

Supplementary Materials

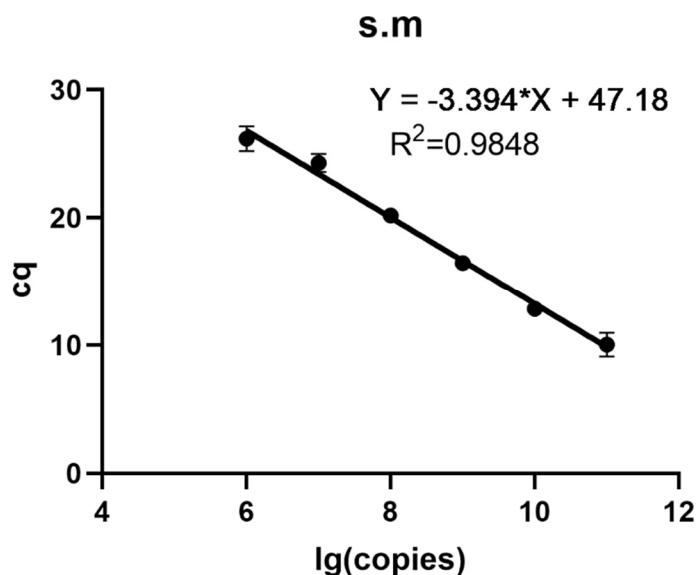


Figure S1. Standard curve of *S. mutans* by RT-Q-PCR

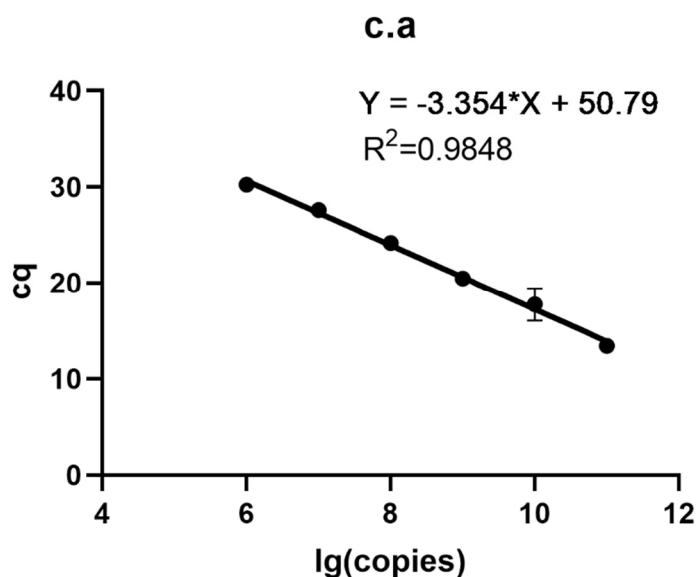


Figure S2. Standard curve of *C. albicans* by RT-Q-PCR

Table S1. Oligonucleotide primer pairs used for qPCR

Genes	Primer sequences	
<i>S. mutans</i>	<i>S. mutans</i> -F	GATAATTGATTGAAAGATGCAAGC

	<i>S. mutans</i> -R	ATTCCTACTGCTGCCTCCC
	<i>C. albicans</i> -F	TTTATCAACTTGTACACCCAGA
<i>C.a</i>	<i>C. albicans</i> -R	ATCCCGCCTTACCACTACCG

Table S2. Differentially metabolite between treat group and control group

Metabolite	Log2FC	P value	Padj.
mannose-6-phosphate	-3.63095453	6.59E-67	9.42E-65
N-acetylputrescine	-2.593982916	2.76E-19	1.97E-17
3-phenyllactic acid	2.039795785	1.07E-17	5.08E-16
diglycerol	1.15040773	1.46E-17	5.21E-16
p-hydroxylphenyllactic acid	3.046934749	6.11E-17	1.75E-15
2-hydroxypentanoic acid	5.286609398	5.90E-12	1.41E-10
beta-gentibiose	-1.747533765	7.25E-10	1.48E-08
lysine	-1.754605151	1.34E-08	2.39E-07
n-acetyl-d-hexosamine	3.443896165	5.97E-07	9.49E-06
sorbitol	3.391851871	1.54E-06	2.20E-05
inositol	3.634116726	3.48E-06	4.52E-05
2-hydroxyglutaric acid	0.886450542	3.96E-06	4.71E-05
adenosine-5-monophosphate	-2.061602146	4.57E-05	0.000502379
xylitol	3.508007941	0.000164197	0.001677151
5-aminovaleric acid	-1.487088627	0.000194563	0.001854838
3-hydroxybutyric acid	2.394861353	0.00029757	0.002659535
ribulose-5-phosphate	2.478947262	0.000336086	0.002827079
1-kestose	-1.128613708	0.000438451	0.003483247
O-acetylserine	-0.53017041	0.00055217	0.004155804
alanine-alanine	-1.6961966	0.000615294	0.004399349
6-deoxyglucitol	2.56397044	0.000721027	0.004909848
phosphogluconic acid	2.806265587	0.00089515	0.005818473
xylulose	2.639000479	0.000983477	0.006014966
guanosine	2.411658511	0.001009505	0.006014966
N-acetylmornithine	-1.056675429	0.001121382	0.006414307

5-methoxytryptamine	-1.309372236	0.001458432	0.008021374
fructose-1,6-bisphosphate	-1.305384148	0.001767298	0.009360131
threitol	1.875859851	0.00207681	0.010606567
lactobionic acid	-0.688634365	0.003339298	0.015528642
ethanol phosphate	0.988226466	0.003549848	0.015528642
z C12 FAME with contaminant ions	1.789258514	0.003633288	0.015528642
hydroxylamine	0.822157018	0.003659074	0.015528642
conduritol-beta-expoxide	2.345880599	0.003701919	0.015528642
quinic acid	0.870886944	0.003718876	0.015528642
tyrosine	-1.180245433	0.003900004	0.015528642
glucose-1-phosphate	2.256903328	0.003909309	0.015528642
isothreonic acid	1.600095845	0.004735079	0.018300439
galactose	2.188747236	0.005375894	0.019751312
noradrenaline	-0.85274271	0.005386721	0.019751312
tagatose	2.462831423	0.005864804	0.020966673
glucose	2.032434918	0.007226247	0.02520374
3-deoxyhexitol	1.582591834	0.007852845	0.026737068
2-monoolein	-0.622863242	0.008263446	0.027480761
lactitol	-0.525283401	0.00854372	0.027767091
glyceric acid	-0.547425843	0.009245714	0.029380825
ribose	2.27286992	0.010584293	0.032903344
melezitose	-1.427150664	0.011148604	0.033920221
lyxitol	1.325156603	0.014544258	0.043329768
fructose	1.496507913	0.015383976	0.044896093
methanolphosphate	1.63107425	0.017210372	0.049221663
3,6-anhydro-D-galactose	2.106427968	0.018101946	0.050756437
trehalose-6-phosphate	0.641840271	0.020488031	0.056342086
putrescine	-1.200474728	0.025137183	0.067822967
4-hydroxybutyric acid	1.350670059	0.025848488	0.068450626
tryptophan	-1.458158533	0.029970216	0.07667514
3-hydroxypropionic acid	1.406304519	0.030026628	0.07667514
1-methylgalactose	-0.760033235	0.031875857	0.079106738
uracil	0.501566188	0.03208525	0.079106738

pinitol	1.251192116	0.036607912	0.088727652
glycerol-alpha-phosphate	0.773508265	0.042230601	0.099263899
1-monopalmitin	0.433376433	0.042343342	0.099263899
digitoxose	1.292527319	0.047815143	0.110283314
ribose-5-phosphate	0.982386442	0.049869812	0.113196557
leucine	1.385944082	0.057339766	0.128118539
butane-2,3-diol	1.56640371	0.061543367	0.134913311
adenosine	-0.696136235	0.062267682	0.134913311
citric acid	-0.584363555	0.063269203	0.135037254
stearic acid	0.432781038	0.07381995	0.155239013
N-methylalanine	0.55183218	0.076143251	0.157804129
fumaric acid	-0.888120786	0.078148051	0.159645305
2-isopropylmalic acid	-0.780508261	0.092856252	0.18702034
ketohexose	2.983546032	0.096707592	0.190582971
UDP-N-acetylglucosamine	0.391814231	0.097290608	0.190582971
lactic acid	1.341608393	0.106363758	0.205540775
adenine	-1.075408379	0.110762509	0.211187184
3-aminoisobutyric acid	0.323429841	0.114545854	0.214087459
lactose	-0.69312291	0.115277862	0.214087459
hexose	-2.052366682	0.130207647	0.238714019
methionine	-0.543241327	0.131989387	0.238917498
ethanolamine	0.970653487	0.137932139	0.246553699
phenylalanine	-0.831039596	0.145137546	0.256092709
phosphoenolpyruvate	-0.583572506	0.147173231	0.256092709
inositol-4-monophosphate	0.468742899	0.148668901	0.256092709
glycolic acid	1.077374842	0.151168036	0.256092709
beta alanine	0.416465433	0.152222939	0.256092709
spermidine	0.985975694	0.167454107	0.278441131
maltitol	-0.429965489	0.192994445	0.314454252
trans-4-hydroxy-L-proline	0.530552022	0.193510309	0.314454252
linoleic acid	0.451635766	0.204321516	0.328291875
beta-glutamic acid	-0.313252021	0.221448287	0.351856723
tranexamic acid	0.63724663	0.247225249	0.38849682

maltotriose	-0.334418142	0.250198383	0.388895312
ornithine	0.726611419	0.274849996	0.422618811
fructose-6-phosphate	0.348208715	0.295773296	0.449952993
threonine	-0.253532537	0.308895258	0.464968651
phosphohexonic acid	0.4293565	0.335268092	0.499409762
palmitoleic acid	0.173402624	0.351363656	0.51798972
isothreitol	-0.412585285	0.376724532	0.545877453
O-succinylhomoserine	0.223677195	0.37791516	0.545877453
valine	-0.576292508	0.403246109	0.576641936
malate	0.387526663	0.414448447	0.586793345
glutamine	0.753596046	0.431486468	0.60387952
5'-deoxy-5'-methylthioadenosine	-0.36719127	0.438848493	0.60387952
z hexose pertms	-0.51696785	0.439185106	0.60387952
hexose-6-phosphate	-0.432065112	0.459234335	0.625433427
4-hydroxyproline	0.375980234	0.48637607	0.650073719
tyrosol	-0.139486257	0.486418797	0.650073719
aspartic acid	-0.48359211	0.494482888	0.653408176
pyrophosphate1	0.516904311	0.498052386	0.653408176
maltotriitol	-0.30527346	0.513564728	0.667634147
isoleucine	-0.314373103	0.518263621	0.667672953
aspartate	-0.1358283	0.531384255	0.678463826
galactinol	0.629496368	0.550001715	0.692886498
galactose-6-phosphate	-0.368718127	0.552371054	0.692886498
L-DOPA	-0.45815655	0.587053478	0.722106328
4-aminobutyric acid	0.432314357	0.591851465	0.722106328
glycerol-3-galactoside	0.187149211	0.592388226	0.722106328
serine	0.28018936	0.595863963	0.722106328
alanine	0.408808482	0.620173235	0.74525019
gamma-aminobutyric acid	-0.319805117	0.631463581	0.752494101
inulotriose	0.471063609	0.661244957	0.781471313
urea	0.513508124	0.667926396	0.782897333
oleic acid	0.14388256	0.707845021	0.822941773
glutathione	-0.202080264	0.725834303	0.83705085

3-phosphoglycerate	-0.096805865	0.744996384	0.848042307
oxoproline	-0.23064639	0.762456357	0.848042307
glucose-6-phosphate	0.132940713	0.767108962	0.848042307
phosphoethanolamine	-0.176871051	0.767707687	0.848042307
1,5-anhydroglucitol	0.141134065	0.769449013	0.848042307
citrulline	-0.158005355	0.770947552	0.848042307
cytidine-5-monophosphate	-0.109373495	0.804120325	0.869807729
isohexonic acid	-0.10196825	0.807473527	0.869807729
asparagine	-0.138682666	0.808982014	0.869807729
trans-4-hydroxyproline	-0.097139266	0.819800682	0.872193552
glutamic acid	0.118220955	0.823399507	0.872193552
homoserine	0.045516291	0.857834243	0.901987476
palmitic acid	0.085997521	0.871835759	0.907690941
allothreonine	0.094676208	0.875953495	0.907690941
succinic acid	0.066211159	0.909721619	0.927965522
methylhexose	0.08102231	0.913421308	0.927965522
glycine	0.08140467	0.914986983	0.927965522
lignoceric acid	-0.009126877	0.990812645	0.996962784
2-methylglyceric acid	-0.001239756	0.996962784	0.996962784

Table S3. KEGG pathway impact analysis of differentially metabolite in *S. mutans*

pathway	P value	$\log_2(P \text{ value})$	Impact
Streptomycin biosynthesis	0.046402	4.429669	0
Amino sugar and nucleotide sugar metabolism	0.058465	4.096283	0.05298
Synthesis and degradation of ketone bodies	0.18525	2.432455	0
Inositol phosphate metabolism	0.21814	2.196674	1
Fructose and mannose metabolism	0.30937	1.692595	0.14583
Butanoate metabolism	0.52605	0.926728	0
Aminoacyl-tRNA biosynthesis	0.5519	0.857521	0

Starch and sucrose metabolism	0.58255	0.779546	0.2807
Glycolysis / Gluconeogenesis	0.69046	0.53437	0
Purine metabolism	0.87694	0.18945	0

Table S4. KEGG pathway impact analysis of differentially metabolite in *C. albicans*

PATHWAY	P value	log ₂ (P value)	Impact
Amino sugar and nucleotide sugar metabolism	0.002228	8.80997	0.14185
Galactose metabolism	0.007312	7.095558	0.4359
Fructose and mannose metabolism	0.045099	4.470761	0.15686
Ubiquinone and other terpenoid-quinone biosynthesis	0.049292	4.342503	0
Pentose and glucuronate interconversions	0.26291	1.927359	0.27273
Lysine degradation	0.31749	1.655217	0
Tyrosine metabolism	0.31749	1.655217	0
Starch and sucrose metabolism	0.31749	1.655217	0.38071
Aminoacyl-tRNA biosynthesis	0.3201	1.643405	0
Lysine biosynthesis	0.33481	1.578585	0
Pentose phosphate pathway	0.36819	1.441478	0
Arginine biosynthesis	0.36819	1.441478	0.12727
Phenylalanine, tyrosine and tryptophan biosynthesis	0.41529	1.267809	0
Inositol phosphate metabolism	0.43023	1.21682	0.11609
Phosphatidylinositol signaling system	0.48643	1.039696	0.04493
Purine metabolism	0.80283	0.316834	0

Table S5. Differentially expressed genes between control group and treat group

gene_id	Gene.Name	Reads (Treat)	Reads (Control)	log2FoldChange	pval	padj
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3634765	YTM1	1654.64146 2	2437.74885 7	-0.55903	2.77E- 06	4.40E- 05
3634767	RAM2	1059.34969 6	1331.14909 4	-0.32949	0.00953	0.04423 5
3634770	HST1	269.793463 4	382.937097 9	-0.50525	0.00399	0.02241 8
3634772	NA	679.101405 3	500.950040 2	0.43896	0.00499	0.02657 7
3634773	CAALFM_C109070W A	5197.69311 8	3678.22139 8	0.49886	0.00118	0.00854 7
3634774	NA	1374.86826 6	675.902993 2	1.0244	3.07E- 09	8.02E- 08
3634778	NA	248.963374 6	169.396075 2	0.55553	0.00648	0.03256 3
3634780	CAALFM_C110140C A	7866.10863 7	3663.20396 3	1.1025	2.12E- 15	1.01E- 13
3634783	CAALFM_C110170W A	1931.95271 7	301.104447 7	2.6817	0.00065	0.00521 4
3634786	NA	1927.92470 4	2779.37479 1	-0.52771	5.09E- 06	7.77E- 05
3634788	NA	2058.67353 3	3333.08968 1	-0.69515	2.33E- 09	6.18E- 08
3634789	CAALFM_C108780W A	6295.25277 6	5145.40680 2	0.29098	0.00642	0.03236 9
3634793	CAALFM_C108820C A	254.504078 9	357.624568 3	-0.49076	0.00657	0.03296 2
3634812	NA	7397.89067 1	3106.95210 7	1.2516	0.00049	0.00415 4
3634814	NA	373.039821 1	514.222085 6	-0.46306	0.00368	0.02090 8
3634824	SHY1	907.274573 2	1251.16553 3	-0.46366	0.00037	0.00327 5
3634826	CRP1	8066.19380 4	14603.0031 9	-0.85631	7.66E- 16	3.81E- 14
3634831	NA	33.2724072 4	8.27909828 5	2.0068	0.00134	0.00948 3
3634838	CBK1	942.957164 1	1209.26145 5	-0.35886	0.00513	0.02718 1
3634840	CAALFM_C110410W A	121.866493 1	326.669086 1	-1.4225	3.09E- 12	1.14E- 10
3634852	FTH1	846.529196 2	1429.1719	-0.75555	1.27E- 07	2.60E- 06
3634857	CAALFM_C109440W A	3556.53204 9	1227.33667 3	1.5349	8.22E- 17	4.35E- 15

3634858	NA		3863.8827	4728.41347 7	-0.2913	0.00921	0.04311 3 2
3634863	CAALFM_C109980C A		1813.32996 4	815.296676 7	1.1532	1.06E- 19	6.66E- 18
3634864	SAC1		1639.58262 9	1202.63642 9	0.44713	0.00032	0.00293 5 6
3634868	DBP3		1814.56084 7	2567.12154 7	-0.50053	1.82E- 05	0.00023 6
3634875	MLS1		151198.443 4	67991.5733 9	1.153	7.24E- 28	6.69E- 26
3634876	NA		90.0100385 4	31.2357001 7	1.5269	0.00603	0.03097 8
3634881	NA		961.833892 8	584.748584 5	0.71797	1.93E- 07	3.85E- 06
3634883	RPA34		359.068004 2	502.070038 3	-0.48363	0.00278	0.01677 8 8
3634892	CAALFM_C109620C A		337.360690 3	526.431224 8	-0.64195	6.89E- 05	0.00075 8
3634901	NA		338.32806	579.221563 3	-0.77569	1.09E- 06	1.89E- 05
3634902	CAALFM_C110280C A		2612.09910 9	1320.54654 5	0.98407	0.00152	0.01051 8 8
3634904	MNN12		2207.29479 9	2808.67794 8	-0.34761	0.00279	0.01678 2 7
3634906	CAALFM_C110310W A		861.358297 1	445.353153 6	0.95166	7.38E- 11	2.28E- 09
3634919	CAALFM_C108840W A		392.899080 1	571.359734 1	-0.54024	0.00558	0.02907 3
3634928	NA		1487.01558	2041.36843 7	-0.45712	0.00014	0.00143 1
3634934	NA		1032.32531	1403.89097 5	-0.44353	0.00040	0.00352 8 3
3634940	NA		1105.43456 1	786.192031	0.49166	0.00021	0.00207 8 9
3634945	AOX2		1939.97644 1	7808.62647 6	-2.009	6.89E- 45	1.19E- 42
3635141	NA		440.622208 7	307.921869 4	0.51698	0.00243	0.01515 5 8
3635147	NA		1669.25253 1	2478.44598 7	-0.57023	1.31E- 06	2.22E- 05
3635152	STP1		2315.93881 3	1248.32563 3	0.8916	2.13E- 13	8.83E- 12
3635172	NA		3334.74006 9	4300.24391 1	-0.36684	0.00116	0.00837 1 6

3635189	CAALFM_C304630W A	3542.44026 7	1980.33060 4	0.839	2.48E- 13	1.01E- 11
3635197	SAP3	497.753380 2	225.301288 9	1.1436	2.91E- 11	9.60E- 10
3635203	CAALFM_C305290C A	503.187459 7	269.165144 7	0.9026	8.98E- 08	1.88E- 06
3635222	FAS2	75788.4119 4	114265.844 5	-0.59235	1.63E- 08	3.78E- 07
3635229	CAALFM_C305160C A	7599.34403 1	10122.6141 4	-0.41364	0.00040	0.00352
3635240	TRY4	4119.52141 7	1868.92069 5	1.1403	2.76E- 23	2.08E- 21
3635241	NA	286.884100 4	185.140853 4	0.63184	0.00110	0.00805
3635255	SEN1	3717.91387	4646.0485	-0.32151	0.00412	0.02288
3635261	TEC1	5120.79497 2	7109.65269 7	-0.47341	0.00427	0.02352
3635265	CDR2	1186.63510 7	1652.23231 9	-0.47754	0.00011	0.00117
3635266	NOP14	1931.51204 8	2494.57730 4	-0.36906	0.00159	0.01091
3635268	CAALFM_C304920C A	4038.17996 3	3169.28558 2	0.34955	0.00179	0.01200
3635269	HGT4	3038.32614	2417.46524	0.32978	0.00374	0.02114
3635271	ARF2	6982.26204 6	5663.22336 6	0.30207	0.00569	0.02950
3635280	SBP1	18935.9931 2	14535.5027 2	0.38155	0.00074	0.00585
3635584	CAALFM_C401760W A	445.093698 2	897.556206 5	-1.0119	4.25E- 11	1.35E- 09
3635587	TIM12	146.334188 6	234.476385 8	-0.68018	0.00127	0.00909
3635593	CAALFM_C401830C A	737.066459 7	539.623311 1	0.44984	0.00163	0.01108
3635594	CAALFM_C401820C A	1496.21383 2	1967.44946 6	-0.39501	0.00110	0.00805
3635595	CAALFM_C401800W A	365.991699 3	87.6170223 1	2.0625	0.00035	0.00314
3635598	ILV6	3344.39250 4	2628.22258 8	0.34766	0.00220	0.01406
3635599	PGA53	1233.84901 2	848.695035 2	0.53985	2.90E- 05	0.00036

