261580	64.6201	16.9219	96.647
LOC100253027	134.992	332.83	75.8583
LOC100251280	12.5352	57.0751	77.9214
LOC100854978	2.81808	0.218305	0
LOC100249557	0.165192	1.29563	6.1379
LOC100258223	0.0939168	1.39751	0.151477
LOC100249635	0	0.393314	1.89087
LOC100247908	3.06004	0.668889	1.62818
LOC100244402	5.30714	7.83646	25.9092
LOC100259777	7.21187	9.1702	1.75769
F3'5'H	37.4275	0.152358	0.0341022
LOC100248071	1.33155	0.0220808	0
LOC100267840	3.18008	0	0.0200294
LOC100243414	1.51556	0.0735221	0
LOC100852531	1.01794	0	0
LOC100241335	35.1661	2.74008	0
LOC100263664	127.235	34.8341	11.8097
LOC100246526	5.30741	0.357516	0.298357
LOC104879646	0.756879	6.23648	0.202601
LOC100265368	0.65838	14.0603	0.62963
LOC100244768	110.508	61.0108	26.9412
LOC104879714	84.5754	18.1966	21.2646
LOC100267088	4.1973	0	0
LOC100244770	0.658624	5.26741	5.40586
LOC100249900	0.0708437	0.158242	2.86594
LOC100243057	0.27328	0.514622	1.22937
LOC100246559	4.46439	2.59909	0.717126
LOC100243061	0.284737	1.39472	0.397917
LOC100251616	14.9718	5.99122	78.6892
LOC104879704	0	0	2.26032
LOC100244875	2.45794	11.1888	4.43618
LOC100266673	14.0674	2.61592	1.5663
LOC100253478	3.70038	0.674954	0.109582
LOC100257100	0.651674	2.53317	5.00147
LOC104879739	0.302383	1.54369	0.204069
LOC100263939	1.00967	16.2589	1.46485
LOC104879597	0	0.365777	2.6324

LOC100263949	19.8721	41.7	8.53527
LOC100263837	22.1698	11.4233	3.32166
LOC100262067	0.0707763	0	2.80235
LOC100255325	50.8348	10.8689	57.6694
LOC100260291	1.41978	16.7966	6.48156
LOC100244923	15.2612	37.692	121.581
LOC104879585	0.764118	0	1.78305
LOC100854491	3.23127	33.6331	6.94713
LOC104879583	0	1.00004	0
LOC100253650	1.54647	3.40771	10.9112
LOC100241575	167.921	65.13	20.7638
LOC100245036	2.79313	6.09949	17.5243
LOC100251969	10.4127	3.77938	24.3541
LOC100243211	0.243905	0.365307	1.52195
LOC100241584	0.121421	4.70588	0.929393
LOC100246844	1.2609	0	0.441282
LOC100255240	22.2851	5.11515	19.6111
LOC100253492	0.260989	1.97623	7.71399
LOC100255246	41.7761	21.868	108.945
LOC100258611	0.776781	3.46575	0.815711
LOC100245055	35.2125	20.3598	113.45
LOC100255358	15.9562	61.0253	4.61676
LOC104879541	15.9026	32.7239	5.96367
CTR6	0	2.77223	0.673235
CTR7	4.91708	45.1051	0.368417
LOC100251865	21.9691	92.3154	97.3939
LOC100853495	2.92832	1.85982	0
LOC100251798	0.189273	1.13491	0.0479185
LOC100243349	18.9719	0.0554222	0.600439
LOC100265561	6.0094	0.408393	10.9232
LOC100250239	0.0196783	0.126634	2.09476
LOC100257036	6.21688	34.1303	0.0745553
LOC100262112	20.0513	28.8083	6.7239
LOC100255269	10.0768	43.3193	14.159
LOC100263822	4.4964	0.913896	28.7933
LOC100253493	345.275	236.134	53.8198
LOC100249672	0.0471271	0.642501	4.67712
LOC100246224	12.576	17.3179	67.9975
LOC104879665	0	0.0514842	1.52045
LOC100253115	0.281198	1.56323	0.709624
LOC104879651	0.197334	1.46065	0.503772
LOC104879717	0.073838	1.06199	1.91835
LOC100263698	46.5476	1.01109	134.222
LOC100243077	1.86018	5.03561	12.4082
LOC100261833	0.915039	0	1.58348
LOC100854742	0.097564	0.538665	7.10693
LOC100260258	0	0.217829	56.6931

LOC100248181	0	0.197503	1.57156
LOC100243168	0.173738	3.13609	2.6462
LOC100259719	0.494152	0.0538289	2.78177
LOC100251004	10.6474	3.91806	17.3937
LOC100265664	2.21646	0.309332	1.20588
LOC104879730	2.33038	5.05418	15.7173
LOC100854382	21.3292	22.3154	4.85602
LOC100264878	1.89603	11.7789	4.72858
LOC100852937	0.380479	0.414082	2.95512
LOC104879755	1.24332	6.08229	0.890723
LOC100247629	5.81326	2.44758	1.45259
LOC100252738	11.4151	19.6514	86.6051
LOC100853168	0.631248	3.65532	8.13786
LOC104879772	2.78948	0.0317408	0.586739
LOC100252825	5.15127	12.228	0.872758
LOC100240843	2.18025	0.932774	0.37537
LOC100266534	2.71044	7.75868	1.6149
LOC104879761	0.312879	1.60949	0.0412343
LOC100247639	3.96263	0	4.39124
LOC100251998	20.5703	2.78496	33.5246
LOC100253698	60.607	110.18	27.3698
LOC100245304	12.2907	0.771849	108.465
LOC100232904	6.3837	25.393	4.30067
LOC104879790	4.90806	0.217911	0
LOC100243565	12.2939	0.457896	0.395655
LOC100252201	0.583115	3.3366	3.03584
LOC100264200	0.226695	3.10808	3.31743
LOC100260531	0.0571648	0.145035	1.15749
LOC100255485	4.94638	0.345958	2.88511
LOC100250305	3.52343	0.216905	1.2046
LOC100257220	0	3.57345	0.0381757
LOC100252196	0	0.108594	1.79421
LOC100252166	1.39888	1.75985	7.23895
MYB14	12.499	4.70617	1.25057
LOC100254904	2.83826	22.8546	18.4481
LOC100260006,LOC100263455	1.12642	5.59119	3.23904
LOC100241271	2.04062	10.5247	1.50384
LOC100256669	2.82949	0.492664	3.80333
LOC104879861	10.032	1.8237	1.70798
LOC100252818	1.22124	15.5807	0.0852829
LOC100254562	2.29865	13.3611	0.831139
LOC100853965	2.53339	11.0731	13.5241
LOC100266575	2.80734	0.0360424	0
LOC104879888	2.83399	0.113668	0.427474
LOC100265512	0.0702754	0.374256	25.0396
LOC100253540	4.5015	0.979687	0.949806
LOC100855319	0.458394	0.22465	5.24941

LOC104879902	2.09822	2.89547	0.49361
LOC100249503	0.206926	1.23588	0.899905
LOC100242628	137.297	14.1773	16.637
LOC100854017	0	0.525872	1.47591
LOC100855039	207.094	8.99169	1.32672
LOC100854234	3.07643	4.29132	0.366305
LOC100261250	2.50306	10.8105	13.8241
LOC100262963	0.42572	0.593215	2.22991
LOC100242388	17.8042	42.0446	130.94
LOC100254308	2.23673	6.35026	11.9617
LOC100261095	11.8464	11.0712	108.961
LOC100247305	0.765656	0.449504	3.41408
LOC100262973	1.01554	0	0
LOC100250944	3.48886	0.680258	0.250323
LOC100261177	0.266997	0.399452	2.17985
LOC100249066	0.868299	2.53713	6.28626
LOC100262983	0.14075	2.47512	2.97484
LOC100252644	0.094134	6.75716	0.715872
LOC100257784	1.76708	20.6772	6.20963
LOC100259314	80.5057	20.6778	6.26448
LOC104879927	0.842515	4.32045	5.42731
LOC100242414	0.491489	0.918942	2.17695
LOC100261123	62.912	254.913	106.677
LOC100254266	0.503465	4.16138	4.35028
LOC100259386	0	2.06883	4.95908
LOC100250696	0.168955	2.15525	0.292936
IFRL3	0	0.321287	1.73828
LOC100256321,LOC104879754	1.84469	0.900347	0.261795
LOC104879750	0	6.34749	0.252913
LOC100259592	8.11346	41.8136	21.3281
LOC100264774	1.23838	15.5778	0.949056
LOC100263120	117.587	103.721	18.1202
LOC100854059	0	2.48462	0
LOC100852645,LOC100853754	0.323877	0.379911	2.46646
LOC100852532	0.741803	1.44039	3.89754
LOC100853533	0.429441	0	2.09134
LOC100264747	0.490346	27.7995	2.10134
LOC100854564	9.75781	3.55794	19.8144
LOC100264861	0.818448	5.31956	2.68031
LOC100263109	20.8555	9.05514	49.3726
LOC104879771	1.13206	5.58705	1.5305
LOC100251223	2.34366	8.66436	0.153215
LOC100247747	0	1.82383	10.2241
LOC100266566	4.29052	0.0215093	0.220424
LOC100253672	0	3.96264	0.451684
LOC100248567	0.63355	2.81248	4.5857
LOC100260563	69.194	37.1018	16.74

LOC100245167	10.984	1.36998	0.444611
LOC100854991	0.424292	2.56599	1.84595
LOC100264117	10.4627	0.321412	2.11052
LOC100248587	1.06133	0.229203	7.33286
LOC100243451	7.34677	4.47661	19.2323
LOC100260647	7.89891	22.5031	1.25477
LOC100252066	3.2842	1.86393	47.5038
LOC100260673	1.01558	4.54811	2.07237
LOC100260641	0	0	1.68873
LOC100265739	0	2.25472	0.1665
LOC100267452	3.25374	27.2108	7.6317
LOC100263547	0	0.111261	1.02828
LOC100246316	35.2507	2.99184	35.1182
LOC100243021,LOC100248141	0.975953	4.50725	2.5608
LOC100251082	0.575197	3.92947	2.02349
LOC100241465,LOC100263724	0.0267144	0.198849	14.8287
LOC100251642	0.454072	1.35749	2.42991
LOC104879871	0.47256	0.254513	3.05026
LOC100261941	12.3311	5.93842	2.59316
LOC104879882	0	7.84439	0
LOC100242338	1.53475	7.47506	2.86881
LOC100854756	0.361668	0.499924	1.61055
LOC104879909	0	0.931349	1.72047
LOC100264525	0.51425	3.25385	6.69821
LOC100249049	1.75455	6.88567	9.70371
LOC100250701	0.178776	1.42991	2.63656
LOC100255878	1.31599	7.63785	20.4742
LOC100266458	0.669495	5.94781	2.51385
LOC100244116	1.2118	4.36396	5.92019
LOC100256084	0.724563	1.27638	3.31182
LOC100247381	1.49924	0.554655	0.187474
LOC100264539	34.6748	33.7271	137.143
LOC100262762	106.723	26.3254	103.546
LOC100266173	0	0.110847	5.01296
LOC100853240	0.344646	0.472796	1.98137
LOC100254367	15.816	6.76205	42.351
LOC100266331	278.921	61.3746	156.027
LOC100262890	1.15675	0.450493	0.234912
LOC100244355	2.12034	13.3411	29.7516
LOC100262151	2.36219	8.9487	1.72487
LOC100251912	9.04434	41.2721	17.1786
LOC104879960	0.805994	3.19869	0.729761
LOC100241535	3.0289	0.404362	2.90735
LOC100265386	4.53994	10.5947	20.5218
LOC100246655	6.37582	0.459707	2.65589
LOC104879974	0.329213	0.227131	1.10095
LOC100252978	0.520876	4.11846	5.46185

LOC104879975	1.40289	4.48015	6.4596
LOC100251316	2.65474	93.7578	3.87568
LOC100250354	2.76183	17.5992	10.2675
LOC100259062	0.487315	3.00273	0.544183
LOC104880008	0.700259	2.39387	0.32957
LOC104880031	0.611679	4.22177	1.20577
LOC104880016	3.5345	20.7704	3.91937
LOC100249984	2.0151	30.1933	9.15661
LOC100244761,LOC100249885	54.5423	152.094	422.295
LOC100263665	0.639682	3.04895	0.660475
LOC100261985	86.5836	44.2452	538.983
LOC100244729	309.888	72.6051	154.452
LOC100260104	0.148816	2.57313	3.19665
LOC100263725	0.0818183	2.1896	1.28006
LOC100243165	1.74387	3.19104	0.356427
LOC100853283	2.12019	0.305437	3.18675
LOC100261834	0.628785	0.264436	1.27236
LOC100251645	3.16125	13.5412	5.19759
PIP2%3B3	31.2125	99.5923	268.89
LOC104880058	0.0470151	0.203999	3.15097
LOC100854914	0.326673	1.07765	1.66019
LOC100267116	8.77334	1.19163	2.44058
LOC100265405	0.079771	1.27387	1.49062
LOC100256772	1.15438	5.25511	12.8514
LOC100267121	1.84015	13.4219	4.72584
LOC100253445	0.271882	0.597639	4.57471
LOC100248309	0.358841	1.57123	0.56389
LOC100241385	0.973626	0.539167	2.23945
LOC100259551	334.696	76.4578	224.462
LOC100263156	1.95939	9.53315	6.89312
LOC100233051	8.94775	2.21951	18.4417
LOC100240931	1.88072	4.9956	8.62543
LOC100258048	0.351544	2.64911	0.132259
LOC100249316	47.5769	6.83508	39.1291
LOC100244158	1.93677	0.919231	0.266047
LOC100242625	0.0834811	1.88231	0.565308
LOC100245906	2.24622	0.0826513	11.9993
LOC100247753	6.88325	0.192388	0
LOC100233126	3.80707	7.4964	17.4476
LOC100256304	1.2417	8.72702	1.76377
LOC100246006	0.0193659	0.142781	1.07314
LOC100263174	0.701305	1.6237	3.70433
LOC100258036	0.538657	1.32729	3.01985
LOC100245964	1.02967	2.73491	0.515923
LOC100254525	1.23223	0.275887	4.1339
LOC100254636	1.55258	1.08758	6.86332
LOC100261446	68.1148	10.1572	1.76281

LOC100240971	0.368912	0.0208561	10.5362
LOC100264776	0.943888	2.00977	7.25752
LOC100251138	2.06885	0.516481	2.52654
LOC100255435	0.153767	1.1928	0.75338
TIP1%3B2	134.466	250.297	769.569
LOC104880140	0	1.34369	0.244525
LOC100243497	24.2149	47.8993	110.138
LOC100853129	6.07746	19.6131	26.8784
LOC100252129	156.606	67.7338	327.397
LOC100248729	2.20169	4.50698	13.6589
GDHB	2.8859	14.3411	27.7331
LOC100265797	0.200998	0.686259	2.97251
LOC100855221	388.329	0.23458	17.5205
LOC100255467	0.925074	0.420864	2.38736
LOC100241812	1.46882	3.84811	8.17449
LOC100250439	1.17656	7.94421	1.91287
LOC104879969	0.712233	2.24799	0.507568
LOC100265706	4.50045	0.382565	0.0688805
LOC100262048	1.20747	0	0.440516
LOC100241637	693.998	548.02	44.4104
GRIP32	156.222	421.129	62.3712
LOC100249668	0.24474	2.73947	4.16614
LOC100247933	1.41586	6.41164	4.283
LOC100246087	50.9839	32.697	8.88403
LOC100252982	21.8543	40.9652	89.5911
LOC100246161	2.02228	2.06109	0.462097
LOC100255650	0.714738	2.98265	2.71601
LOC100250551	2.30951	12.1786	7.46539
LOC100262692	0.410685	5.5176	0.231698
LOC100247091	1.95529	1.16193	0.392841
LOC100244757	0.283978	7.61819	1.34448
LOC104877317	2.10504	13.3244	1.74687
LOC100243128	0.196404	1.73402	0.257035
LOC100256885	1.20887	0.133281	0.0503045
LOC100251671	4.31221	4.13797	17.6439
CIPK08	12.3507	2.06747	15.457
LOC100241389	1.16044	0.266134	0.342985
LOC100255013	5.66221	36.0681	45.6463
LOC100243039	4.1702	1.97358	15.0612
LOC100261951	38.2947	24.4875	4.68218
LOC100249911	0.67302	0.39918	3.95409
LOC100255056	0.844387	13.5737	5.1922
LOC100241372	0.889542	17.0002	7.62546
LOC100256832	8.90415	1.46422	4.571
LOC100241377	14.1284	23.6665	4.82379
MLO11	0.734941	11.7801	0.818975
LOC100251731	3.81432	1.28658	7.11422

LOC100256751	2.66275	13.3314	4.70092
LOC100255195	9.27198	22.1732	2.73046
LOC100263625	0.764229	1.40886	0.287453
LOC104880170	2.15548	0.38056	3.58344
LOC100245911	22.0992	6.60161	65.0179
LOC100245988	1.42286	0.126809	8.11859
LOC100854994	0	0.754669	2.15777
LOC104880167	0.808712	5.9363	1.64345
LOC100240776	2.10372	0.950347	26.7159
LOC100246012	8.55564	62.8077	13.1845
LOC100264798	0.0697542	4.52564	0.311146
LOC100254532	4.62138	1.42729	6.83212
LOC100240763	94.8055	3.63375	1.32684
LOC100254493	0.179146	1.01479	1.44131
LOC100240876	0.169161	0.0893363	4.93431
LOC100264942	6.22909	5.56452	29.0644
LOC104880155	1.50815	2.83889	6.34457
LOC100251141	0.0578701	0	22.6524
LOC100240912	0	0.0303183	7.11621
LOC104880145	2.32283	0.26613	0.0721513
LOC100258024	0.281826	1.0528	0.159662
LOC100259738	3.60727	1.54016	8.13588
LOC100250246	2.80934	0.288136	3.83479
LOC100246902,LOC100248767	2.31908	13.3952	9.6023
LOC100264066	3.53475	6.13968	15.8911
LOC100248651	0.848874	2.16544	0.407447
LOC100255547	0.297867	0.100041	4.46291
LOC100247001	1.08363	0.527838	2.29399
LOC100853352	24.7115	19.7294	5.69618
LOC100855222	1.86858	12.7297	5.18766
LOC100855149	7.02441	47.6	67.5262
LOC100852723	8.42735	1.36287	6.33716
LOC100265807	0.524444	1.28338	2.19205
LOC100253833	2.35128	19.8888	27.083
LOC100255639	3.36906	20.078	17.868
LOC100257217	1.73137	4.54295	29.5474
MYBCS1	13.9985	3.72541	22.8783
LOC100250413	2.24153	14.8068	6.94359
LOC100248614	0.507717	3.47897	3.729
LOC104880112	1.4992	2.55236	6.9161
LOC100245168	5.70914	0.820125	1.68444
LOC104880101	3.85944	7.73019	1.37854
LOC100260694	1.38904	7.12792	0.723279
LOC100257201	0	0.0218134	1.25163
LOC104880196	1.74284	2.06756	0.465548
LOC100251413	0.659853	2.50665	24.6545
LOC100258290	6.66054	2.69068	44.2038

