

Table S5. Identified DEGs from Rod vs Gray						
Gene_name	baseMean	log2FoldChange	lfcSE	stat	pvalue	
LIP9	3306.359132	6.562444993	0.17481009	37.54042468	0	
C701380WA	13.7706071	5.757336489	1.62452231	3.544018113	0.000394078	
C111390WA	4.397208348	5.569070757	2.01529232	2.763405934	0.005720158	
CSA2	276.2191434	5.554682543	0.36867658	15.06654575	2.69E-51	
C302250CA	3.374636709	5.189345539	2.16537737	2.396508625	0.016552104	
C205060CA	1004.812825	4.696864193	0.40815186	11.50763881	1.21E-30	
CSA1	4489.111029	3.661472651	0.11706106	31.27831495	9.20E-215	
C111990WA	5854.331573	3.456838071	0.29207815	11.83531904	2.56E-32	
BMT4	1396.486711	3.380160684	0.16671896	20.2746025	2.16E-91	
ABP2	146.5606142	3.345506037	0.33664736	9.937716652	2.85E-23	
C106120CA	12.00793204	3.08349696	1.04373872	2.954280514	0.00313399	
C208200WA	480.1524612	3.077888567	0.22369509	13.75930311	4.48E-43	
DAD1	66.86632226	2.869983795	0.44287288	6.480378223	9.15E-11	
C306880WA	44.5046149	2.862551001	0.56517153	5.064924318	4.09E-07	
TRR1	3130.440836	2.784857508	0.11884034	23.43360476	1.94E-121	
BMT1	1151.401803	2.757854235	0.15557476	17.72687443	2.60E-70	
SPO1	182.7089319	2.668002659	0.29224123	9.129453409	6.88E-20	
C103460CA	462.8610764	2.660445984	0.19796987	13.43864057	3.59E-41	
C401800WA	1555.642635	2.654749065	0.14890676	17.82826439	4.26E-71	
TRX1	4956.006686	2.59557935	0.11081753	23.42210068	2.54E-121	
C505010WA	20.84814944	2.571365883	0.75158895	3.421239628	0.000623364	
YOX1	718.9386719	2.54269776	0.17033901	14.92727829	2.19E-50	
CRH11	7442.009393	2.533639684	0.13043316	19.4248122	4.76E-84	
C304730CA	1058.286778	2.503153583	0.17959701	13.93761258	3.74E-44	
CTF8	46.33193794	2.475341124	0.51059229	4.84797987	1.25E-06	
CFL2	222.6779051	2.468243359	0.26349632	9.367278176	7.44E-21	
PGA5	54.86703382	2.445667969	0.47086971	5.193937808	2.06E-07	
PGA38	12730.21506	2.444704555	0.3258386	7.502808241	6.25E-14	
C107040CA	446.8285078	2.431592348	0.20204221	12.03507104	2.32E-33	
RNR1	3803.107463	2.428695884	0.12834372	18.92337118	7.32E-80	
C208540CA	79.70539082	2.411734303	0.39402464	6.12077033	9.31E-10	
C402450WA	348.4883141	2.408393609	0.21144954	11.38992117	4.69E-30	
FCY2	192.4253139	2.386807925	0.27862515	8.566376319	1.07E-17	
C200180CA	586.0860818	2.382150686	0.19206004	12.40315623	2.51E-35	
PMS1	136.9595555	2.352881575	0.3036316	7.749132808	9.25E-15	
CTF5	67.25615848	2.345478548	0.42309578	5.543611295	2.96E-08	
RNR21	5656.339064	2.287495841	0.11429653	20.01369447	4.18E-89	
HCM1	480.2422601	2.284618387	0.18687995	12.22505878	2.28E-34	
NUF2	392.5356357	2.254537855	0.20383134	11.06080085	1.94E-28	
SCW11	6028.0201	2.220917255	0.32888588	6.752850769	1.45E-11	
CDC5	2209.925452	2.214747224	0.16233024	13.64346665	2.21E-42	
ENG1	5542.247436	2.209864592	0.29810866	7.412949895	1.24E-13	
HHO1	10267.09936	2.208330538	0.10694031	20.65012353	9.74E-95	
C701100CA	318.4871147	2.207739417	0.23394108	9.43716003	3.83E-21	
FGR6-10	207.8313172	2.207629354	0.25126037	8.786221988	1.55E-18	
CHL4	87.66207176	2.203723422	0.3858327	5.711603573	1.12E-08	
UME6	28.50439029	2.201985117	0.63573249	3.463697601	0.000532805	
HTA3	3217.000088	2.197987971	0.12950675	16.97199503	1.32E-64	
CFL4	34.88262394	2.193023284	0.57204802	3.833634937	0.000126263	
POL30	692.6606819	2.191513055	0.16035651	13.66650523	1.61E-42	
C400210WA	67.66877691	2.190882642	0.43553481	5.030327263	4.90E-07	
SET1	552.063434	2.180332016	0.20962518	10.40109784	2.45E-25	
CR05840WA	332.8734749	2.171481575	0.21582651	10.0612365	8.20E-24	
C303270WA	121.142447	2.164857683	0.34029871	6.361639373	2.00E-10	
MCM6	912.7611197	2.155038268	0.17260003	12.48573511	8.93E-36	
C601560WA	455.8591709	2.154644574	0.18940616	11.37578927	5.52E-30	