3635605	CAALFM_C401300W A	2866.36225 6	3628.54855 5	-0.34017	0.00227	0.01438
3635614	MDN1	16032.8324 4	23001.6819 9	-0.52071	8.80E- 07	1.56E- 05
3635618	NIP1	5119.30503 7	6215.09456 7	-0.27983	0.00985	0.04543
3635623	PWP1	1787.22746 5	2415.44138 7	-0.43456	0.00026	0.00241
3635636	MDH1-1	11818.1472 2	9687.69021 1	0.28678	0.00717	0.03534
3635642	NA	907.522926 7	1178.64415 7	-0.37712	0.00420	0.02324
3635643	NA	200.094727 1	128.647094 6	0.63726	0.00458	0.02485
3635647	HGH1	938.797310 7	1226.85794 4	-0.38608	0.00292	0.01740
3635651	AAT22	1306.09141 7	442.544858 2	1.5614	3.42E- 29	3.34E- 27
3635659	CAT2	23297.4446 4	7920.28674 7	1.5565	4.89E- 47	1.07E- 44
3635661	RGA2	6619.99117 8	5435.61013 6	0.28439	0.00954	0.04423
3635667	CAALFM_C402170C A	1002.77373 3	776.454750 9	0.36902	0.00621	0.03154
3635668	NA	1900.14619 8	1353.79474 8	0.4891	5.72E- 05	0.00064
3635671	CYT2	742.709009 1	945.150718	-0.34775	0.00982	0.04536
3635674	PTC8	1889.63119 8	3208.14426	-0.76363	2.17E- 06	3.55E- 05
3635687	HGT17	21253.9880 1	770.120427	4.7865	#####	#####
3635693	CAALFM_C402230C A	113.962407 5	32.2177735 6	1.8226	5.42E- 08	1.16E- 06
3635694	ZCF25	298.440953 3	151.913771	0.97419	0.00048	0.00407
3635699	CAALFM_C401290W A	3542.94471 2	4367.20054 6	-0.30176	0.00639	0.03224
3635700	CAALFM_C401280C A	1230.76529 2	1719.63608	-0.48255	0.00050	0.00423
3635704	NAT4	167.341106 4	251.316547 7	-0.58671	0.00380	0.02145
3635714	CAALFM_C401560C A	1472.55529 8	1132.22498 8	0.37916	0.00271	0.01643

3635716	ERG251	4159.39336 3	2261.92976 2	0.87882	8.96E- 15	4.08E- 13
3635717	NA	764.031023 2	562.578165 6	0.44158	0.00202 9	0.01327
3635727	ESC4	105.082711 9	54.7255024 9	0.94124	0.00256 5	0.01579 8
3635733	NA	417.240209 6	725.095358 6	-0.79729	5.34E- 06	8.06E- 05
3635742	NA	2370.85179 1	1319.84032 2	0.84504	1.91E- 12	7.16E- 11
3635755	CAALFM_C202410W A	5249.11681 8	4183.78658 3	0.32727	0.00258 1	0.01585 5
3635756	CAALFM_C202420C A	2825.27986 8	3671.51728 6	-0.37798	0.00095 0.00095	0.00714 4
3635757	UTP21	3198.20268 3	4158.56377 4	-0.37882	0.00471 4	0.02543
3635764	SRD1	562.426738 7	307.276232 3	0.87213	5.98E- 08	1.28E- 06
3635770	ARO3	2206.9385	1657.25250 2	0.41325	0.00059 3	0.00481 8
3635775	CAALFM_C202230C A	792.935106 4	93.2020092 2	3.0888	1.67E- 63	4.97E- 61
3635777	OPI1	1125.57727 5	737.164825 7	0.61061	1.21E- 05	0.00016 7
3635781	NA	4892.55210 1	6093.24202 1	-0.31662	0.00308 0.00308	0.01813 5
3635783	NA	913.133833 9	1168.68200 3	-0.35598	0.00629 6	0.03181 9
3635784	COX13	13833.6727 8	11339.7723 7	0.28679	0.00628 6	0.03179 2
3635788	CTF1	2499.00618 7	1828.18933 9	0.45094	0.00013 8	0.00140 6
3635793	CAALFM_C201930C A	894.905918 4	1266.06791	-0.50055	9.40E- 05	0.00100 6
3635804	CAALFM_C201540W A	4982.85829 6	1972.72874 7	1.3368	9.51E- 17	4.95E- 15
3635805	CAALFM_C202270C A	499.978494 3	726.586018 1	-0.53927	0.00018 5	0.00178 8
3635806	NA	1026.87129 3	1307.65492 3	-0.34873	0.00552 5	0.02882 5
3635817	PRS1	2984.65920 6	4065.76403	-0.44596	6.72E- 05	0.00074 4
3635820	CAALFM_C202540W A	5423.86662 4	7623.70088 5	-0.49117	6.08E- 06	9.09E- 05

3635836	CAALFM_C201870C A	1711.04141 5	1253.77182 2	0.4486	0.00032	0.00293 6
3635837	ZCF6	1436.09254 7	1058.61172 3	0.43998	0.00495	0.02642 3
3635843	NA	5348.96964 2	2978.42269 1	0.84471	1.57E- 06	2.62E- 05
3635847	SPT5	2156.51003 3	2834.98390 9	-0.39464	0.00348	0.02003 2 8
3635852	FMO1	2702.16123 1	489.106320 1	2.4659	8.11E- 80	4.09E- 77
3635860	CAALFM_C202580W A	6550.03553 9	10498.2014 9	-0.68057	2.81E- 10	8.15E- 09
3635862	NA	259.757868 5	180.734704	0.52329	0.00870 9	0.04116
3635863	HGT20	178.497498 9	100.385723 8	0.83035	0.00071	0.00569 8 6
3636118	BNI1	2460.17791 4	3158.38883 7	-0.36043	0.00164	0.01111 4 5
3636120	NA	2570.62582 2	3218.71957 3	-0.32437	0.00459	0.02485 2 6
3636123	CAALFM_C113060C A	3375.45495 8	4382.49383	-0.37667	0.00071	0.00569 9 9
3636125	NA	668.615087 4	22.5639472 6	4.8891	2.68E- 35	3.09E- 33
3636132	MET3	22361.0349 3	30088.0394 8	-0.4282	3.76E- 05	0.00044 8
3636141	NA	394.388696 5	527.580205 8	-0.41977	0.00679	0.03391 9 9
3636144	CAALFM_C113270W A	1601.28220 3	986.069227 3	0.69947	0.00013	0.00140 8 6
3636154	NA	561.769685	887.814558	-0.66028	2.66E- 06	4.24E- 05
3636176	CAALFM_C112830C A	2886.80704 5	2069.04213 7	0.48051	3.78E- 05	0.00045
3636179	CAALFM_C112860C A	426.383418 2	615.704940 4	-0.53009	0.00054	0.00451 8 8
3636180	NA	109.235645 9	196.254608 9	-0.84528	0.00034	0.00307 3 6
3636193	OSM2	65959.6408 9	46304.5082	0.51043	0.00529	0.02782 7 2
3636203	TYE7	9053.16364 6	12985.1987 8	-0.52037	1.54E- 05	0.00020 5
3636211	KIS2	4752.72302 7	3629.19244 5	0.38911	0.00045	0.00388 7 4

3636213	CYB2	33287.5633 6	23367.4990 1	0.51048	9.29E- 07	1.64E- 05
3636219	NA	5368.52532 4	3315.89648 3	0.69513	0.00283 5	0.01697
3636225	OFI1	11.3215209 2	48.1584421 9	-2.0887	5.66E- 05	0.00063 6
3636226	NA	5674.08806 2	10023.4631 7	-0.82092	1.35E- 05	0.00018 4
3636228	KNS1	3998.45716 5	2717.35488 4	0.55724	7.45E- 07	1.33E- 05
3636229	HSP70	287192.587 3	152184.621 4	0.9162	9.16E- 07	1.62E- 05
3636393	CAALFM_C504610W A	1507.52365 3	2043.72611 2	-0.43902	0.00026 8	0.00245 2
3636394	CAALFM_C504620C A	738.042069 8	1021.31405 4	-0.46865	0.00138 5	0.00973 9
3636397	CAALFM_C504640C A	1711.40331 4	2161.26644 1	-0.3367	0.00423 9	0.02338 9
3636406	PGA4	3984.18409 2	3170.82372 3	0.32943	0.00335 2	0.01947 8
3636411	NA	1928.28182 2	1448.09388 8	0.41316	0.00065 6	0.00525 1
3636413	NA	8876.07964 1	2993.08621 6	1.5683	6.51E- 45	1.15E- 42
3636414	CAALFM_C504470C A	13257.9119 8	8756.63456 7	0.59841	0.00014 2	0.00143 2
3636416	CAALFM_C504900C A	428.341558 6	575.965268 7	-0.42722	0.00542 0.00542	0.02833 3
3636422	NA	2234.83319 2	1654.98177 5	0.43335	0.00024 9	0.00231 1
3636429	NA	1452.94785 2	984.470499 7	0.56156	9.99E- 06	0.00014 1
3636434	SFL2	803.984873 3	1099.53110 6	-0.45165	0.00065 3	0.00523 4
3636437	CAALFM_C504860C A	291.295766 7	154.858243 8	0.91154	7.95E- 06	0.00011 6
3636439	PUT2	28296.3433 4	38670.5107 7	-0.45062	2.05E- 05	0.00026 1
3636443	HAS1	5251.74849 3	6807.28333 7	-0.37428	0.00062 2	0.00502 4
3636448	PFK1	10282.8493 4	13677.4656 8	-0.41156	0.00232 6	0.01463 5
3636450	NA	76.6354522 4	189.518019 9	-1.3063	1.37E- 07	2.79E- 06

3636453	GLN3	2057.59689 7	1593.32466 7	0.36892	0.00210	0.01357 9
3636458	CCT3	4123.06969 9	3375.10270 1	0.28879	0.01019	0.04663 5
3636460	CAALFM_C505140W A	467.021183 3	629.286186 6	-0.43023	0.00406	0.02266 6
3636465	CAALFM_C505180W A	126.439827 7	63.9866741 6	0.98261	0.00066	0.00530 7
3636467	NA	1018.04317 7	764.024233 1	0.41411	0.00207	0.01351 1
3636468	CAALFM_C505210W A	1647.87547 4	1278.94642 7	0.36565	0.00317	0.01860 7
3636472	NA	924.175360 3	1263.76208 4	-0.45149	0.00038	0.00338 8
3636477	CAALFM_C504310W A	810.929829 7	592.800188 5	0.45203	0.00357	0.02039 4
3636483	NA	1586.90300 6	2118.99607 1	-0.41717	0.00044	0.00381 2
3636484	PGA37	319.471272 3	735.794466 1	-1.2036	5.54E- 05	0.00062 9
3636485	CAALFM_C504380C A	164.560783 7	12.6009201 5	3.707	8.30E- 16	4.09E- 14
3636489	ADH1	61719.9065 5	107933.001 4	-0.80633	8.04E- 11	2.45E- 09
3636491	NA	1593.90646 5	1250.04378 7	0.35059	0.00458	0.02485 6
3636498	MRP2	861.134665 7	1136.46423	-0.40024	0.00212	0.01371 6
3636499	NA	3338.87520 1	2600.10875 3	0.36079	0.00139	0.00979 7
3636503	CAR1	15620.0991 4	7875.05093 6	0.98804	4.55E- 20	3.01E- 18
3636507	CAALFM_C504530W A	955.434584 3	1391.40074 4	-0.54231	1.91E- 05	0.00024 5
3636521	SCW11	214.958929 7	131.481751 8	0.7092	0.00808	0.03881 4
3636523	CHT2	338.319819 5	205.711671	0.71776	0.00014	0.00145 3
3636526	EST1	393.979995 5	533.616686 7	-0.43768	0.00569	0.02950 4
3636529	DES1	399.784213 3	597.800125	-0.58044	0.00017	0.00171 4
3636535	PPR1	1032.41677 4	787.792506	0.39014	0.00354	0.02025 4

3636552	ILV2		7562.31733	5231.18624 4	0.53169	1.04E- 06	1.83E- 05
3636555	NA		356.397767 2	653.113298 9	-0.87384	1.73E- 08	3.97E- 07
3636558	PXP2		9234.03344 8	485.431882 7	4.2496	#####	#####
3636565	CAALFM_C301850W A		838.704874 9	1231.28958 1	-0.55393	0.00233 4	0.01466 6
3636568	NA		11273.3134 2	8112.57082 3	0.47468	9.79E- 06	0.00013 9
3636578	CAALFM_C302060W A		238.589282 2	124.913817 8	0.9336	2.24E- 05	0.00028 3
3636592	CAALFM_C302020W A		2664.76193 2	3459.06553 2	-0.37638	0.00106 6	0.00784
3636598	POX1-3		80980.4941 5	23030.3782 6	1.814	2.67E- 64	8.34E- 62
3636605	CAALFM_C301680C A		638.648709 7	847.346669	-0.40793	0.00330 3	0.01920 8
3636618	NA		634.819113 3	889.301722 6	-0.48633	0.00049 4	0.00415
3636623	NA		757.884847 9	570.688608 9	0.40927	0.00404 5	0.0226
3636625	NA		187.805836 5	282.467920 3	-0.58885	0.00288	0.01719 2
3636627	PMC1		14468.3335	10667.3110 8	0.4397	3.97E- 05	0.00046 8
3636628	ARF3		858.350882 9	539.817454 2	0.6691	2.40E- 06	3.89E- 05
3636629	FOX3		24441.501	6674.87747 7	1.8725	2.70E- 66	9.32E- 64
3636634	NA		13894.1333 8	2632.74554 3	2.3998	#####	5.39E- 97
3636640	CAP1		12710.1340 5	9606.45499 4	0.4039	0.00111 7	0.00810 7
3636646	GEA2		3290.51099 9	2649.18518 7	0.31276	0.00699 1	0.03460 9
3636651	ZCF8		1141.98135 6	901.933373	0.34045	0.01057 4	0.04797 2
3636653	LAP41		4164.75723 8	2950.37920 4	0.49733	7.84E- 06	0.00011 5
3636655	ERG6		4555.64099 5	2293.38159 8	0.99018	4.64E- 09	1.17E- 07
3636656	CAALFM_C302140C A		4202.03607 1	2424.46006	0.79343	3.31E- 11	1.07E- 09

3636661	CAALFM_C302090C	921.014518	607.815875	0.59959	1.65E-	0.00021
	A	2	7		05	7
3636669	CAALFM_C301560W	3989.60219	4993.95865	-0.32394	0.00352	0.02019
	A	1	5		2	7
3636793	CAALFM_C102410C	445.840896	324.029445	0.4604	0.00641	0.03234
	A	5	7		9	1
3636797	SCW4	147.254755	7.07215157	4.38	5.34E-	1.49E-
		8	7		10	08
3636798	DIP5	48847.9993	32437.4665	0.59064	1.76E-	4.04E-
		2	4		08	07
3636801	PUT4	1223.22096	218.900262	2.4823	3.08E-	1.01E-
		5	6		11	09
3636802	HNM4	1352.02417	346.592519	1.9638	4.01E-	1.28E-
		4	3		11	09
3636811	ARX1	2839.51865	4361.6393	-0.61922	3.76E-	8.28E-
		9			08	07
3636815	HOM6	1194.08369	866.404833	0.46279	0.00034	0.00307
			8		3	6
3636816	EXG2	469.521511	804.299726	-0.77654	0.00349	0.02009
		5	3		6	7
3636835	CAALFM_C102970W	3178.41098	2220.25667	0.51758	6.34E-	9.43E-
	A	7	3		06	05
3636836	GOR1	647.374977	301.439136	1.1027	3.83E-	1.39E-
		5	6		12	10
3636837	XOG1	521.407134	300.848844	0.79337	1.36E-	2.29E-
			2		06	05
3636858	EHD3	12032.9133	5478.27403	1.1352	1.18E-	1.02E-
		4	4		25	23
3636867	NA	1110.62506	1401.81177	-0.33592	0.00749	0.03654
		7			9	4
3636871	CAALFM_C102780W	4609.98442	3710.19055	0.31327	0.0044	0.02404
	A	3	7			2
3636873	CAALFM_C102800W	2978.59311	1229.02322	1.2771	0.00088	0.00673
	A	4	3		3	5
3636875	LYS2	6936.61324	5484.74890	0.33881	0.00191	0.01263
		5	4		1	8
3636881	NA	429.702468	566.703223	-0.39926	0.01002	0.04607
		5	3			7
3636885	DAO1	5950.03084	4187.30824	0.50687	3.96E-	6.11E-
		2	3		06	05
3636889	CAALFM_C103360W	3136.09985	3984.62799	-0.34547	0.00221	0.01411
	A	7	3		7	8
3636901	NA	2713.83295	3417.03226	-0.33241	0.00362	0.02062
			6		2	

3636904	NA	3815.01355 2	5024.77271 8	-0.39737	0.00027	0.00253 7
3636913	AGE1	1243.58813 7	1848.40172 7	-0.57177	2.55E- 06	4.09E- 05
3636914	CAALFM_C103490W A	3605.85324 4	5999.74828 4	-0.73456	2.11E- 10	6.18E- 09
3636915	YPT1	6650.63801 1	5369.55212 1	0.30869	0.00458	0.02485 6
3636918	MED17	1737.63024 1	2300.56968 1	-0.40487	0.00059	0.00481 5
3636933	CAALFM_C702340C A	740.767349 6	977.057543 4	-0.39942	0.00339	0.01969 3
3636935	SEC1	1861.63170 2	1467.59917 8	0.34311	0.00435	0.02390 8
3636936	CAALFM_C702310C A	344.474235 3	204.673379 3	0.75107	6.20E- 05	0.00068 8
3636942	DPP3	440.922144 2	302.756772 6	0.54236	0.00946	0.04401 5
3636943	PEX1	11610.8549 1	4676.38208 5	1.312	3.57E- 33	3.90E- 31
3636948	EXO70	1644.68991 1	1183.66958 1	0.47455	0.00013	0.00140 6
3636950	CUP9	9257.59077 5	11620.5581 1	-0.32797	0.00315	0.01853 9
3636951	HSP90	108067.389 4	63379.6634 7	0.76984	0.00039	0.00343 6
3636954	CAALFM_C702010C A	1135.05766 1	165.299126 7	2.7796	5.40E- 68	2.09E- 65
3636958	CAALFM_C701460C A	301.402885 4	178.319936 9	0.75723	0.01009	0.04628 1
3636960	NA	385.682369 7	533.418175 2	-0.46785	0.00278	0.01676 5
3636968	TOM40	3834.95735 6	4836.24201 3	-0.33468	0.00253	0.01566 9
3636972	NA	1914.78809 7	1048.50989 7	0.86884	1.93E- 12	7.18E- 11
3636977	AHP2	3305.74666 1	1570.59556 1	1.0737	4.93E- 20	3.23E- 18
3636978	CYP1	27761.3058 7	11617.1127 7	1.2568	1.20E- 23	9.14E- 22
3636982	NA	583.882239 7	818.470391 3	-0.48725	0.00071	0.00563 7
3636987	NA	81.4605998 2	35.7534125 1	1.188	0.00114	0.00828 4

3636996	CAALFM_C702140W A	21.0385595 1	4.37804019 9	2.2647	0.00646	0.03250 9
3636999	NA	1006.93572 7	396.549074 3	1.3444	0.00162	0.01103
3637001	NA	436.272505 5	145.092854 5	1.5883	4.41E- 05	0.00051 6
3637002	NA	1422.12765 1	603.358750 1	1.237	1.50E- 05	0.0002
3637004	FMP45	7758.94517 9	6307.23279	0.29885	0.00605	0.03101 8
3637013	NA	2187.85676 1	1175.81474 2	0.89586	3.41E- 05	0.00041 1
3637019	CAALFM_C702120C A	494.060730 8	658.022792 2	-0.41345	0.00501	0.02667 9
3637036	CAALFM_C701600W A	522.252717 4	822.424173	-0.65513	4.94E- 06	7.55E- 05
3637037	CAALFM_C701590C A	752.611117 2	955.167342 4	-0.34385	0.01034	0.04710 7
3637041	NUP	91.6496226 4	43.5282931 9	1.0742	0.00122	0.00876 3
3637045	ALK6	183.904716 3	93.9873184 6	0.96842	7.61E- 05	0.00083 3
3637323	PYC2	33830.5668 6	8184.63983 1	2.0473	1.27E- 78	5.94E- 76
3637326	CAALFM_C204280W A	193.685038 2	123.286107 3	0.6517	0.00425	0.02343 4
3637329	UGA1	14166.2274 4	8849.24119 3	0.67883	1.66E- 10	4.90E- 09
3637337	CAALFM_C203560C A	603.103065 8	899.430783 7	-0.57661	0.00020	0.00196 6
3637338	CAALFM_C203550C A	1854.47481 5	2409.54719 9	-0.37775	0.00128	0.00918 2
3637342	ADAEC	21024.6903 5	11128.5399 5	0.91782	4.65E- 05	0.00053 9
3637356	BAT21	1447.17049 6	1101.91426 9	0.39322	0.00780	0.03774 8
3637364	NA	273287.028 3	156510.236 8	0.80416	0.00016	0.00161 6
3637365	NA	645.667329 7	114.868210 6	2.4908	2.20E- 13	9.09E- 12
3637367	GCD7	425.821289 4	600.942235 7	-0.49698	0.00130	0.00926 9
3637371	CAALFM_C203760C A	5923.58506 5	4231.65170 2	0.48525	9.83E- 06	0.00013 9