LOC100253160	16.1466	3.01429	9.46257
LOC100254856	1.06047	1.38859	0.209129
LOC100265188	35.0015	66.9708	15.266
LOC100246433	0.613271	0	3.09419
LOC100266896	0.48538	6.90051	1.26084
LOC100249800	0.887517	5.3718	4.59459
LOC104880208	6.24774	13.2145	30.4121
LOC100244649	1.79349	1.16144	0.349458
LOC100855049	0.0290021	0.328669	2.75841
LOC100265181	1.74799	14.6926	17.9262
LOC104880217	0.105462	0.591913	2.98317
CWINV	3.61217	24.7115	2.5491
LOC100241282	0.304925	3.30443	2.93373
LOC100256592	4.82265	21.1884	16.4083
LOC100251455	4.97087	12.746	2.09272
LOC100242932	0.045181	1.47839	0.259398
LOC104877404	2.06412	0	0
LOC100248142	46.1037	6.36833	6.6425
LOC100261686,LOC104880223	0.0510976	2.33978	0.992438
LOC100266874	0.185914	3.54232	1.30308
LOC104877427	2.0246	14.7604	23.6028
LOC100249745	30.9427	75.3359	11.3288
LOC100267002	0	2.45416	0.768003
LOC100248013	0.967003	2.83351	4.41584
LOC100241176	28.2787	18.8636	84.6863
LOC100266912	0.169609	0.348428	5.62632
LOC104880252	0.196015	1.19323	0.830684
LOC100249812	0.524841	5.67789	0.298619
LOC100246445	0.365429	1.3629	6.44518
LOC100253157	3.15046	0.464645	0.608731
LOC104880259	131.603	35.8227	14.2452
LOC100266263	1.35376	3.22235	15.4218
LOC100250809	0	4.91166	0.320624
LOC100255171	0.10114	4.9947	1.82395
LOC100242509,LOC100250015	5.63744	5.06779	24.7764
LOC100259222	3.73221	1.9703	26.045
LOC100266893	0	0.050605	4.54486
LOC100266984,LOC104880318	7.27744	0.438522	8.70827
LOC100266987	22.4595	18.7041	2.99692
LOC100246437	2.61328	2.31299	0.480574
LOC100265249	2.79956	6.87596	1.56227
LOC104880282	2.46724	7.27219	16.5881
LOC104880342	2.84522	0	0
LOC100247196	0.234556	1.69298	2.70596
LOC104880337	0	5.23257	0.622018
LOC100261932,LOC104880348	0.257319	4.72778	4.82781
LOC104880349,LOC104880350	7.49603	1.435	0.788055

LOC104880338	0	2.95299	3.92764
LOC104880339	0.0514446	0	3.93586
LOC104877381	0	0.442734	2.30385
LOC100256746	0.514381	5.2022	7.69856
LOC104880354	3.88532	0	1.48782
LOC100265363	0.239298	1.97244	1.43254
LOC100265463	0.963473	2.6395	5.00308
LOC104880356	51.5974	205.527	1144.38
LOC100261184	15.0289	1.39493	10.5092
LOC104880391	0.422557	3.25385	4.24772
LOC100255370	9.87803	0.421553	0.27422
LOC104880397	0.161188	2.23487	2.61244
LOC100256964	0.125801	3.66411	1.55631
LOC104880403	0.0987054	1.09121	0.734918
LOC100265643	4.73754	0.746353	2.35173
LOC100267352	8.54958	1.77916	6.30811
LOC104880426	5.98589	0.280908	3.48006
LOC100267011	0.199787	0.0212852	2.07058
LOC100246222	2.52212	0.614869	47.724
LOC104880434	5.64049	3.55845	0
LOC100265044	0.0428033	1.24119	0
LOC100261598	0	4.29948	7.5316
LOC100244700	11.4961	8.29351	33.6234
LOC104880200	1.46488	0	0
LOC100251477	0	0.0146733	2.09527
LOC104880292	0.60627	1.27615	0.219341
LOC100265183	0.343825	0.486458	4.56384
LOC100259980	9.57704	1.16721	0.26433
LOC100244575	0	0	4.3683
LOC100242977	0.29731	0.361287	1.94418
LOC104880231	4.49104	15.9368	1.84429
HP2	0.0423627	0	1.09311
LOC100248099	3.479	23.4331	38.5441
LOC100254908	0.455206	1.93397	1.97297
TIP2%3B1	875.909	159.13	518.064
LOC100253148	0	1.11083	1.16816
LOC100254998	0.546432	0.207188	2.25741
LOC100852761	0.797239	2.21176	0
LOC100256715	2.25956	1.51378	10.9737
LOC100241136	30.5606	39.9566	5.6492
LOC100241247	1.53275	0.854087	0.230079
LOC100251419	1.81132	8.89238	1.1543
LOC100246279	2.90779	1.53181	0.202016
LOC104880309	0.452581	2.04369	0.709341
LOC100265187,LOC104877437	3.275	19.3035	5.30081
LOC100247488	23.9584	1.0072	3.13221
LOC100245657	7.0768	0.431384	0

LOC100242207	8.52643	2.73254	1.30236
LOC100853353	4.03065	10.7402	1.95349
LOC104880276	2.25157	0	0
LOC100259959	0.419694	3.93885	5.26634
LOC100244585,LOC104877375	0.110434	0.242114	1.23346
LOC100264455	0	0.282804	1.52148
LOC100242170	91.8288	18.8589	15.4805
LOC100268109	0.808756	3.57351	4.21333
LOC100268101	0.964911	2.56829	7.89343
LOC100249060	0	0.122171	1.67542
LOC100255943	2.57219	26.0859	9.53523
LOC100854265	1.61053	0.218353	0.0179258
LOC100265292	0.218327	2.65798	1.14186
LOC100251433	0.377457	2.30822	1.33426
LOC104880347	3.94392	0	0.678363
LOC104880364	0	1.80273	1.49526
LOC100262015	2.29416	6.0785	11.9204
LOC100251973	0.629403	0.765789	5.3559
LOC104880373	1.38472	2.25811	0.108346
LOC100263973	5.79991	12.5669	137.717
LOC100244938,LOC100250075	0.0370005	0.513016	44.9356
LOC100260288	430.284	13.3036	76.4016
LOC104880387	2.9685	0	12.0301
LOC100247976	1.06726	5.57755	0.510074
LOC100242837	4.61759	3.2923	0
LOC100852884	3.76283	13.1271	0.471873
LOC100852503	1.04547	0.0414312	0
LOC104880420,LOC104880421	2.44998	0	0
LOC104880442	1.0915	5.29022	0.0817577
LOC100263357	0.32636	1.04923	0.235357
LOC100254746	0.843237	7.32717	4.39803
LOC100854019	0.360557	2.25776	0
LOC100249623	0	1.7214	0.0263081
LOC100256402	0.925519	0.336756	2.15717
LOC100855028	2.4596	0	0.314246
LOC100249107	0.864892	0.158259	1.21287

Supplemental Data Set 2. Differently expressed genes among grape young leaf samples.

Gene	BB	RG	DK
LOC100249028	9.96887	31.1532	4.93794
LOC100264573	1.35342	0.163581	0.024902
LOC100261136	1.72775	0.0907905	1.83301
LOC100260989	0.224828	20.4608	4.13314
LOC100260982	1.96063	5.89604	1.11651
LOC100257798,LOC104879009	2.64554	15.7567	9.78175
LOC100242416	7.14353	0.977537	23.9124
LOC100267908	12.0252	0.915437	9.46132
LOC100254256	35.3395	1.54629	2.05003
LOC100256027	0.593394	4.55641	0.574897
LOC104879344	0.443203	23.614	0
LOC100247541	9.79197	25.3903	0.994903
LOC104878923	0.988895	5.03007	4.02141
LOC104878924	3.54318	17.4379	0.0750254
LOC100263000	1.11906	21.7122	1.50537
LOC100250719	1.27903	4.21538	0.918334
LOC100259307	92.3636	7.08287	78.6652
LOC100257723	30.2384	6.62268	13.9905
LOC100249239	4.88736	15.2776	3.55527
LOC100247323	12.7086	52.1568	5.83754
LOC100245576	1.17447	8.1305	1.86688
LOC100262743	7.4926	12.793	1.75435
LOC100257622	0.2956	2.46229	0.119108
LOC100262828	47.2348	85.4249	4.95343
LOC100254317	12.4303	4.63447	25.3799
MYBC2-L1	63.0277	8.77917	18.4024
LOC104881043	3.89617	19.0742	10.2007
LOC100261077	49.7619	10.0758	3.88416
LOC100266230	3.76019	0.540246	11.5916
LOC100267971	1.4717	0	0.0788296
LOC100254219	31.5236	1.54948	5.52718
LOC100853085	46.4188	4.83189	30.0199
LOC100262819	188.134	30.1132	87.0742
LOC100250842	2.90817	12.0936	4.31152
LOC100264648	9.87423	0.0590901	1.53113
LOC100266435,LOC100853103	41.7379	4.71711	20.1109
LOC100268011	2.79249	12.1593	3.03804
LOC100257690	31.3867	3.8232	22.7491
LOC100247486	1.20673	0.262603	1.2426
LOC100233130	2.46473	40.3266	41.1723
LOC100259451	1.04754	0.057155	0
LOC100244068	1.33825	8.28418	0.167605
LOC100252431	16.633	5.96234	3.87877
LOC100852957	180.273	85.4138	24.9357

LOC100250014	1.60561	0	0.0817307
LOC100260250	7.58014	9.53856	30.6318
LOC100241353	70.416	15.5565	55.8109
LOC100260266	557.846	14.4969	765.324
LOC104879599	0	5.09028	5.39292
LOC100854095	0.269129	9.69966	10.4913
LOC100852726	24.6237	32.4399	2.04591
LOC100260439	0.109637	0	1.14268
LOC100267362	1.3257	0.492087	2.20093
LOC104879964	1.32387	5.90321	3.91473
LOC100260341	20.7399	1.66852	8.02372
LOC100262076	1.24804	0.684024	7.75162
LOC104879808	0.061701	1.16931	0
LOC100256814	2.35493	0.585045	1.62801
LOC100249919	4.32214	0.814686	0.994923
LOC100265355	12.0478	1.7393	10.8784
LOC100248178	1.49861	10.1253	0.887315
LOC100251684	4.7326	0.14698	0.219316
LOC100257438	1.90604	11.397	7.95428
LOC104880113	0	0	1.15162
LOC100264433	7.64568	1.31437	5.5655
LOC100251346	0.135667	1.07159	0.0579688
LOC100248212	39.9976	26.911	4.3527
LOC100247728,LOC100264875	0.907429	5.25721	3.23276
LOC104880699	0	2.13813	0
LOC104880458	329.141	1685.18	706.927
LOC104880461	271.004	1243.37	396.134
LOC100242487,LOC100264777	2.56418	25.1121	3.86721
LOC100266653	1.84201	2.9407	0
LOC100244321	0.848933	1.61072	0
LOC100254585	0.997839	5.14628	0
LOC100263123	2.08209	3.95233	0
LOC100240864	0.931945	4.29152	0.337635
LOC100259708	7.09524	0	0.403213
LOC104880513	0	8.37581	4.55297
FAOMT	3.47472	20.9612	9.31522
LOC100852958	21.7898	89.5097	33.8661
LOC100853551	0.456894	2.52065	0.400206
LOC104880633	0.244785	0.305426	4.79122
LOC100245367	14.6089	40.0386	8.92728
LOC100245472	0.435092	0	1.14144
LOC100248984	78.5356	15.3945	27.3977
LOC100245456	1.93347	0.398854	3.44268
LOC100259202	2.11797	3.29307	0.774387
LOC100249034	1.34822	0.124654	0.370816
LOC100257668	14.9162	3.95404	19.3082
LOC100247567	1.75653	3.64758	0.688111

LOC100254419,LOC104877428	14.1596	4.07537	1.74313
LOC100855161	3.13645	13.1322	1.22487
LOC104879102	0.0267633	1.249	0.184887
LOC100266416	53.3423	10.5199	13.1268
LOC104878973	30.4038	8.29308	0.993358
LOC104878972	1.08193	0.219446	0
LOC104878959	7.04703	4.10969	1.51669
LAR1	62.6957	15.0952	28.3355
LOC100249140	22.6918	51.1258	8.89156
LOC100257863	1.11208	0	0
LOC100244117	8.94742	9.57991	2.3574
LOC100245810	0.134751	2.23809	0.514347
LOC100261252	0.44341	1.11707	2.57707
LOC100852497	4.27072	1.88878	9.31676
LOC100252491	1.1978	0.836269	3.63894
LOC100261088	0.55795	0.670912	3.99215
LOC100243915	6.21363	20.1266	4.99373
LOC104882362	7.72063	26.6427	1.74585
LOC104882357	6.72897	0.124707	0.944702
LOC100262736	6.70958	0.582349	0.0667966
LOC104881607	0.328726	3.35613	0
LOC100242324	13.7919	38.7209	2.05795
LOC100250994	0.349801	2.16078	0.428234
LOC100257695	19.4318	83.5981	31.0289
LOC100266279	0.612892	10.3228	3.32969
LOC104880150	5.98674	1.58074	1.47548
LOC100266435	23.2524	3.48612	16.9589
LOC100254156	48.0869	85.0631	2.55199
LOC100255972	3.74196	22.3549	10.4127
LOC100249254,LOC100265597	1.03522	7.86497	20.3953
LOC100852659	11.5253	19.4335	1.03198
LOC104879119	7.11738	0.145374	0
LOC100247586	38.2738	5.41409	42.7638
LOC100264447	31.4216	6.92587	64.8532
LOC100266215	0.644953	4.87908	1.09411
LOC104879922	1.36125	0.388365	1.62481
LOC100261157	15.7653	2.42622	14.5514
LOC100246480	0.0599413	3.08532	0
LOC100248190	0.783012	10.1054	7.37658
LOC100267199	16.8083	4.14432	25.9905
LOC100244715	1.03128	14.125	7.00388
LOC104879710	147.285	207.842	40.4756
LOC100852822	124.092	143.391	28.0614
LOC100243339	18.9705	3.3855	2.64806
LOC100262106	16.1291	34.7774	7.37673
LOC100246832	32.2996	21.5039	87.0335
LOC100241577	20.4237	4.2014	10.0284

LOC100245028	2.01442	3.39778	0.561796
LOC100255163	5.44513	36.4873	7.3567
LOC104879728	59.1238	0.886297	1.9777
LOC100241338	1.2336	12.4064	5.32696
LOC104880135	1.16133	5.12103	3.90247
LOC100263380	3.3175	0.790006	0.210989
LOC104880670	1.30413	1.9338	5.356
LOC100251075,LOC104880264,LOC104880266	3.20265	3.85286	18.3448
LOC100852829	1.20567	1.41081	0.203826
LOC100259604	9.99562	6.21603	2.12
LOC100251213	0.716204	0.375603	4.65128
LOC100855198	0.286335	1.47819	3.06539
LOC100242071	0.451034	3.61625	6.90023
LOC100241971	1.24617	0.301017	4.09925
LOC100260747	39.2553	11.5367	7.12998
LOC100255784	3.45884	11.6548	1.86629
LOC100264403	0.0964649	0	13.413
LOC100257506	0.440747	2.80072	1.59127
LOC100248869	0.642735	0.236109	1.71502
LOC104880450	5.52201	3.42549	13.9982
THI1-2	46.0409	750.797	279.186
LOC104880451	1.59985	0.183666	1.52436
LOC100250414	1.86595	1.14382	0.397396
LOC100248583	11.6824	63.1736	16.903
LOC100267596	0	3.25688	0
LOC104880467	0.524598	1.90222	0.231607
LOC100855171	1.16075	6.22696	7.38626
LOC104880486	13.5933	2.79344	1.52346
LOC100266953	6.40441	15.7728	26.4064
LOC100266966	0.370043	3.70722	0.0691457
CIPK16	57.0904	1.48077	19.3415
LOC100244564	18.956	3.95227	18.5758
LOC100246308	2.04111	16.9597	0.736157
LOC100246406	1.81595	2.7635	11.7068
LOC104880495	2.26421	0.474567	10.0186
LOC104880494	2.23973	0.976315	14.9165
LOC100251456	37.5882	4.01393	8.62249
LOC104880497	21.5159	5.05281	0.694768
LOC100262300	3.599	15.6518	3.66148
LOC100241745	2531.58	735.687	3541.81
LOC100854721	10.8383	7.30905	2.41793
LOC100251443	4.42631	8.86755	1.34357
LOC100254905	10.8851	0.211644	0.149211
LOC100241263,LOC104877336	10.4434	5.03247	2.23484
LOC100246387	2.81743	2.31859	0.360724
LOC100249695	4.12244	10.4458	1.12084
LOC100244546	3.379	37.8931	0.377336

LOC100256656	49.212	87.2853	1.28752
LOC100246382	4.81809	26.1253	0.737746
LOC104880516	1.15147	0	0.252827
LOC100261664	0.964154	1.77046	0
LOC100251427	0.744741	1.72787	0
LOC100254909	2.59188	15.7876	4.76407
LOC100263534	6.26164	16.0302	33.4979
LOC104880529	5.25014	8.00608	0
LOC100268068	2.84775	0.525796	0.246466
LOC104877323	1.83948	0	0.827853
LOC104877439	4.25043	0.178808	0.815401
LOC100267910	5.11047	1.02036	2.58808
LOC100264549	26.2213	4.11374	6.84178
LOC104880535	14.8553	36.9115	5.53301
LOC104880537	0.716304	0.829802	53.7221
LOC100252820	15.8937	59.7248	13.0072
LOC100254557	7.65099	94.258	3.54346
LOC104880583	0	0	1.04337
LOC100242590	0.343888	0	1.39945
LOC100240855	1.79289	1.26379	0.270546
LOC104880591	1.51323	0.383096	0.23087
LOC100264787	0.126143	0.348627	1.79869
LOC104880596	0.0188366	0.166904	1.24354
LOC100241181	2.40939	10.0223	7.14686
LOC100249715	0.508256	2.04164	1.01096
LOC100261794	2.28874	4.10686	0.707565
LOC100257837	9.46189	1.47846	1.421
LOC104880615	5.14407	0	0
LOC104880608	15.3041	0	0
LOC100255934	5.02348	23.2095	8.44084
LOC100266208	12.2821	3.66469	26.2571
LOC100257214	1.13159	0.157407	19.0596
LOC104880453	0.477815	2.3135	0.685273
LOC104880456	6.37691	27.3774	1.99331
LOC100243449	6.07706	5.3576	1.33907
LOC104880473	11.5601	38.8198	4.62531
LOC100246962	0.440847	0.235802	2.62606
LOC100853959	0.603032	0.593569	4.32254
LOC100854252	3.79319	9.70444	1.74733
LOC100241917	24.0114	6.6566	28.8894
LOC100258824	15.5425	56.4647	14.0734
LOC100252186	0.742179	5.70963	0.599502
LOC100260521	591.077	103.714	178.314
LOC100248784	34.3579	50.9959	4.33352
LOC100255569	16.5676	25.5382	2.66437
LOC100267554	6.39749	13.1442	0.886326
LOC100250378	8.59363	5.94532	1.15458

LOC100260643	4.76347	1.03819	1.56903
LOC100243529	27.0439	0.250049	3.07081
LOC100245259	0.269793	0.111388	1.61164
LOC100255564	2.81997	0.96998	0.609457
LOC100253763	1.63981	0	0
LOC104880487	11.1742	2.4956	12.5764
LOC100258410	33.1866	3.25285	1.48304
LOC100241911	2.85293	0.380554	0.402815
LOC100253808	1.21165	4.93252	2.51695
LOC100253669	25.6846	114.651	24.2955
LOC100232932	377.76	109.627	458.576
LOC104880566	0.976133	0	1.4836
LOC100266935	0.725725	16.0224	1.05142
LOC100250720	1.72756	5.589	1.11911
LOC100259563	19.8548	1.62934	6.59235
LOC100256223	37.2964	7.54917	55.6803
LOC100257998	0	0	3.90325
LOC100247733	2.21231	19.6815	35.3252
LOC104880600	1.34496	0.292009	0.82828
LOC100253253,LOC104880595	1.1997	3.53907	0.872826
LOC100247995	2.45057	22.1002	3.36579
LOC100263475	0.352835	1.63027	0.999907
LOC100256692	0.114377	0.0628356	1.63025
LOC104880609	12.3054	2.89478	3.87281
LOC104880620	0.534096	7.7401	1.28305
LOC100244113	4.94268	12.6079	1.71282
LOC100247370	92.155	173.28	0.301132
LOC100245800	4.20573	3.22531	0
LOC100249061	11.4088	22.3697	5.35296
LOC100852952	1.08274	4.64919	1.18232
LOC100262821	0.536313	0.483576	2.8734
LOC100256088	0.66763	2.20214	0.466907
LOC100255989	5.47201	9.5947	1.74857
LOC100268094	20.7042	0.792659	4.64892
LOC100254212	3.69315	79.0839	6.44261
LOC100249186	35.4181	2.84006	3.03325
LOC100257654	4.32368	2.31864	1.06104
LOC100242271	0.663242	1.71313	0.16822
LOC100249162	0	2.61121	0.0509247
LOC100247336	14.6373	21.9174	2.44425
LOC104880652	0.598474	1.40385	4.81791
LOC100252650	45.8765	7.337	36.7515
LOC100245678	7.95363	0.626808	4.75247
SIUP1	55.8871	99.727	12.0611
LOC104880694	0.379152	3.3372	2.84648
LOC100256872	19.9816	5.7559	25.3728
LOC104880720	1.94605	0	0

LOC100262220,LOC100265559	1.24225	0.25778	19.3699
LOC100853727,LOC104880710	1.18641	4.29931	5.67418
LOC100257033	108.185	15.7071	102.348
LOC104877289	66.405	12.7772	35.7548
LOC104880718	0	1.61686	0.537484
LOC100258663	1.52916	7.45084	4.82923
CYP716A15	3.50474	7.08804	60.103
LOC104880763	0	4.81349	4.05256
LOC100267207	0.694132	17.7389	5.02828
LOC104880731	9.91584	1.64428	1.75682
LOC104880790	1.68485	2.24973	0.337534
LOC104880789	0.629379	10.822	0.480682
LOC100259795	0.125452	0.0224176	1.03142
LOC100256460	0	1.29379	0.0890103
LOC100253044	5.02348	151.088	50.4981
LOC100247920	3.42648	65.5884	21.0139
LOC100265066	1.32397	87.6302	25.4987
LOC100251303,LOC100263324	8.61329	175.346	1.41319
LOC100246166	0.806274	31.0362	0.856783
LOC100258257	0.560324	10.7205	0.202849
LOC100854235	0.244729	3.01032	0.136708
LOC100241039	1.06469	0	0.0429441
LOC100244405,LOC100247834	6.41809	21.5496	1.20608
LOC100247315	0.859947	3.68866	5.1282
LOC100267980	36.2622	10.9344	44.1019
LOC100254231	89.9618	82.7522	8.76091
LOC100254165	6.43156	0.231285	0.267219
LOC100252622	48.8076	12.1997	25.7888
LOC100257697	1.04992	0.548905	2.6683
LOC100250940	0.790778	0	3.13954
LOC100250779	6.74753	0.916094	0.644019
LOC100247440	192.918	308.131	2.18477
LOC100254298	2.64149	0.0973442	4.07311
LECY1	35.4823	7.67537	19.8909
LOC100252681	0.178015	0.296299	2.12816
LOC100259328	76.932	10.4878	13.9702
LOC100256064	5.20677	23.6963	2.35608
LOC100259323	31.6051	7.10437	10.2766
LOC100264581	0.634052	0.483823	2.09031
LOC100266350	50.999	19.8538	9.58717
LOC100243875,LOC100254355	53.6001	7.37898	12.8347
LOC100260997	14.9281	13.7573	3.31519
LOC100252531	21.7396	49.1398	2.78197
LOC104880644	1.61838	16.8567	4.47244
LOC100247419	103.167	17.4036	88.8364
LOC104880679	0.342213	3.3441	4.97926
LOC100264475	8.70758	6.41458	0

LOC100855242	10.379	0.898184	10.0189
LOC100243923	12.5305	5.54361	23.8842
LOC100266250	2.32525	6.15489	0.320094
LOC100243980	0.444956	2.44275	0.61983
LOC100242337	12.4747	50.3764	11.6126
LOC100268054	0.397245	1.14602	2.60859
LOC100266398	7.99662	2.05106	1.64427
LOC100268134	305.01	36.4483	12.419
LOC100257854	75.8507	23.9979	193.507
LOC100259059	0.568499	0	2.56966
LOC100248934	1.18416	0.0226838	5.22827
LOC100259160	0	0	1.26408
LOC104880688	44.6911	101.865	2.253
LOC104880696	109.059	70.1232	20.8983
LOC100259191	10.126	43.6263	32.0437
LOC100248333	5.67119	1.39224	2.09384
LOC100250237	8.3928	1.77416	2.20229
LOC100260449	0.169264	0.728913	1.7533
LOC104880723	2.27599	0.0477603	0.487652
LOC104880746	0.532458	3.05495	2.13288
LOC104880752	0.850136	4.23806	2.4601
LOC104880753	1.56014	0.701145	3.15223
LOC100855096	0.995775	4.20145	7.31684
LOC104880755	1.94726	8.66641	5.31378
LOC100240983,LOC100244514	126.54	206.203	15.5608
LOC100242716	0	1.84951	0.216681
LOC104880789	1.78331	15.9804	0.321305
LOC100249647	9.6135	45.8804	18.3437
LOC100244496	10.1404	4.11473	2.23879
LOC100254684	0.16248	0.1102	1.16251
LOC100246152	0.904137	1.82719	0.293434
LOC100264996	21.5589	11.8759	0
LOC100259802	6.79795	9.67123	1.00102
LOC100261619,LOC104880799	1.30728	21.628	0.591226
LOC100256520	1.29065	26.3298	0.693551
LOC100266747	3.61508	28.3924	2.65115
LOC100241119	2.20875	1.50314	8.68248
LOC100256515	104.54	23.0565	41.4351
LOC100262576	6.09714	0.64559	6.18952
LOC100264246	0.253566	0.873227	3.42263
LOC100854169	0.77086	9.83974	2.4329
LOC100267688	1.85892	0.687437	3.49338
LOC104880838	166.376	4.70367	109.008
LOC100267696	48.3845	185.16	208.628
LOC104880834	0	0.766897	1.11511
LOC100243728	3.17724	2.32748	0.432965
LOC100266042	1.09708	4.70404	1.7985

LOC100262504,LOC100267662	32.584	13.1796	4.40445
LOC100254091	0.501849	3.71092	2.53425
LOC100267811	84.3634	14.1323	40.866
LOC100248798	1.83832	4.83108	8.81716
LOC104880820	9.98066	0	0
LOC100267709	247.724	16.8123	3.585
LOC100247528	42.8736	48.6257	4.87026
LOC100260852	45.509	6.33515	38.7723
LOC104880818	1.36268	0.68392	2.95321
LOC100242144	234.182	200.299	11.9341
LOC104880813	2.06286	0.519466	2.48927
LOC100261867	6.11927	0.775538	12.0793
LOC100245484	0.61761	0.165867	10.4479
LOC100256773	2.30121	0	1.64665
LOC100251650	0.815085	0.486922	5.49193
LOC104880890	0	1.29426	0
LOC100263637	13.9263	0.532445	0
LOC104880892	11.2495	1.18343	0.356291
LOC100261952	2.62882	0.768586	4.94768
LOC100248315	0.8481	0.477058	4.02679
LOC100244725	0.174851	0.0993386	1.10098
OMT1	0.844091	4.5041	0.860013
LOC100261846	18.0011	3.19271	9.6268
LOC100246512	0.187285	2.95354	0.795825
LOC100255112	16.1993	188.583	41.3283
LOC100255186	0.113365	1.47258	24.0104
LOC104880901	9.72099	22.6322	1.40111
LOC100252747	24.7648	3.43544	12.7615
LOC100256383	5.46366	6.02366	0.545939
LOC100246003	15.8347	7.20183	0.418693
LOC100256273	2.74783	8.91532	0.865936
LOC100264828	4.01813	30.1308	0.664521
LOC100242538,LOC100252779	2.06922	14.8701	0.529342
LOC100247673	0.553516	2.9629	0.194414
LOC100263064	2.26309	9.57277	1.14335
LOC100240803	2.69699	8.47666	1.96116
LOC100251039	2.9117	5.18119	1.17339
LOC100256196	2.50267	10.3928	1.51539
LOC100261290,LOC100266494	2.75355	16.1402	4.62323
LOC100261380	8.1916	1.98169	5.45772
LOC100247678	19.9569	0.792064	0.316079
LOC100263071	2.14847	0.305386	0.9611
LOC100244934	0.0919536	1.44995	2.50006
LOC100241696	0.11056	3.86231	0.846118
LOC100258706	4.23134	7.55123	19.211
LOC100253830	0.23783	0.254081	2.4691
LOC100265935	35.3818	0.323386	33.6845

LOC100257146	0.21124	1.63672	1.07453
LOC100263415	0.255763	0.461752	1.48482
LOC100241143,LOC104881016	3.89761	7.82835	16.7283
LOC100261789	4.34739	0.311002	5.98635
LOC100249723	1.52316	0.448553	2.08694
LOC100254853	4.9931	9.99873	20.0226
LOC100254961	0.738951	0.502048	3.57464
LOC100260054	0.497566	0.0700822	2.30428
LOC100265260	1.41524	0.370793	2.64755
LOC100246341	1.45064	0	0
LOC100253141	115.136	28.0155	47.9173
LOC100242191	2.56424	12.9872	6.34591
LOC100243910	1.21346	4.53534	0.475362
LOC100853267	2.35413	11.0072	5.54489
LOC100855331	0.513927	4.10578	7.87845
LOC100855331	0.799482	5.83016	8.57283
LOC104881042	18.4838	2.46684	10.2183
LOC104881040	1.10525	0.0951843	8.76942
LOC100250636	0.21997	0.306287	1.16007
LOC100243755	5.31439	1.59806	14.7501
LOC104881028	8.37598	1.77712	4.75229
LOC104881026	11.7631	13.3346	0.266393
LOC100260818	7.25556	3.15096	0.485027
LOC104880857	0.356488	1.69495	0.376972
LOC100259242	8.05479	1.68294	75.2094
GST3	18.3811	1.48779	1.40411
LOC100250574	6.24649	0.520841	3.11161
PSBP1	2083.85	494.211	1758.18
LOC100262536	20.2966	0.396921	0.589007
LOC100267770	16.5782	1.03907	1.22448
LOC100255766	1.71625	6.58187	1.04609
LOC100260760	112.996	28.2426	101.199
LOC104880830	0.802417	1.61463	7.05068
LOC104880829	0	1.72915	9.45915
LOC100266079	1.47231	20.1552	1.57069
LOC100255665	2.49059	0.401187	0.271459
LOC100266164	1.81948	0.344553	0.429358
LOC100259214	12.5182	6.93987	0.506834
LOC100253888	0.427036	1.0127	7.75784
LOC100264432	20.9557	0.648837	39.8624
LOC100257395	3.63208	0.760716	2.87446
LOC100243748	7.68928	18.9129	0.979112
LOC100248895	3.1665	0.261031	0.990335
LOC100253988	34.7883	8.18394	38.2815
LOC100249958	0.472937	3.65086	1.81128
LOC104880864	12.5004	0.35483	7.77017
LOC100249881	92.5853	7.67733	1.48613

LOC100248222	1.12692	0.950938	0.153335
LOC100256762	9.19251	24.8482	6.062
LOC100255020	92.4541	13.732	37.784
LOC100263717	23.3015	46.5256	10.0941
LOC100243092	6.60011	0.287626	1.79104
LOC104880876	1.81936	0	0.0936039
LOC104880877	3.37614	13.5969	12.258
LOC104880899	117.912	10.3367	14.3556
LOC100246598	1.53248	7.02057	2.12348
LOC100243167	0.546424	3.0884	0.237354
LOC100265313	30.2876	49.6924	3.39342
LOC100267196	5.60391	1.7032	1.05854
LOC100256737	1.17872	0.296962	2.67395
LOC100267151	20.3436	17.5253	4.60066
LOC104880910	0.496162	0.189023	2.25639
LOC104880916	0	0	6.97302
LOC100264944	0.853493	0.19235	3.48907
LOC100259620	25.5583	69.5842	11.2164
LOC100249400	0.807585	0.496633	5.30695
LOC100259624	0.881691	0	1.99469
LOC100245876	0.205772	0.212769	2.01644
LOC100853881	3.0253	5.82778	0.698781
LOC100266583	2.79491	37.0746	7.99343
LOC100252786	18.0616	5.58736	2.4841
LOC100254517	2.92638	0.379817	1.87154
LOC104880945	3.76685	0.941886	0.912019
LOC100246878	0.31392	2.56801	0.517727
LOC100267628	2.4481	0.80371	0
LOC100262371	0.825249	3.30886	0.0314943
LOC100250360	2.59218	2.06453	0.409606
LOC100255538	1.76885	2.90855	0.698762
LOC100852631	1.53763	2.49515	0.380987
LOC100265929	0.989932	0.182738	0.18728
LOC100258988	0.319867	0	1.40428
LOC104881018	40.6279	3.98021	4.73553
LOC104880988	0	0	1.36427
LOC100246446	0.570788	0.288703	1.72799
LOC104877322	0.50275	4.03036	0.739329
LOC100249813,LOC100251590	0.673771	5.5831	0.408896
LOC100253218	2.73556	3.60962	0.678376
LOC100246346,LOC100256081	6.4187	3.79007	19.8316
LOC104881052	1.75849	1.5824	38.2538
LOC100855076	3.6276	4.10101	36.9169
LOC100255940,LOC104881076	0.109476	0.531013	5.76566
LOC100855331	0.670013	10.3506	10.1852
LOC100852459	6.78748	3.83047	26.6741
LOC104881068	6.79168	0	0

LOC100855087,LOC104881036,LOC104881063	26.5506	0.477316	11.7059
LOC104881067	0.956444	0.522054	3.39513
LOC104881029	0.955977	5.01737	0.622337
LOC100243669	4.64187	1.57273	0.104628
LOC100267686	7.54644	3.8282	38.1535
LOC100257402	1.88221	0	0.0667175
LOC100253526	11.7762	70.3442	13.3405
LOC100248420	0.561025	2.7087	0.923922
LOC100246707	245.267	341.091	54.9909
LOC100253544	17.0022	2.89527	20.8389
LOC100257059	50.3651	1.14445	1.04219
LOC100246797	38.7058	141.356	15.338
LOC100853941	6.82077	4.67529	0.670335
LOC100244917	116.341	55.5949	250.196
LOC100246693	1.40605	5.39276	1.15651
LOC100263918	1.90242	2.24655	0.541665
LOC100261614	0.231087	0.153072	1.26967
LOC100261486	29.3137	157.269	78.7676
LOC104881141	0.0722995	1.13116	0
LOC104881137	0.130921	2.79054	0.33661
LOC100259872	0.169158	6.43423	0.300827
LOC104881136	2.92659	38.309	1.42822
LOC104881135	0.622677	8.5757	0.307298
LOC104881134	0.306969	3.25256	0.392956
LOC100264982	1.17119	4.39382	1.0742
LOC100265103	34.2245	6.03217	2.50243
LOC100247958	66.6468	29.1902	12.26
LOC100246196	4.33808	18.1945	12.2107
LOC100854685	2.72486	0	0.516747
LOC100244500	3.39384	1.4797	0.807962
LOC100265108	3.64879	0.290297	0
LOC100263355	23.2245	5.90062	3.11808
LOC104881156	2.81063	0.605903	1.00156
LOC100260169	348.547	83.9925	322.8
LOC100855208	7.94994	0.175816	0
LOC100256543	3.21835	0.33258	0.0940722
MLO7	1.81291	1.74222	9.43351
LOC100263275	1054.2	260.04	853.828
LOC100246181,LOC100266758	7.22843	3.72302	62.4668
LOC104881109	0.659316	2.94718	0.881349
LOC100242107	0.535373	0.0391833	2.88943
LOC100854584	0.171878	1.37354	0
LOC100266039	3.76484	0.67158	6.4059
LOC100253963	1.77052	1.29367	0
LOC100241991	2.61545	0.589445	0.111414
LOC100260232	14.2873	1.26193	13.8077
LOC100248168	5.23389	0.468023	0.997641

LOC104881217	0.442391	1.72698	0
LOC100247150	8.53086	25.6954	34.9762
LOC100252264	2.70302	0.331642	0.261797
LOC100262623	3.96826	11.1327	0.415235
LOC100259226	6.60657	1.57493	4.65097
LOC100265310	3.69094	0	0
LOC100855152	0.505628	0.153946	9.3046
LOC100248982	0.544451	0.214462	9.01446
LOC100267771	0.276037	12.955	0.914758
LOC100247224	2.10986	0.590593	3.16076
LOC100244656	1.3157	1.85884	0.392889
LOC100853082	2.92359	0.458247	3.04827
LOC100253197	3.00322	1.50007	7.10315
LOC100243146	0.876628	1.81372	0
LOC100853803	3.05151	16.2978	7.85129
LOC100251598	2.81293	31.6294	12.2491
LOC100246453,LOC100253376	0.861622	7.7407	1.60203
LOC100241325	0.606109	7.18283	1.24798
LOC100241493	11.5265	0.165431	4.938
LOC100256794	3.04756	0.0887637	0.476316
LOC100249903	40.2754	8.53127	39.9831
LOC100256787	7.53181	1.69102	3.46063
LOC100852428	132.492	228.894	27.5969
LOC100853504	25.1294	4.88868	11.7343
LOC100257867	0.899062	2.47363	0.142201
LOC100252934	0.179896	0.3838	1.41667
LOC100261425	0.20039	0.46426	6.22
LOC100266629	1.30735	1.65765	18.3282
LOC104881346	0.730089	1.39475	80.2105
LOC100249452,LOC100264857,LOC100853465	11.0871	6.45004	34.583
LOC104881343	23.2513	12.727	0.769157
LOC100254566	2.65735	6.30412	0.936329
LOC100255226	110.21	46.0538	8.0196
LOC100257064	28.105	49.9287	6.17272
LOC100267220	0.0173015	10.7587	0
LOC100256965	0.4839	7.15723	9.8963
LOC100267216	9.18671	19.144	3.26252
LOC100263817	28.3264	5.89383	7.5639
LOC100241651	198.972	9.71482	113.658
LOC104881086	10.5999	29.0105	2.94162
LOC100258754	39.6023	47.278	10.5095
LOC100854814	5.51764	0.533406	1.02112
LOC104881144	0.227454	0.904942	2.02286
LOC100854071	54.4263	100.126	6.80671
LOC100256404	61.2053	51.097	13.4376
LOC100266698	341.755	2.13909	66.5034
LOC100241084	46.7134	2.71659	36.0552