3637372	YIM1	5756.01504 6	3425.45016 3	0.74878	4.81E- 10	1.35E- 08
3637374	NA	171.749312 6	69.9080973 6	1.2968	2.93E- 06	4.61E- 05
3637378	CAALFM_C204110W A	481.956909 7	888.20896	-0.88199	8.19E- 10	2.25E- 08
3637391	NA	288.842240 8	42.2651281 6	2.7727	4.64E- 28	4.35E- 26
3637399	NA	625.632561 9	965.804989 5	-0.62642	5.20E- 06	7.90E- 05
3637401	CAALFM_C203800C A	503.714486 1	667.87513	-0.40697	0.00526	0.02774
3637414	HSP78	31563.6500 3	14227.8913 4	1.1495	0.00302	0.01785
3637418	MED1	1536.38043 3	616.210905 4	1.318	1.68E- 05	0.00022
3637419	NA	270.815875 9	384.453245 4	-0.5055	0.00402	0.02252
3637420	CAALFM_C203950W A	503.073913 2	656.283518 7	-0.38355	0.00932	0.04349
3637429	NA	836.399996 6	608.493116 7	0.45895	0.00097	0.00727 5
3637430	NA	6937.54947 3	5272.70116 2	0.39588	0.00024	0.00224
3637431	NA	11252.3177 1	14446.7665 7	-0.36052	0.00901	0.04233 8
3637433	AVT7	2836.60220 9	3841.77775 6	-0.43761	9.01E- 05	0.00097 1
3637437	UGA11	2295.33499 6	1649.89838 5	0.47633	5.41E- 05	0.00061 7
3637701	CAALFM_C503080C A	4272.83830 4	2355.51656 2	0.85915	3.94E- 09	1.02E- 07
3637705	CAALFM_C503120W A	390.362329 9	280.755882 3	0.4755	0.00580	0.02997 8
3637711	NA	3894.32534 2	4746.83561 5	-0.28559	0.01029	0.04693 5
3637718	UTP13	2149.55123 6	2958.39308 8	-0.46078	0.00059	0.00483 6
3637731	NA	800.342486 3	506.253061 8	0.66076	5.54E- 06	8.32E- 05
3637739	CAALFM_C502740W A	1194.42564 7	1555.49030 3	-0.38105	0.00209	0.01354 3
3637743	MSW1	257.307802 7	357.370712 1	-0.47393	0.00774	0.03749 5

3637744	GRP2	4839.44943 6	1891.37657 4	1.3554	1.62E- 06	2.70E- 05
3637751	CAALFM_C502920W A	1351.55433 9	992.295482 9	0.44578	0.00051 5	0.00428 1
3637757	LEU3	3112.41314 1	3952.80287 4	-0.34484	0.00206	0.01341 9
3637758	NA	45.7697685 3	98.9547774 3	-1.1124	0.00060 2	0.00487 8
3637770	IFH1	4331.23842 9	5835.54381 9	-0.43009	7.60E- 05	0.00083 3
3637775	CAALFM_C502690W A	5205.26398 7	1601.60463 9	1.7005	9.20E- 49	2.08E- 46
3637785	CAALFM_C502640W A	342.331025 3	679.913866 9	-0.98996	1.14E- 10	3.40E- 09
3637794	CAALFM_C502380W A	17923.7103 2	12630.9691 5	0.5049	0.00064 5	0.00517 7
3637799	CAALFM_C503150W A	3304.98990 2	2358.24839 3	0.48693	0.00014 8	0.00148 7
3637806	GAP1	4427.03191 6	5874.43584 7	-0.40811	0.00195 4	0.01284 5
3637821	CCC2	5402.71879 9	6810.06891 6	-0.33398	0.00979 3	0.04527 1
3637824	CAALFM_C503040W A	223.276496 6	311.822053 8	-0.48189	0.01003 1	0.04608 1
3637827	TNA1	493.423618 1	77.9913051 8	2.6614	4.40E- 39	6.01E- 37
3637828	CAALFM_C402680C A	125.394014 1	226.057615 3	-0.85022	0.00011 6	0.00120 6
3637839	NCP1	5971.82402 1	4729.06872 4	0.33662	0.00179 8	0.01200 2
3637840	NA	260.218152 1	176.497209 7	0.56008	0.00514 9	0.02726 1
3637843	CAALFM_C403140C A	573.481286 7	812.209910 7	-0.50211	0.00076 4	0.00597 9
3637844	CAALFM_C402460W A	181.541335 1	117.309339 5	0.62998	0.00715 6	0.03529 7
3637850	AHP1	37539.0738 7	30578.2887 9	0.29589	0.00965 1	0.04465
3637853	CGR1	761.899513 8	380.945715 6	1	3.05E- 11	1.00E- 09
3637854	NA	362.654028 1	549.192809 9	-0.59872	0.00016 1	0.0016
3637858	GRX3	2622.50056 3	3501.89196 9	-0.41719	0.00021 5	0.00205 6

3637861	CAALFM_C402690W A	702.621672 2	1105.67390 8	-0.65411	0.00034	0.00307
3637862	ARG83	1178.35742 3	1517.32823 9	-0.36476	0.00350	0.02015
3637865	CAALFM_C402510W A	481.343198 2	339.297241 7	0.50452	0.00208	0.01351
3637866	ADR1	17959.9453 4	11067.8921 5	0.6984	4.86E- 11	1.54E- 09
3637867	ZCF15	2492.59995 8	1968.39993 6	0.34063	0.00392	0.02202
3637879	NA	17024.5966 1	21916.8058 2	-0.36442	0.00049	0.00416
3637883	NA	6655.65036 8	4745.74110 5	0.48795	8.17E- 06	0.00011 9
3637899	NA	619.828344 9	922.557787	-0.57377	3.42E- 05	0.00041 3
3637903	CAALFM_C402770C A	2015.45517 5	1179.11851 8	0.7734	2.87E- 05	0.00035 7
3637910	CAALFM_C402850W A	2407.77136 5	3252.31731 6	-0.43377	0.00016	0.00160 9
3637911	HCA4	848.940700 1	1135.53924 8	-0.41964	0.00149	0.01032
3637916	CAALFM_C402570C A	295.271870 7	439.431730 4	-0.5736	0.00076	0.00596
3637926	CAALFM_C403090W A	1371.18385 7	937.263400 7	0.5489	2.29E- 05	0.00028 9
3637930	CAALFM_C403050C A	3964.46310 1	2873.42357	0.46435	3.84E- 05	0.00045 5
3637934	CAALFM_C403020W A	5182.82199 5	6443.54757 1	-0.31412	0.00340	0.01969 9
3637937	GST2	4133.82777 1	2421.86615 4	0.77136	1.34E- 11	4.54E- 10
3637951	PHM5	2472.26657 5	3098.10121 5	-0.32555	0.00438	0.02403
3637954	YML6	650.729129 5	906.446716 9	-0.47817	0.00097	0.00731
3637956	GPH1	48709.2191 6	67293.6801	-0.46628	6.01E- 05	0.00067
3637960	CAALFM_C700760C A	94.9920741 3	46.0537495 8	1.0445	0.00156	0.01073
3637971	VPS70	4528.17494 6	2682.67573 6	0.75526	1.33E- 11	4.54E- 10
3637972	CAALFM_C700160C A	708.288943 1	915.484762 7	-0.3702	0.00694	0.03449 1

3637985	MAC1	1218.42135 8	875.461378 2	0.4769	0.01067	0.04835
3637993	CAALFM_C700430W A	3634.66107 8	1637.04972 4	1.1507	5.08E- 23	3.79E- 21
3637994	CAALFM_C700590W A	788.427194 9	1042.56123 9	-0.40308	0.00213	0.01374 3
3637996	RPA135	8679.81501	10980.0115 1	-0.33914	0.00160	0.01092 7
3638013	CAALFM_C700060C A	1343.51329 7	840.864809 9	0.67606	1.44E- 07	2.92E- 06
3638014	RAD3	783.563485 4	1005.51829 9	-0.35982	0.00746	0.03644 6
3638019	CAALFM_C701030C A	6816.55064 4	8365.79370 3	-0.29546	0.00594	0.03056 9
3638020	CAALFM_C701020C A	417.130123 4	615.925445 3	-0.56226	0.00089	0.00678 8
3638028	CAALFM_C700630C A	524.155815	780.526211 3	-0.57445	6.96E- 05	0.00076 5
3638029	GUS1	3906.17389	4871.21186 4	-0.31852	0.00405	0.02262 8
3638033	NA	669.133874	475.268596 7	0.49355	0.00082	0.00634 2
3638034	LEU2	1329.44177 5	780.723849 1	0.76794	3.96E- 09	1.02E- 07
3638036	NA	201.105438 9	114.446573 1	0.81328	0.00037	0.00331 9
3638038	NA	4397.37535 3	3370.81335 6	0.38355	0.00365	0.02077 8
3638039	NA	53133.0693 4	14285.7335 8	1.895	0.00025	0.00233 2
3638047	HGT13	7146.57365 8	1258.88681 6	2.5051	#####	2.27E- 97
3638052	CAALFM_C700880C A	2344.51956	3256.95620 2	-0.47423	3.27E- 05	0.00039 7
3638054	CAALFM_C700870W A	1194.30600 1	698.044429 3	0.77478	2.93E- 05	0.00036 2
3638299	CAALFM_C303560W A	857.698609 5	1147.43569 2	-0.41987	0.00145	0.01009 7
3638301	GTT13	42.3289319 5	9.85059044 8	2.1034	0.00016	0.00165 9
3638305	FUR4	608.758636 1	156.603633	1.9588	1.48E- 05	0.00019 8
3638306	CAALFM_C303470W A	1504.96960 2	808.140197 7	0.89706	0.00141	0.00988 1

3638307	ALT1	8	8311.62505 1	5381.86059 0.62703	6.93E- 09	1.69E- 07
3638314	ULP1	6	445.625505 4	614.553338 -0.46371	0.00511	0.02709 8
3638320	CAALFM_C303260W A	2	1995.91365 2	2553.12303 -0.35521	0.00238	0.01495 9 3
3638321	NA	1	331.198034 9	495.474868 -0.58112	0.00027	0.00253 7 7
3638325	NA	4	14353.6082 7	8908.11169 0.68822	0.00022	0.00212 4 5
3638326	CAALFM_C302620C A	5	997.241269 2	553.204557 0.85013	8.92E- 10	2.41E- 08
3638333	THI6	8	652.058397 2	896.539908 -0.45937	0.00181	0.01206 4 9
3638334	CAALFM_C302870C A	6	661.760275 4	1054.48404 -0.67216	0.00208	0.01352 6 3
3638339	NA	9	4516.17246 8	3631.44117 0.31456	0.00494	0.02638 8
3638346	PHA2	7	367.479175 7	523.624676 -0.51087	0.00131	0.00931 6 9
3638350	CCP1	5	15705.9384 3	8961.60214 0.80948	2.64E- 08	5.97E- 07
3638353	CAALFM_C303410C A	7	16839.3896 5	8916.27748 0.91733	4.34E- 12	1.56E- 10
3638356	CAALFM_C303440C A	4	237.833843 3	106.869330 1.1541	0.00114	0.00828 5 4
3638357	NA	1	417.358535 6	146.187364 1.5135	1.60E- 15	7.71E- 14
3638369	PAM17	2	984.058673 2	1408.01603 -0.51685	4.27E- 05	0.00050 1
3638375	CAALFM_C302570W A	4	1094.19148 8	755.913789 0.53357	5.98E- 05	0.00066 7
3638386	CAALFM_C302980C A	7	107.788050 8	33.1717377 1.7002	0.00193	0.01277 5 1
3638398	USO5	7	218.659819 7	147.757983 0.56545	0.00922	0.04311 2
3638404	NA	3	177.805343 1	43.5274195 2.0303	1.09E- 12	4.18E- 11
3638406	SLD1	6	2733.62678 2	1960.43091 0.47965	0.00036	0.00320 2
3638408	SMC3	5	538.316161 5	325.686139 0.72497	8.28E- 06	0.00012
3638411	CAALFM_C302750W A	7	549.936297 7	202.848031 1.4389	1.44E- 12	5.43E- 11

3638418	FAA21	16667.5175 7	2932.49550 8	2.5068	#####	#####
3638419	NA	1468.23031 6	1038.80334 8	0.49916	6.83E- 05	0.00075 3
3638430	CAALFM_C307290W A	4636.0505 3	6174.83931 3	-0.41351	0.00013 6	0.00139 7
3638431	NA	1110.73729 3	1674.53978 9	-0.59225	0.00022 7	0.00213 9
3638437	GCD2	1828.99772 8	2565.52806 2	-0.4882	3.54E- 05	0.00042 5
3638441	NA	1193.55666 3	389.924922	1.614	9.00E- 30	9.22E- 28
3638444	HHT1	10600.9008 8	8538.01467 4	0.31221	0.00358 4	0.02044 2
3638445	RRD1	684.170125 4	425.791644 8	0.68421	5.25E- 05	0.00060 2
3638446	CAALFM_C307070C A	695.578330 8	513.324339 7	0.43834	0.00322 5	0.01884 1
3638450	CAALFM_C307760C A	320.576909 1	209.416838 6	0.61429	0.00107 7	0.00790 9
3638451	NA	3193.60676 7	4404.71697 2	-0.46386	3.11E- 05	0.00038 1
3638469	NOP13	1222.53094 9	1768.72474 6	-0.53284	1.47E- 05	0.00019 8
3638474	NA	1191.00343 2	897.075729 7	0.40888	0.00192 6	0.01272 2
3638477	GCY1	5831.21114 5	2639.47689	1.1435	1.72E- 17	9.40E- 16
3638478	CAALFM_C307330W A	838.598249 4	583.767384 8	0.52259	0.00019 5	0.00188 5
3638482	TPI1	7880.13253 7	10802.2941	-0.45505	2.17E- 05	0.00027 6
3638489	FUM12	13807.2743 1	10886.5652 5	0.34288	0.00104 6	0.00768
3638492	RIT1	624.378277 5	901.848171 8	-0.53046	0.00014 4	0.00144 7
3638504	CAALFM_C306730W A	1022.51120 6	490.286905	1.0604	7.99E- 11	2.45E- 09
3638507	NA	2668.19962 7	1295.75498 5	1.0421	0.00011 3	0.00118 1
3638511	NA	1171.07874 9	721.533357 9	0.6987	1.54E- 07	3.12E- 06
3638512	TPD3	2628.87515 5	2082.32204	0.33625	0.00366 9	0.02083 9

3638525	CAALFM_C307550C	2764.80492	3496.75410	-0.33884	0.00268	0.01632	
	A	5	8		3	4	
3638528	CAALFM_C307490W	926.366692	1229.38864	-0.40829	0.00179	0.01200	
	A	9	2		8	2	
3638531	CAALFM_C307230W	2542.54738	2038.00320	0.31912	0.00587	0.03029	
	A	1	1		8	1	
3638534	ZFU2	515.531392	380.748077	0.43722	0.00697	0.03456	
		4	8		5	8	
3638537	NA	109.731030	41.4508360	1.4045	1.43E-	0.00019	
		4	7		05	4	
3638540	TDH3	117983.583	190099.018	-0.68816	1.65E-	0.00021	
		9	9		05	7	
3638791	CHA1	6181.09919	4002.63738	0.62691	1.20E-	2.85E-	
		9	2		08	07	
3638803	NA	592.195026	768.290710	-0.37558	0.00884	0.04172	
		1	3		1	6	
3638820	CAALFM_C200410C	1104.25872	1507.72888	-0.4493	0.00035	0.0032	
	A	1	4		9		
3638828	ARO8	3483.86842	2238.12901	0.6384	2.37E-	5.41E-	
		1	1		08	07	
3638834	CAALFM_C201070W	2584.80956	3426.74143	-0.40678	0.00037	0.00330	
	A	9	7		6	8	
3638837	NAT2	2355.61876	3025.70013	-0.36116	0.00176	0.01182	
		9	9		1	6	
3638840	NDT80	947.617183	1190.26125	-0.3289	0.01032	0.04702	
		2	6		2	4	
3638847	CAALFM_C200640W	1127.44741	1435.85489	-0.34885	0.00496	0.02645	
	A		2		8	4	
3638848	CAALFM_C200630C	311.768737	86.8027302	1.8447	3.50E-	1.00E-	
	A	2	2		10	08	
3638855	CAALFM_C200550W	172.713222	66.5683488	1.3755	1.72E-	3.44E-	
	A	1	8		07	06	
3638857	HNM1	8362.10246	6535.96077	0.35547	0.00096	0.00725	
		8	6		5	4	
3638862	PEX12	2221.54397	1653.49111	0.42605	0.00038	0.00338	
			6		7	8	
3638871	PHHB	711.438084	2703.83597	-1.9262	1.89E-	3.88E-	
		6	2		46	44	
3638873	HGT6	24992.1208	48559.5153	-0.95828	1.62E-	3.77E-	
		5	6		08	07	
3638875	HGT8	23831.4997	33816.5710	-0.50486	1.19E-	2.03E-	
		4	4		06	05	
3638884	CAALFM_C200700W	9099.43886	11139.9208	-0.29189	0.00527	0.02776	
	A	1	2		4	7	

3638905	NA	4363.34026 8	963.842590 1	2.1786	1.21E- 29	1.22E- 27
3638906	CAALFM_C200170C A	1657.66881 7	2252.10728	-0.44212	0.00022	0.00213
3638909	NA	1718.69022 8	1241.82090 7	0.46885	0.00014	0.00149
3638911	NA	240.382294 2	363.967629	-0.59848	0.00141	0.00987
3638913	CAALFM_C200730C A	652.530382 3	867.749705	-0.41123	0.00303	0.01787
3638922	UTP5	2121.63924 4	2920.42953 6	-0.461	7.92E- 05	0.00086
3638925	SIK1	6934.75562 9	8451.71441 4	-0.2854	0.00739	0.03619
3638926	UGA3	6331.93683 7	9458.53374 9	-0.57897	5.31E- 08	1.15E- 06
3638933	AHA1	5513.60258 7	2018.87294	1.4494	2.56E- 06	4.10E- 05
3638934	CAALFM_CR10280W A	1744.52575 3	1125.85993 4	0.63181	9.51E- 05	0.00101
3638938	NA	54.0240520 4	3.78862142 7	3.8339	8.90E- 10	2.41E- 08
3638940	PTP3	8008.93228 6	11759.5977 3	-0.55416	2.29E- 07	4.50E- 06
3638950	TRX1	9563.79062 7	6936.97746	0.46328	0.00036	0.00325
3638957	CAALFM_CR10410C A	1745.92786 5	2307.92467 2	-0.4026	0.00066	0.00528
3638966	INO1	4616.04933 3	13044.6555 1	-1.4987	8.79E- 17	4.61E- 15
3638974	CAALFM_CR10420W A	4369.75159 6	5672.58037 4	-0.37645	0.00051	0.00428
3638983	ALO1	5893.49130 1	9101.40276 3	-0.62697	6.83E- 09	1.68E- 07
3638984	CAALFM_CR09800C A	1204.54792 7	1612.63232	-0.42093	0.00070	0.00562
3638986	CAALFM_CR09830W A	1220.52682 6	513.634414 2	1.2487	4.51E- 05	0.00052
3638993	POP3	287.666400 5	435.641361 6	-0.59874	0.00040	0.00352
3638997	HMI1	635.090867 3	824.642175 9	-0.37681	0.00842	0.04016
3639009	CAALFM_CR09750C A	1708.09250 4	1236.45817 3	0.46617	0.00017	0.00167

3639012	IFA14	181.147794 8	96.1772122 4	0.9134	0.0089	0.04194 3
3639026	DPB2	490.010963 6	343.619063 6	0.512	0.00604	0.03100 1
3639029	CAALFM_CR09930W A	648.133876 4	889.613544 5	-0.45689	0.00100	0.00748 6
3639035	CAALFM_CR10060W A	2449.17362 9	3191.81530 5	-0.38208	0.00077	0.00601 8
3639037	ZCF39	3450.7351 128.441310 4	4410.00149 5	-0.35388	0.00130	0.00926 9
3639044	MCD1	2085.89683 2307.53242 2	2580.09662 976.276602 6	1.1082 1.241	0.00046	0.0039 5
3639172	NA	1971.05933 7	1309.70689 2	0.58973	5.61E- 24	4.44E- 22
3639174	NA	1563.40268 1563.40268	2266.05132 5	-0.53549	1.29E- 06	2.19E- 05
3639177	NA	735.878918 7	955.672433 7	-0.37705	6.08E- 06	9.09E- 05
3639178	CAALFM_C603210C A	1104.73202 5	543.240656 5	1.024	0.00541	0.02832 1
3639181	CAALFM_C603240W A	328.944738 4	629.200111 7	-0.93567	3.23E- 05	0.00039 3
3639182	BMT4	2229.23398 4	1271.87602 2	0.80959	1.45E- 06	2.44E- 05
3639184	AYR2	817.988331 8	503.359565 2	0.70049	1.78E- 11	5.92E- 10
3639190	CAALFM_C602970C A	8863.27014 3	6915.60997 5	0.35798	1.28E- 06	2.17E- 05
3639192	CAALFM_C602980C A	1471.28453 3	795.427714 5	0.88727	0.00104	0.00768 6
3639198	CAALFM_C603320W A	7638.42971 6	4556.58151 5	0.74532	8.28E- 12	2.88E- 10
3639200	GLC3	146.400932 146.400932	79.9826874 4	0.87217	7.11E- 12	2.50E- 10
3639203	NA	20.5548746 9	3.31163931 4	2.6339	0.00118	0.00854 8
3639204	NA	2048.61139 6	321.590064 2	2.6714	0.00281	0.01689 1
3639205	CAALFM_C602560W A	5599.89921 6	3187.67524 3	0.8129	3.01E- 09	7.90E- 08
3639210	CDC37				0.00014	0.00148 7

3639213	SAC6	13936.4695 5	9848.78971 4	0.50085	2.70E- 06	4.30E- 05
3639220	MIF2	2047.14304 1	1550.27772 4	0.40109	0.00681	0.03392 1 6
3639224	NA	602.254022 3	431.405614 6	0.48133	0.00162 8	0.01103
3639229	SAP6	193.798584 5	279.183516 5	-0.52666	0.00620 1	0.03151
3639236	NA	8577.84633 8	7041.06485 7	0.28482	0.00766	0.03716 6
3639239	HPD1	1214.57528 1	193.449808 2	2.6504	6.81E- 66	2.23E- 63
3639252	RAV2	840.202731 7	1108.71057 1	-0.40007	0.00256	0.01579 4 8
3639254	POL5	865.987994 8	1138.42750 3	-0.39462	0.00269	0.01636 9 3
3639257	CAALFM_C603150C A	596.119547 5	770.899620 5	-0.37094	0.00924	0.04316 6 8
3639260	MDR1	189.740575 8	86.7473855 8	1.1291	3.79E- 06	5.89E- 05
3639268	SAP5	720.289598 7	2599.60191 4	-1.8516	1.11E- 49	2.70E- 47
3639287	CAALFM_C100410C A	4230.44822 9	2715.22819 8	0.63974	1.12E- 08	2.66E- 07
3639294	HMX1	5752.68693 6	7968.74303 2	-0.47012	1.19E- 05	0.00016 4
3639300	NA	327.325095 4	189.041911 5	0.79202	3.11E- 05	0.00038 1
3639314	GCN20	1558.38208 2	2021.83940 6	-0.37562	0.00191	0.01263 1 8
3639326	VPS27	2898.03018 1	2261.44841 1	0.35783	0.00218	0.01398 7 3
3639327	SPE1	2566.55001 2	3294.10808 3	-0.36006	0.00153	0.01052 1 6
3639332	ASM3	420.744328 8	624.738617 7	-0.57031	0.00017	0.00171 7 7
3639335	NA	1481.34138 9	884.925429 8	0.74328	5.28E- 09	1.31E- 07
3639341	CAALFM_C100160C A	7585.63126 6	9394.3573	-0.30853	0.00367	0.02086 6
3639344	CAALFM_C100830W A	2430.19423 6	1626.29876 7	0.57948	8.42E- 07	1.50E- 05
3639346	CAALFM_C100810W A	131.583531 7	61.9100907 2	1.0877	0.00014	0.00143 2 3

3639347	NA	226.902402 6	127.299602 1	0.83384	0.00013	0.00140 8 6
3639349	HGC1	324.910131 4	219.407974 9	0.56642	0.00677	0.03384 9 5
3639355	CAALFM_C100880W A	374.769549 8	179.388085 2	1.0629	1.08E- 06	1.89E- 05
3639358	CAALFM_C100860W A	957.392724 7	537.824324 5	0.83198	3.85E- 09	9.98E- 08
3639365	CNS1	1035.41726 8	1341.83946 4	-0.374	0.00338	0.01960 5
3639366	CIS2	2771.82008 5	2236.94318 4	0.30931	0.01107	0.04983 6 4
3639378	RPO41	7509.06041 8	10321.4179 5	-0.45894	1.63E- 05	0.00021 6 6
3639495	CAT1	104275.793 1	54689.0770 4	0.93108	1.44E- 18	8.85E- 17
3639510	CAALFM_C106710W A	624.370037 7	824.331227 7	-0.40082	0.00383	0.02159 8 5
3639516	NA	12375.5525 4	4548.73643 7	1.444	1.26E- 39	1.80E- 37
3639519	GLT1	52229.5106 7	26348.7377 1	0.98713	5.31E- 21	3.74E- 19
3639530	CAALFM_C106860W A	1995.70040 1	543.324983 9	1.877	3.10E- 46	6.16E- 44
3639545	NA	91.3978097 5	49.1686247 5	0.89442	0.00702	0.03474 7
3639564	MEF2	684.221708 1	1000.12658 2	-0.54765	4.72E- 05	0.00054 6
3639570	ATC1	8656.12137 5	12290.3322 8	-0.50573	3.92E- 05	0.00046 3
3639658	CAALFM_CR00660W A	28.2153877 7	61.7976540 7	-1.1311	0.00597	0.03064 6
3639667	MDH1	14009.2142 7	9993.34762 1	0.48734	5.15E- 06	7.83E- 05
3639674	NA	320.003079 7	64.5479837 7	2.3096	7.90E- 24	6.17E- 22
3639681	MMS22	907.144546 5	690.972277 7	0.3927	0.00420	0.02324 1 4
3639682	CAALFM_CR00380W A	235.620429 9	161.930395 4	0.54109	0.01026	0.04687 9 6
3639685	LEU1	5026.52851 6	3783.38480 6	0.40988	0.00022	0.00213 7 9
3639688	ACC1	102397.224 9	169507.722 3	-0.72717	5.02E- 10	1.40E- 08

3639700	ALK2	1225.78325 6	400.787442 4	1.6128	3.17E- 30	3.35E- 28
3639701	PCK1	29557.1917 9	55895.0647 6	-0.91921	1.59E- 18	9.68E- 17
3639704	CHT1	273.839771	148.347401 8	0.88435	2.02E- 05	0.00025 9
3639705	ZCF38	2753.59695	2089.98012 1	0.39783	0.00058 9	0.00480 3
3639707	POT1	20327.3546 6	7085.52599 4	1.5205	4.35E- 45	7.92E- 43
3639708	REP1	1365.74285 8	1053.89812	0.37395	0.00319	0.01866 9
3639712	CAALFM_CR00010C A	222.450854 2	520.197106	-1.2256	0.00023 4	0.00218 9
3639713	PXA1	6262.57017 9	4333.44637 9	0.53124	1.16E- 06	2.00E- 05
3639715	CAALFM_CR00310C A	4934.67520 3	3497.50956 1	0.49663	9.18E- 06	0.00013 1
3639717	CAALFM_CR00290W A	4266.73925	5802.76124 1	-0.44361	0.00236 1	0.01480 7
3639722	NA	3260.16806 3	2570.67116 5	0.3428	0.00227	0.01437 2
3639723	CAALFM_CR00490W A	912.315111 7	1186.64565 8	-0.37929	0.00327 4	0.01908 8
3639724	MRPL6	720.821406 1	1026.00216 9	-0.50932	0.00015 3	0.00152 9
3639726	CAALFM_CR00460C A	808.861603 6	1050.58822 8	-0.37723	0.00517 4	0.02734 8
3639728	CAALFM_CR00420W A	1183.66757 5	894.243693 5	0.40452	0.00889 5	0.04194 3
3639734	CAALFM_CR00090C A	3267.04495 5	2533.11439 8	0.36707	0.00125 9	0.00900 3
3639821	MSI3	65370.9698 4	29522.7301 7	1.1468	2.92E- 06	4.61E- 05
3639835	CAALFM_C301110C A	199.5677	106.953657 8	0.89989	0.00011 1	0.00116 9
3639845	ATO2	11645.5872 9	966.962707 3	3.5902	8.23E- 37	1.06E- 34
3639857	BMS1	2534.60819 4	3862.59980 9	-0.60781	8.38E- 08	1.77E- 06
3639859	NA	2072.14040 4	2941.41937	-0.50539	1.28E- 05	0.00017 6
3639864	CAALFM_C105920W A	508.901532 2	278.566862 2	0.86936	1.95E- 07	3.87E- 06

3639875	NA	1492.01887 7	4111.31793 1	-1.4623	1.07E- 35	1.30E- 33
3639876	CAALFM_C105890W A	308.476548 2	20.2624905 3.9283	3.9283	1.00E- 43	1.61E- 41
3639877	NA	1767.05310 9	1322.19974 4	0.41841	0.00052 4	0.00433 8
3639889	PRC3	5723.55494 2	3816.21311 8	0.58477	1.07E- 07	2.24E- 06
3639894	UGA4	283.246493 7	153.904279 5	0.88002	1.44E- 05	0.00019 5
3640077	CAALFM_CR01570W A	249.128503 1	355.321364 2	-0.51223	0.00444 9	0.02426 1
3640085	NA	61.4444527 8	120.592869 6	-0.97279	0.00083 1	0.00638 7
3640089	PTR2	197.050890 9	8.25098912 4.5779	4.5779	7.16E- 35	8.10E- 33
3640100	PRS	763.657424	975.824234 9	-0.3537	0.00852 3	0.04042 5
3640107	CAALFM_CR01950W A	2097.60365	2742.92476 5	-0.38697	0.00096 9	0.00727 3
3640112	NA	5363.31883 7	1950.10683 4	1.4596	3.30E- 37	4.33E- 35
3640134	LYS12	1700.61706	870.585236 2	0.966	2.84E- 14	1.24E- 12
3640136	CAALFM_CR01410C A	429.282067	607.059549 3	-0.49991	0.00124 6	0.00893 2
3640138	CAALFM_CR01430W A	1438.21449 6	2575.81966 2	-0.84075	0.00023 3	0.00218 6
3640149	HEM1	5208.65242 2	7607.23051 1	-0.54646	5.32E- 07	9.84E- 06
3640150	OPT1	1795.20175 4	489.414647 2	1.875	8.67E- 45	1.46E- 42
3640157	CAALFM_CR01780W A	971.015663 9	1224.39132 7	-0.3345	0.01005 9	0.04617 6
3640163	CAALFM_CR01810C A	162.909499 1	101.312452 5	0.68526	0.00534 1	0.02798 2
3640174	NA	813.178345 7	1070.03642 7	-0.39602	0.00259 9	0.01593 3
3640177	ZPR1	14157.7045 4	7268.65871 0.96183	0.96183	6.22E- 06	9.27E- 05
3640179	NMA111	4188.01745 2	5420.43016 2	-0.37214	0.00077 7	0.00605 8
3640182	HMT1	1787.27080 7	2252.41298 7	-0.33371	0.00529 1	0.02781 3

3640193	CAALFM_C101620C A	952.682443 1	447.655484	1.0896	2.59E- 14	1.14E- 12
3640194	CAALFM_C101630W A	3119.57134 9	1333.81684 3	1.2258	3.58E- 25	3.02E- 23
3640195	RPS42	2831.90098 7	3513.14889 2	-0.31099	0.00493	0.02638 1
3640198	NA	344.509337 1	521.601690 6	-0.59841	0.00293	0.01743 2
3640199	LSC1	3734.35173 3	2549.73492 9	0.55051	1.18E- 06	2.03E- 05
3640201	NA	4591.6268 3	2842.04470 3	0.69208	0.00346 7	0.01997
3640203	CAALFM_C101150C A	993.745390 2	1386.77059 5	-0.48078	0.00017 3	0.00169 7
3640204	CAALFM_C101160C A	846.825671 6	1079.18778 3	-0.34981	0.01095 9	0.04951
3640211	NA	6372.95298 2	637.198992 1	3.3221	1.62E- 85	8.86E- 83
3640215	NA	857.450256 7	653.056206 9	0.39285	0.00483 1	0.02593 3
3640222	CAALFM_C101580W A	573.448324 1	853.882999 1	-0.57437	0.00017	0.00167
3640224	MRP20	1140.63692 7	1535.81810 5	-0.42917	0.00050 8	0.00423 7
3640225	NA	4397.32163 1	3105.67845 8	0.50172	8.86E- 06	0.00012 7
3640226	CAALFM_C101490W A	17274.3866 3	13520.4650 2	0.35349	0.00073 2	0.00576 1
3640229	CAALFM_C101510W A	224.058796 7	139.339212 6	0.68528	0.00180 7	0.01204 4
3640235	TRM2	1535.03518 4	1945.36075 4	-0.34177	0.00474 6	0.02558 3
3640244	CAALFM_C603540W A	5117.50592 4	3245.35323 3	0.65707	4.46E- 09	1.14E- 07
3640247	POX1	6124.14881 7	2035.56119 8	1.5891	3.88E- 28	3.69E- 26
3640253	CAALFM_C603470W A	3018.77851 7	2172.59982 8	0.47454	3.55E- 05	0.00042 5
3640257	SAP4	438.585624 3	266.892670 8	0.7166	2.91E- 05	0.00036
3640269	NA	6552.44571 3	4865.26932 1	0.42951	6.72E- 05	0.00074 4
3640273	CAALFM_C603430C A	3598.01111 8	4387.66504 3	-0.28625	0.01011 8	0.04635 1

3640274	NA	1634.91914 9	2140.65790 4	-0.38883	0.00109	0.00804 8
3640281	ALS9	1271.55648 5	1850.11201 8	-0.54102	9.25E- 06	0.00013 2
3640286	CAALFM_C603810W A	886.596592 1	468.672553 6	0.9197	7.74E- 07	1.38E- 05
3640290	SNQ2	11835.4707 3	6934.08221 6	0.77134	5.91E- 13	2.34E- 11
3640293	CAALFM_C603880W A	726.178361 1	217.977028 6	1.7361	1.78E- 09	4.75E- 08
3640295	CAALFM_C603600C A	8288.94741 5	114.951664 4	6.1721	##### #####	##### #####
3640297	CAALFM_C603620C A	1410.95741 8	972.541578 4	0.53684	2.63E- 05	0.00032 8
3640303	CAALFM_C603730C A	1079.79448 5	1366.36843 2	-0.33959	0.00714	0.03528 7
3640306	SHM2	13991.2065 2	9435.98378 1	0.56828	1.14E- 07	2.38E- 06
3640307	ORM1	1530.41932 7	919.473643	0.73505	0.00078	0.00607 8
3640308	CAALFM_C603780C A	4027.68276 4	3171.77419 3	0.34466	0.00242	0.01513 9
3640309	HGT10	21546.2400 4	4565.58533 5	2.2386	7.37E- 13	2.90E- 11
3640392	ATO9	61.4444527 8	7.63346118 4	3.0089	1.23E- 08	2.90E- 07
3640394	ATO10	118.138741 8	26.2120228 7	2.1722	3.07E- 10	8.86E- 09
3640400	NA	1973.69233 2	1420.05127 5	0.47495	0.00036	0.0032
3640402	CAALFM_CR01260W A	1013.64667 1	562.293579 2	0.85016	1.16E- 07	2.41E- 06
3640405	CDC27	940.515338 8	724.452342 6	0.37656	0.00568	0.02949 4
3640406	CAALFM_CR01220W A	2142.38396 8	434.099726	2.3031	1.46E- 15	7.11E- 14
3640407	HSE1	2252.77155 2	1754.63578 7	0.36053	0.00256	0.01579 3
3640408	OYE22	140.576773 1	56.6334309 4	1.3116	0.00144	0.01006 6
3640416	PWP2	2180.91230 5	2709.01869 4	-0.31284	0.00728	0.03577 7
3640422	SLN1	6681.73902 7	8415.64219	-0.33285	0.00180	0.01204 9

3640435	GSY1	24370.3676 5	16151.9781 3	0.59342	1.75E- 06	2.91E- 05
3640511	ERG4	1790.01338 7	1212.99735 3	0.56139	5.33E- 06	8.06E- 05
3640519	DOT5	12308.6538 9	8735.36379 3	0.49473	0.00047	0.00398
3640522	NA	15730.5483 7	32022.2840 1	-1.0255	1.94E- 21	1.40E- 19
3640527	CAALFM_C300270C A	852.173065 9	1117.29887	-0.3908	0.00318	0.01866
3640530	CAALFM_C300730W A	1142.58336 7	881.472371	0.37431	0.00467	0.02527
3640531	PMA1	22584.7412 8	34159.3632 8	-0.59693	2.82E- 06	4.47E- 05
3640547	UTP8	2297.51808 8	3099.17111	-0.43181	0.00020	0.00193
3640553	CAALFM_C300420W A	2398.39628 4	2989.26861 1	-0.31772	0.00590	0.03036
3640557	CAALFM_C300230C A	470.989046 9	204.055851 4	1.2067	8.85E- 12	3.06E- 10
3640558	HGT19	42214.8331 5	13979.4563 6	1.5944	2.43E- 50	6.12E- 48
3640560	CAALFM_C300210C A	2384.36250 4	565.580604 1	2.0758	4.03E- 25	3.34E- 23
3640561	ETR1	5251.81787 7	2563.48919 8	1.0347	1.00E- 10	3.02E- 09
3640564	DAL1	711.757961 2	332.815382 6	1.0967	2.82E- 07	5.45E- 06
3640573	NGT1	251.350157 4	101.872888	1.3029	7.18E- 09	1.74E- 07
3640585	SOF1	2805.57749 7	3545.39128	-0.33765	0.00296 8	0.01757
3640710	NA	3299.00111 5	2535.39473 5	0.37982	0.00072	0.00571
3640722	MRPL3	1542.47420 6	1988.74675 4	-0.36661	0.00205	0.01340
3640723	ERD1	232.411465 3	152.894970 7	0.60414	0.0043	0.02362 6
3640742	GCS1	14875.0821 1	19950.5952 1	-0.42353	0.00266	0.01625
3640745	CAT8	2022.64288 4	1461.19378 3	0.46909	9.47E- 05	0.00101 2
3640746	NTG1	972.273408 3	1325.81446 8	-0.44744	0.00043	0.00373 1

3640748	MLT1	8610.86561 2	7119.98725 9	0.27428	0.01027	0.04687 6
3640750	PLB5	3751.50219 3	2808.20708 2	0.41782	0.00020	0.00193 1
3640751	ADH2	3879.30293 1	545.26539	2.8308	#####	#####
3640756	SDS24	5346.10295 4	6947.62559 1	-0.37803	0.00230	0.01455 8
3640762	DIP2	1758.61161 6	2673.31800 5	-0.60419	3.09E- 05	0.00038
3640767	TKL1	31360.2585 6	22137.8340 7	0.50242	0.00042	0.00365 5
3640939	YDJ1	10357.7338	5322.56188	0.96052	3.29E- 07	6.24E- 06
3640941	QDR1	271.413106 4	686.454565 4	-1.3387	2.27E- 17	1.23E- 15
3640943	NA	21.6206293 8	5.52876857 8	1.9674	0.01096	0.04951 7
3640948	CAALFM_CR04580W A	1270.43914 7	1762.32459 3	-0.47215	0.00010	0.00107 1
3640950	CAALFM_CR04600W A	1752.71461 4	2319.34588 1	-0.40413	0.00057	0.00470 5
3640956	TPO4	2489.55084 1	1057.80005 2	1.2348	0.00263	0.01612 9
3640968	NA	1041.64188 8	1523.55624 2	-0.54858	1.23E- 05	0.00016 9
3640973	EAF7	542.949319 3	708.848110 3	-0.38466	0.00869	0.04115 5
3640974	CAALFM_CR04140W A	1796.02261 6	2342.89102 8	-0.38348	0.00104	0.0077 5
3640976	CAALFM_CR04160C A	1528.83396 6	2144.11620 5	-0.48795	5.37E- 05	0.00061 2
3640977	CAALFM_CR04170W A	2749.48175 9	3505.65859 7	-0.35053	0.00227	0.01437 2
3640983	RBR2	1517.02744	1042.81509 5	0.54076	1.76E- 05	0.00023
3640986	NA	2117.30552 1	344.686338 2	2.6189	4.20E- 34	4.67E- 32
3640989	CAALFM_CR04240C A	5176.09343 1	6919.82547 6	-0.41887	0.00013	0.00140 8
3640995	CAALFM_CR04300W A	3622.63488 1	4502.36197 7	-0.31364	0.00539	0.02826 8
3641004	NA	496.939438 5	693.187659 6	-0.48018	0.00109	0.00803 5

3641012	LAP3	5784.59069 4	3800.77928 8	0.60592	3.55E- 08	7.89E- 07
3641016	FUM11	641.562519 2	410.132941 5	0.6455	2.43E- 05	0.00030 4
3641026	CAALFM_CR04110W A	491.583803 7	743.479777 2	-0.59686	5.09E- 05	0.00058 4
3641104	RCE1	1065.40572 7	1403.13028	-0.39725	0.00157	0.01079 5 6
3641117	MNN22	1467.72669 1	3063.62859 2	-1.0617	1.76E- 06	2.91E- 05
3641126	SAP10	1487.68779 5	1084.59712 5	0.45591	0.00133	0.00941 2 3
3641148	CAALFM_C405010W A	2184.90011	2989.92123 8	-0.45254	0.00010	0.00109 4 9
3641157	SCS7	4989.47331 5	7377.50544 8	-0.56425	1.93E- 07	3.85E- 06
3641165	CAALFM_C404820C A	417.161765	618.536102 9	-0.56825	0.00018	0.00177 3 5
3641180	LYS4	1832.51568 8	1359.04504 6	0.43123	0.00039	0.00342 2 7
3641186	PDB1	9623.67626 1	7712.78133 2	0.31934	0.00278	0.01676 1
3641196	CAALFM_C210470C A	1628.31961 1	1134.24535 3	0.52165	3.05E- 05	0.00037 5
3641197	MDH1-3	5481.86464 1	3103.69231 7	0.82068	1.25E- 13	5.27E- 12
3641212	NA	754.694504	1030.02003 2	-0.44871	0.00631	0.03188 5 9
3641214	JEN2	15166.1330 3	4512.14571 4	1.749	3.20E- 15	1.50E- 13
3641215	NA	246.785062 9	140.322159 7	0.81451	0.00623	0.03156 1 3
3641218	CAALFM_C404010W A	1341.16853 7	870.976143 4	0.62279	1.49E- 06	2.50E- 05
3641221	NA	462.459549 3	731.665913 7	-0.66186	6.99E- 06	0.00010 3
3641243	CAALFM_C210810W A	634.327188	922.555166 9	-0.54041	0.00088	0.00675 7 2
3641258	SGS1	884.443001 7	644.834200 6	0.45584	0.00093	0.00705 4 7
3641344	IFA21	544.773973	390.010123 2	0.48215	0.00194	0.01279 3 4
3641346	CAALFM_C703150W A	305.354268	713.508989 5	-1.2244	3.13E- 15	1.48E- 13