LOC100246108	1.19659	28.9065	3.62908
LOC100261497	11.7393	1.64422	1.43083
LOC100249533	17.2091	9.6586	3.77635
LOC100242821	13.8347	2.17364	1.1079
LOC100249578	2.34264	1.82354	0.572373
LOC100251340	2.27815	0.39974	0.535778
LOC100253055	0.216293	1.75468	0.61068
LOC100259813	9.76442	1.42137	3.8416
LOC100259822	0.463927	1.05655	0.130209
LOC100266711	8.41139	39.5989	17.1145
LOC100262621	2.10939	0.088399	0
LOC100250575	2.47426	3.57344	13.8127
LOC100255773	28.5749	9.45946	6.14932
LOC100253970	9.04253	1.98479	4.62134
LOC100259107	0.946064	0.107513	1.80193
LOC100264279	5.43995	0.321732	6.97292
LOC100241998	6.10133	68.9968	28.7221
LOC100248872	2.67118	0.952472	0.374575
LOC104881190	4.70558	0	0
LOC100245348	0.654785	6.1797	2.95782
LOC100254093	1.57353	0.803781	0.0977471
LOC104881195	0.321476	8.39496	0.682189
LOC100246459	5.0858	0	2.79332
LOC104881206	0.553231	0	1.28238
LOC104881198	0	0	3.25466
LOC104881207	0	0	1.44063
LOC100260238	71.5838	8.72552	40.4158
LOC100256901	3.88983	0.106895	0.374558
LOC100244619	2.08776	0.210057	0.0712614
LOC100252974	4.72184	0	8.5604
LOC100259102	2.34991	8.89595	12.0151
LOC100241994	0.315183	1.33735	0.548411
LOC100247143	1.85444	0.259352	18.7027
LOC100854575	1.27524	0.248972	0.306102
LOC104881251	2.20704	0.362788	0.619916
LOC100852853,LOC104881237	5.52765	1.17923	1.6806
LOC100854210	3.21627	0.588278	2.6018
LOC100253935,LOC100260928	5.45967	0.201433	0.516502
LOC104881267	0.626813	1.272	3.19401
LOC100267657	3.96561	1.05529	10.03
LOC104881259	0.521198	0.302701	2.51316
LOC100264272	154.603	16.6136	156.064
LOC104881258	0.873995	1.11224	0
LOC100248873	18.5305	78.9756	31.6771
LOC100854267	54.2365	9.16701	0.256014
LOC100241434	0.662316	5.04856	1.23752
LOC100256686	0.331612	2.59744	0.214288

LOC104881300	42.22	35.5814	2.38302
LOC104881295	0	2.12879	0
LOC104881339	2.33574	0.452464	0.178542
LOC100263758	8.34367	0.37579	6.43168
LOC100267144	0.445424	16.6684	0.701785
LOC100257979	1.15542	0.227027	0.474188
LOC100254576	0.967972	0	0.21489
LOC104881306	0.21154	0.566268	1.10176
LOC100259574	18.082	0.821422	0.0501956
LOC100264732	10.0966	18.6192	45.0969
LOC100247598	0.493126	4.43183	0.212046
LOC100244286	90.2552	336.464	9.86603
LOC100261320	0.993144	1.57455	0.338714
LOC100242579	17.9342	1.74919	1.65817
LOC100264808	0.260421	3.83214	0.285032
LOC100256170	3.8902	15.9714	6.63408
LOC100240751	0.804904	0	1.39581
LOC100261443	0.767044	12.5793	1.71171
LOC100244147,LOC100852568,LOC104881450	7.67527	48.2003	15.6838
LOC104881443	4.36174	0.470058	6.14337
LOC104881427	2.59074	0.278881	0.119973
LOC104881428	38.9868	242.18	0
LOC100255573	0.848465	5.81941	0.660293
LOC100262285	1.93966	0.976752	4.53881
LOC100854804	40.5244	13.9452	65.5539
LOC100854639	4.46569	2.05561	9.63339
LOC100267439	3.57596	1.20666	26.7952
LOC104881411	2.52036	0.854553	3.91705
LOC100260476	65.6331	72.7944	13.1826
LOC100245098	0.559981	1.56848	0.230266
LOC100260366	1.6232	6.69234	2.21635
LOC104881521	1.3765	0.57897	16.5589
LOC104881494	0.800566	1.12348	5.36145
LOC104881517	2.09236	1.00147	0.395127
LOC104881513	4.22947	10.4363	0.636207
LOC100240893	2.41073	15.194	1.26707
LOC104881511	2.67234	5.96007	0.717497
LOC100242523	2.96379	13.6403	3.19748
LOC100249700	2.27163	13.3758	1.30608
LOC104881539	0.992828	0	0.327001
LOC104881585	0	1.21854	3.67615
MYBA7	0.681869	4.32365	4.06786
LOC100248383	5.05207	62.0543	17.451
LOC104881548	3.72109	0	1.33419
LOC100246645	3.30195	0.659294	0
LOC100251383	0.199947	0.0852125	1.10518
LOC100854072	141.441	70.909	19.6438

LOC100241191	0.386766	1.60814	1.08667
LOC100263546	0.469571	0.341523	1.42035
LOC100246414	3.20593	14.5811	3.28605
LOC100261743	1.85815	7.85468	0.36214
LOC100263434	0	1.97257	0
LOC104881610	0	2.52773	0.0189996
LOC100248114	72.9992	3.62302	30.764
LOC100244586	45.6115	15.5667	9.66686
LOC100244676	10.3913	6.84556	1.51825
LOC100263492	9.7176	2.02086	4.73055
LOC100249844	2.02813	7.3779	51.2745
LOC100242976	2.21453	17.0496	2.48169
LOC100263446	9.93296	0.421676	0
LOC100253230	0.200373	1.65746	0.971762
LOC100245521	1.17158	11.7976	7.55316
LOC100855333	0.153468	0.9735	0.249472
LOC100855369	0.12443	1.01914	0.52466
LOC100249110	8.07231	0.631555	0.951044
PEL	2.86917	10.6278	1.47928
LOC100245690	0.757664	7.89537	10.5365
LOC100243977	39.5686	5.12096	4.18324
LOC100243933	0.194596	3.82306	0.486391
LOC100852430	1.35014	7.57653	7.79195
LOC100852579,LOC104881666	0.909171	6.18493	9.58744
LOC100249137	825.922	99.3813	662.661
LOC100264470	1.1365	0.238963	0.104467
LOC100264674	5.6775	23.3309	17.6966
LOC100262833	18.8804	4.63509	25.0196
LOC100249226	1.10442	4.43006	1.31309
LOC100244055	1.40436	46.0591	14.3067
LOC100266391	0.375828	43.34	12.9544
LOC104881677	0.149709	29.9535	3.35182
LOC100243965	31.1725	93.0911	2.7053
LOC100261014	5.81188	30.7688	5.30245
LOC100256158	5.56206	10.7375	2.2296
LOC100256076	0.582738	0.176643	2.41941
LOC100254372	23.7711	3.10243	17.1005
LOC100249271	22.1664	35.1936	6.04572
LOC100250998	12.9845	0.890077	8.02915
LOC100254290	2.94558	13.6223	2.57997
LOC100252475	16.7297	82.8801	10.4344
LOC100261075	86.49	6.56131	39.0249
LOC100268024	43.9817	12.3168	51.8237
LOC104881396	0.0708429	6.71526	0.660752
LOC100249324	2.77548	0.869174	0.521763
LOC100258017	33.6028	1.31635	12.9053
LOC100258047	5.11416	0.684766	0

LOC104881378	1.09647	0	0.382664
LOC100247676	1.77234	0.917106	0.189771
LOC100854480,LOC104881462	0.628543	18.0824	1.1462
LOC100253784	0.726164	4.06826	2.63507
LOC100854088	1.32093	4.76336	5.4769
LOC100245278,LOC104881445	1.08864	19.9965	5.18234
LOC100247058	3.36404	0.584701	0.672588
LOC100247065	0.853487	0.458492	2.3043
LOC100241932	1.31191	0.147496	0.348395
LOC100243536	10.7218	166.987	41.6902
LOC100248678	1.17526	92.7101	33.0637
LOC104881433	13.9822	2.52413	22.0199
LOC104881430	1.62351	9.9532	0.60882
LOC100246921,LOC104881424	3.69145	13.6103	3.12827
LOC100243526,LOC100248669	28.8249	17.782	72.4024
LOC100265584	0.651175	0.152931	1.20705
LOC100253509	0.244526	1.96653	0.929315
LOC100267205	0.283731	37.8433	6.16957
LOC104881474	0.808756	0	2.30115
LOC104881473	1.13129	0.132733	2.84011
LOC100246029,LOC104881525,LOC104881527	7.34351	1.4573	69.9907
LOC100263070,LOC104881503	17.4842	17.4353	71.1865
LOC104881519	4.69513	0.273769	0.685493
LOC104881492	0.958951	5.21583	2.21558
LOC104881490	0.65296	2.35201	3.33698
LOC104881510	0	0.246099	2.94443
LOC100263537	15.0146	21.8543	3.42229
LOC100265304	2.34664	5.68605	1.27671
LOC104881536	0	0	2.69757
LOC100251878	8.43471	2.06802	12.4827
LOC104881542	0	0.292358	2.71296
LOC100265534	93.3128	400.513	163.196
LOC100253496	33.1505	71.8656	15.1477
LOC100251783	3.27111	21.9208	10.224
LOC100253584,LOC104881595	1.2025	17.4751	0.806063
LOC100258732	3.02162	2.3221	0.639958
LOC104881562	0.736286	0.616718	3.96465
LOC104881600	0	0.240685	1.084
LOC100241294	0.53576	0.151342	1.13571
LOC100854949	4.87497	72.9726	14.6577
LOC104881611	2.73419	0.350868	1.71061
LOC100852538	0.100888	0	0.917807
LOC104881613	0.213218	5.27989	1.51991
LOC100265244	0.0315743	1.94122	0.197941
LOC100254855	15.4355	102.01	60.5959
VFUL-L	1.05987	3.30829	0.683139
LOC100246444	10.9942	12.3072	1.07672

LOC100855368	3.30855	308.821	0.950486
LOC100253142	14.3651	2.62196	2.61687
LOC100253147	1.9007	8.26279	1.6297
LOC100256653	42.9457	93.5387	18.0435
LOC100259977	1.07418	1.76897	0.238715
LOC104881661	5.18342	0.69683	1.5616
LOC100268167	5.38601	0.0514219	6.89902
LOC100242394	5.91966	1.25658	6.40386
LOC100254180	0.271613	1.18354	0.573539
LOC100853271	1.29633	0.911699	0.174149
LOC100252565	2.59341	0.428412	1.01936
LOC100266380	25.1022	36.0467	5.97045
LOC100261167	66.6443	97.3051	21.415
LOC100256082	0.187918	2.53587	0.275094
LOC104881686	1.01727	2.90357	0.372398
LOC100242238	10.6947	0.321246	0.669326
LOC100255991	12.9435	1.68191	0.169848
LOC100854052	1.6212	0.259115	0.938965
LOC100854089,LOC104881697	0.347328	0.570977	1.84612
LOC100854125	1.13537	0.0363079	0
LOC104881698	0.906849	4.91145	7.09165
LOC100257462	3.12536	0.492083	0.187356
LOC100242017	1.85273	7.56183	0.570213
LOC104881751	0	6.96927	0
LOC100260757	2.14573	6.82177	1.10806
LOC104881723	1.1052	3.62824	10.1972
LOC100247140	0.623719	6.68741	2.33159
LOC104881716	1.47824	0.337858	0.547796
LOC100265532	3.36966	7.81304	25.7849
LOC100250170	1.16619	0.887004	0.160327
LOC100854387	1.93781	4.90945	0.31671
LOC100241453	0.119949	1.33374	0.100968
LOC100257290	3.59527	0.508725	0.84192
LOC100257309	0.132811	30.8945	0.348326
LOC100258927	1.16837	0	0.413794
LOC100265340	1.235	0	0.17068
LOC104881776	0.179708	0	7.26585
LOC100854413	6.23561	0.465584	0.343053
LOC104881836	5.43911	0.331978	0.238813
LOC100261547	0.28894	2.77416	0.530634
LOC100264971	0.575795	16.3882	4.91469
LOC100253104	0.345021	1.14778	0.141616
LOC100254811	0.918021	8.34684	1.27764
LOC104881878	0	37.9073	5.57525
LOC100251335	51019.5	2.1118	3.32577
LOC100255703	1.44978	1.72004	5.88148
LOC100242001	0.970681	6.0497	1.10747

LOC100257393	0.570043	4.61339	0.829404
LOC100264301	0.0634248	0.225054	6.84423
LOC100247268	23.2656	55.4047	10.2326
LOC100252386	33.4687	144.31	24.2922
LOC100262652	0.888649	15.732	0.888555
LOC104881856	16.8192	84.1991	6.48728
LOC104881857,LOC104881858	3.58352	34.0078	2.73544
LOC100262563	10.1805	33.9661	0.176553
LOC100255716	2.37411	7.08189	0.716297
LOC100260763	14.2279	0.463796	0.998745
LOC100243677	44.4065	1.81716	29.8916
LOC104881853	0.815205	0.497474	2.46052
LOC100245524	83.7355	2.34686	10.5153
LOC100260458	38.3579	0.502784	0.204336
LOC100248474	19.8429	1.01774	2.41171
LOC100241611	1.9066	0.172586	0
LOC100852737	0.630005	4.42508	0.864387
LOC104881934	1.6481	0	0
LOC104881933	3.70853	0	0
LOC104881932	1.81215	0	0
LOC100263619	42.3919	101.945	19.8247
LOC100251711	8.58742	46.3748	7.68331
LOC100246456,LOC100267119	0.769212	16.6206	5.9367
LOC100249910	1.10763	3.9556	0.706143
LOC100251716	3.7455	1.46879	0.906915
LOC100258459	8.05832	0.249341	0.182207
LOC100241460	82.2522	206.547	48.0535
LOC104881911	0.0302032	0	5.83233
LOC100253419	2.35223	0.559237	1.39636
LOC100854219	7.9291	12.6479	1.87964
LOC100255094	8.10191	11.88	0.675157
LOC100245433	1.31299	7.81861	0.290307
LOC100248851	15.2856	0.385545	2.92415
LOC104881718	4.57027	0	7.94178
LOC104881717	8.86106	0.738091	27.8387
LOC100258566	0	5.41067	0.946705
LOC100253428	2.7057	0.98711	0.387326
LOC100260317	4.00258	0.246	0.745186
LOC104881752	2.29246	17.5872	9.57183
LOC100253424	4.23731	0.712205	0.230608
LOC104881757	1.38356	0.213766	0
LOC100245933	0.187608	1.23377	3.7599
LOC100256860	0.0253724	1.47603	0.302324
LOC104881778	1.30009	0	0.198229
LOC100251741	0.487031	2.77108	2.54535
LOC100252221	16.8495	0.668011	1.24435
LOC104881844	645.756	0.765001	0.115797

LOC104881842	13.8856	0.20141	0
LOC104881829	0	1.67699	1.64774
LOC104881827	0	0	1.40529
LOC104881825	0.430665	0	1.96359
LOC100256452	1.83905	9.44281	3.61077
LOC100258179	2.41961	35.7287	26.8455
LOC100251342	0.319855	7.84055	2.7584
LOC100249535	0.794296	5.87049	1.06741
LOC104881876	0.0164667	7.57169	0.792358
LOC100242041	9.9595	51.2831	7.00511
LOC100255668	5.37034	1.34905	21.2949
LOC100264407	4.70549	0	0.146402
LOC100242120	0.947496	6.36063	5.83348
LOC100252376	3.32871	0.7351	1.14049
LOC100259121	0.761097	0	3.09039
LOC100267685	0.612706	0	4.29954
LOC100245370	0.183222	0.123317	2.6602
LOC100259039	30.9441	6.12466	92.2537
LOC104881870	2.53512	0	7.56461
LOC100248930	30.4327	55.4586	3.12393
LOC100250535	336.919	11.3308	249.683
LOC104881847	1.4533	7.9068	1.1622
LOC100256846	4.55581	0.97694	2.02712
LOC100255055	4.77224	59.3875	9.74211
LOC100263714	1.29369	0	0
LOC100241458	94.959	98.4062	13.2812
LOC100253410	0.71304	4.21023	0.592918
LOC100249927	2.70809	0.0431037	0.0858185
LOC100258465,LOC100263608	12.8758	0.523407	0.501694
LOC104881946	2.49635	0.879655	0.474303
LOC100243097	34.6824	23.094	197.243
LOC104881941	2.40083	0.386827	0.706812
LOC100261474	20.3711	4.29737	20.7499
LOC100264821	62.3565	12.2557	42.2127
LOC100240884	41.524	7.83288	82.5053
LOC100242527	13.8322	9.0131	1.2291
LOC100244326	0.52466	0.180082	2.14485
LOC104882010	0.216874	0.0861104	7.26374
LOC104881983	2.16392	0.318059	0.749563
LOC104881990	0	1.37101	0.424363
LOC104882036	0	4.25176	1.72425
LOC100256282	5.15159	58.7354	2.79088
LOC100853363	3.85844	20.8091	1.0726
LOC100247763	12.3713	47.9973	3.9949
LOC100242632	12.5454	45.5197	2.48283
LOC100259725,LOC100264915	7.60262	27.8701	2.80201
LOC100254616	28.4552	17.4259	2.6051

LOC100249507	12.4221	53.5883	1.93224
LOC100261260	8.79271	23.8757	0.880219
LOC100252757,LOC100263042	30.9221	75.2541	3.09247
LOC104882076	0.227402	4.28156	3.72036
LOC100249206	0.511017	0.277209	1.5606
LOC100254297,LOC104882087	3.39757	26.323	4.16845
HT4	16.4513	4.01796	11.4895
LOC104882052	6.31915	44.4026	1.44821
LOC100257357	42.7037	0	0
LOC100853317	0.629154	3.99154	0.198351
LOC100257268	1.25698	8.59594	3.82202
LOC100246573	5.20082	1.16656	2.42316
LOC100246778,LOC100854926	8.18633	1.89747	11.9985
LOC100253626	1.60661	0.673007	14.4326
LOC104877413	0.856579	0.622106	7.30439
LOC104882119	2.13836	20.1109	3.97922
LOC100254147	0.550314	0.122098	1.01494
LOC100263570	6.27954	1.59832	17.3641
LOC100249725	2.12602	9.34232	5.92419
LOC100256085	0.22192	3.06074	0.274971
LOC100252397	1.93005	0	0
LOC100262428,LOC104882160	0.0619644	2.85375	0.222525
LOC100267477	0.250856	2.742	0.724083
LOC100241934	0.27295	6.42265	2.5724
LOC100245181	0.177521	0.296012	1.45981
LOC100250301	0.255243	0.482578	6.2707
LOC100264844	0	0.104909	1.16376
LOC100242903	0	0.0881052	1.31654
LOC100253919	2.15046	1.02771	4.78394
LOC100245414	4.57295	0.175961	2.41322
LOC100257448	0.726178	0.0254785	3.53392
LOC100264341	2.41971	0.596297	1.17345
LOC100252463	27.875	2.29908	23.2506
LOC100242214	18.1442	8.79422	50.9941
LOC100261205	6.70501	0	14.9787
LOC100247478,LOC100854849	3.23915	21.8453	2.20806
LOC100254334	30.874	69.5007	14.1317
LOC100252599	254.441	421.205	65.84
LOC104882216	2.48475	5.99661	1.46577
LOC100247310	14.0727	4.65848	0.668135
LOC100250976	1.61108	0.883777	9.7828
LOC100242322	64.0519	6.40198	16.4697
LOC104882182	0.0336784	1.78285	0.212418
LOC100243904	1.91865	0.0265053	0.0942843
LOC104882179	0.411966	3.0265	7.137
LOC100254307	1.0538	2.04489	4.57343
LOC100262816	0.662571	1.34983	4.79265