3641349	NA		1214.27666	1641.93110	-0.4353	0.00043	0.00373
		6	9			6	1
3641353	NA		11022.7655	8683.59514	0.34412	0.00150	0.01041
		1	6			8	
3641380	CAALFM_C703030W A	2152.08056	1341.36510	0.68203	3.66E- 08	8.12E- 07	
		5	3				
3641389	IFM1		1040.53757	1345.90568	-0.37125	0.00353	0.02024
		1	3			6	
3641391	NA		575.741501	205.178470	1.4885	3.03E- 18	1.79E- 16
		9	6				
3641400	ERG5		6177.53097	4112.03566	0.58718	7.71E- 08	1.64E- 06
		6	4				
3641536	NA		179.166253	4.93934980	5.1808	2.63E- 35	3.08E- 33
		2	6				
3641539	NA		103.443127	54.1923020	0.93268	0.00251	0.01561
		8	5			5	5
3641540	NAM7		4980.48485	6187.19511	-0.313	0.00374	0.02114
		4	4			6	7
3641542	NA		4796.55887	7028.05293	-0.55113	3.18E- 07	6.05E- 06
		6	4				
3641545	IFG3		2170.69642	2879.72978	-0.40778	0.00265	0.01619
		1	4			4	3
3641547	MET14		3581.73310	4917.38693	-0.45723	0.00200	0.01314
		2	8			8	3
3641548	MRP17		468.692409	631.642114	-0.43047	0.00374	0.02114
		1	3			5	7
3641554	CAALFM_C500350C A	1217.08731	1698.67697	-0.48098	8.04E- 05	0.00087	
		6	6			3	
3641562	NA		457.095674	605.936930	-0.40667	0.00707	0.03497
			1			9	
3641570	HMS1		2317.96369	3041.31136	-0.39184	0.00063	0.00508
		7				2	7
3641571	ERG11		8358.94426	6675.87542	0.32436	0.00254	0.01572
		6	8			2	9
3641572	THR1		497.953610	371.908543	0.42106	0.0092	0.04310
		5	6			9	
3641587	PET9		42554.4169	31693.6361	0.42512	5.00E- 05	0.00057
		5	9			6	
3641593	FAS1		88980.9971	140391.801	-0.65789	3.44E- 10	9.89E- 09
		5	9				
3641597	NA		1080.70335	741.882797	0.54271	4.36E- 05	0.00051
		2					
3641598	CAALFM_C601890C A	1892.30193	2453.99523	-0.37499	0.00139	0.00979	
		6	1			6	7

3641600	FRP5	44.7473560 4	10.5524458 8	2.0842	0.00011	0.00116 3
3641601	FRP6	3587.45245 6	2147.25744 2	0.74046	1.09E- 06	1.89E- 05
3641602	CAALFM_C601420C A	5295.19558 2	3695.48669 2	0.51892	2.60E- 06	4.17E- 05
3641611	PTK2	6876.33079 2	8332.16245 7	-0.27705	0.01023	0.04673 1 6
3641614	CAALFM_C601680C A	177.738599 9	69.5707873 9	1.3532	2.48E- 07	4.84E- 06
3641615	MAE1	2278.91871 4	3140.20992	-0.46251	5.56E- 05	0.00062 9
3641619	TRY5	1770.58887 1	674.891063 2	1.3915	5.08E- 27	4.56E- 25
3641620	CAALFM_C601490C A	294.021046 5	112.509661 8	1.3859	8.92E- 11	2.71E- 09
3641625	CAALFM_C601870C A	2523.32869 5	2048.69531 9	0.30062	0.00998	0.04600 6 2
3641639	NA	1956.05472 7	2431.60605 5	-0.31396	0.00786	0.03796 5 4
3641644	TRA1	14408.6155 3	18424.5825 -0.3547		0.00083	0.00638 1 7
3641646	TIF3	2128.44329 2	2633.74786 2	-0.30732	0.00702	0.03474 5
3641651	NA	602.132236 7	773.734277 -0.36176		0.01101	0.04965 3 2
3641652	CAALFM_C601560W A	738.926215 1	556.095432 8	0.4101	0.00440	0.02404 2 2
3641716	KIP3	796.241135 9	586.262984 7	0.44166	0.00215	0.01381 2 3
3641720	NA	2753.09332 4	2193.59403	0.32776	0.00458	0.02485 1 6
3641724	CAALFM_C305680W A	892.165477 9	693.862279 5	0.36266	0.00895	0.04211 5
3641731	FAA2	3075.83470 4	1656.86159 5	0.89252	2.03E- 14	9.07E- 13
3641740	ZCF35	3401.97307 9	2705.95741 6	0.33023	0.00414	0.02302 9
3641741	MRR1	3840.23668 6	2301.49553 6	0.73862	1.11E- 10	3.31E- 09
3641743	CTA4	8733.51126 5	12724.2407 9	-0.54295	2.60E- 07	5.03E- 06
3641745	CAALFM_C306040W A	564.605050 5	272.952892 5	1.0486	1.85E- 10	5.45E- 09

3641746	CAALFM_C306050C A	698.685450 3	1062.96427 5	-0.60538	6.60E- 06	9.80E- 05
3641747	ELP3	3647.28286 6	4601.22631 1	-0.3352	0.00269	0.01633 8
3641752	DED1	17995.0063	23682.9684 2	-0.39625	0.00013	0.00139 7
3641755	NA	453.332821	713.651282 7	-0.65465	0.00440	0.02404 2
3641758	CAALFM_C305850W A	645.550323 8	473.867506 9	0.44605	0.00273	0.01656
3641759	CAALFM_C305860C A	529.339401	688.221074 3	-0.37868	0.01111	0.04999 5
3641762	GDA1	2276.21337 5	2867.40820 8	-0.33311	0.00544	0.02842 1
3641774	TUB4	128.724765	75.9981755 5	0.76025	0.00574	0.02972 9
3641775	NA	400.209395 2	20.4030363 3	4.2939	4.45E- 46	8.58E- 44
3641776	NA	16813.8161 5	20993.8711 1	-0.32032	0.00221	0.01409 3
3641785	NA	633.308235 6	468.871065 1	0.43372	0.00420	0.02324 4
3641794	GAT1	1729.90644 3	851.719467 1	1.0222	1.67E- 13	6.97E- 12
3641796	NA	3878.05984 7	2681.54263 2	0.53227	0.00153	0.01055 9
3641805	NA	282.829552 3	179.471539	0.65618	0.00086	0.00664 7
3641817	PHO4	1068.11584 6	823.433481 8	0.37534	0.00457	0.02485 6
3641874	NIT2	1233.76924 6	692.599114 5	0.83298	4.43E- 10	1.25E- 08
3641876	NA	12487.8193 2	7726.35820 9	0.69266	3.61E- 10	1.03E- 08
3641877	PEX13	2308.86037	1344.58979 4	0.78001	9.61E- 11	2.91E- 09
3641879	CAALFM_CR09140C A	22003.1674 8	15945.3526 8	0.46458	0.00102	0.00764 2
3641881	ERG13	4044.71753 9	2397.45137	0.75454	2.91E- 11	9.60E- 10
3641892	CAALFM_CR09010C A	5843.67868 5	3991.25564	0.55003	5.31E- 07	9.84E- 06
3641911	CAALFM_CR08920W A	19402.3150 9	4716.41420 7	2.0405	1.24E- 76	5.42E- 74

3641917	LIP7		183.255903	260.689282	-0.50847	0.01087	0.04919
			3			3	1
3641919	NA		2786.52475	1840.99313	0.59798	9.26E-06	0.000132
			9	9			
3641922	SCO1		2297.79066	3191.08184	-0.4738	3.27E-05	0.000397
			2	5			
3641926	NA		738.245760	570.212500	0.3726	0.00947	0.04405
			1	5			
3641928	NA		1125.94823	683.929982	0.71922	0.00103	0.00766
			3	7			
3641929	CAALFM_CR09110C	A	1035.38908	1661.54359	-0.68235	7.40E-07	1.33E-05
			7	4			
3641930	TUB1		4685.32784	3744.88281	0.32323	0.00345	0.01993
			9	1			
3642006	CAALFM_C111890W	A	2365.83811	1871.10272	0.33846	0.00412	0.022889
			4	5			
3642010	CAALFM_C111850W	A	4862.41499	3370.06751	0.5289	0.00486	0.02606
			5	4			
3642011	IRA2		13700.0899	18039.7191	-0.39699	0.00017	0.00171
			1	6			
3642016	NA		825.338529	1140.31081	-0.46637	0.00046	0.00395
			1	7			
3642023	CAALFM_C112240C	A	1282.95166	1686.55478	-0.39461	0.00115	0.00831
			9	6			
3642025	CAALFM_C112070C	A	569.126802	370.027850	0.62112	9.10E-05	0.000978
			4	6			
3642026	NA		306.593391	200.883884	0.60996	0.00140	0.00985
			7	2			
3642030	SER33		4537.15598	6563.78915	-0.53274	8.87E-07	1.57E-05
			6	1			
3642032	KIP4		1155.66757	1827.74745	-0.66134	8.68E-08	1.83E-06
			9	6			
3642039	NA		929.245400	1223.82914	-0.39727	0.00232	0.01463
			6	3			
3642055	PXA2		4902.84743	3494.09509	0.4887	8.67E-06	0.000125
			1	5			
3642062	RIB3		2279.89300	3655.55200	-0.68112	1.92E-09	5.11E-08
			3	3			
3642073	CAALFM_CR08170C	A	770.700765	999.511675	-0.37505	0.00560	0.02914
			5	1			
3642090	ACO1		50476.4032	36389.7787	0.47208	3.69E-05	0.000441
			2	2			
3642097	HSP104		114347.609	51172.9437	1.16	0.00084	0.00645
			2	2			

3642101	NA	1876.38317 9	624.691136 3	1.5867	1.48E- 05	0.00019 8
3642102	CAALFM_CR08280W A	1544.52117 1	789.002073 7	0.96906	8.30E- 06	0.00012
3642108	PEX19	4635.02380 8	2856.16613 9	0.6985	3.48E- 10	9.97E- 09
3642109	CAALFM_CR08610W A	340.624697 8	236.302607 8	0.52755	0.00353	0.02022 9
3642115	CAALFM_CR08400C A	438.672308 7	611.297043 7	-0.47873	0.00165	0.01118 2
3642117	CAALFM_CR08420W A	8213.13510 3	3397.54707 1	1.2734	0.00011	0.00120 3
3642126	CAALFM_CR08670C A	7647.99892 7	1296.68782 9	2.5603	#####	#####
3642127	NA	1589.63652 6	1234.43606	0.36484	0.00323	0.01890 6
3642128	ECI1	14630.4457 2	3166.44655 7	2.208	1.18E- 86	7.02E- 84
3642135	TSR1	2108.92517 1	2786.16585 1	-0.40177	0.00056	0.00461 2
3642136	NA	1686.51307 7	2299.73164 8	-0.44742	0.00017	0.00171 5
3642237	NA	2865.01568 7	2068.32003 5	0.47008	4.10E- 05	0.00048 2
3642244	CYM1	4780.23669 9	5974.01776 3	-0.32162	0.00292	0.0174
3642247	CAALFM_C306700C A	4783.07206 4	5906.99355 2	-0.30449	0.00468	0.02529 5
3642249	FUN31	4621.95821 8	3238.62101 2	0.51312	4.06E- 06	6.24E- 05
3642250	NA	151.686363 2	96.7938664 9	0.6481	0.01008	0.04624 4
3642277	NA	670.258131 7	514.224706 6	0.38232	0.00848	0.04032 3
3642278	JEN1	1694.51208 7	69.2352247 8	4.6132	4.58E- 92	3.00E- 89
3642279	LYS9	5653.41932 3	4163.42928 1	0.44135	5.55E- 05	0.00062 9
3642282	GLG2	1234.65471 1	874.596983 6	0.49742	0.00012	0.00128 9
3642294	CAALFM_C207920W A	477.800516 5	671.945716 7	-0.49194	0.00110	0.00806 5
3642295	GDH2	70612.9347 8	101280.767 4	-0.52036	4.82E- 07	9.01E- 06

3642296	PRS5	3287.75803 8	4273.86235 9	-0.37844	0.00075	0.00588 4
3642303	YVC1	1206.73793 9	802.108958 9	0.58924	6.72E- 06	9.95E- 05
3642307	SIT1	4322.36432 5	13365.5815 9	-1.6286	7.08E- 40	1.06E- 37
3642318	CAALFM_C208170W A	737.199946 5	545.431423 9	0.43466	0.00252	0.01564 4 9
3642323	NA	2271.81951	1688.20448 9	0.42836	0.00609	0.03117 3 8
3642325	NA	556.519355 5	830.002289 5	-0.57668	4.08E- 05	0.00048
3642329	PHM7	22472.1494 5	17343.7993 7	0.37372	0.00037	0.00329 3 6
3642331	ARA1	6492.61216 2	5031.59625 5	0.36778	0.00078	0.00610 7 7
3642335	IFM3	1268.52780 9	475.944090 3	1.4143	1.63E- 24	1.32E- 22
3642336	CAALFM_C208090W A	114.379349	178.572919 4	-0.64269	0.00729	0.03579 5 2
3642339	NA	805.726302 6	1056.03179 6	-0.39029	0.00298	0.01765 5 8
3642341	PDS5	1198.30204 6	909.537851 4	0.39779	0.00241	0.01505 3
3642345	NA	85.1649499	41.5913818 9	1.034	0.00284	0.01701 8 3
3642465	NA	336.153208 3	458.29051	-0.44714	0.00622	0.03156 7 3
3642467	CUE5	4825.89638 2	3768.67831 9	0.35674	0.00130	0.00926 6 9
3642468	NA	14080.0092 2	8012.01207 6	0.81341	0.00637	0.03218 7
3642482	CAALFM_C105360C A	2751.14342 4	3485.61486 4	-0.34138	0.00251	0.01561 6 5
3642483	YPT53	727.974833 2	1267.41103 4	-0.79992	1.40E- 09	3.77E- 08
3642484	ZCF2	4686.08542 8	6176.83419	-0.39848	0.00022	0.00209 8
3642487	MTM1	1200.80369 4	1613.32980 7	-0.42604	0.00051	0.00429 8 8
3642489	CAALFM_C105440C A	11775.8832 1	7748.55848 5	0.60384	1.51E- 05	0.00020 1
3642493	CAALFM_C105420W A	750.711479 7	967.770009 9	-0.36641	0.00619	0.03151 5

3642494	TRP99	4503.99152 4	3215.02488 9	0.48637	1.27E- 05	0.00017 4
3642503	CAALFM_C105540C A	1229.89152 7	1607.35566	-0.38616	0.00160 2	0.01092 6
3642505	NA	190.456132 5	293.160038 4	-0.62223	0.00128 8	0.00918
3642506	RSM22	1209.03111 7	1650.28841 9	-0.44887	0.00721 5	0.03550 8
3642570	RFG1	2931.29434 7	2013.35830 2	0.54193	1.09E- 05	0.00015 3
3642573	CAALFM_CR02680W A	284.193922 3	183.006304 3	0.63498	0.00147 2	0.01019 6
3642577	RPC31	184.805342 6	263.242847 9	-0.51039	0.01044 4	0.04751 1
3642582	CAALFM_CR02780W A	421.790142 5	292.121746 6	0.52996	0.00193 9	0.01278 2
3642584	NA	600.511272 8	340.084298 4	0.8203	5.61E- 05	0.00063 2
3642585	CAALFM_CR02890C A	1251.22656 2	1589.81626 4	-0.34552	0.00576 8	0.02983 9
3642590	CAALFM_CR02950C A	1014.14551 7	1502.14127 6	-0.56676	5.42E- 06	8.16E- 05
3642605	NA	1300.40552 5	1772.48351 1	-0.44681	0.00026 8	0.00245 2
3642612	CFL5	14.597229	45.2113483 3	-1.631	0.00110 4	0.00805 2
3642616	GPR1	6012.57433 1	4642.64554 3	0.37304	0.01091 3	0.04933 6
3642621	CYC3	3083.43275 4	3981.84256 5	-0.3689	0.00103 3	0.00766
3642624	NA	2766.49345 1	1934.66863 6	0.51597	1.15E- 05	0.00016
3642627	NA	1637.50748 2	3159.64763 4	-0.94826	6.56E- 16	3.31E- 14
3642631	TRX2	341.823939 3	155.589082 1	1.1355	6.22E- 09	1.53E- 07
3642636	NA	321.787851 2	443.809770 6	-0.46383	0.00487 2	0.02607 1
3642639	CFL4	83.2419112 1	165.045270 5	-0.98748	0.00203 8	0.01331 4
3642648	CAALFM_C501050C A	381.109035 1	532.548538 4	-0.48271	0.00217 8	0.01394
3642661	PUS4	1691.46347 1	2110.88475 4	-0.31958	0.00728 1	0.03577 6

3642662	NA	467.953451 2	639.333541 2	-0.4502	0.00283 5	0.01697
3642663	CAALFM_C501140C A	1820.51371 2	2341.59975 4	-0.36315	0.00184 5	0.01226 5
3642779	CBF1	554.521333 9	940.604022 9	-0.76234	3.44E- 08	7.68E- 07
3642780	PDC11	15937.9845 5	34610.4611 9	-1.1187	3.38E- 15	1.57E- 13
3642785	XUT1	3003.26896 1	1605.72183 4	0.90331	1.59E- 14	7.19E- 13
3642786	CSO99	3059.16314 9	1744.39079 5	0.81041	4.53E- 12	1.62E- 10
3642790	NA	889.758754 4	667.650256 7	0.41432	0.00294 3	0.01748 2
3642793	CAALFM_C406440C A	634.575540 8	484.614095 9	0.38896	0.00846 0.00846	0.04027 4
3642794	CAALFM_C406430C A	2053.71357 8	1560.73972 7	0.39601	0.00085 2	0.00653
3642817	MPH1	748.784980 9	517.618926	0.53266	0.00023 6	0.00220 3
3642818	CAALFM_C406170C A	1530.11511 2	1907.81359 7	-0.31828	0.00848 9	0.04032 4
3642821	CAALFM_C406140C A	362.477199 1	252.074621 4	0.52404	0.00322 2	0.01883 9
3642902	PDA1	3568.30743 4	2752.78321 8	0.37435	0.00211 6	0.01365 1
3642918	CAALFM_C406790W A	901.733868 9	1188.16005 8	-0.39796	0.00239 6	0.01498 1
3642920	CAALFM_C406770W A	2131.52701 1	1710.35029 4	0.3176	0.00794 4	0.03828 9
3642933	CAALFM_C406910W A	109.829415 5	213.317023	-0.95773	3.03E- 05	0.00037 4
3642939	MSH2	1609.58593 1201.60939	1196.24501 3	0.42818	0.00049 7	0.00416 3
3642947	NOP1	1201.60939 6	1563.46719	-0.37978	0.00213 6	0.01374 3
3642964	MET16	1899.25941 3	3525.74719	-0.89249	5.93E- 15	2.74E- 13
3642965	NA	306.821803 4	1784.47127 1	-2.54	3.70E- 73	1.52E- 70
3642966	CAALFM_C407010C A	718.741479 4	1142.72471	-0.66893	6.32E- 07	1.14E- 05
3642970	ZRT1	85.0548642 5	147.871293 4	-0.79788	0.00219 1	0.01399 7

3642975	UGA6	376.350630 9	224.204157 8	0.74726	0.00110	0.00805 2
3642978	SGT2	8731.07604 6	6797.77704	0.3611	0.00077	0.00601 8
3642985	NA	734.089366 9	385.462554 3	0.92936	8.44E- 10	2.31E- 08
3642987	TOM1	26919.8024 8	32978.0076 9	-0.29284	0.00495	0.02642 7 8
3642989	RNR1	2025.88431	1431.81590 9	0.50071	0.00011	0.00117 3 8
3642993	CAALFM_C203130W A	1086.46422 8	1437.48347 6	-0.4039	0.00137	0.00970 9 5
3642994	AMO1	2000.42370 4	1084.15174 7	0.88374	7.66E- 13	2.99E- 11
3643011	NA	1828.67439 1	2271.83307 6	-0.31306	0.00793	0.03828 9 9
3643012	CAALFM_C202950W A	1741.18034 2	428.304869 6	2.0234	0.00050	0.00419 2 9
3643015	CAALFM_C202930C A	1917.90905	3137.00285 4	-0.70985	8.50E- 10	2.31E- 08
3643026	ALD5	166871.708 2	76205.3285 8	1.1308	3.44E- 11	1.10E- 09
3643029	CAALFM_C202790C A	470.375335 4	249.210107 7	0.91645	1.19E- 07	2.47E- 06
3643032	LHS1	3479.62880 3	2709.13549 9	0.3611	0.00141	0.00988 7 9
3643101	UME1	1865.70619 1	2327.20771	-0.31888	0.00696	0.03455 3
3643115	CAALFM_C703990C A	558.187121 2	748.811781 7	-0.42385	0.00309	0.01820 5 7
3643119	CAALFM_C703780C A	1027.26829	630.633679 1	0.70394	3.18E- 07	6.05E- 06
3643123	UTP18	1851.66203 1	2729.92682 2	-0.56004	0.00037	0.00330 6 8
3643125	FAA2-3	22033.7591 4	3262.03435	2.7559	#####	#####
3643127	CAALFM_C704160W A	373.480163 7	506.337389 3	-0.43907	0.00615	0.03141 6 7
3643129	CAALFM_C704140C A	458.236412 6	642.754996 1	-0.48818	0.00275	0.01663 5 9
3643144	CAALFM_C703860W A	23362.4574 9	16220.0198 1	0.52642	5.77E- 07	1.05E- 05
3643147	NA	300.725890 5	162.155268 7	0.89107	8.58E- 06	0.00012 4