LOC100247451	1.06366	4.73648	3.21874
LOC100250120	62.1962	15.168	50.2825
LOC100854640	1.64307	1.04213	20.4803
LOC100854577	0.27176	0.759724	2.58763
LOC104882227	0.184912	0.586935	6.78704
LOC100252559,LOC100854759	2.92768	3.77395	32.6306
LOC100854309	1.67682	0.0203986	30.651
LOC100250243,LOC104882236	2.35754	6.66125	17.5901
LOC100854654	1.56635	0.301487	0.617176
LOC100854786	0.223839	0.468378	2.55949
LOC100262350	0.94252	1.21524	9.66738
LOC100245317	3.90565	3.16744	0.548289
LOC100264126	15.5291	3.25641	15.6508
LOC100252202	4.33537	0.61252	1.94479
LOC100252122	3.02016	4.58804	12.6228
LOC100259640	4.4416	14.2385	47.6312
LOC100254521	9.32604	32.4114	44.534
LOC100264872	10.9204	7.65461	1.4551
LOC100246060,LOC100259687,LOC104877432	25.1584	37.2551	142.754
LOC104882063	2.65676	0.532014	2.27525
LOC104882038	1.73427	16.9445	0.677285
LOC100244353,LOC100247649,LOC100259623	80.3868	55.549	17.6109
LOC100261410	4.30013	3.36609	0.42542
LOC100251162	1.66028	1.00529	0.157518
LOC100264804	9.63262	1.96735	1.73847
LOC104882047	18.1371	0.84484	3.72243
LOC100261150,LOC100854021,LOC104882049	3.84647	0.120231	49.6106
LOC100250918	0.191814	0.0997821	23.6682
LOC104882030	2.52802	12.5194	3.49008
LOC100250146	2.60486	11.0618	2.59532
LOC100255225	1.19619	4.80686	2.24544
LOC104882109	0.916272	1.20753	3.67998
LOC100256068,LOC100853967	3.70052	0.229701	0.237618
LOC100244664	0.213544	2.11799	0.985644
LOC100266985	0.365414	0.150978	1.49638
LOC100241305	3.59947	0.452108	2.78677
LOC100254849	1.97188	9.29226	9.7445
LOC100247997	10.357	4.82402	2.21726
LOC100854483	5.94663	12.071	32.8587
LOC100249257	3.1979	2.16863	9.30588
LOC100241724,LOC100264005	8.87234	0.849928	1.38819
CBF4	16.2413	26.3294	0.278124
LOC100853820	0.124884	0.303111	1.72511
LOC100855299	0.164239	0.966935	2.66547
LOC100254045	0.226617	0.745886	3.47566
STS	0.859574	0.821879	4.63422
LOC100263437	0.237056	0.375912	3.04235

LOC100258294	0.200495	0.221566	1.55412
LOC100241164	0.164085	0.294063	2.03932
VINST1	0.0443398	0.387047	1.69665
LOC100259163	0.176845	0.29079	1.00609
LOC100261929	1.54754	0.222689	1.34126
LOC100853300	0.496742	0.173782	1.13585
LOC100256632	52.7333	0.594717	5.9762
LOC100251502,LOC100254969	1.94344	10.6104	2.19785
LOC100853992	5.78491	0.771465	0.890509
LOC100268009	114.111	26.9242	76.672
LOC100242355	0	4.33535	1.1141
LOC100852496	0.244329	2.76758	0.197448
LOC104882218	0	1.8585	0.953644
LOC104882188	1.04885	0.277199	0
LOC100252698	2.03174	1.40687	0.351151
LOC100251796	0.485692	6.20417	0.30256
LOC100248494	1.95073	3.31155	0.55601
LOC100854673	0.59477	0.937324	6.75912
LOC100854608	2.48625	3.38998	10.4189
LOC100251517	0.317954	0.332567	3.55079
LOC100242248	1.80302	2.19843	10.1305
LOC100251011	1.71839	0.798085	4.23045
LOC100262818	1.14307	0.240165	9.33242
LOC100854184	3.13154	2.31632	10.8768
LOC100259612	0.663516	0.0180803	15.4128
LOC104882232	4.16753	5.50252	23.7588
LOC100854552	0.211024	0.684986	3.29317
LOC100245376	1.9798	2.00543	14.0721
LOC100247971	0.0845488	0.564318	1.48639
LOC100243072	0.616337	0.963132	3.19787
LOC100854816	0.982649	3.1611	14.5827
LOC104877309	33.8371	9.26808	2.85415
LOC100248613	1.10199	0.677856	5.78369
LOC104877298	4.69625	6.22026	42.9603
LOC100251999	0.676067	3.01994	4.04678
LOC100253699	0.580476	5.82216	1.5964
LOC100854106	27.1639	110.72	92.0178
LOC100853807	27.4521	23.8211	1.42944
LOC100854833	0	0	1.92207
LOC100247409	21.0757	56.716	11.2588
LOC100252577	10.8943	43.2462	6.66181
LOC100255963	0.914468	1.25577	0.118831
LOC100252457	1.38874	0.537672	3.56895
LOC100244084	5.76532	0.946043	0.225122
LOC100252663	0.716665	3.46152	6.67396
LOC104882358	1.15355	7.49041	2.6718
LOC100264572	372.009	583.5	94.5464

LOC100853765	0.230214	1.06551	0.262782
LOC100264510	1.30526	0.951505	4.13189
LOC100242377,LOC100252619	1.25381	0.263819	1.42413
LOC100247513	2.516	0.122836	0.111265
LOC100254283	16.5665	3.22344	19.3831
LOC100250877	1.0106	1.22033	0.141453
LOC100259372	0.0935245	32.5388	0
LOC100264439	20.3296	21.728	4.58634
LOC100251925	1.22674	0.223895	3.17867
LOC100262082	2.87449	9.8737	18.7583
LOC100265615	0.910748	4.35459	2.16183
LOC104882315	0.566815	2.72981	1.43031
LOC100260496	1.4581	1.08949	5.65161
LOC100248401	0.794559	0.694577	7.62029
LOC100267332	0.895591	12.8655	0.740273
LOC104882309,LOC104882310	21.9265	90.5852	33.6494
LOC100251801	4.78543	2.08088	0.854133
LOC104882305	2.61746	0.962903	0.602973
LOC104882303,LOC104882402,LOC104882403	0.896728	5.16173	2.9217
LOC104882302	7.34742	1.34739	1.03241
LOC104882299	0.133415	9.60636	0
LOC100854641	12.4858	113.688	44.1443
LOC100241707	53.2537	8.83678	2.12672
LOC100243290	0.0251644	1.0486	0.116541
LOC100250205	0.681158	1.91263	10.676
LOC100258771	31.6326	114.655	127.423
LOC100241660	75.449	4.27541	49.1559
LOC100246781	1.0671	0.150384	0.0714518
LOC100251886	0.267509	1.27588	0.203154
LOC104882265	48.1707	0	0
LOC100255885	31.8485	0.428881	0.848503
LOC100246827	42.2231	0	2.38142
LOC100250188	36.0234	0.628123	0.451463
LOC104882423	0	2.29715	0.936928
LOC100259918	0	2.68496	0.0789313
LOC100242813	1.00412	8.15903	3.64147
LOC100240822	0.365726	10.9339	3.75435
LOC100256333	2.81371	11.735	4.1248
LOC100261419,LOC104882445	0.143614	0.352748	6.63158
LOC100254316	1.71878	9.51657	3.26182
LOC100247469	0.612327	0.212084	1.96196
LOC100232957	16.9495	2.24416	2.5684
LOC100250902	12.5484	41.625	8.45261
LOC100259395	46.4259	2.64746	7.72083
LOC104882364	1.40889	0.557818	4.96967
LOC100242429	90.8082	188.994	5.7468
LOC100267867	1.69762	2.08181	0.506157

LOC100259401	1.13294	4.53385	1.54437
LOC100260995	2.40041	12.8435	6.3725
LOC100245709	1.03859	0.130307	2.16418
LOC100250849	4.40627	0.78003	1.11084
LOC100252666	1.84274	0.570484	2.97201
LOC100252482	1.64126	6.66891	3.50248
LOC100242382	11.0655	32.1999	1.65503
LOC100264526	0.548442	10.4641	0.844458
LOC100266459	0.395216	0.102307	4.72962
LOC100245622	5.68314	12.4749	1.97782
LOC100264676	33.4261	5.87827	34.6117
LOC100249139	3.78968	0.308229	1.02579
LOC100267898,LOC104882340	27.4862	2.73666	4.89175
LOC104882339	2.63369	0.233586	0.521813
LOC104882336	0.953526	4.04516	0.427617
LOC100244020,LOC104882335	9.85693	1.79649	17.8705
LOC100257634	1.17139	0.0942085	0.0620036
LOC100262756	1.30016	1.64965	29.7745
LOC100250718	10.2291	2.0339	37.8104
LOC100259516	0.826445	0.517609	12.9896
LOC100254255	0	0	1.56141
LOC100854093	0	5.06082	2.57953
LOC100246789	6.16799	16.7088	2.56536
LOC104882407	3.59159	0.664799	0
LOC100265609	2.21345	1.67032	0.431935
LOC104882313	0.22608	0	1.59767
LOC104877445	0.342279	5.16766	1.57314
LOC104877445	0.261658	8.49483	5.82224
LOC100265518	0.398715	1.79307	0.812848
LOC100243316,LOC100265589	6.26078	1.9214	12.9497
LOC100243281	0.328944	0	2.65024
LOC100248406	10.0178	1.85941	11.0461
LOC100255230	4.49335	0.524703	3.86397
LOC100260306	3.67664	0.0725692	0.17589
LOC100251811	12.3465	2.55424	2.19141
LOC100262201	0.927496	0.145006	4.09857
LOC100253569	9.60108	1.9351	5.06687
LOC100248414	26.3432	264.477	18.0301
LOC100256947	0.6995	5.77331	2.10327
LOC100267218	0.396025	3.67192	0.886543
LOC100253596	1.99535	8.3656	3.55978
LOC100258202	0.654478	0.754839	9.30963
LOC100264734	0.321379	1.86909	1.07213
LOC100247858	56.9493	47.4348	3.23216
LOC100256459	0.150931	2.37831	0
LOC100259814	570.027	178.549	732.432
LOC100252971	6.24458	25.6192	9.02046

LOC100255869	0.650828	2.72343	0.138733
LOC100243654	40.532	95.8727	21.4748
LOC100266142	2.13022	0.358954	0.0872385
LOC100243824	2.08431	5	1.17792
LOC100254126	156.796	268.358	62.279
LOC100266033	8.08926	1.66242	13.0549
LOC100267814	42.043	9.75818	25.4522
LOC100255807	184.144	58.9114	29.7711
FLS1	105.017	252.322	26.1216
LOC100243852	0.617563	6.87113	2.95478
LOC100249002	0	1.01407	0.0700087
LOC100267796	1.04507	3.17234	0.676102
LOC100259038	1.07744	0.116056	0.0803997
LOC100262526	3.79518	1.18235	4.80631
LOC100255713	0.80289	18.9693	0.0969499
LOC100259041	42.0443	320.749	25.3188
LOC100264214	8.78917	25.9418	1.67349
LOC100242154	6.19483	20.7579	0.262619
LOC100247269	1.09468	0	0
LOC100232945	15.3088	0.592329	18.6784
LOC100257440	0.684932	1.29693	3.76054
LOC100255834	0	9.01794	0.0196806
LOC100260903	14.2404	1.20995	0.893868
LOC100266106	1.65047	0	0.038592
LOC100250659	70.527	67.748	3.69501
LOC100257444	187.692	33.3913	57.7425
LOC100257455	1.68852	31.512	3.44997
LOC100852519	2.6915	3.45348	0.778547
LOC100245542	31.2569	1.01488	7.20272
LOC100250666	5.71577	33.675	8.98123
LOC100852809	1.02562	0.668897	0.242341
LOC100267847	1.06901	9.44485	3.63603
LOC100853609	40.1736	8.7874	13.165
LOC100250670	1.49121	10.1133	1.88666
LOC100855129	3.24393	1.10668	86.9628
LOC100257363	20.4614	5.96754	162.554
LOC104882608	1.40668	0.0341853	0.202687
LOC100252330	0.478259	0.116336	6.47513
LOC100245555	1.51366	0.165994	5.11729
LOC100259186	7.19014	4.13087	37.7062
LOC100257464	0.458757	4.59819	0.382266
LOC100245440	5.92196	47.1906	1.77743
LOC100264245	2.85804	14.0763	2.54602
LOC100232856	37.7259	34.9247	3.55207
LOC104882553	7.35265	44.503	12.3836
LOC100252348	2.26072	0.414251	1.43742
LOC100253967	23.7362	2.57564	3.31423

LOC100243742	128.519	17.2854	18.0841
LOC100267792	9.03562	0.173798	0
LOC100245479	16.2917	0.554033	0.0622616
LOC100264374	13.7914	0.723485	0.20295
LOC100245451	27.6585	2.13689	4.54127
LOC100259232	101.054	3.00077	0.250004
LOC100245483	24.0277	13.1633	89.1433
LOC100259201	12.7761	6.27114	32.2437
LOC104882624	0	2.20026	5.02776
LOC100247883	0.205802	0.583935	1.57022
LOC100265028	40.4243	6.12116	40.3088
LOC104882627	7.42669	1.34844	4.668
LOC104882634	0.105375	0	1.03124
LOC100266519	19.0336	0.263311	0.149197
LOC104882657	2.02726	0.083866	0
LOC104882647	2.07772	0	0.257216
LOC100855105	0.606106	56.7607	62.1241
LOC100246007,LOC100256305	0.989757	9.70901	0.473085
LOC100261402	0.105105	5.18337	0.371935
LOC100259650	0.516923	22.0422	7.01007
LOC100248240	1.17711	0.15725	0.82351
LOC104882792	1.82282	7.8902	3.54932
LOC104882765	17.9335	4.2306	9.92991
LOC100263202	2.33962	3.50236	0.677273
LOC100259577	35.811	0.571782	0.0551456
LOC104882755	18.6077	4.40921	21.3478
LOC104882756	1.26276	0.876225	4.7048
LOC100249918	20.0252	0.182875	0.0424782
LOC104882753	4.6351	8.78836	21.8468
LOC100244789	53.359	7.7133	33.2741
LOC104882742	0.789407	2.21277	7.14719
LOC100267062	2.39676	3.26127	0.200808
LOC104882774	2.62955	14.1942	0.438541
LOC104882737	4.25212	20.8524	0
LOC100241404,LOC100261990,LOC104877463	34.6852	3.84854	3.34476
LOC100232974	2.84407	0.631487	3.05478
LOC100261993	0.600636	2.47368	5.5236
LOC100249990	0.445701	3.7785	0.210009
LOC100263585	9.36932	15.4461	1.51597
LOC104877465	10.6853	0	0.170556
LOC100240987	38.6191	31.1165	3.3227
LOC100246080	14.3855	1.14195	9.64535
LOC100251307	23.1521	69.1165	15.7485
LOC100264998	2.47197	0.0284438	0
LOC100258191	4.3035	0.413263	0.118863
LOC100244516	702.53	75.3159	528.307
LOC100261556	0.234027	0.0249626	2.76056

LOC100244431	3.94497	0.208561	57.5892
LOC100252239	3.25606	1.15052	188.716
LOC100250509	235.396	55.7212	215.995
LOC100253953	1.11565	4.70171	4.00008
LOC104882455	5.86489	0.719788	3.9409
LOC100262541	121.806	18.5944	20.1983
LOC100267702	0.403777	1.68528	0.999896
LOC100262500	3.4504	8.01243	14.6009
LOC100252247,LOC100259095	12.4852	18.3787	2.94875
LOC100253886	13.9926	22.7798	77.4669
NDHM	56.7551	13.5833	32.0121
LOC100255774	0.290604	1.55767	0.396458
LOC100247245	114.134	21.9086	114.032
LOC100264284	2.89572	1.02549	5.97767
LOC100242002	2.7957	0	0
LOC100267819	60.442	25.8234	2.87892
LOC104882590	1.41981	0	0
LOC100264320	130.464	34.3606	153.557
LOC100265988	8.1221	11.4574	34.0631
LOC100243675	0.0162382	0.161171	1.76055
LOC100245494	2.71966	17.6562	2.88977
LOC100245527	82.1746	145.726	16.9021
LOC100259159	5.57085	20.1107	4.49633
LOC100247181	1.39613	0.582901	2.40178
LOC100259040	0.253362	2.82206	0.868654
LOC104882515	4.37691	0.52867	1.65272
LOC100243681	39.18	206.9	71.8017
LOC100257558	104.234	23.2232	53.9414
LOC100248932	1.91821	5.04737	1.23011
LOC100254044	17.4971	2.77535	4.10692
LOC100254056	7.15348	27.1568	5.71019
LOC100255742	14.9806	6.0554	1.83076
LOC100248852	0.902212	4.34918	0.430441
LOC100264365	75.9363	6.28207	64.6368
LOC100255862	3.26092	7.83591	1.04006
LOC100266134	2.839	3.65683	0.817512
LOC100852518	0	7.36572	0
LOC100255764	273.828	1115.07	658.35
LOC100255659	0.757779	1.72791	0.281297
LOC100267776	36.5788	117.139	25.1295
LOC100250687,LOC100255866	2.24668	0.224469	17.6444
LOC100260935	4.21893	17.1244	30.8159
LOC100245351	1.27855	7.31337	0
LOC100247221	32.3956	15.8213	78.0257
LOC100266028	23.5037	1.24963	8.12022
LOC104882619	0	1.08574	0
LOC100243642	13.4645	2.87529	6.13147

LOC100249009	20.7657	3.39217	0.267848
LOC100854714	0.477764	0.052979	7.10532
LOC100251262	14.6876	53.2596	3.68219
LOC104882628	0.95318	4.49234	2.74799
LOC100266619	0.4018	6.7108	0.189831
LOC104882660	1.99141	8.85149	4.08494
LOC100267998	0.0584933	0.348142	1.63723
LOC100266412	50.2996	9.97573	46.5033
LOC100253881,LOC104882696	2.46391	7.36892	0.960825
LOC104882688	0.34492	1.72015	19.7955
LOC104882695	0.283539	0.131481	1.26972
LOC100262406	1.63338	0.667271	0.103059
LOC100257198	65.7183	83.6753	14.7661
LOC100247036	1.56869	6.90496	2.07254
LOC104882698	28.112	2.17038	0.181112
LOC100266302	0.438508	4.2479	6.05488
LOC100249129	0.226029	5.00038	2.05226
LOC100259326	2.69458	0	0.0673245
LOC104882732	1.46144	16.0929	7.91552
LOC100251142	0.392945	3.29705	2.50247
LOC100256299	2.36572	46.3137	61.0743
LOC104882731	0	1.34526	0.235729
LOC104882716	7.87411	2.16328	9.00436
LOC100855211	0.844135	7.28787	0.262491
LOC100855175	0.0545792	4.95071	0.0910403
LOC100854974	0.0736844	0.602067	1.24959
LOC104882763	347.661	1.87342	592.691
LOC100249337	0.226492	0.579109	1.9705
LOC104882759	0.998271	0.165929	1.18963
LOC100264754	1.39462	4.50094	7.69297
LOC100249347	2.72706	0.0993685	0.425635
LOC104882785	2.76763	1.15073	0.263824
LOC100853769	1.07275	0.222305	0.101478
LOC100246469	29.9222	19.2992	4.33858
LOC104882750	0.284717	20.4579	3.88799
LOC100251613	23.5916	35.6837	6.11422
LOC100255177	8.71787	2.47165	0.705584
LOC104882746	0	16.2618	0
LOC104882778	0	1.7824	1.07392
LOC100260265	1.65598	0.024204	0.055788
LOC100246577	2.94921	7.56023	0.553029
LOC104877338,LOC104882775	1.08055	1.85165	0.398281
LOC100260274	9.81491	0.0584947	0.0690817
LOC100243063	10.7244	18.5746	0.0615897
LOC104877454	29.334	12.7924	4.03009
LOC100241421	1.6731	0.142157	0.329914
LOC100246457	782.854	185.491	749.777