3643148	NA	771.616552 4	482.508529 6	0.67733	3.95E- 06	6.11E- 05
3643149	SLA2	5391.89398 4	4301.33842 1	0.32601	0.00303 9	0.01791
3643150	CAALFM_C703800W A	171.757553 1	110.910060 5	0.63098	0.00841 8	0.04016 1
3643165	CAALFM_C704240C A	1600.27891 2	2615.84828 9	-0.70896	2.42E- 09	6.41E- 08
3643166	NRG1	1854.1818 4	1332.52207 4	0.47662	0.00094 4	0.00711 7
3643179	NA	297.725396 6	199.060283 2	0.58078	0.00273 1	0.01652 9
3643180	KRE1	1649.12629 8	995.131887 5	0.72874	7.11E- 09	1.73E- 07
3643191	SGD1	1377.95330 4	1927.73790 4	-0.48438	6.83E- 05	0.00075 3
3643199	NA	301.948533 2	53.8558657 6	2.4871	5.02E- 16	2.57E- 14
3643200	DEM1	367.597501 8	270.147218 1	0.44438	0.01102 2	0.04965 9
3643201	CIT1	62970.5189 8	19686.8299 2	1.6774	1.20E- 55	3.15E- 53
3643204	CAALFM_CR03530W A	9718.54226 9	8009.98122 6	0.27894	0.00837 8	0.04
3643216	NCS2	2158.92153 7	2885.34288 8	-0.41843	0.00028 3	0.00258 4
3643218	YVH1	819.806065 2	1220.03964 8	-0.57357	3.44E- 05	0.00041 5
3643221	SMC1	770.200599 7	588.928986 9	0.38714	0.00737 7	0.03610
3643222	CAALFM_CR03690W A	4495.80316 5	1951.06079 8	1.2043	5.35E- 26	4.68E- 24
3643285	CAALFM_C114380C A	411.687804 1	577.759886 8	-0.48892	0.00152 4	0.01049 9
3643318	FTR1	4637.10405 4	8086.34235 1	-0.80226	1.86E- 05	0.00024
3643320	SET3	2337.5105 1	1538.79418 1	0.60317	3.40E- 07	6.43E- 06
3643321	NA	711.021143 2	939.874058 3	-0.40257	0.00277 7	0.01675 7
3643327	CAALFM_C114470W A	231.687668 1	324.312284 7	-0.4852	0.00804 9	0.03871 2
3643339	CAALFM_C114020W A	355.316851 8	60.1699435 7	2.562	4.24E- 10	1.20E- 08

3643343	CAALFM_C114050C A	3494.38292 7	4448.48149 -0.34828		0.00173 5	0.01166
3643423	NA	672.880246 1	982.222640 2	-0.5457	5.07E- 05	0.00058 3
3643427	RPC40	1405.97670 2	1952.79745 1	-0.47397	0.00010 3	0.00109 1
3643430	BIO32	1185.55897 2	587.636839	1.0126	1.67E- 08	3.85E- 07
3643436	PEX6	9505.55003 9	3955.76584 6	1.2648	1.70E- 30	1.82E- 28
3643437	NA	241.983316 4	337.473640 8	-0.47987	0.00939 9	0.04374 9
3643440	ITR1	8995.54583 3	6395.02006	0.49226	0.00458 6	0.02485 6
3643442	NA	864.858956 8	1136.77343 1	-0.39441	0.00261 1	0.01597 9
3643446	NA	588.282205 4	870.189960 5	-0.56482	5.55E- 05	0.00062 9
3643451	CAALFM_C205060C A	526.667843 8	738.539553 7	-0.48778	0.00135 6	0.00952 6
3643454	MAK5	1908.20849 2	2470.80990 5	-0.37277	0.00152 3	0.01049 9
3643458	CAALFM_C205130W A	1267.33334 8	922.753678 4	0.45778	0.00039 4	0.00343 3
3643461	CAALFM_C205160C A	3846.67027 7	4856.80758 9	-0.3364	0.00257 8	0.01579 8
3643467	NA	1453.39775 5	1960.29036 6	-0.43164	0.00037 6	0.00330 8
3643468	AAT1	5424.30168 6	2209.45211 9	1.2957	2.28E- 20	1.56E- 18
3643475	NA	192.249144 5	559.573106	-1.5413	3.16E- 18	1.85E- 16
3643482	TPK2	1993.58537 3	1398.05562 6	0.51194	2.02E- 05	0.00025 9
3643487	CAALFM_C207250C A	121.382808 3	184.719215 9	-0.60577	0.00874 4	0.04129 7
3643495	LTE1	517.340885 3	307.051359	0.75264	4.44E- 06	6.81E- 05
3643497	NA	397.660944 4	546.468842	-0.4586	0.00361 7	0.02061 4
3643498	CAALFM_C207030C A	502.865442 5	708.034691 9	-0.49365	0.00073	0.00576
3643500	CAALFM_C207060W A	665.794882 7	861.071082	-0.37105	0.00812 1	0.03894 5

3643501	CAALFM_C207070W A	4294.29330 5	2427.84991 1	0.82274	3.51E- 13	1.40E- 11
3643502	CAALFM_C207080C A	940.393552 6	1287.70076	-0.45346	0.00040	0.00353
3643503	OLE2	1953.75462 9	2516.07834 6	-0.36493	0.00198	0.01300
3643513	CAALFM_C207190C A	1103.59688 7	1585.63498 8	-0.52285	2.35E- 05	0.00029 5
3643515	CAALFM_C206770W A	170.176471 9	108.861586 2	0.64454	0.00814	0.03898
3643516	CAALFM_C206780C A	1620.97765 4	1275.82893	0.34543	0.00558	0.02908
3643518	CAALFM_C206800C A	687.077014 6	446.978243	0.62027	3.82E- 05	0.00045 3
3643521	PRB1	12542.0523 4	9359.16432 4	0.42232	8.34E- 05	0.00090 4
3643531	NA	201.172182 4	84.9510201	1.2437	2.97E- 07	5.69E- 06
3643648	CAALFM_C305320W A	3800.84496 5	5763.05579 4	-0.60051	3.90E- 08	8.56E- 07
3643651	MNN14	1337.46286 6	1750.96222 3	-0.38865	0.00122	0.00876 3
3643652	AT05	73.5131720 4	141.052124 3	-0.94015	0.00055	0.00457
3643653	GTT1	46.9139671 9	4.91124064 2	3.2559	3.15E- 07	6.03E- 06
3643656	NA	21.7424156 2	3.84483975 7	2.4995	0.00344	0.01989
3643662	GAP2	42569.8744 7	14668.1796 4	1.5371	1.00E- 46	2.12E- 44
3643663	BAT22	7807.27081 9	5513.82980 9	0.50176	3.47E- 06	5.41E- 05
3643676	CAALFM_C305360C A	10483.5175 8	6915.15760 7	0.60029	2.56E- 08	5.82E- 07
3643679	CAALFM_C305380W A	3091.04564 5	1983.72569 8	0.63988	2.83E- 08	6.38E- 07
3643734	CCT7	2657.19238 3	2154.72399 5	0.3024	0.00939	0.04375
3643735	CCN1	342.272522 4	237.060681 5	0.52989	0.00528	0.02779
3643736	DAL52	87.4182455 2	44.2573841	0.98202	0.00393	0.02209
3643746	CAALFM_C502070C A	1070.09738 8	1407.51006 7	-0.3954	0.00177	0.01187

3643758	STI1		24549.1484	14595.6047	0.75014	0.00130	0.00926
		2	8			7	9
3643760	FCR3		2800.68856	2039.74334	0.45739	0.00750	0.03654
		6	8			9	4
3643764	NA		5499.98807	4128.92140	0.41366	0.00013	0.00140
			8			9	6
3643769	CAALFM_C502040W A		2357.48890	2986.96890	-0.34143	0.00268	0.01632
		5	2			6	4
3643773	ACH1		32531.7750	23057.2404	0.49663	1.01E-	0.00014
		2	4			05	1
3643780	CAALFM_C209870W A		1593.67459	1272.40747	0.3248	0.00900	0.04233
		3	6			9	8
3643784	IPK2		639.265881	375.416947	0.76792	7.38E-	1.33E-
		3	1			07	05
3643793	NA		1105.23433	1469.22077	-0.4107	0.00112	0.00815
		1	3			4	1
3643795	PMI1		499.042766	370.505706	0.42967	0.00797	0.03840
		3	4			3	3
3643797	CAALFM_C209620W A		1179.45135	902.379624	0.38631	0.00283	0.01697
		9	9			8	4
3643800	NA		745.949615	577.425197	0.36944	0.00951	0.04420
		4	8			5	6
3643808	LEU42		5973.30093	2889.31326	1.0478	6.03E-	1.67E-
		5	2			10	08
3643811	NA		1284.32082	888.092154	0.53222	4.77E- 05	0.00055
			9				
3643816	CAALFM_C209510C A		3877.17620	4795.06615	-0.30654	0.00552	0.02882
		2	3			8	5
3643821	NA		396.244991	260.071754	0.60748	0.00057	0.00467
		7	4				1
3643873	SPO11		204.766446	305.143430	-0.57551	0.00258	0.01585
		8	6			4	9
3643875	APE3		2269.36598	1670.30666	0.44218	0.00241	0.01509
		4	3			9	6
3643876	JEM1		307.123878	218.678010	0.49001	0.00957	0.04431
		8	3			2	3
3643886	NA		789.072548	368.343921	1.0991	3.32E-	1.34E-
		1	8			13	11
3643887	CAALFM_C208700C A		3221.26084	1848.37274	0.80137	6.43E-	2.27E-
		6	4			12	10
3643888	CAALFM_C208690C A		768.536294	385.435318	0.99562	0.00024	0.00224
		2	8			1	7
3643903	NA		272.133443	144.643107	0.91182	9.99E- 06	0.00014
		5	9				1

3643906	UTP15	2356.64942 2	3011.51986 3	-0.35375	0.00209	0.01354
3643907	CAALFM_C208660C A	1298.92282 9	675.000878 8	0.94435	1.25E- 12	4.78E- 11
3643912	NA	1192.84110 6	922.980299 1	0.37003	0.00409	0.02281 2
3643922	NA	763.522617 3	337.389313 3	1.1783	1.24E- 06	2.12E- 05
3643931	CAALFM_C210170C A	6153.07826 1	4190.53468 1	0.55417	0.00415	0.02302
3643941	ACS1	20852.4071 8	7235.31205 4	1.5271	5.60E- 07	1.02E- 05
3643943	NA	298.649424	412.097962	-0.46453	0.00626 9	0.03173
3643945	RAP1	1256.12537 3	934.849507 3	0.42617	0.00102	0.00764 7
3643946	CAALFM_C210070W A	695.251533 9	988.484868 1	-0.50768	0.00651	0.03267 8
3643954	KIP2	239.092908 1	161.846941 5	0.56294	0.00660	0.03311 5
3643955	CAALFM_C210300C A	385.030096 3	180.004739 4	1.0969	3.57E- 09	9.30E- 08
3643960	PUS7	1690.50780 2	2377.82665 3	-0.49219	0.00042	0.00368 2
3644010	CAALFM_C600850W A	2504.7285	1376.56070 1	0.86359	3.86E- 13	1.54E- 11
3644012	ILV5	14082.4444 8	7139.15786	0.98007	6.93E- 20	4.46E- 18
3644015	CAALFM_C601050W A	514.470418 4	704.640472 4	-0.4538	0.00215	0.01381 3
3644017	CAN2	20539.0932 4	11144.0479 2	0.8821	1.32E- 07	2.70E- 06
3644018	CIP1	2329.08152 8	1309.50838 1	0.83074	5.57E- 12	1.99E- 10
3644027	PEX7	1762.26652 4	1147.60434 7	0.61881	6.23E- 07	1.13E- 05
3644028	NA	1877.80787 3	1216.86768 1	0.62588	2.73E- 05	0.00034
3644032	CAALFM_C600930C A	3958.24622 1	2283.11461 3	0.79386	7.94E- 06	0.00011 6
3644035	CAN1	13884.0412 4	7690.17822	0.85234	0.00061	0.00495 1
3644053	FAD2	8859.32454 1	12307.6163 8	-0.47428	8.80E- 06	0.00012 6

3644059	CIC1	481.898406 8	728.575653	-0.59635	0.00329	0.01915 2
3644061	DDR48	12613.5467 3	7274.78301 7	0.794	5.78E- 12	2.05E- 10
3644074	NA	1741.76109 2	615.50905	1.5007	3.73E- 12	1.36E- 10
3644077	ECM17	48675.0164 8	66622.7003 5	-0.45283	1.19E- 05	0.00016 5
3644082	CAALFM_C206140C A	127.120282 7	52.5645915 5	1.274	1.77E- 05	0.00023 1
3644088	MET10	42704.8911 9	55400.6275	-0.3755	0.00620 1	0.03151
3644100	FAA2-1	11697.6947 2	3742.69204 3	1.6441	1.20E- 35	1.43E- 33
3644102	CAALFM_C209280C A	597.638665 6	300.065282 3	0.994	0.00328 1	0.01911 5
3644103	MED18	318.335314 1	220.697501 7	0.52848	0.00517 3	0.02734 8
3644104	NA	537.415535 3	733.377951 7	-0.44852	0.00176 4	0.01183 4
3644105	PES1	1550.11609 8	2147.42609 7	-0.47023	9.19E- 05	0.00098 6
3644113	NA	793.363748 4	538.893346 5	0.55798	0.00022 5	0.00213 3
3644116	SPE2	1217.09555	905.242391 3	0.42707	0.00109 8	0.00804 6
3644121	CAALFM_C500750C A	8819.65150 5	6218.48179	0.50416	3.14E- 06	4.92E- 05
3644123	FOL1	1058.71258 4	657.321810 4	0.68764	4.63E- 07	8.67E- 06
3644126	CAALFM_C500800C A	3428.43187 6	4295.07706 6	-0.32514	0.00340 4	0.01969 9
3644128	NA	528.980962 6	739.634063 8	-0.4836	0.00082 2	0.00634 2
3644138	NA	2475.14182 2	3406.72930 8	-0.46088	5.77E- 05	0.00064 6
3644150	CAALFM_CR08000C A	2527.36940 2	2065.33871 7	0.29126	0.01087 1	0.04919
3644404	NA	3548.76673 1	2609.59567 1	0.44349	7.71E- 05	0.00084 1
3644405	MNN2	1664.18035 1	2083.10298 6	-0.32392	0.00690 3	0.03430 3
3644407	CAALFM_C110710C A	83.5370663 9	45.5486583 1	0.87501	0.00925 8	0.04319 4

3644419	NA	1835.73157 3	2556.76848 7	-0.47797	3.59E- 05	0.00042 9
3644427	CAALFM_C110970W A	783.139623 8	1138.73583	-0.54009	8.87E- 05	0.00095 7
3644432	UBA4	1392.72736 2	2272.65348 4	-0.70646	4.49E- 09	1.14E- 07
3644434	NA	746.173246 8	1143.73489 3	-0.61617	3.06E- 06	4.81E- 05
3644435	CAALFM_C110820C A	1678.60421 1	2098.23285 7	-0.32191	0.00723	0.03557 4
3644440	CDC48	53850.4909 2	41889.5287 6	0.36237	0.00053	0.00440 3
3644441	NA	6168.14665 3	4314.63944 9	0.5156	1.02E- 05	0.00014 4
3644445	CAALFM_C110910C A	892.9842	1154.59479 2	-0.37068	0.00485	0.02600 2
3644449	CAALFM_C110880W A	721.344973	1133.51626 2	-0.65204	1.17E- 06	2.02E- 05
3644450	ADA2	855.130217 6	641.971434 3	0.41364	0.00294	0.01748 5
3644453	RME1	799.787277 7	187.805981 9	2.0904	1.50E- 08	3.53E- 07
3644462	NA	447.677250 7	593.784882 9	-0.40748	0.00680	0.03392 8
3644463	GAP4	10224.6895 2	16772.5455 3	-0.71404	1.35E- 07	2.75E- 06
3644470	CAALFM_C107360W A	2530.92674 4	1666.09640 5	0.60319	0.00199	0.01306 4
3644471	GPX3	610.952108 5	364.669484 4	0.74447	4.57E- 05	0.00053 1
3644482	NA	2635.26275 8	3236.60239 5	-0.29653	0.00952	0.04422 6
3644484	PEX3	2194.08534 1	1483.11384 1	0.56499	2.29E- 06	3.74E- 05
3644530	NA	2541.96531 1	3261.57586 7	-0.35962	0.00159	0.01091 6
3644533	ADK1	7673.95195 9	5546.39887 1	0.46842	2.01E- 05	0.00025 9
3644543	GIN4	753.023278 3	554.353538 3	0.44189	0.00741	0.03622
3644551	NA	4587.85274 7	3409.89253 8	0.42809	0.00014	0.00145 5
3644558	CAALFM_C601950C A	328.020711	450.012285 4	-0.45618	0.00532	0.02795 7

3644560	NA	310.289501 3	504.736914 2	-0.70192	1.63E- 05	0.00021 6
3644563	GPD2	13144.0542 4	29206.2571 9	-1.1519	1.04E- 23	8.03E- 22
3644566	CAALFM_C102270C A	2551.81583 6	603.186600 4	2.0808	2.51E- 59	6.87E- 57
3644569	CAALFM_C102300W A	350.333495 9	244.467522	0.51909	0.00480	0.02580 4 8
3644573	TIM21	402.973236 9	559.264778 9	-0.47285	0.00208	0.01351 2 1
3644576	CAALFM_C102370C A	388.616120 3	249.154763	0.6413	0.00030	0.00278 7 5
3644579	HGT2	91.7280666 4	38.6732708 8	1.246	0.00845	0.04027 5 4
3644580	SHA3	9235.75853 4	15743.6939 7	-0.76947	0.00503	0.02673 5 9
3644592	ABP140	286.061918 1	392.394160 1	-0.45598	0.00805	0.03872 8 8
3644598	NA	4143.96999 1	6092.34776 9	-0.55598	3.44E- 07	6.49E- 06
3644682	CAALFM_C103790C A	3034.53988 5	3742.85545 6	-0.30266	0.00747	0.03644 3 8
3644702	ERB1	2546.83380 1	3615.57959 5	-0.50552	8.55E- 06	0.00012 4
3644703	NA	71.1614913 6	29.1591167 2	1.2871	0.00093	0.00705 5 7
3644705	HHF1	1182.91081 6	884.305280 8	0.41972	0.00145	0.01009 6 7
3644710	ACS2	18299.7348 4	12809.7871 9	0.51458	1.09E- 06	1.89E- 05
3644711	SSA2	43613.2192 7	10897.7985 5	2.0007	1.59E- 07	3.21E- 06
3644715	HTA2	2610.80758 3	1920.46811 4	0.44304	0.00058	0.00478 5 7
3644716	CAALFM_C104180W A	1206.41460 2	950.706722 1	0.34365	0.00892	0.04203 6 3
3644718	CAALFM_C104200C A	1314.44408 6	1007.11964 8	0.38422	0.00233	0.01468 9 1
3644721	NA	598.648057 2	1036.78036 1	-0.79233	7.47E- 09	1.79E- 07
3644760	DUR3	177.078086 1	61.3206719 5	1.5299	8.63E- 09	2.07E- 07
3644761	CAALFM_C104640W A	2412.52366 9	1401.02296 6	0.78406	7.05E- 11	2.19E- 09

3644769	PIL1	23134.4220 9	15883.8921 9	0.54248	0.00224	0.01428
3644771	DUR1%2C2	17354.6794 5	7350.65595 3	1.2394	6.03E- 21	4.16E- 19
3644776	ERG3	3904.43724 1	3009.22102 7	0.37572	0.00078	0.00609
3644777	SYG1	1291.13228 9	808.219283	0.67582	0.00025	0.00236
3644778	IFE1	285.51495	126.878838 3	1.1701	3.08E- 08	6.91E- 07
3644780	LPG20	3163.57578 6	1545.55975 3	1.0334	1.65E- 17	9.09E- 16
3644790	RPM2	18473.597	11798.1718 3	0.6469	0.01045	0.04752
3644840	CAALFM_CR06070W A	3961.54797 1	2048.16823 4	0.95173	1.03E- 16	5.32E- 15
3644841	NA	8684.35734 2	3400.33162 5	1.3527	1.84E- 05	0.00023
3644846	CAALFM_CR06330C A	394.979006 8	530.416610 4	-0.42535	0.00744	0.03637
3644863	NA	6758.01654 1	5377.80485 7	0.32958	0.00223	0.01419
3644869	ZCF19	391.805143 9	175.540624 4	1.1583	1.72E- 06	2.86E- 05
3644870	NA	727.381062 7	511.303100 9	0.50853	0.00046	0.00395
3644911	NA	2429.39709 4	1228.24402 9	0.984	0.00902	0.04236
3644915	OPT2	835.696140 5	339.580080 8	1.2992	5.34E- 18	3.08E- 16
3644918	OPT3	4467.89363 1	1415.28058	1.6585	7.85E- 11	2.42E- 09
3644926	CAALFM_CR02420W A	173.440479 4	255.692840 5	-0.55997	0.00836	0.03997
3644933	ERG25	3227.88856 6	1605.30543 8	1.0077	8.99E- 18	5.00E- 16
3644934	IDP2	15095.5054 4	7362.79896 1	1.0358	6.13E- 11	1.92E- 09
3644941	NA	655.589378 9	280.869192 7	1.2229	3.47E- 13	1.40E- 11
3644946	PHO113	283.851964 8	156.879482 6	0.85548	2.34E- 05	0.00029
3645002	RCH1	487.324245 1	241.155882 7	1.0149	3.99E- 09	1.02E- 07