LOC104877475	0.473142	2.10734	0.952237
LOC100246887,LOC104877480	11.194	2.832	11.4303
LOC100250347	9.40227	3.11648	1.62443
LOC100255526	0.880326	2.96522	5.22643
LOC104877488	3.47689	1.56346	0.561273
LOC100252025	1.01434	0.402729	0
LOC104877492	1.60379	0	0
LOC100262261	1.12019	2.12504	0.210958
LOC100247013	9.75522	29.5048	2.89109
LOC100253740	2.75398	0.227971	2.77936
LOC100267548	6.83122	0.299958	0.0301467
LOC100243603	81.0002	158.299	17.3822
LOC100241893,LOC100264179	2.41506	9.95756	3.64234
LOC100247026	11.9859	1.90103	2.2774
LOC100245140	2.51581	0.727187	3.1965
LOC100854890	9.37849	25.7715	6.09631
LOC100255559	16.7457	4.47646	1.77077
LOC100241764	5.69296	34.1612	10.8797
LOC100855163	4.72525	20.9701	9.21923
LOC100245111	20.5153	2.26541	4.46633
LOC104877563	0	3.16128	4.22373
LOC100243607	106.879	2.63675	5.19818
LOC100248744	0.337422	0.063656	2.48889
LOC100248633	0.791576	1.84863	0
LOC104877523	0.298973	2.05382	0.384606
LOC100243528	4.7888	3.92968	0.410015
LOC104877564	0	16.1099	0.704822
LOC100257297	1.34536	5.85708	1.3599
LOC100260648	0.248812	0.364629	19.4285
LOC100246936	0.846424	0.173694	4.47165
LOC100245158	1.74252	0.291317	1.28201
LOC100260532	0.802364	0.205101	4.03611
LOC100252174	7.09465	1.08453	9.77612
LOC100267572	8.48536	1.27696	9.99688
LOC100255581	0.695943	1.31927	2.99784
LOC104877363	0.760132	0.858401	8.97028
LOC100260654	0.686524	0.219586	1.08204
LOC100265866	0.514385	1.45719	2.5899
LOC100247054	0.0719238	0	1.90196
LOC100267424	27.5827	89.2385	19.4799
LOC100258992	24.3376	5.46295	58.6442
LOC100854699	2.63074	16.9714	2.41288
LOC100232954	5.10542	41.7856	0.807651
LOC100248576	2.78682	1.07792	6.37258
LOC100247069,LOC100260669	3.03819	1.85712	11.2923
LOC100855066	394.296	22.6194	70.8014
LOC100258850	25.4958	11.6511	3.74904

LOC100252001	1.49447	6.75321	0.535812
LOC100257348	4.52489	5.68585	0.523494
LOC100257132	1.42248	2.35585	10.3913
LOC100258895	29.8842	99.4493	21.5757
LOC104877617	1.24569	4.7706	7.15716
LOC104877619	106.435	3.51863	13.3808
LOC104877623	0.355108	1.85933	0.657373
LOC104877633	5.69574	0.383262	0.880578
LOC100260102	1.11637	0	1.32149
LOC100852799	0.53819	0.309358	1.94178
LOC100265592	0.331652	0.0325667	1.33068
LOC100258661	3.48364	0.164988	17.4111
LOC100244996	10.9311	0.943096	1.2957
LOC100257113	7.56838	8.13363	1.24814
LOC100249165	0.861387	1.17755	6.65713
LOC100245600,LOC100250733	11.1789	54.8668	20.5099
NCED1	65.2577	12.3542	1.45767
LOC100245388	21.6926	2.883	11.8235
LOC100262651	88.9052	20.4098	43.923
LOC100264177	48.1891	85.9402	7.53899
LOC100254366	1.45293	0	0.655941
LOC100249095	0.182806	0.794283	1.28918
LOC100254368	8.92866	2.39417	0.957584
LOC100268036	3.79976	2.28677	0.472797
LOC100261089	0.466943	6.08554	0.801945
LOC104877754	0.755471	1.43131	0.189324
LOC100241033,LOC100251285	2.17526	0.0297945	0.0203716
LOC100242693	0.206119	1.07395	0.685761
LOC104877751	0	4.74663	0
LOC104877752	0	8.95238	0.305686
LOC100253035	3.52087	2.11146	0.369593
LOC100246160	2.86671	0.232587	1.16978
LOC100251299	1.25549	0	0
LOC100243362	1.24093	1.56398	7.20118
LOC100248382	8.46385	0.266137	0.317786
LOC104877548	16.4991	3.00727	2.86516
LOC100250342	8.30519	19.921	4.12949
LOC100265805	3.95066	4.81789	0.35175
LOC100250462	7.72109	14.5879	31.9913
LOC100243606	0.464381	1.49181	3.32192
LOC100257253	0.539244	3.68165	0.35281
LOC100252148	0.522545	3.11038	1.12648
LOC100245332	11.3886	51.9036	4.26586
LOC100255434	11.3141	34.0178	6.38981
LOC100255553	0.345591	1.80079	1.39087
LOC100262405	8.07287	0.0872002	40.6626
LOC100255568	6.6979	27.8396	12.7905

LOC100260642	1.36486	7.04013	2.87552
LOC100265853	2.88497	2.29797	0.694741
LOC100258925	0.147611	0.0721701	1.18429
LOC104877575	2.59074	4.21356	13.3433
LOC100262308	3.91177	0.203346	1.0752
LOC100267579	0.430104	2.22527	2.69317
LOC100245275	0.119262	0.857471	1.88861
LOC100260657	0.854001	0.0976573	1.45306
LOC100243545	2.25196	2.44032	22.0671
LOC100247061,LOC100262430	9.86083	5.07838	24.2046
LOC100260545	3.16809	1.43553	9.21722
LOC104877534	0.81597	0.89699	9.9536
LOC100265876	2.50011	0.556314	4.86363
LOC100257265	15.454	42.674	4.56681
LOC104877540	59.8497	0	83.5706
LOC100263996	7.3503	3.92537	1.04212
LOC104877544	0.106655	17.4924	0.95724
LOC100258946	0.565997	3.11236	0.512275
LOC100257229	47.9793	4.77615	64.6089
LOC100262336	0.227651	0.779351	1.21267
LOC100255495	1.20282	2.11453	9.27748
LOC100262461	1.45702	2.49326	0.373748
LOC100245129	0.525834	0.272256	4.06967
LOC100262347	2.71393	7.37338	1.73661
LOC104877601	1.13089	0	0.305901
LOC100260574	5.23074	0.482525	0.188014
LOC100252011	0.414069	0.858035	2.11475
LOC100260095	6.04082	13.8942	26.1076
LOC100254999	4.62377	8.88205	30.87
LOC100249765	23.102	29.6149	104.754
LOC100260085	11.7993	6.57665	40.5005
LOC100257941	21.5543	1.55054	4.67533
LOC100264837	29.035	1.913	2.55426
LOC100853541	27.0183	1.212	5.7276
LOC104877635	0.0832599	0.0251446	2.85753
LOC104877638	1.50033	0.154691	1.32152
LOC100265261	0.909215	0.466175	3.63482
LOC104877680	0	15.4128	0.294487
LOC104877687	3.26888	0.651715	0.259463
LOC100263459	58.549	4.60117	22.8203
LOC100256700	4.33315	19.5256	2.76232
LOC100232878	1.70126	0	0.248513
LOC104877696	3.81603	0.991155	4.52976
LOC104877716	0.936509	0.07861	9.91651
LOC104877739	0.261332	1.74898	0.138489
LOC100248909	2.42869	0.204608	2.23976
LOC104877704	2.24256	0.125784	0.531221

LOC100265976	2.4731	0.124797	0.534251
LOC104877712,LOC104877713	397.98	72.2363	172.334
LOC104877708	1.43218	0.204628	3.47696
LOC100252450	57.9293	15.023	60.9845
LOC100254239	10.5399	0.230295	2.74578
LOC104877768	0.471006	2.20324	2.33802
LOC100259488	0.01878	1.12145	0.122054
LOC100855352	5.86792	7.03029	23.4975
LOC100264678	0.661839	1.27712	0.197247
LOC104877779	1.39279	0	0
LOC100249639	0.411834	0.447782	7.11299
LOC104877773	0.219564	0.268189	2.74102
LOC100261532	0.291484	0.398757	2.08874
LOC100242776	2.24129	18.652	10.0942
LOC100261538	0.122488	1.00175	0.276756
LOC104877794	0.35397	2.05962	0.552877
LOC100262204	29.409	4.90439	38.3387
LOC100241699	3.8241	11.5227	2.86592
LOC100245045	8.24586	0.452789	0.600171
LOC100257104	18.9178	3.99554	8.63575
LOC100247840	133.402	6.16534	53.7817
LOC100253121	4.22648	1.49214	59.005
LOC100246236	9.0175	0.976646	0.750536
LOC100244488	3.84755	0.12091	0.231963
LOC100259871	1.8196	0.0669943	0.687017
LOC100247913,LOC100261528	4.42098	33.611	20.3297
LOC100258169	9.74656	0.799073	2.93042
LOC100253026	51.3778	5.95403	33.8856
LOC100256431	112.68	16.1333	111.266
LOC100232903	28.4586	6.5943	8.43386
LOC100258241	0.640007	0.362728	3.36104
LOC100261507	22.6515	9.21043	1.29907
LOC100242834	39.4679	7.93775	10.0535
LOC100242751	0.375658	2.13493	0.711696
LOC100242765	14.7816	4.50353	20.7433
LOC100246127	0.340197	1.51345	0.170411
LOC100244461	13.6746	70.0127	43.6582
LOC100263272	96.2594	3.97531	10.4889
LOC100247951	0.0919319	3.14758	0
LOC100253072	47.0659	164.397	1.27707
LOC100259834	27.0166	5.97149	40.0786
LOC100265112	58.5739	7.9088	16.4736
LOC100253090	5.51038	0.740756	1.2556
GFH2	21.1737	25.805	117.067
LOC100244464	13.2853	2.92449	11.335
LOC100257513	1.56464	8.84271	4.20611
LOC104882473	1.37851	12.0557	5.05881

LOC100248824,LOC100253917	0.414198	2.23225	2.67455
LOC100260905	4.88868	14.0881	1.67982
LOC104882430	0.427565	1.49349	0.15307
LOC100262694	10.9383	1.75748	0.594985
LOC100255790	16.4804	0.677789	18.8218
LOC100245547	11.7542	0.682577	1.18924
LOC100254114	0.198801	0.0900508	3.99387
LOC100259234	0.210589	2.94143	0
LOC100264277	7.28361	0.0332977	0
LOC104877547	4.43503	26.0719	20.2399
BCH1	28.8014	1.49007	5.94319
LOC100253481	1.74404	7.618	1.86216
LOC104881172	0.635242	3.92568	1.42584
LOC100260321	1.24681	3.02755	5.24738
LOC100265535	4.08305	0.387507	6.1643
LOC104881234	450.526	32.8429	141.183
LOC100253577	43.435	61.5459	3.32049
LOC100266707	3.27922	34.8698	1.09798
LOC100241028	126.006	35.9575	4.02003
LOC100232921	4.55358	0.0758945	1.09229
LOC100246227	16.3559	76.8626	8.64888
LOC100241085	85.1256	194.322	24.9268
LOC100261582	39.3557	5.92047	6.86156
LOC100244525	0.377231	1.04337	1.5305
LOC100265094	1.52949	2.13306	0.496925
LOC104881793	0.591043	3.63895	1.31531
LOC100855232	43.7389	7.40104	33.1078
LOC100249883	8.50249	2.70669	1.31753
LOC100255700	28.523	62.7818	9.64315
LOC100852547	0.29473	1.24563	0.39921
LOC100852585	0.161091	1.67046	0.769123
LOC100262648	0.793231	16.4355	3.97006
LOC104882149	1.93057	3.05224	0.527827
LOC100247246	11.3695	19.1994	60.9274
LOC100262575,LOC100267737	18.9923	4.93304	19.8921
LOC100267676	11.8705	28.967	2.41938
LOC100257457	9.17238	3.27505	17.0349
LOC100262584	6.98085	1.64142	6.13945
LOC100266021	2.21305	0.535488	0.0594404
LOC104882267	2.60663	0.979018	4.19445
LOC100267763	47.9837	3.05373	10.1695
LOC100247257	21.8858	4.5667	23.7434
LOC100854691	0.65713	1.9452	0.374615
LOC104882541	2.68572	0	0.894785
LOC104882797	0.128475	1.50702	0
LOC100243193	0.40363	8.89761	0.0796957
LOC100853472	0	1.43	0.580459

LOC100243166,LOC100252759,LOC100257911	166.701	325.165	34.3579
LOC100263045	4.34954	2.05002	0
LOC104882747	0	0	27.5005
LOC100247760	0.495064	0.246932	1.71198
LOC100258009	1.19491	0.755142	4.42188
LOC100242634	53.7236	7.47423	18.8058
LOC100245972	1.1676	0.274571	0.0389536
LOC104877655	42.2108	2.8417	1.29175
LOC100251100	32.1908	3.5927	28.1357
LOC100252859	19.9047	0.196984	1.16999
LOC104878760	0.0824034	6.28527	0.116589
LOC100262354	2013.94	428.833	2028.43
LOC100265851	21.5973	2.29628	26.4153
LOC100252008	25.0208	2.32031	47.4766
LOC100250384	18.1098	3.03957	10.7435
LOC100246872	16.3599	3.20714	13.5112
LOC100241903	2.03764	0.88789	3.97353
LOC100257186	81.9297	16.2485	45.3449
LOC100243519	1714.8	202.218	212.877
LOC100246920	6.93497	0.341368	0.372212
LOC100241790	5.89665	0.16574	0.131139
LOC100241895	183.552	10.2163	6.47409
LOC100232985	152.938	19.4429	21.3107
LOC100252141	0.313186	0	1.14864
LOC100241879	7.7408	15.916	2.26338
LOC104878764	21.4886	2.77269	17.7958
LOC100852969	3.55765	1.06043	8.46266
LOC100253828	11.583	18.0704	2.19198
LOC104878801	5.07564	1.66376	0.660552
LOC100252012,LOC100264033	73.2561	165.399	4484.4
LOC100241751	3.43139	0.28388	0.0327526
LOC100248616	15.7953	2.68765	0.715505
LOC100247063	0.176281	1.88143	1.90396
LOC100260659	0.224659	9.06866	0.40499
LOC100255589	2.09025	30.1308	12.738
LOC100255489	27.7592	6.44687	16.3539
LOC100252102	1.04803	0.0318708	0
LOC100267575	2.37564	5.13817	0.695622
GT3	6.22718	25.4721	6.3401
LOC100249174	0.999197	2.04986	0.508463
LOC100243866	174.654	3.29849	49.4173
LOC100250741	4.42105	12.9607	1.65882
LOC100854891	19.3385	42.8163	6.111
LOC100258342	0.737167	0.515658	3.42373
LOC100263462	6.50363	2.74055	12.9128
LOC100241185	9.98799	1.53945	9.09847
LOC100244955	6.60404	34.6578	14.0174

LOC100257661	8.59118	2.81359	1.73778
LOC100255590	21.4533	0.201678	0.233811
LOC104878897	192.578	0	0
LOC100264127	6.61082	2.66969	0.612625
LOC104877407	0.55931	0.0726963	3.05528
LOC100245203	0.154416	1.73239	6.68531
LOC100253706	0.679115	0.513898	2.16014
LOC104878920	3.07447	29.7742	13.8507
LOC100255511	1.07662	0.0512753	0.18164
LOC100244413	58.9501	2.74454	18.947
LOC100259788	96.3307	37.4804	2.07888
LOC100242699	0.126031	0.46359	4.7047
LOC100852931	0.0931449	2.56459	0.403549
LOC104878931	2.20712	4.96043	0.268268
LOC100262128	2.18257	9.46083	14.383
LOC100267294	0.200516	0.201084	1.91022
LOC100265746	5.02083	38.232	11.6464
LOC100255572	1.16649	13.554	2.55981
LOC100257242	32.4208	7.23304	16.2472
LOC104878622	0.539326	0.604199	4.63794
LOC100243525	7.15393	3.73212	21.5366
LOC100241748	16.9237	1.69784	8.79024
LOC104878514	11.143	1.69438	7.27456
LOC100260633,LOC104878769	6.40185	12.9282	27.2776
LOC104877365	0.183962	0.108995	1.15232
LOC100262288,LOC104878475	0.516356	0.811406	34.6783
LOC104878206	7.32055	3.08918	1.51159
LOC100258846	0.130537	1.3544	0.304525
LOC100258952	40.048	185.447	8.38727
LOC100248635	9.26028	1.84804	5.81138
LOC100257334	2.15209	0.284212	0.857693
LOC100241765	206.85	39.6382	143.735
LOC100248701	13.8976	2.55291	3.45083
LOC100250304	0.465475	3.73669	0.750489
LOC100853747	18.6049	129.11	50.7524
LOC100853060	6.80221	0	3.42389
LOC100852930	22.098	4.25379	116.96
LOC100265877	3.24543	10.3001	0.533836
LOC104878797	2.86984	0.511334	2.10171
LOC100262425	0.577334	2.16162	2.54326
LOC100265781	15.7898	31.0362	3.98218
LOC100250317	0.419504	1.37316	2.56587
LOC100854716	0.671006	6.15623	2.66063
LOC100245274	25.4518	166.816	57.0709
LOC104878826	1.01951	0.522957	2.32452
LOC100249018	0.13492	0.97297	0.0893842
LOC100252521	163.369	31.4527	40.4365

LOC100254953	5.19757	14.8344	3.60635
LOC100242957	0.387194	3.56367	0
LOC100249805	2.45405	10.1612	8.20226
LOC100258264	35.7037	14.8285	3.53712
LOC100254942	1.27711	1.61535	5.70486
LOC104878821	0.407128	23.726	7.90832
LOC100242950	0.848875	49.0037	14.3292
LOC104878852	1.47019	0.174001	0.575815
LOC100241199	17.8993	1.7768	46.1701
LOC100265128	0	106.348	2.09644
LOC100247990	1.50821	3.55589	45.4816
LOC100253281	1.3729	11.1715	5.16205
LOC104878838	3.33964	0.289568	4.66782
LOC100245063	1.08136	0.0791471	0.156536
LOC100248359	4.68	0.468176	0.160848
LOC104878854	4.65145	26.5251	15.8442
LOC100853701	1.05828	0	0
LOC100242451	583.018	213.357	106.387
LOC100264583	21.2707	40.2158	9.24375
LOC100854587	9.79455	7.00803	1.32656
LOC100245618	96.6836	261.059	21.3858
LOC100247569	9.04253	15.156	2.52125
LOC100254955	0.225025	1.38258	1.30318
LOC104878935	5.3501	0	0
LOC104878949	1.03252	0	5.95478
LOC100260591	2.96857	0.471927	1.35949
LOC100258247	12.7011	1.93115	13.8776
LOC104878956	2.93941	1.24381	8.24305
LOC100266732	14.3995	2.12009	0.0704905
LOC100249571	4.42332	0.265911	0.211643
LOC100246147	2.41699	0.169294	0.301153
LOC104878964	1.49468	2.83727	0.345971
LOC104878930	0.323955	1.36852	0.107147
LOC104878967	0.762443	6.6108	2.30071
LOC104878968	0.269938	2.62689	1.89477
LOC100264558	1.38508	0.276528	0
LOC100250983	2.82491	0.486022	2.46167
LOC100247345	0.858039	9.12592	1.70075
LOC100244081	0.687098	3.86767	4.14353
LOC100247549	60.3544	17.1023	13.2096
LOC100266257	0.541685	1.27412	2.32204
LOC100245594	8.2758	24.5719	41.8685
LOC100266170	686.539	138.654	707.395
LOC100262760	23.8078	38.8551	3.44346
LOC100266387	0.122797	36.9908	3.18877
LOC100254391	1.292	7.9905	2.20732
LOC100244029	0.396942	3.84447	2.0683

LOC100257828	0	4.69196	0.987989
LOC100254294	0.259079	1.06166	0.107759
LOC100245775	0.110339	0.99026	0
LOC100233124	1054.75	272.869	231.645
LOC104879004,LOC104879005	38.5822	3.16162	2.88411
LOC100852625,LOC104879049	52.7658	0.503818	2.05078
LOC100259346	13.4134	0	0
LOC100252668	34.6426	4.07061	105.261
LOC100249127	21.2606	0.490622	67.0619
LOC100243964	2.12426	0.897247	27.8911
LOC100267929,LOC104879010	1.23268	13.0393	9.58286
LOC100249017	0.461434	2.12137	1.42282
LOC100245608	4.75914	40.1284	0.493462
LOC100267884	11.0174	1.85333	7.82638
LOC100266288	17.7148	60.5595	14.1951
LOC100264556	35.1037	145.365	1.33073
LOC100261098	29.1934	85.0925	11.0724
LOC100262394,LOC100855255	1.49699	0.746163	20.9435
LOC100252152	1.86775	0.112775	0.421755
LOC104879083	0.277321	0.0762439	3.64652
LOC100244374	1.5184	3.23522	7.99569
LOC100263252	49.9149	1.67421	30.0565
LOC100243401	76.9798	731.335	606.564
LOC100240846	0.131419	8.54435	0.153782
LOC104879142	1.68923	16.4464	8.29675
LOC100253069	19.1041	0.341338	0.141284
LOC100258123	11.0823	2.80819	2.4113
LOC100249594	1.8685	0.685986	4.34531
LOC100247207,LOC104877277	3.75706	19.1307	5.75491
LOC100232959	72.0076	1.43224	0.461805
LOC100245432	25.0347	8.45775	3.18223
LOC100267863	8.02098	1.2736	12.6845
LOC100852851	976.191	137.186	824.724
LOC104879153	0	1.02503	1.5336
LOC100254111	0.0844252	3.02892	0
LOC100853656	0.11179	0	1.11027
LOC100242046	5.57286	0.89054	2.79829
LOC100267807	0.1293	1.33575	3.18763
LOC100852999	0.0539736	1.40551	0
LOC100260762	19.1894	3.29907	17.4656
LOC100262664	3.82091	26.8319	7.81305
LOC100265977	1.23343	0.0940029	5.60851
LOC100255135	2.55883	0.646552	10.1045
LOC100258522	6.90525	1.76578	8.17123
LOC104879175	0.781279	0.323655	1.6927
LOC100243051	7.14882	0.312653	1.70934
LOC100249991	1.08589	0.108238	0.0779885

LOC100260227	20.1025	47.241	8.94568
LOC104879039	0.15187	0.258862	1.85747
LOC100247400	0.612838	2.66416	2.03549
LOC100254330	0.293185	1.21973	1.14417
LOC100243983	32.3396	33.0481	7.41099
LOC100245734	5.99263	8.05751	1.46847
LOC100268056	2.33973	2.87243	0.491972
LOC104879042	1.70618	0.309908	0.311354
LOC100250941	4.68465	12.7037	0
LOC104879047	0.0422504	8.94463	0
LOC100266306	24.6193	13.0674	5.87863
LOC100259505	4.30594	12.4617	1.81887
LOC100252547	37.8768	3.13729	4.37058
LOC100247435,LOC100252542	4.24892	0.816194	2.29487
LOC100242385	4.30133	26.5496	0.69177
LOC104879007	0.78586	0.591811	4.41116
LOC100255917	0.53454	0.950427	2.61689
LOC100260991	0.30489	1.64372	0.275079
LOC100261242	25.3064	0.808849	0.521702
LOC100250693	0.173571	0.434241	1.01536
LOC100267924	2.82999	0.621961	7.67008
LOC100257754	0.250004	2.22736	0
BIG8.1	5.54484	0.5141	0
LOC100242373	2.10143	4.39037	0.390176
LOC100266177	0.421884	0.598325	4.61057
LOC100264507	294.363	347.671	34.064
LOC100259329	55.9901	8.42103	12.5742
LOC104879028	3.05837	38.596	0.0804923
LOC100854026	69.1103	196.922	1.67494
LOC100254251	6.90482	0.891947	8.68876
LOC104879031	0.152136	0.525996	2.12085
LOC100252630	0.176024	4.86192	0.370884
LOC100255364	0.722659	3.51107	1.77012
LOC104879074	0.623188	3.85689	0.516745
LOC100853090	0	1.62077	0.212702
GST4	2.57603	161.607	53.1522
LOC100242814	46.9637	5.37448	7.97223
LOC100253049	1.66543	0.612481	2.51647
LOC100252964	2.04427	0.467969	1.87512
LOC100251398	8.57807	11.1416	2.43914
LOC100266832	11.2748	0.0431116	0
LOC100246097	3.19797	24.2966	4.90952
LOC100242811	6.86741	2.99791	0.0832491
LOC100253073	2.99031	0.383132	0.0558939
LOC100257611	1.81161	0.174628	0
LOC100253926	52.761	9.92909	9.4962
LOC100250664	0.273787	1.15418	0.121159

LOC100247201	7.30042	0.735367	6.81479
LOC100852825	58.6654	10.4344	63.7373
LOC100252339	0.76548	0.341099	1.41927
LOC100262676	9.42546	1.49196	2.67739
LOC100254123,LOC100264417	3.14704	12.5907	6.79867
LOC100266089	5.97569	0.223373	0.0322661
LOC100267164	0.335324	1.4001	0.501283
LOC100243044	67.8578	138.868	23.3011
LOC100241482	2.39604	0.736839	5.96172
LOC100256778	2.08497	1.67282	0.51344
LOC100253381	79.6482	149.701	4.29666
LOC100261887	2.37606	3.73229	13.06
LOC100256795	0.570747	0.203848	5.52896
LOC100246525	1.80683	1.64689	11.272
LOC104879210	0.13039	4.34806	0.917458
LOC100260215	16.1533	1.54667	13.8175
LOC100263757	2.15272	1.01243	0.422649
LOC100232986	69.0644	5.88237	4.88245
LOC100260200	21.0668	3.76813	13.22
LOC100261865	3.359	0.220249	0.20869
LOC100251646	1.17794	5.47394	1.23604
LOC100258599	3.06731	5.37097	1.19964
LOC100260126,LOC100261862	5.40603	0.102787	25.7245
LOC100249877	3.45767	14.0293	12.3298
LOC100242064	0.161568	0.278683	3.62126
LOC100251122,LOC100261424	2.03546	0	0
LOC100263206	75.4836	10.8334	70.5867
LOC100254448	0.442153	3.03353	0.849573
LOC100259559	1.56994	0	0.76517
LOC100246027	80.1237	2.66958	26.2264
LOC100261307	1.29687	0.406182	0.281536
LOC100263026	0.916474	2.166	4.87904
LOC100240820	0.315444	1.55782	0.834089
LOC100259548	6.56614	1.56936	0.977765
LOC100249318	273.462	36.3059	130.304
LOC100244323	0.623861	0.232421	3.5149
LOC100259685	4.63364	2.46865	12.1659
LOC104879261	4.97785	0.885241	6.40899
LOC100266533	0.515483	2.27574	1.30058
LOC100245936	0.59005	1.71857	0.396997
LOC100247714	23.4233	74.0921	0.781933
LOC100266636	0.533956	2.98633	1.41296
LOC100240949,LOC100246042	6.26604	1.98685	1.15131
LOC104879283	0.154259	1.37967	0.195295
LOC100266490	9.74218	13.5194	3.36225
LOC100240799	1.93863	1.55295	0.196626
LOC100247670	0.246709	0.568893	1.07523

LOC100264824	1.11981	0.790515	0
LOC104879309	67.9548	3.91625	3.08309
LOC100245922	7.61977	1.37326	7.39245
LOC100240829	0.815248	2.10238	0.299598
LOC100251134	1.88968	3.58298	12.2195
LOC100263051	14.3013	15.252	93.4463
LOC100853148	0.299946	0.0382462	1.40801
LOC104879300	0	0	1.36662
LOC100254512	216.712	53.9385	114.923
LOC100261291	31.0032	4.82711	7.59307
LOC100265737	104.159	21.9604	127.241
LOC100252165	54.4448	12.9762	22.1006
LOC104879365	1.26479	0.774562	9.61316
LOC100247011,LOC104877443	0.458028	0.723233	17.0791
LOC104879379	0.789548	0.513729	5.37122
LOC104879362	0.554266	1.19184	5.79184
LOC104879383	4.84414	0.860161	5.13799
LOC100242720	0.145511	0.229331	1.36511
LOC100255642	51.9914	7.90051	5.78704
LOC100260716	5.82013	2.00734	0.516434
LOC100855271	3.37201	1.83413	0.196724
LOC100265923	6.37126	1.19368	0.206777
LOC100243600	3.52561	5.16353	1.18982
LOC100250340	3.81272	0.474848	0.168905
LOC100243487	4.33862	6.19307	1.33335
LOC100248120	1.66986	1.35101	6.78354
LOC100254977	7.09032	1.03696	13.6074
LOC100252474,LOC104879438,LOC104879449	2.98797	4.74188	0.1654
LOC104879450	3.68011	1.33856	0.0999711
LOC104879452	1.2885	0.596443	2.77761
LOC104879484	3.92377	0.166445	0
LOC100252583	1.01338	0	0
LOC104879487	0.0350745	3.10518	3.827
LOC100852873,LOC104879468	0.0265359	1.55729	0.0369628
LOC100852910	0.168316	1.53742	0.312974
LOC100243918	4.56353	1.64671	0.0955714
LOC100261035	6.41557	11.7343	2.63052
LOC100267952	1.48731	0.434331	0
LOC100266359	0.658801	3.35105	0
LOC100249215	1.63007	6.53968	4.04905
LOC104877314	7.39186	3.4135	14.8197
LOC100253295	14.9941	69.1853	7.49598
LOC100246529	46.2629	9.1813	7.93667
LOC100241405	1.49944	0.2803	0.90127
LOC100246514	2.88929	0.0638528	0.345177
LOC100855355	0.103153	6.71625	3.25842
LOC100256873,LOC104879213	0.120164	10.9361	9.10104

LOC100263762	2.52755	0.680807	2.82104
PR10.9	0.248014	0.530753	9.21536
PR10.7	100.72	136.265	443.794
PR10.4	0	0.36944	27.9428
PR10.2	545.446	83.3389	955.696
LOC100244758	0.310211	0.357359	2.34627
PR10.3	8.34004	16.7068	64.6882
LOC100258513	36.3867	81.2451	18.7805
LOC100249978	48.5605	1.99269	7.33204
LOC100244843	1.2756	0.235545	1.85017
LOC100261982	104.832	24.765	20.0773
LOC100248243	1.81468	6.39937	0.806424
LOC100253439	0.760269	1.47112	0.307431
NIN1	49.1588	80.026	15.9013
LOC100248153	7.03238	1.27341	0.168035
LOC100244750	0.290995	1.85429	0.814176
LOC100241949	27.5564	9.36073	1.613
LOC100249856	1.34147	0.334934	0.525388
LOC100854284	0.0954816	3.38586	20.1504
LOC100257958	5.81968	13.2145	1.80098
LOC100853716	0.123061	8.82175	24.0676
LOC100252810	2.2493	0.0847156	0.471473
LOC100259665	4.36525	0.333555	7.87816
LOC100259606	1.84146	0.354544	0.626312
LOC100247690	39.8067	2.17574	21.9191
LOC100263079	78.592	23.7448	107.785
HT5	23.959	7.92417	51.4358
LOC100263185	18.5787	51.5063	0.809978
LOC100266656	0.899678	0.41967	2.27532
LOC100264835	7.74608	0.974524	3.55338
LOC100245945	18.3601	3.27489	11.5383
LOC104879258	1.25674	0.181984	0
LOC100261405	26.8094	146.323	12.0202
LOC104879259	0.743164	6.13942	1.39926
LOC100242476	0.324225	1.45547	0.142374
LOC100259585	0.245087	1.67286	0.215114
LOC100254571	1.09852	11.541	0.796505
LOC100244152	3.0797	15.4214	4.5025
LOC100244302	30.4238	8.49706	37.5348
LOC100249531	3.09836	0.771594	3.92541
LOC100240909	0.757695	1.79195	0
LOC100252896	10.9547	9.90824	1.19173
LOC100242646	12.0365	5.05102	1.92051
LOC100254634	14.028	3.71571	0.980937
LOC100247822	13.2041	1.40703	0.695697
LOC100242457	4.09749	1.20477	0.790174
LOC100258020	0.844792	0	8.98566

LOC100245916	1.05671	3.03916	5.00334
LOC100251128	8.69608	0.885732	2.81394
LOC100852713	2.45216	0.30691	2.5792
LOC104879322	2.21623	0.518256	0.719067
LOC100247669	1.38173	0.339256	0.928939
LOC104879336	11.8173	2.92521	3.22973
LOC104879346	7.65553	1.93297	10.4049
LOC100250370	0.419608	1.36208	0.220161
LOC104879393	3.16057	0.461129	0.866459
LOC100262385	26.384	1.25114	19.6327
LOC100250447	1.39098	0.548288	4.9037
LOC104879358,LOC104879382	3.39619	0.829016	19.2663
LOC104879355,LOC104879357	2.71583	1.57502	7.51119
LOC100232905	10.3058	7.80342	1.83644
LOC100263523	3.88076	20.2941	6.72876
LOC100246287	6.27073	7.28358	0.530732
LOC100258300	0.92408	0.478438	2.68532
LOC100244703	53.2663	0.558182	46.2948
LOC100244617	1.28759	17.3325	5.09629
LOC104879403	0	1.03792	0.362829
LOC100854122	2.86355	0.199016	0.630965
LOC100244599,LOC104879424	2.35222	8.97286	0.560386
LOC104879441	0.588771	0	2.06051
LOC104879437	0.505894	0.215425	6.93833
LOC100246215	0.176563	0	1.45651
LOC104879458	0.701722	3.22747	1.57676
LOC100256145	0.22084	1.21126	0.592919
LOC104879460,LOC104879474,LOC104879477	14.8751	2.46641	4.13527
LOC104879459	5.63602	2.22192	0.639697
LOC100252444	2.17837	0.0177081	0
LOC100241320	1.2008	0.061066	0.0278112
LOC104879465	6.25323	1.04621	1.09033
LOC100244062	0.814842	0.837984	3.53204
LOC100266390	0.906265	2.94239	4.98395
LOC100266390	0.338621	2.49768	0.61691
LOC100257687	0	4.23275	0
LOC100245803	3.08045	0.453608	6.31565
LOC100244031	0.591931	3.08886	0
CHI4D	164.372	30.8331	22.6102
LOC100264726	0.787133	0.69478	5.32
LOC104879495	7.02102	4.59021	47.6682
LOC100254133	2.55333	0.523731	0.691849
LOC100252695	29.6928	4.43231	41.4586
MLO15	32.2755	76.1119	18.4177
LOC100267326	1.06691	3.23809	5.29397
LOC100260393	10.8117	2.52279	3.02953
LOC104879636	1.7339	3.90973	0.784461

LOC100243306	0.314702	0.740401	1.47757
LOC100243308	6.22615	25.633	10.4616
LOC100244918	2.39606	33.2925	9.38752
LOC100263839	1.43683	2.17247	8.31881
LOC100241568	0.873168	2.79894	13.397
LOC100250058	8.65489	0.271143	0.340197
LOC100260297	6.49691	0.607201	2.1354
LOC100250160	4.27592	0.535143	34.2382
LOC100260409	0.701084	0.124503	5.82549
LOC100267338	1.58876	0.0993553	4.77863
LOC100854491	0.551241	0.630815	8.12629
LOC100263963	24.0194	54.5969	12.9477
LOC100241685	34.1829	6.33823	22.5781
LOC100257066	1.86812	13.9503	4.42838
LOC100265633	6.94201	29.5411	17.6012
LOC100253551	0.695918	3.05049	0.115042
LOC100233064	0.489733	0.878202	7.27105
LOC100262213	76.9888	17.9595	69.2043
LOC100854381	0.0369323	1.34708	0.188072
LOC100265533	47.7429	66.9227	7.57263
LOC100853532	16.8782	4.12009	17.8955
LOC100253567	0.446199	10.5107	1.96187
LOC100246732	95.667	19.6702	88.358
LOC100248386	13.7932	16.6324	59.9921
LOC100255251	77.6653	5.42678	1.28785
LOC100258718	12.2474	170.913	20.1653
LOC100250096	30.7496	168.404	121.289
LOC100262025	0.409492	1.62771	2.92217
LOC100262131	4.27688	3.7091	0.442891
LOC100246740	82.5607	84.6544	6.61605
LOC100244990	0.849543	3.72536	1.45266
LOC100265705	0.178663	1.06726	0.569079
LOC100241511	2.61973	43.8204	36.7213
LOC100251984,LOC100262142	3.14973	0.33614	3.0682
LOC100257005	12.6112	20.7217	4.85253
LOC100248379	4.5892	26.0387	17.3674
LOC100853628	0.171725	0.121452	0.994796
LOC100261566	1.14685	4.97509	4.42552
LOC104877370	1.22958	0.61134	5.77618
LOC100853401,LOC104877424	0.60008	0.837469	2.62588
LOC100854978	11.2706	0.0895669	0.498114
LOC100266720	0	20.121	2.51516
LOC100258223	0.13264	1.5633	0.15936
LOC100254753	1.06115	0.274336	0
LOC104877273	8.29727	4.30368	20.8572
LOC100852531	0.972759	0	0.13866
LOC100241335	3.18875	1.48707	8.72814

LOC100244850	9.1253	2.23889	8.10614
LOC100249897	2.46888	1.28156	0.3435
LOC100267088	1.05385	0	0
LOC100244772	8.25901	1.47348	8.04771
LOC100265353	18.1684	0.674711	11.5926
LOC100266673	2.36224	0.329091	0.250481
LOC100262186	5.62706	1.52801	8.33449
LOC100263879	5.66165	9.27151	0.828863
LOC100263868	6.59118	1.13412	0.621993
LOC100255259	21.3594	10.4221	5.14074
LOC104879739	0.727728	1.93161	3.2275
LOC100253485	46.3613	91.2696	4.23611
LOC104879726	8.68629	0.758333	0
LOC100263939	1.78168	3.14911	0.720978
LOC100246689	3.19411	0.568642	2.94325
LOC100245016	1.32126	6.36329	11.5806
LOC104879597	0	1.46195	7.4563
LOC100263831	89.2088	15.4023	67.5384
LOC100250050	0.772775	2.94324	0.539632
LOC100263837	69.2515	20.2325	13.3252
LOC100260408	4.98359	1.08979	2.48649
LOC100244923	45.8606	11.4257	43.4402
LOC104879585	1.38162	0	1.74221
LOC100245035	0.272882	1.26288	0.399746
LOC100253650	14.2646	2.86476	18.2779
LOC100253658	118.84	20.51	5.13016
LOC100248357	4.12413	0.311751	1.46788
LOC100241584	23.2427	5.67315	13.8522
LOC100248374	37.7647	35.4599	0.348367
LOC100267285	24.8309	4.28054	18.9523
LOC100250194	0.811198	5.82347	0.959114
LOC104879535	1.26651	1.7829	0.297585
LOC100241610	245.068	1.37748	1.21581
LOC104879521	2.05902	3.49617	0.454365
LOC100241653,LOC100265673	0.934106	3.57766	0.333977
LOC100854085	0.599461	2.57765	0.972954
LOC100242686	25.2374	19.3551	6.29657
LOC100253092	1.45802	0.100543	0
LOC104879680	10.9325	25.8648	1.86549
LOC104879656	1.4504	0.701987	0.22301
LOC104879650	1.8508	0.735094	3.74065
LOC100256828	18.8111	1.84433	0.876454
LOC100261927	394.56	80.3798	369.493
LOC104879642	1.08928	4.86887	3.03259
LOC100258526	0.787566	0.306224	6.42635
LOC100246636	1.28726	0.882898	3.66151
LOC100261829	31.7897	83.1947	14.2954