3645003	NA	67.8857832 8	113.183408 1	-0.73748	0.01064	0.04825 4
3645005	FRP1	1964.25396 8	2876.84065 6	-0.5505	2.18E- 06	3.56E- 05
3645006	NA	1143.71932 5	2174.95575 5	-0.92725	1.70E- 14	7.63E- 13
3645007	RBT5	2076.37606 1	4687.98243 4	-1.1749	3.06E- 25	2.61E- 23
3645022	MEP2	1890.66581 2	606.579072 5	1.6401	3.50E- 36	4.41E- 34
3645026	PEX5	10160.2326 9	7664.11954 6	0.40674	0.00016	0.00159 1
3645027	CAR2	15689.8791 4	10768.4831 4	0.54302	2.92E- 07	5.62E- 06
3645099	IME2	20.9835166 8	4.93934980 6	2.0869	0.00999	0.04601 7
3645100	IFR2	3776.40067 1	2197.02160 1	0.78146	8.29E- 12	2.88E- 10
3645101	CAALFM_CR03270W A	286.073618 7	180.089066 9	0.66768	0.00073	0.00576 3
3645104	NA	156.389724 6	263.637249 9	-0.75341	0.00079	0.00617 6
3645105	NA	1458.57656 1	1965.93594	-0.43066	0.00040	0.00349 3
3645111	HGT18	416.174454 3	236.077734 5	0.81793	3.82E- 06	5.92E- 05
3645121	CAALFM_CR03130W A	523.672130 2	363.545991 5	0.52653	0.00092	0.00698 2
3645124	CAALFM_CR03110W A	729.857989 8	954.185269	-0.38665	0.0041	0.02281 5
3645128	NA	687.592341 1	523.147694 6	0.39434	0.00675	0.03373 3
3645140	KTI12	654.284832 1	841.030843 8	-0.36224	0.01002	0.04607 3
3645199	NA	2134.05338 1	3191.35769 5	-0.58057	4.87E- 07	9.07E- 06
3645201	CAALFM_C207430C A	523.750574 2	705.508361 8	-0.42978	0.00301	0.01780 3
3645203	CAALFM_C207410W A	3230.55270 3	2201.87400 2	0.55305	2.39E- 05	0.00029 9
3645204		32254.6803 4	24818.2886 1	0.3781	0.00029	0.00266 3
3645212	NA	1636.66535 9	1291.69226 1	0.3415	0.00475	0.02559 2

3645216	CAALFM_C207580W A	598.601254 9	257.096551 4	1.2193	1.12E- 13	4.72E- 12
3645217	RNR22	942.071698 6	1305.55547 3	-0.47075	0.00022	0.00211 3
3645224	NOC4	2651.54555 4	3771.13882 1	-0.50817	0.00019	0.00192 2
3645261	KIP1	422.317169 5	267.087687 6	0.66101	0.00013	0.00140 6
3645271	CAALFM_CR07170W A	5832.13781 3	1555.63521 7	1.9065	1.33E- 60	3.81E- 58
3645278	GST3	1231.91773 1	767.307763 2	0.68303	1.96E- 07	3.88E- 06
3645338	NA	15646.6093 4	10356.5016 8	0.59531	0.00044	0.00379 9
3645339	GAD1	16767.8406 9	23763.7369 9	-0.50306	0.00013	0.00140 6
3645348	PHO84	5770.81104 8	8721.10443 2	-0.59574	0.00621	0.03154 1
3645350	CAALFM_C403810W A	943.822688 5	685.497106 4	0.46137	0.00078	0.00609 3
3645360	CAALFM_C403710C A	1025.67682 9	587.748402	0.80331	4.79E- 08	1.04E- 06
3645361	CAALFM_C403700W A	1290.40503 2	788.410907 6	0.7108	5.32E- 08	1.15E- 06
3645369	NA	902.964752 1	596.560700 7	0.598	4.65E- 05	0.00053 9
3645375	ECM38	686.970389 1	137.712375 8	2.3186	1.32E- 39	1.84E- 37
3645413	CAALFM_C101750W A	3303.69013 6	2462.50007 7	0.42395	0.00022	0.00215 8
3645414	CTN1	65650.2013 5	15580.0773 3	2.0751	2.45E- 18	1.46E- 16
3645419	HSP30	13644.6078 4	7066.02594 6	0.94936	0.00427	0.02349 9
3645420	HGT1	1586.20047	5195.65668	-1.7117	9.66E- 12	3.32E- 10
3645432	CAALFM_C101840C A	2884.66861 5	2165.83862 4	0.41348	0.00035	0.00313 1
3645436	UGA2	4987.57763 8	3951.40615 3	0.33597	0.00216	0.01385 5
3645441	NA	187.278809 5	304.918557 3	-0.70324	0.00026	0.00244 2
3645448	NA	770.909236 2	1186.47263 5	-0.62205	2.45E- 06	3.95E- 05

3645452	CAALFM_C204340C A	361.52153	89.4968416	2.0142	2.63E- 21	1.88E- 19
3645464	CAALFM_C204480W A	2482.70873 1	769.891185 3	1.6892	1.12E- 24	9.21E- 23
3645465	ADH3	687.182319 9	31.9094464 3	4.4286	9.97E- 40	1.45E- 37
3645466	LYS22	3374.93699 1	1868.68970 6	0.85283	2.37E- 13	9.70E- 12
3645577	NA	628.594493 9	854.332745 7	-0.44267	0.00451	0.02455
3645628	CAALFM_C303840C A	1634.91914 9	2123.28891	-0.37708	0.00161	0.01099
3645631	NA	768.879572	1023.33441 9	-0.41245	0.00185	0.01229
3645644	GTT11	1974.20501 8	1200.33846 7	0.71783	5.24E- 09	1.31E- 07
3645645	NA	4218.80469 1	3020.20122 7	0.48219	1.47E- 05	0.00019 8
3645648	CAALFM_C303680W A	2037.17204 9	2540.29549 1	-0.31843	0.00589	0.03036 5
3645649	CAALFM_C303670W A	1052.65655 3	1495.28962 9	-0.50639	0.00242	0.01513 5
3645652	NA	699.594316 9	932.520815	-0.41462	0.00254	0.01572 4
3645653	DAL9	3209.66543 1	1029.34541 2	1.6407	7.27E- 42	1.11E- 39
3645657	CAALFM_C303930W A	537.061877 2	724.479578 1	-0.43186	0.00266	0.01624 4
3645658	HTA1	2459.85111 7	1972.33085	0.31867	0.00662	0.03316 3
3645724	ALS2	1475.43746 6	4451.93368 2	-1.5933	1.20E- 42	1.87E- 40
3645732	MIS11	6233.22493 4	4275.24582 4	0.54397	5.44E- 07	1.00E- 05
3645739	SPS20	2654.66305 4	736.182752 3	1.8504	7.44E- 28	6.77E- 26
3645741	NA	916.224472 4	1292.83774 7	-0.49677	0.00010	0.00114 9
3645745	NMD5	3366.35163 1	4367.17767 9	-0.37552	0.00080	0.00621 3
3645747	NA	640.571748 4	892.472816 1	-0.47845	0.00051	0.00429 7
3645748	RLP24	1051.90243 4	1340.68698 9	-0.34997	0.00615	0.03141 9

3645749	CSP2	83.1634672 2	166.393636 7	-1.0006	9.15E- 05	0.00098 3
3645750	CAALFM_C400710W A	552.434486	365.033156 2	0.59778	0.00013	0.00137
3645751	NA	686.152987 2	468.448553 9	0.55064	0.00021	0.00209 3
3645754	TOK1	2011.18787 6	2769.49958 6	-0.46158	7.85E- 05	0.00085 5
3645755	CAALFM_C400660W A	441.687963 4	627.489821 1	-0.50656	0.00067	0.00538 4
3645758	MLH1	346.043615 9	247.779161 3	0.4819	0.00785	0.03794 2
3645759	CAALFM_C400780C A	2910.65064 8	2236.41784 7	0.38015	0.00100	0.00747 1
3645783	CAALFM_C208990C A	1869.35895 9	2338.31884 5	-0.32293	0.00584	0.03013 3
3645784	NA	1355.59717 7	2341.74292	-0.78865	5.10E- 11	1.61E- 09
3645790	ASN1	4458.59057 5	5602.25588 1	-0.32942	0.00250	0.01556 3
3645791	CAALFM_C209050C A	2786.36095 1	2169.53942 4	0.36099	0.00198	0.01302 5
3645797	CAALFM_C208920W A	3393.64249 1	4259.96929 1	-0.32801	0.00268	0.01632 7
3645873	CAALFM_C602290C A	1519.07358 5	1934.69412 4	-0.34891	0.00450	0.02454 5
3645881	CAALFM_C602350C A	1616.47238 3	2259.25502 3	-0.483	0.00211	0.01365 6
3645882	CAALFM_C602370C A	817.181310 3	1083.84079 9	-0.40742	0.00870	0.04116 7
3645883	CAALFM_C602380W A	2536.94685 3	3435.51601 6	-0.43743	0.00011	0.00115 8
3645884	CAALFM_C602410W A	2723.08970 5	1689.86205 6	0.68834	4.71E- 09	1.18E- 07
3645886	CAALFM_C602140W A	434.362487 6	319.596934 5	0.44265	0.00766	0.03717 7
3645890	SWD3	327.148266 3	223.981031 9	0.54657	0.00316	0.01856 3
3645896	NA	834.433615 6	614.693010 5	0.44093	0.00169	0.01141 5
3645903	DBP7	3030.31328 9	4269.20060 6	-0.4945	1.15E- 05	0.00015 9
3645905	GCN3	704.486207 9	900.780897 3	-0.3546	0.01022	0.04672 1

3645909	CAALFM_C701280C	425.447690	642.281508	-0.59422	0.00010	0.00108
	A	2	7		2	7
3645914	CAALFM_C701170C	692.562676	430.253138	0.68676	5.21E-06	7.90E-05
	A	1	8			
3645951	NA	2788.94582	2191.51657	0.34779	0.00256	0.01579
		4	3		9	8
3645955	CAALFM_C604510C	346.507359	492.641959	-0.50765	0.00167	0.01131
	A	6	1		7	7
3645970	CAALFM_C604530C	1655.24083	2085.60208	-0.33342	0.00495	0.02642
	A	2	1		9	8
3645986	CAALFM_C604480C	973.912992	1349.86732	-0.47095	0.00020	0.00198
	A	4	8		7	6
3646024	FRE7	8267.54085	4140.86620	0.99753	5.73E-20	3.72E-18
		7	7			
3646025	NA	5701.37136	2899.05054	0.97573	8.74E-13	3.39E-11
		4	2			
3646026	HGT16	1626.46595	777.832099	1.0642	2.41E-06	3.90E-05
		6	9			
3646028	CAALFM_CR07250C	7610.75355	4370.68608	0.80018	3.33E-08	7.46E-07
	A	7	2			
3646030	CLG1	8877.13319	10907.5323	-0.29716	0.00462	0.02503
		4	7		9	1
3646039	MRPL8	543.503207	820.600572	-0.59439	2.76E-05	0.00034
		7			3	
3646083	NA	680.135518	881.077969	-0.37345	0.00559	0.02912
		4			8	
3646084	NA	3223.97706	4315.67337	-0.42074	0.00016	0.00162
		6	2		4	3
3646085	NA	543.684817	724.705325	-0.41462	0.00479	0.02579
		1	1		7	3
3646086	CAALFM_C600390W	1069.71208	1396.78721	-0.38489	0.00229	0.01446
	A	8	9		1	2
3646130	CAALFM_C104560W	1355.09009	986.909881	0.4574	0.00031	0.00286
	A	1	2		6	4
3646133	NA	1838.92191	2412.35025	-0.39158	0.00081	0.00627
		7	2		1	5
3646140	CAALFM_C104460C	6534.33876	1510.45285	2.1131	2.70E-38	3.61E-36
	A	4	2			
3646142	NA	540.140815	258.640808	1.0624	2.26E-10	6.59E-09
		1				
3646146	ICL1	164151.576	72579.8490	1.1774	7.52E-18	4.22E-16
		8				
3646235	CAALFM_C703550C	34.7785045	10.3556817	1.7478	0.00343	0.01982
	A	1	3		4	

3646236	NA	2997.66579 3	1775.84350 5	0.75534	0.00033	0.00300
3646282	NA	132.33073 6	36.5958137 6	1.8544	4.33E- 09	1.10E- 07
3646288	PEX11	8127.47066 9	3458.98644 6	1.2325	5.82E- 29	5.62E- 27
3646293	GLE2	1217.59571 6	1603.45809 7	-0.39715	0.00145	0.01007 5
3646345	NA	415.69901 7	582.727345 7	-0.48728	0.00160	0.01092
3646347	NA	401.817337 7	579.471924 8	-0.5282	0.00063	0.00508
3646348	FUR1	636.427055 7	839.152771 9	-0.39894	0.00438	0.02403
3646354	ZCF13	3079.68770 2	1669.07160 8	0.88374	3.63E- 14	1.57E- 12
3646359	TEF4	91.5278364 1	41.8443643 7	1.1292	0.00188	0.01249
3646393	CRG1	2834.36143 3	1862.77614 6	0.60557	0.00826	0.03950
3646398	FDH1	15463.0704 8	27477.5384 7	-0.82943	3.06E- 12	1.13E- 10
3646407	CAALFM_C103870C A	447.220427 2	201.332757 1	1.1514	0.00131	0.00932
3646425	KTR4	1407.67824 9	1126.19025 4	0.32187	0.01107	0.04983
3646427	CSH1	1032.36651 2	607.204463 6	0.7657	0.00216	0.01388
3646429	CAALFM_C104040C A	2043.83141 1	2582.78461 9	-0.33765	0.00403	0.02254
3646490	NA	578.325054 4	788.382798 4	-0.44702	0.00158	0.01084
3646495	NA	191.521887 2	308.455069 9	-0.68755	0.00033	0.00304
3646501	PCL2	60.0601417 3	26.6608958 1	1.1717	0.00565	0.02934 6
3646505	GCV2	22683.0564 7	12573.4251 7	0.85124	1.34E- 15	6.57E- 14
3646508	VCX1	1012.87739 2	680.141361 2	0.57455	0.00194	0.01281
3646509	ERG1	2454.80019 9	1820.03054 1	0.43164	0.00045	0.00389
3646528	NA	23195.1249 5	16922.0475 8	0.45492	1.45E- 05	0.00019 5

3646557	RTS1	3521.81468 8	2809.04336 7	0.32624	0.00418	0.02320 5
3646567	RTA2	1663.80329 2	1006.63742 4	0.72494	6.86E- 09	1.68E- 07
3646614	NMD3	2527.34600 1	3303.05830 7	-0.38618	0.00081	0.00629 4
3646616	CAALFM_CR06740W A	267.485125	177.254409 7	0.59364	0.00296	0.01754 5
3646618	LSC2	7441.83036 8	4861.54128 6	0.61424	1.55E- 08	3.63E- 07
3646659	CAALFM_C107640C A	873.135321 3	534.400248 6	0.70828	0.00357	0.02039 4
3646661	BBC1	5419.56454 3	4220.82428	0.36065	0.00111	0.00806 5
3646674	PRY1	23.0716838 3	3.36785764 3	2.7762	0.00088	0.00675 2
3646680	CAALFM_CR05910W A	800.390608 9	1081.62541 7	-0.43442	0.00105	0.00773 7
3646688	SDA1	1052.03592 1	1527.56624 2	-0.53805	1.85E- 05	0.00024
3646692	DBP8	1619.54440 1	2140.60430 6	-0.40243	0.00140	0.00985 5
3646693	MTG2	715.705883 7	963.194331 9	-0.42846	0.00179	0.01200 2
3646695	CAALFM_CR05760C A	247.634106 4	138.637357 2	0.83689	8.58E- 05	0.00092 9
3646696	CAALFM_CR05750W A	8726.37399 9	6539.05191	0.4163	0.00010	0.00110 4
3646711	CAALFM_C703470W A	279.180245	424.809571 4	-0.60562	0.00042	0.00367 7
3646716	NA	180.243708 5	112.285662 2	0.68278	0.00380	0.02144 7
3646721	CPY1	19718.3559 1	15499.2372 4	0.34734	0.00085	0.00654 3
3646722	NA	289.581198 7	149.919767 7	0.94978	3.38E- 06	5.28E- 05
3646723	PRR2	382.733458 5	258.051389 3	0.56868	0.00119	0.00860 2
3646724	SHM1	6056.45238 3	4719.36042 7	0.35988	0.00089	0.00679 3
3646726	CAALFM_C703310W A	781.525580 8	120.704432 6	2.6948	2.04E- 26	1.81E- 24
3646807	CAALFM_C403410W A	1030.16215 9	1404.89678 9	-0.44759	0.00204	0.01331 5

3646814	NA	383.047234	827.757924	-1.1117	3.96E-	1.70E-
		5	8		14	12
3646825	CAALFM_C112610W	1012.70748	1337.93578	-0.40179	0.00160	0.01094
	A	3	5		9	8
3646827	CAALFM_C112810W	728.792235	535.158322	0.44554	0.00223	0.01421
	A	1	3		6	4
3646831	CAALFM_C112700W	364.883922	504.484805	-0.46737	0.00372	0.02105
	A	6	4		7	
3646835	CAALFM_C112660W	942.563623	732.309803	0.36414	0.00813	0.03895
	A	8	4		7	
3646841	FRE10	1137.68323	4367.58985	-1.9407	1.81E-	0.00023
		6	7		05	5
3646842	COX11	1368.06635	1951.28217	-0.51228	2.13E-	0.00027
		7	7		05	1
3646847	CAALFM_C404270W	442.113145	306.519032	0.52844	0.00161	0.01097
	A	3	3		5	9
3646852	CAALFM_C404350W	563.519354	739.101737	-0.39131	0.00613	0.03135
	A	7			2	4
3646855	CAALFM_C404250W	2204.80485	1619.09043	0.44547	0.00016	0.00162
	A	1	8		5	8
3646908	CAALFM_C206200C	651.933151	905.633298	-0.4742	0.00061	0.00495
	A	4	5		2	1
3646909	NA	1586.12548	1242.04490	0.35279	0.00385	0.02169
		6	7		9	4
3646918	NA	1426.73526	1801.30706	-0.33633	0.00577	0.02987
		7	5		8	
3646920	MAK16	196.457120	296.694803	-0.59477	0.00186	0.0124
		4	6		9	
3646951	CAALFM_C405390W	529.221074	330.318909	0.68001	6.06E-	0.00067
	A	9	1		05	4
3646962	OFD1	1268.60065	2083.43767	-0.71573	4.74E-	1.19E-
		3	5		09	07
3646970	NA	183.015790	269.192380	-0.55667	0.00431	0.02368
		7	2		4	1
3646989	CAALFM_C503690W	1249.68058	940.069948	0.41072	0.00144	0.01005
	A	2	7		4	3
3647043	CAALFM_C501440C	894.466896	586.125933	0.60982	2.19E-	0.00027
	A	1	6		05	8
3647044	PRC2	4106.74324	2058.69431	0.99627	1.72E-	5.79E-
		2	8		11	10
3647045	NA	462.699661	306.237066	0.59543	0.00036	0.00320
		6	9		1	5
3647050	CAALFM_C501470C	290.658654	179.526883	0.69513	0.00050	0.00420
	A		6		3	2

3647052	SEF2	865.704540 2	624.656037 6	0.47081	0.00072	0.00572 6
3647061	GLR1	3898.12461 7	3078.65913 2	0.34048	0.00226	0.01437 2
3647069	CAALFM_C600800C A	2411.69456 7	1828.55650 6	0.39934	0.00070	0.00562 1
3647071	COX15	2931.84131 6	3821.09712 3	-0.38218	0.00058	0.00480 3
3647077	CTR1	7605.70295 7	4426.01600 7	0.78107	8.83E-	3.41E- 11
3647080	CAALFM_C600760W A	4121.68966 7	2726.51585 1	0.59618	0.00523	0.02761 9
3647083	FAT1	9433.52748 5	4709.75233 5	1.0021	2.72E-	1.82E- 18
3647085	SSF1	445.463837 2	645.842635 8	-0.53587	0.00037	0.00331 9
3647087	PCD1	1309.53571 4	771.012057 2	0.76423	5.62E-	1.39E- 07
3647088	CAALFM_CR09700W A	1107.97345 1	609.194098 5	0.86295	2.59E-	5.03E- 06
3647090	RTA4	149.039527 3	80.9375253 5	0.88081	0.00092	0.00702 3
3647095	CAALFM_CR09590W A	1309.18765 5	720.160377 3	0.86228	0.00172	0.01159 4
3647097	CAALFM_CR09580C A	5673.91683 3	3356.66992 7	0.75731	0.00207	0.01351 1
3647103	CAALFM_CR09520C A	1358.72983 8	1049.57804 6	0.37245	0.00380	0.02144 7
3647131	FET34	1338.24648 7	6183.81502 5	-2.2082	2.61E-	2.60E- 27
3647137	NA	3844.63501 3	1842.92830 3	1.0608	2.51E-	6.60E- 08
3647139	SLY41	1999.86157 5	2549.63924 3	-0.35039	0.00256	0.01579 8
3647152	FET99	1985.92486	560.414633 6	1.8252	5.11E-	8.37E- 42
3647153	FET3	657.717428 2	861.685115 2	-0.38969	0.00478	0.02576 7
3647181	GLY1	6224.96322 9	11191.6351 4	-0.84628	2.20E-	9.75E- 13
3647183	CAALFM_C110460W A	2662.87003 4	3349.41951	-0.33093	0.00311	0.01833 2
3647184	CAALFM_C110470W A	2492.88341 2	3455.61771 5	-0.47113	3.31E-	0.00040 1