LOC100248267	2.46378	0.588074	3.66036
LOC100248292	5.11717	1.27523	35.8801
LOC100254606	0.360499	4.39562	0.553403
LOC100259719	0.355433	1.67254	0.0742906
LOC100246816	0.522129	1.56042	0.306186
TFL1A	0.17161	2.8168	0.385462
LOC100251852	17.6767	22.7319	5.3898
LOC100240970	3.96675	7.42278	0.73946
LOC104879745	0.264103	0.212129	1.2987
LOC100854382	19.143	29.9699	1.43953
LOC100247629	2.8703	2.94781	0.388169
LOC100257884	35.894	6.48389	27.499
LOC100266534	0.591031	2.56488	0.621176
LOC100244310	4.8605	10.1851	2.04475
LOC100263137	0.613666	3.24908	1.34123
LOC104879766	16.9963	97.2996	42.9817
LOC100240854	4.16039	0.316135	5.42717
LOC104879760	6.29299	1.21925	0.335507
LOC100249365	3.95452	41.8172	7.25996
LOC100252749	4.41595	76.3777	12.7439
LOC100241824	0	50.5641	0
LOC100262435	6.12591	1.21788	6.40453
LOC100257320	33.0492	14.6347	60.807
LOC100252208	9.019	33.1451	3.7803
LOC100257315	22.7428	3.06941	1.3847
LOC104879791	3.16041	8.05904	0.908378
LOC100245192	3.20493	15.5581	0.589443
LOC100267577	7.70377	11.1943	1.78525
LOC100250396	13.1545	3.42728	2.22352
LOC100264200	34.597	118.275	7.71946
LOC104879803	1.64145	15.319	3.52908
LOC100255485	2.26094	0.307295	1.05838
LOC100250305	1.86802	0.187966	1.03169
LOC100252171,LOC100257220	0.930693	3.08492	0.677884
LOC100246961	75.2764	168.74	35.1508
LOC100264000	11.7292	2.02847	33.8595
LOC104879809	6.49198	0.587753	1.92085
LOC100246426	1.31759	6.56647	5.11423
LOC100241302	1.97457	0.354944	0.045105
LOC100244642	0.543452	2.35054	0.953694
LOC100244540	0	0.848703	1.61918
LOC100260006	0.383466	0.582434	2.07923
LOC100256669	7.3678	1.52727	4.5997
LOC100261685	1.38957	0.202788	0.301629
LOC104879861	8.18239	1.02814	0.619821
LOC104879829	3.42031	0.573611	1.02499
LOC100252818	0.627011	1.03618	4.50173

LOC100265401	1.91701	0.118357	0.17766
LOC104879835	1.28551	0	0
LOC100853192	7.63455	19.9263	4.25619
LOC104879875	3.36213	0.183142	0.12484
LOC100266575	7.22909	0	0.0245114
LOC100265512	0.482627	0.703151	9.07795
LOC100253540	2.84515	1.46708	7.82037
LOC100263838	0.360429	0.14354	1.73013
LOC100243307	4.14268	0.750407	0.387381
LOC100253417	2.49973	0.349314	0.460314
LOC100855319	0.558567	2.44685	0.878935
LOC100258874	29.1218	99.3058	3.65753
LOC100246286,LOC104879903	4.06402	1.14303	0.366316
LOC100853053	11.183	10.3543	1.96327
LOC104879900	4.01658	4.41408	0.358475
LOC100264286	17.8148	27.9408	5.3976
LOC100244283	11.1052	18.3505	0.9378
LOC100243049	14.7576	3.45687	2.85847
LOC100260285	0.167635	1.72583	0.26537
LOC100242628	21.4633	2.84808	4.30802
LOC100855039	160.585	23.9507	2.439
LOC100242242	49.5462	264.626	201.447
LOC100855250	5.38899	19.524	3.93523
LOC100264675	175.978	11.6852	109.605
LOC100244040	1.47301	0.468462	0
LOC100250944	2.08778	0.255465	1.17235
LOC100259358	11.58	1.7552	4.7549
LOC100254182	0.148659	1.10392	0.0693295
LOC104879942	1.01868	5.6725	0
LOC100242403	0.429377	1.51445	6.40539
LOC100252644	0.41999	2.56776	1.85483
LOC100256122	0.0878048	0.554121	1.16259
LOC100257784	1.10011	6.23966	1.50101
LOC100259314	96.4913	2.05942	51.2246
LOC100264547	0.149999	0.196342	6.10006
LOC100252456	135.684	32.8503	132.748
LOC100259462	7.84028	31.6633	9.39993
LOC100250725	124.352	21.5576	99.8679
LOC104879933	0.83664	4.49254	2.65507
LOC100257796	37.9468	62.8764	11.0032
LOC100261123	135.083	65.9502	10.3028
IFRL3	0.860059	2.28578	12.3211
LOC100264774	0.116814	1.05695	3.60756
LOC100249474	2.02335	4.654	0.173055
LOC100255529	3.4163	1.42934	5.99916
LOC100248634	3.39277	1.80712	10.7884
LOC100244179	3.20218	7.31955	17.2175

LOC100853040	0.321368	26.9811	6.91023
LOC100259570	0.325795	2.13115	0.33665
LOC100264747	0.325762	0.0375904	13.9142
LOC104879781	0.129052	2.45429	0.241781
LOC104879778	44.8293	6.443	26.3664
LOC104879776	6.34867	34.4664	8.52399
LOC100266643	27.4487	0.865284	0.100359
LOC104879766	3.71543	16.2137	13.272
LOC100257206	2.08786	2.08504	0.296962
LOC100253802	19.0869	48.618	1.90609
LOC100265889	3.63274	4.08852	59.0401
LOC100243451	37.8707	5.78266	20.1004
LOC100265859	2.16222	10.0262	3.96523
LOC100260647	4.42565	3.1361	0.642163
LOC100852938	10.0485	38.0723	3.70888
LOC100252066	693.051	49.5842	884.319
LOC100264193	14.6809	3.75631	1.10108
LOC104879846	0.37057	0.262334	1.16472
LOC100251450	6.80671	28.5247	12.9427
LOC100248141	1.0447	0.320328	1.45958
LOC104879827	3.36446	0.126125	0
LOC100256767	0.182645	0	4.47817
LOC100243102	2.63182	0	0
LOC100241465,LOC100263724	11.2754	10.1819	423.321
LOC100251642	0.439047	1.6857	4.82539
LOC104879891	0.529344	0	1.80806
LOC104879882	0	11.179	0
LOC100854123	1.0674	0.6708	0
LOC100256084	8.06204	5.25244	1.40717
LOC100259363	36.012	92.106	2.45646
LOC100245674	2.60478	11.2017	3.76355
LOC100259515	655.23	157.733	418.391
LOC104879923	1.11516	1.86923	0.458844
LOC100261215	8.16947	8.98316	1.818
LOC100257640	0.10474	1.16956	0.0924242
LOC100250831	3.32389	0.709472	0.0904013
LOC100267875	0.750471	2.17934	0.436345
LOC100250895	41.4107	4.34057	41.7829
LOC100256159	2.47784	0.331109	1.93437
LOC100252515	4.53408	0.806595	5.36383
LOC100263050	50.8578	26.8268	3.96534
LOC104879965	1.8705	0.863554	6.07851
LOC100249588,LOC104879975	8.48171	14.3023	1.8568
LOC100249588	1.83847	2.67507	0.473101
LOC100251316	0.183632	0.304999	3.055
LOC104879979,LOC104879980	14.3224	1.37727	2.50793
LOC100265818	18.7925	36.5371	7.04108

LOC100250354	2.12009	7.66494	0.658791
LOC104880026	0	0.99765	2.5257
LOC100263665	1.60119	7.29939	0.345205
LOC100253452	4.02888	7.47098	1.28302
LOC100258515	7.15837	0.345866	1.76312
LOC100854993	6.28538	2.34424	0.447158
LOC100251758	30.0713	5.98565	10.4089
LOC100853498	1.3623	0.337177	0.666217
LOC100260187	0.440093	2.03204	0.548918
LOC104880074	1.36015	3.44605	0.836852
LOC100262021	2.008	9.41836	4.81767
LOC100255006,LOC104880068	9.28071	106.416	15.3624
LOC100256829	2.44224	46.5965	1.89335
LOC104880069	1.82369	7.59159	1.36835
LOC100260104	7.84313	41.0999	10.0094
LOC100255176	0.328728	1.89052	0.430023
LOC100253412	16.0518	1.14409	11.138
LOC100255182	13.1662	2.58359	4.10918
LOC100248323	40.4622	4.07291	2.51778
LOC104880058	0	0.0544109	11.309
LOC104880057	4.07802	1.39305	0.990267
LOC100233062	16.1331	3.4022	8.41937
LOC100854914	8.21379	1.5017	10.9553
LOC100256842	4.44349	1.50991	13.1416
LOC100267121	3.6312	13.2186	0.965619
LOC104880042	5.774	1.31326	3.80579
LOC100249322	2.95378	18.1691	4.99842
LOC100247802	75.065	8.59143	36.6426
LOC100244158,LOC100249316	54.4394	11.2326	40.6409
LOC100252790	16.1087	2.01582	2.44817
LOC100247682	2.0022	8.75932	2.05946
LOC100242547	0.739876	4.92226	1.07138
LOC100264838	1.12188	9.35943	2.80343
LOC100254537	79.1647	174.438	35.9487
LOC100240924	245.89	52.2471	184.596
LOC100247753	18.6737	0.286507	0.201085
LOC100247789	103.648	66.4728	15.1847
LOC104880154	2.1174	0.523622	0.929464
LOC100263016	2.13049	0.451042	0.978716
LOC100266652	20.1202	1.96015	1.34953
LOC100261446	2.30421	13.814	7.52673
LOC100267540	4.91753	20.8335	6.95589
LOC100267549	8.21774	1.95633	4.0355
LOC100267423	0	0.203456	1.59731
LOC100853129	1.01018	12.2973	0.176785
LOC104880131	1.40798	2.48844	0.415111
LOC104880130	1.41503	7.73542	0.61447

LOC100250432	0.590692	3.73645	0
LOC100262356	47.0102	5.09079	28.778
LOC100247068	14.8915	80.0875	49.6907
LOC100263995	7.90585	1.86996	1.09607
AGA	275.831	63.8042	75.2941
LOC100246945	0.912416	4.28908	4.33712
LOC100257236	1.81236	12.3329	4.10915
LOC100241812	0.351415	1.36761	1.86619
LOC100243382	11.6877	8.82536	35.9771
LOC100247929	11.544	6.25617	25.4484
LOC100259819	27.7531	4.16872	3.9152
LOC100266002	7.01585	29.4741	0.282079
LOC100250551	7.52919	25.1199	0.465927
LOC100262692	0.366782	1.54026	1.38742
LOC100255734	141.317	20.3118	87.8054
LOC100259167	43.8671	9.4809	28.5219
LOC100267833,LOC104880027	3.53598	0.992046	12.5913
LOC100249969	0.506972	2.35422	0.686774
LOC100251671	2.22111	1.06455	0.51361
LOC100241389	5.42646	2.1118	1.08187
LOC100255095	203.159	208.575	35.5041
LOC100265504	5.65583	25.2853	11.8047
LOC100258578	0.392162	1.63602	0.608348
LOC100258555	6.47245	8.89018	1.14488
MLO11	3.06809	1.4749	13.507
LOC100255195	1.4897	0.46303	0.315542
LOC100261866	2.46163	0.247967	0
LOC100244805	0.789175	5.42183	0.517317
LOC100249942	0.701381	1.43983	0.308755
LOC100267136	0.371516	3.06607	1.63003
LOC100249962	35.3263	6.637	38.3268
LOC100244361	7.62415	12.9464	1.6135
LOC100245988	24.2875	1.69902	36.8886
LOC100854743	4.35312	1.37355	10.475
LOC100242633	0	1.48282	0.0349882
LOC104880166	1.93763	2.94333	0.186863
LOC100252758	2.66711	0.47423	7.03449
LOC100240776	51.659	11.4425	12.6711
LOC100246012	6.28032	26.8639	10.4234
LOC100264798	0.0869814	3.05183	0.208823
LOC100247748	3.88802	0.587298	2.16109
LOC100251106	4.6033	0.454477	0.310341
LOC100252858	7.94919	17.6169	3.25115
LOC104880161	2.68689	2.56657	0.489052
LOC100263022	0.851846	3.26571	0.759823
LOC100242499	1.40865	0	0
LOC100263063	1.02708	0	0.499385

LOC104880155	7.65856	5.6414	1.01224
LOC100251141	29.2151	0.0636196	14.3672
LOC100252898	0.285956	2.53938	1.33069
LOC100259742	227.559	54.4814	177.487
LOC100245950	0.889636	4.30211	1.68927
LOC100254632	0.974316	0	0
LOC100263055	1.45886	0	0.0904811
LOC100253862	12.4226	4.13488	21.6127
LOC100264066	2.86902	6.70447	1.61107
LOC100248651	4.06639	7.6243	1.83958
LOC100255547	5.04757	39.1378	12.0607
LOC100262373	2.94388	0.315073	3.66657
LOC100253858	194.092	37.9182	92.1729
LOC100247001	0.750025	4.82126	0.182964
LOC100855222	0.30667	2.44824	0.209248
LOC100853096	4.21059	4.70115	0.808329
LOC100241869	1.31112	5.55665	1.17915
LOC100264128	11.4897	124.218	37.1341
LOC100852723	17.2429	3.83232	10.5086
G1	78.3072	105.394	359.72
LOC100255598	8.48701	30.3148	7.09536
LOC100250413	1.12248	7.6223	1.03763
LOC100260578	128.24	27.8832	35.3028
LOC100250331	7.33941	0.113479	1.25272
LOC100243444	15.8005	1.25087	9.16841
LOC100250296	2.03764	0.4081	0
LOC104880107	26.0561	5.76111	4.47921
CHLH	596.762	137.626	628.858
LOC100260694	1.0928	1.38199	9.95633
LOC100245312	4.05573	1.50652	7.46235
LOC100262460	3.25108	0.522552	0.981786
LOC104880196	2.23417	4.40464	0.775765
LOC100254856	2.38206	0.252237	0.293747
LOC100242898	2.78037	7.65172	0.384237
LOC100265188	6.83111	30.9775	1.16997
LOC100261740	0.179603	3.67245	0.438922
LOC100246365	63.7486	14.1158	41.2401
LOC100256554	70.7892	15.6491	37.1033
LOC100246433	1.44165	12.1963	3.13367
LOXO	53.1377	120.914	20.7648
LOC100244649	3.75484	0.889078	0.941105
LOC100855049	0.0373192	0.320802	2.80008
LOC104880215	6.02766	4.50322	1.23526
LOC104880217	7.40312	1.73336	3.09501
LOC100251455	14.933	2.04021	11.0729
LOC100242932	0.108314	0.30951	6.63557
LOC100253270	4.72765	0.456692	5.73281

LOC104877404	21.5759	0	0
LOC100233007	5.8321	24.5419	11.6887
LOC100260016,LOC104880223	12.882	5.73787	67.6056
LOC100251452	1.28457	6.47266	13.8015
LOC104877415	0.645922	0	8.41153
LOC100254916	0.197007	0.146581	5.14525
LOC100248136	2.93102	1.08361	0.215785
LOC100249745	63.4243	3.9624	3.79912
LOC100251538	6.01298	0.958593	1.49014
LOC100855084	1.67241	0.521159	0.397264
LOC100241155	0.321982	5.24376	1.63119
LOC100263507	0.342396	2.00388	0.93215
LOC100267014	0.0123296	0.256929	1.65121
LOC104880259	5.39584	15.0916	3.40804
LOC100261053	22.3171	1.70896	6.22358
LOC100254203	1.56712	7.19837	9.29607
LOC100245669	0.634813	1.15602	2.6847
LOC100854840	0.0800336	0	2.64832
LOC100255171	1.07708	2.51377	101.002
LOC100250015	4.32172	4.42011	51.3704
LOC100242509	2.10796	0.851124	5.11654
LOC100265456	0.219567	0.0715418	10.2302
LOC100264399	1.05827	0.306608	32.8023
LOC100259222	6.24324	3.83045	50.9986
LOC100266984,LOC104880318	20.0769	2.35377	12.3757
LOC100853390	4.9271	0.0941	5.34787
LOC100241212	0.466212	3.51382	1.33455
LOC104880277	10.7898	19.1067	3.32391
LOC100259281	4.1789	30.7356	9.89821
LOC100267836	0	2.48277	0.149616
LOC100257552	1.14293	1.77681	0.0676765
LOC100247196	0.138722	1.23516	1.38781
LOC104880337	0	0.436816	1.09874
LOC100261932,LOC104880348	0.659758	2.49061	4.94855
LOC104880349,LOC104880350	13.7558	6.31963	1.42946
LOC104880338	0	11.3252	5.59319
LOC104880339	0	0.0685695	5.76608
LOC104877381	0	3.53715	5.88537
LOC100258460	0.634545	3.35293	0.711635
LOC104880354	2.5755	0	0
LOC104880365	0.818462	0	1.35161
LOC104880391	1.12613	2.43132	4.82683
LOC100253480	27.7706	80.7769	6.42777
LOC104880396	0.0345771	0.119479	1.66816
LOC104880397	0.586966	0.959411	5.71792
LOC100263845	0.0756043	0.0355788	20.5238
LOC100256964	6.99802	37.2671	4.67774

LOC104880403	0.204799	1.31234	0.454847
LOC104880385	0.464346	4.88921	1.6809
LOC104880387	0.19701	0.0771668	1.95477
LOC100246923,LOC104880447	0.434991	0.434963	3.47504
LOC104880426	33.6093	2.37062	14.3878
LOC100246219	0.563822	0.061803	12.7904
LOC104880440	0	4.46161	0
LOC104880417	0.010367	9.13763	0
LOC100266713	0	9.60225	0
LOC100261598	42.5241	2.56377	39.0232
LOC100265158	1.58905	0.972992	0.186178
LOC104880200	3.29791	0	0
LOC100251477	0.022083	0.286416	1.58088
LOC100265183	3.40891	0.201628	40.4631
LOC100259980	9.78021	0.412777	0.193328
LOC104880212	0.587648	2.93741	1.41332
LOC100248134	21.5305	3.09508	5.4124
LOC104880301	1.30054	0.254431	0.252188
LOC100261679	5.33643	0.850834	6.53529
LOC100251419	1.35625	0.840169	23.4054
LOC100242179	0.918744	2.17599	4.53326
LOC100268133	0.35517	1.45542	0.174062
LOC104880276	4.66306	0	0.631866
LOC104880320	1.63557	0.622753	2.77288
LOC100242170	21.0709	4.21697	3.25187
LOC100264601	13.2745	2.69224	5.14547
LOC104880285	2.86922	78.9732	9.41255
LOC100265292	0.103972	2.61843	0.899538
LOC100251433	0.266234	1.27575	0.869683
LOC100255021	2.3817	1.03511	21.7235
LOC100855170	0.103455	10.3879	10.3606
LOC100250200	174.467	40.6287	56.4801
LOC100265551	0.486051	0.208824	5.18766
LOC100248363	0.634795	0.326047	7.83948
LOC100852567	0.414725	0.138785	10.422
LOC100852491	1.12733	0.485655	20.3347
LOC104880387	1.89995	0.239624	22.1082
LOC100242837	2.70505	2.37235	0
LOC104880440	0	12.6167	0
LOC100253008	4.95845	1.1887	11.6394
LOC100263288	1.09274	0.610292	0
LOC100249623,LOC100259856	11.2858	2.72436	44.0995
LOC100254746	0.532625	0.421827	2.10857
LOC100251248	2.5567	0.301508	1.38974
LOC100263348	1.01171	13.3349	1.24547
LOC100256402	8.31429	2.0318	12.0101
LOC100256501	57.1123	11.741	56.5016

LOC100249107	1.27807	0.549406	3.38383
LOC100254640	74.8337	43.8543	2.79561