3647194	GCA2	5060.70928 9	1768.64303 9	1.5167	1.30E- 10	3.84E- 09
3647225	CAALFM_C503850W A	856.813144 2	1194.13595 2	-0.47891	0.00023	0.00220 3
3647227	CAALFM_C503830C A	337.317348 1	469.488593 9	-0.47698	0.00362	0.02062 4
3647233	CAALFM_C503770C A	1146.15769 4	2739.82037 4	-1.2573	4.45E- 08	9.70E- 07
3647240	CAALFM_C503710C A	1089.61122 9	695.856282 9	0.64695	5.82E- 05	0.00065 1
3647241	AAT21	17762.1368 7	8969.27886 9	0.98574	2.57E- 20	1.74E- 18
3647255	CAALFM_CR07670W A	776.818759 3	1051.34368 1	-0.43658	0.00088	0.00675 8 2
3647298	NA	12759.6493 7	5977.46193 4	1.094	4.50E- 17	2.40E- 15
3647300	MNT4	455.349464 4	333.908145 3	0.44752	0.00773	0.03749 8 1
3647308	LYS5	221.133286 6	146.636237 5	0.59267	0.00594	0.03054 1 5
3647309	CAALFM_CR04880W A	1352.86711 7	937.513762 1	0.52911	4.52E- 05	0.00052 6
3647310	CAALFM_CR04870C A	398.750100 3	157.160574 2	1.3432	1.34E- 12	5.08E- 11
3647320	ARO10	2601.33147 6	929.121353 5	1.4853	5.36E- 05	0.00061 2
3647322	CAALFM_CR06840W A	1834.79024 5	2310.08208 8	-0.33233	0.00503	0.02673 8 9
3647326	HHT2	980.656398 3	557.245287 5	0.81544	3.82E- 05	0.00045 3
3647327	HHF22	514.407134 7	381.253169 1	0.43216	0.00697	0.03456 7 8
3647343	YHB5	1407.36661 3	1846.85310 2	-0.39207	0.00102	0.00764 7 2
3647350	CAALFM_CR07750C A	2473.82557 5	3056.34816 7	-0.30507	0.00905	0.04250 9 7
3647353	YHB1	21426.2039 8	52949.8168 5	-1.3052	1.22E- 22	8.99E- 21
3647393	NA	2654.05362 2	1310.96481 5	1.0176	2.83E- 17	1.52E- 15
3647395	ZCF16	6631.60093 4	3937.38492 2	0.75212	1.01E- 11	3.45E- 10
3647396	CTN3	17327.5158 3	6243.47083 8	1.4726	7.16E- 20	4.56E- 18

3647397	AAP1	243.064231 8	95.7845576 2	1.3435	2.30E- 06	3.74E- 05
3647399	CAALFM_C303980C A	177.208112 8	106.336129 8	0.73681	0.00423	0.02338 9
3647407	ALD6	10166.3126 2	3429.93976 6	1.5675	1.58E- 45	2.96E- 43
3647448	CAALFM_C503920C A	612.923269 8	794.190911 3	-0.37378	0.00850	0.04036 4
3647453	CAALFM_C307940W A	2340.86679 2	2935.22297 1	-0.32643	0.00443	0.02417 7
3647473	NA	448.664561 4	1053.20063 3	-1.2311	3.26E- 18	1.89E- 16
3647474	IDP1	1206.50952 7	802.052740 5	0.58907	7.23E- 06	0.00010 6
3647478	NA	4216.63544	2283.84894 6	0.88463	7.16E- 15	3.28E- 13
3647480	NA	375.690117	157.553228 8	1.2537	6.57E- 11	2.05E- 09
3647484	NA	1197.60297	1514.96532 2	-0.33914	0.00616	0.03143 7
3647519	NA	647.291753 1	401.179223 3	0.69017	8.63E- 06	0.00012 4
3647523	CAALFM_C106270W A	496.212181 2	653.620137 5	-0.3975	0.00862	0.04087 4
3647531	RHD1	1342.58316 9	554.070699 2	1.2769	3.27E- 11	1.06E- 09
3647532	CAALFM_C105010C A	2816.87775 7	3714.76448 8	-0.39917	0.00039	0.00345 7
3647535	RRP6	3312.47754 7	4665.66360 6	-0.49417	9.56E- 06	0.00013 6
3647536	REI1	276.336639 1	420.684513 7	-0.60631	0.00035	0.00318 7
3647563	CAALFM_C602020C A	2325.55400 7	1511.56848 1	0.62153	2.14E- 07	4.21E- 06
3647591	RNR3	1549.14740 8	2093.65019	-0.43455	0.00024	0.00225 3
3647592	CAALFM_CR05560W A	850.927022	1091.05786 5	-0.35862	0.00753	0.03663 3
3647596	NA	3535.98855 6	4511.83928 5	-0.3516	0.00579	0.02991 2
3647598	NA	890.093791 7	651.739444 6	0.44966	0.00104	0.00768 2
3647609	NA	713.337722 1	536.562033 2	0.41084	0.00485	0.02600 2

3647647	RBP1	5118.11057 6	4165.98634 1	0.29695	0.00667	0.03340 3
3647664	BRG1	2265.01496 4	1455.86527 4	0.63764	8.95E- 08	1.88E- 06
3647672	GPI7	644.949633 2	437.101290 8	0.56122	0.00617	0.03144 6
3647677	RPA190	12341.0319 5	15711.9194 1	-0.3484	0.00100	0.00747 7
3647678	CAALFM_C110680C A	8878.09118 5	7341.11513 5	0.27425	0.00915	0.04292 5
3647682	CAALFM_C110620W A	4093.99356 7	5149.33509 5	-0.33088	0.00260	0.01595 8
3647684	PAN6	1605.35191 2	1030.35297 3	0.63975	0.00281	0.01689 1
3647685	CAALFM_CR02570C A	2497.61363 5	1197.89471 7	1.06	2.35E- 18	1.42E- 16
3647692	DBP2	1953.85037 4	2712.85916 5	-0.47349	0.00018	0.00175 6
3647697	OPT4	4637.29968 5	8601.01665 3	-0.89122	5.23E- 16	2.66E- 14
3647730	SUI1	12289.4479 9	8207.62119 9	0.58238	6.29E- 08	1.34E- 06
3647732	CKS1	654.752036 3	836.599206 3	-0.35359	0.01099	0.04958 5
3647737	NA	2010.89354 1	1092.11815	0.88071	1.43E- 05	0.00019 4
3647748	NA	9766.13355	6503.76397 1	0.58651	4.49E- 08	9.76E- 07
3647754	AYR1	1268.05714 5	866.992505 2	0.54853	2.11E- 05	0.00026 9
3647758	NA	292.082847 1	420.262876 3	-0.52491	0.00238	0.01495 3
3647761	ATO1	1243.20679 1	115.738721	3.4251	3.68E- 08	8.13E- 07
3647801	YAK1	3015.67567 7	1968.18030 5	0.61562	5.27E- 05	0.00060 3
3647834	NA	2505.87615 9	2021.4134	0.30995	0.00848	0.04032 3
3647851	CAALFM_C403830W A	3696.46875 9	4786.63951 9	-0.37287	0.00072	0.00575 7
3647881	CAALFM_C500130C A	948.230894 7	1388.96136 2	-0.5507	1.73E- 05	0.00022 7
3647888	CDC11	475.865777 2	343.788592 3	0.46903	0.00351	0.02018 6

3647890	PGA25	903.405094 7	540.660729 1	0.74065	1.32E- 07	2.70E- 06
3647899	NA	339.303670 1	138.946558	1.288	7.73E- 10	2.13E- 08
3647912	MPP10	402.619578 8	617.053306 6	-0.61598	0.00231	0.01457 9
3647918	EMC9	2128.17895 9	2840.64186 5	-0.4166	0.00037	0.00328 8
3647956	UTP20	6665.55297 7	8883.16488 9	-0.41435	0.00012	0.00124 9
3647960	CAALFM_C301180C A	1193.19212 4	516.271433 5	1.2086	0.00047	0.00399 4
3647972	ALS4	5602.50453	20811.7625 5	-1.8933	5.58E- 67	2.03E- 64
3647994	CAALFM_C104370C A	1268.46452 6	1708.21924	-0.42941	0.00039 8	0.00346
3648021	AMO2	1585.37828 7	1186.05798 7	0.41865	0.00063	0.00508 3
3648025	NA	13803.4796 3	10411.5047 8	0.40685	0.00012	0.00127 3
3648026	GRE2	3118.76646 7	1986.89766 5	0.65046	2.17E- 08	4.96E- 07
3648060	CAALFM_C400050W A	1570.14954 6	1120.2732	0.48705	0.00025	0.00237 6
3648061	NA	219.725574 4	337.276876 6	-0.61823	0.00088	0.00673 3
3648065	NA	962.912668 3	241.943813	1.9927	3.16E- 06	4.95E- 05
3648080	NA	1870.29122 7	1433.64125 8	0.38358	0.00142	0.00994 9
3648082	GUT1	4528.02233 7	2865.04616 5	0.66032	4.27E- 07	8.02E- 06
3648086	GDH3	16831.3059 3	7381.08173	1.1892	5.47E- 21	3.82E- 19
3648091	IPK1	1421.05497 6	1037.62188 9	0.45368	0.00041	0.00354 2
3648101	DBF2	1133.97196 5	881.811428 3	0.36284	0.00533	0.02798 2
3648102	FRP3	6311.30124 1	1347.90929 7	2.2272	1.64E- 05	0.00021 6
3648103	NA	1848.61423 4	1354.77682 1	0.44839	0.00026	0.00242 9
3648120	KCS1	854.563308 5	1142.30132 5	-0.41868	0.00124	0.00894 4

3648123	MNT3		443.214001	597.880084	-0.43185	0.01051	0.04774
		7	1			6	2
3648166	NA		4355.61465	3230.92871	0.43093	0.00013	0.00137
		1	2			3	4
3648168	NA		291.405852	400.058351	-0.45718	0.00763	0.03708
		3	5			6	8
3648179	SPB1		3349.85954	4479.647	-0.41928	0.00016	0.00166
		5				9	
3648194	NA		114.446092	66.5121305	0.78298	0.00720	0.03549
		4	5			8	8
3648195	CAALFM_CR07700W	A	8412.02466	3209.93887	1.3899	7.95E-	9.84E-
		9	8			36	34
3648197	CAALFM_CR09050C	A	173.935864	91.4890975	0.92688	0.00023	0.00216
		8	5			2	
3648207	CAALFM_CR04920W	A	1092.97098	1596.15495	-0.54635	0.00024	0.00227
		1	6			5	3
3648208	PEX14		5103.33469	2331.01919	1.1305	1.73E-	5.80E-
		7	9			11	10
3648226	ALK8		821.931474	426.913390	0.94507	2.38E-	4.67E-
			4			07	06
3648238	NA		4976.28907	3575.98745	0.47673	1.44E-	0.00019
		9	9			05	5
3648267	CAALFM_C500560W	A	2217.57610	1590.01652	0.47994	5.68E-	0.00063
		6	3			05	7
3648275	ERG10		2523.74003	1972.61805	0.35545	0.00777	0.03760
		6	8			2	1
3648320	HGT14		2455.16555	1191.10453	1.0435	7.52E-	4.22E-
		7	1			18	16
3648327	FOX2		87032.4122	29214.0077	1.5749	1.40E-	3.29E-
		2	2			49	47
3648347	CAALFM_CR07160C	A	3757.01471	2713.79725	0.46927	3.29E-	0.00039
		6	2			05	9
3648366	CAALFM_CR06570C	A	674.524610	1518.95420	-1.1711	3.19E-	1.99E-
		5	2			19	17
3648367	NA		3246.20530	2465.14583	0.39708	0.00052	0.00435
		6	3			6	3
3648378	NA		1125.44246	1405.85337	-0.32095	0.01050	0.04771
		8	4			3	2
3648382	CAALFM_CR06930W	A	771.187910	548.124661	0.49258	0.00062	0.00502
		4	6			3	7
3648427	CTR2		1037.40227	1332.01611	-0.36064	0.00407	0.02272
						7	4
6335362	RPL7		2763.91386	3663.59574	-0.40655	0.00035	0.00313
			4			1	

6335429	NA	3613.90251 3	2919.84361 2	0.30767	0.00613	0.03135 8	8
30514976	RPL6	1731.32371 6	1322.56079 5	0.38854	0.00127	0.00909 5	9
30514981	NA	1996.29763 2	2471.78935 8	-0.30823	0.00738	0.03615 5	5
30514985	NA	9960.65989 2	6863.34220 2	0.53733	4.90E- 07	9.11E- 06	
30514999	RIB4	6362.91738 7	4736.32802 9	0.42592	0.00011	0.00122 7	2
30515002	NA	765.442195 6	980.818929 4	-0.35769	0.00687	0.03419 4	
30515025	CAALFM_C107280C A	1.34096880 7	58.9621231 8	-5.4584	0.00095	0.00714 4	
30515051	RPL2	172.221296 8	102.182089 2	0.75312	0.00225	0.01430 5	5
30515052	CAALFM_C111260C A	26447.3300 6	41236.9466 1	-0.64082	5.47E- 07	1.01E- 05	
30515073	RPL14	258.979028 5	407.748031	-0.65484	0.00017	0.00171 5	
30515097	NA	167.451192 1	90.8434604 5	0.88229	0.00425	0.02343 5	4
30515111	RPL39	12636.0454 1	8894.71950 3	0.50652	2.16E- 06	3.54E- 05	
30515141	CAALFM_C206610C A	552.583133 6	212.167168 4	1.381	7.04E- 16	3.52E- 14	
30515168	NA	128.933235 7	72.7989728 9	0.82463	0.00281	0.01689 7	1
30515171	NA	754.792889 1	1056.09238 2	-0.48458	0.00526	0.02774 6	7
30515173	NA	35.2188471	67.7471864 3	-0.94381	0.01018	0.04662 5	6
30515174	PRM9	884.623290 9	260.942264 8	1.7613	7.23E- 30	7.53E- 28	
30515203	CAALFM_C304100W A	145.288374 9	82.7330171 5	0.81238	0.00733	0.03597 7	3
30515218	CAALFM_C306390W A	888.721181 2	687.464747 9	0.37045	0.00681	0.03393 7	
30515225	CAALFM_C306750W A	1180.62241 9	712.948553 6	0.72768	4.36E- 08	9.54E- 07	
30515244	NA	5662.55857 1	4571.00516 2	0.30894	0.00522	0.02759 5	8
30515247	CAALFM_C401990W A	1361.68006 9	1745.46505 9	-0.35822	0.00344	0.01989 9	9

30515264	CAALFM_C403950C	5732.24428	3349.17002	0.7753	3.39E-	1.24E-
	A	7	2		12	10
30515291	CAALFM_C500120W	377.274658	530.359518	-0.49136	0.00169	0.01140
	A	3	3		2	7
30515317	NA	1068.38628	447.401627	1.2558	9.02E-	5.58E-
		9			19	17
30515318	CAALFM_C504480C	24178.8805	34474.2591	-0.51177	9.44E-	1.66E-
	A	4	5		07	05
30515320	RPL43A	609.252701	189.434566	1.6853	2.39E-	3.89E-
		2	1		06	05
30515345	NA	9536.50372	7791.81355	0.2915	0.00646	0.03251
		8			8	3
30515347	CAALFM_C604250W	6511.90979	2988.83022	1.1235	3.78E-	3.02E-
	A	3	3		24	22
30515353	NA	931.242102	1322.84013	-0.50641	7.20E-	0.00079
		9	9		05	
30515358	NA	1461.46564	939.087875	0.63808	6.18E-	1.12E-
		9	3		07	05
30515359	HHO1	631.019838	810.554091	-0.36122	0.00981	0.04534
		3	1		6	8
30515371	CAALFM_CR00890C	21832.2800	16646.0889	0.39128	0.00150	0.01041
	A	5			7	
30515374	CAALFM_CR01300W	2508.54589	3870.12432	-0.62553	0.00029	0.00270
	A	5	8		8	5
30515431	NA	264.177775	403.059916	-0.60949	0.00045	0.00386
		2	3		4	7
30515450	TAR1	5387.63392	1256.41146	2.1003	1.45E-	1.06E-
		4	2		21	19
30515454	NA	9892.15839	5617.61062	0.81633	0.00082	0.00637
		5	6		7	1
Novel0000	NA	53.5087255	14.9585952	1.8388	0.00013	0.00136
2		8	4		2	3
Novel0005	NA	10.8378361	32.2177735	-1.5718	0.00825	0.03950
0		6			8	1
Novel0005	NA	99.0266811	48.4395338	1.0316	0.00670	0.03351
8		4	4		3	5
Novel0006	NA	240.182064	66.3162400	1.8567	2.61E-	1.14E-
0		9			14	12
Novel0007	NA	49.9144611	21.9464193	1.1855	0.00985	0.04543
3		5	2		8	
Novel0007	NA	4359.38442	3001.95648	0.53822	1.93E-	3.19E-
5		4			06	05
Novel0010	NA	1861.51205	1284.22745	0.53557	0.00058	0.00480
9		6	5		9	3

Novel0011	NA	126.471469	192.269223	-0.60432	0.00865	0.04097
1		4	3			2
Novel0011	NA	10830.8891	8722.47376	0.31234	0.00336	0.01951
4		4	6			2
Novel0012	NA	293.297249	74.4829017	1.9774	6.86E-	3.92E-
8		3	1			16
Novel0015		25991.0147	21372.8078	0.28224	0.00750	0.03654
0		2	2			4
Novel0016	NA	918.504629	602.595434	0.6081	3.22E-	0.00039
1		3	3			3
Novel0016		368.635075	212.363932	0.79565	1.51E-	0.00020
2		5				1
Novel0016	NA	45.3961693	17.0070695	1.4164	0.00402	0.02254
5		3	2			7
Novel0017	NA	520.509967	905.380316	-0.7986	1.27E-	2.17E-
2		8	1			05
Novel0017	NA	95.0588175	151.125840	-0.66886	0.00763	0.03708
8		4	7			8
Novel0019	NA	62.0382232	20.7113634	1.5827	0.00028	0.00261
5		4	5			1
Novel0019	NA	64.6651180	8.72797123	2.8893	1.22E-	2.90E-
9		3	4			07
Novel0020	NA	109.797773	186.739581	-0.76618	0.00102	0.00760
6		8				5
Novel0022	NA	33.3824928	11.5064101	1.5367	0.00922	0.04311
7		8				2
Novel0023	NA	22.6980846	62.7235091	-1.4664	0.00046	0.0039
8		6	3			
Novel0024	NA	136.562107	70.3007519	0.95795	0.00055	0.00452
4		1	8			7
Novel0025		423.945053	615.227084	-0.53724	0.00041	0.00354
2		6				2
Novel0025		145.036562	248.199925	-0.77509	0.00022	0.00213
7		1				3
Novel0027	NA	336.77038	627.125275	-0.89699	7.45E-	1.79E-
2		7				07
Novel0027	NA	179.991895	110.152860	0.70842	0.00295	0.01749
4		6	4			7
Novel0029	NA	3879.40213	2901.23432	0.41917	0.00023	0.00218
6		6				6
Novel0029	NA	19.5441628	59.5805248	-1.6081	0.00018	0.00178
9		2				9
Novel0030	NA	493.318312	68.8425701	2.8411	6.63E-	2.82E-
5		8	6			12

Novel0032	NA	385.870899	276.911916	0.47869	0.00924	0.04316
8		4	3		3	8
Novel0034	NA	81.2087868	169.509385	-1.0617	0.00014	0.00148
8		9	6		9	8
Novel0035		499.031065	300.146988	0.73346	1.11E-	0.00015
2		8	7		05	4
Novel0036		28.0186176	91.9950625	-1.7152	1.76E-	2.91E-
1		6	1		06	05
Novel0037	NA	32.4151232	8.84040789	1.8745	0.00262	0.01604
3		5	2		4	4
Novel0037	NA	132.420874	198.947846	-0.58726	0.00801	0.03859
5		6	6		8	
Novel0037		737.588706	464.717898	0.66646	6.85E-	0.00010
8		4	2		06	1
Novel0037	NA	730.875621	419.756911	0.80007	0.00016	0.00162
9		9	3		4	3
Novel0038	NA	27.2046759	67.1577676	-1.3037	0.00104	0.00768
5		6			6	
Novel0038	NA	32.2499947	6.51084196	2.3084	0.00054	0.00447
6		8	9		2	6
Novel0039	NA	30.9207265	113.267735	-1.8731	1.61E-	3.75E-
3		6	6		08	07
Novel0040	NA	97.7723968	35.1648674	1.4753	1.71E-	0.00022
3		2			05	5
Novel0040	NA	113.392038	175.318372	-0.62866	0.00808	0.03880
9		3	1		1	9
Novel0042		399.449176	122.697562	1.7029	1.32E-	0.00018
6		2			05	
Novel0042	NA	560.273968	235.627987	1.2496	0.00135	0.00954
9		1	8		4	2
Novel0044	NA	3646.72715	2375.53306	0.61835	5.56E-	1.02E-
3		7			07	05
Novel0044	NA	384.71154	234.112714	0.71657	5.61E-	0.00063
8					05	2
Novel0045	NA	783.947465	287.351051	1.4479	4.03E-	6.20E-
8		8			06	05
Novel0046	NA	22.7531274	69.0103514	-1.6007	8.70E-	0.00094
2		9	6		05	
Novel0046	NA	1809.37594	3395.47500	-0.90812	2.99E-	1.42E-
6		1	7		15	13
Novel0048	NA	893.616532	580.789560	0.62164	1.12E-	0.00015
4		3	8		05	6
Novel0048	NA	676.396066	389.673686	0.7956	1.99E-	3.93E-
5		5	9		07	06

Novel0048	NA	97.1387442	308.567506	-1.6675	1.26E-	2.59E-
9		2	5		07	06
Novel0049	NA	211.396306	345.302992	-0.70791	0.00011	0.00116
4		9	4		1	4
Novel0050		3386.33135	2298.21375	0.55921	1.06E-	1.86E-
0		6	4		06	05
Novel0050		56.8711181	107.543076	-0.91915	0.00289	0.01724
1		3	5		2	9
Novel0050	NA	66.4464294	125.194909	-0.91391	0.00110	0.00805
2		2	5		6	2
Novel0052	NA	451.606552	324.451083	0.47707	0.00369	0.02090
8		5	2		1	7
Novel0054	NA	999.029501	610.569700	0.71037	2.56E-	4.99E-
6		2	2		07	06