DUT1	270.3284595	2.151400612	0.23126386	9.30279658	1.37E-20
C402720CA	1228.297259	2.149721245	0.14726923	14.5972192	2.93E-48
MNN23	1793.728819	2.144646702	0.12880876	16.64985182	3.03E-62
CR01100CA	220.5038178	2.1366262	0.24986619	8.551081778	1.22E-17
ASF1	150.509725	2.135098618	0.28877699	7.393589825	1.43E-13
TPO3	1451.049041	2.126534096	0.14479167	14.68685357	7.83E-49
C600120WA	35.28147524	2.106109497	0.58865357	3.577842055	0.000346443
C102410CA	642.4032424	2.102664527	0.17344003	12.12329447	7.95E-34
C206280CA	93.98341209	2.093364318	0.35275956	5.934252494	2.95E-09
DUO1	109.8817996	2.085566756	0.33621303	6.203111103	5.54E-10
EXG2	63.42371821	2.066779045	0.42721901	4.837750705	1.31E-06
C403500CA	272.3973903	2.065778159	0.23997896	8.608163642	7.42E-18
PSF3	152.5113792	2.063418806	0.33534876	6.153053353	7.60E-10
RBE1	7505.337317	2.061346295	0.13627406	15.12647603	1.08E-51
C107490CA	170.9198466	2.057671902	0.27663785	7.43814315	1.02E-13
C110500WA	337.8259708	2.054277102	0.21949895	9.358938011	8.05E-21
C305290CA	334.9414518	2.051203701	0.24527791	8.362773986	6.13E-17
PCL2	131.5910724	2.04927009	0.31262332	6.555077585	5.56E-11
CR05210WA	55.65268282	2.047024707	0.50255212	4.073258544	4.64E-05
ATX1	315.0392843	2.045432251	0.22026342	9.286300203	1.60E-20
C301100WA	159.0062595	2.032723783	0.30273827	6.71445937	1.89E-11
HOF1	518.677528	2.026572419	0.21489825	9.43038123	4.09E-21
C203890WA	116.3812228	2.016335592	0.36203201	5.569495374	2.55E-08
C111720WA	40.0178866	2.01601139	0.54644488	3.689322505	0.000224852
CR06920WA	31.68689229	2.012296335	0.5878831	3.422953216	0.000619447
IRR1	582.7041338	2.006636155	0.16823398	11.92765055	8.49E-33
C603420WA	98.37979076	2.006307658	0.38032673	5.27522124	1.33E-07
PLB4.5	538.8106087	1.998402934	0.1730495	11.54815803	7.54E-31
TUB4	336.0273037	1.995174437	0.20697861	9.639519759	5.44E-22
MNN2	956.8943083	1.991888404	0.15786663	12.61753917	1.69E-36
C604120CA	329.5886415	1.987767701	0.24788688	8.018850131	1.07E-15
C304740CA	248.9815765	1.961220748	0.22978545	8.535008255	1.40E-17
C206740WA	716.3028877	1.959914031	0.17898567	10.95011678	6.64E-28
ASE1	311.0462117	1.958957734	0.22044201	8.886498983	6.31E-19
C202190CA	48.04220678	1.957399968	0.52862915	3.702784749	0.000213246
KIP1	347.5304984	1.953112816	0.20979719	9.309527904	1.28E-20
CDC54	610.1665964	1.949766393	0.17204708	11.33274879	9.03E-30
C209590CA	195.7661527	1.947794403	0.25450743	7.653192595	1.96E-14
C102100WA	131.6947011	1.947203166	0.32159657	6.054800866	1.41E-09
C504310WA	120.1019319	1.944546316	0.3144248	6.184455926	6.23E-10
SDC1	133.6293278	1.94434669	0.30450517	6.385266684	1.71E-10
C601550CA	413.86789	1.941215592	0.21705973	8.943232462	3.78E-19
REX3	41.07606272	1.938534032	0.51631447	3.754560751	0.000173646
C402460WA	395.2474563	1.938090833	0.195281	9.924625628	3.25E-23
CSP1	34.61314281	1.936442868	0.57800783	3.350201766	0.000807527
FRE9	112.3352214	1.93358694	0.36268549	5.331304878	9.75E-08
C206270WA	76.27290491	1.924022298	0.39116737	4.918667659	8.71E-07
C403490CA	69.42244316	1.920380941	0.40604771	4.729446524	2.25E-06
C603990CA	177.8685625	1.914948875	0.26615317	7.194912962	6.25E-13
C600770CA	110.3100979	1.914307739	0.32759435	5.843530969	5.11E-09
CCE1	53.58788258	1.913116593	0.46413936	4.12185817	3.76E-05
C107860WA	34.52301984	1.910713644	0.5605496	3.408643303	0.000652868
GIN1	257.6335137	1.906556639	0.22746649	8.381703384	5.22E-17
C201250WA	72.54460357	1.906021481	0.39919773	4.774630023	1.80E-06
ESP1	267.165773	1.905863337	0.22534415	8.457567353	2.73E-17
CR05960WA	112.8264912	1.90077412	0.33047635	5.751619207	8.84E-09
C403990CA	195.2266765	1.900011457	0.26137476	7.269299776	3.61E-13
C404230WA	96.9377218	1.896334343	0.37134266	5.106696735	3.28E-07

CR06380CA	272.0753754	1.892794803	0.23342224	8.108888111	5.11E-16
MPS1	200.3997301	1.891776319	0.26358027	7.177230408	7.11E-13
HAT1	266.0668861	1.891502776	0.22782293	8.302512743	1.02E-16
C403880WA	54.43176719	1.882003426	0.46717998	4.028433389	5.61E-05
C307540CA	514.3588227	1.880289556	0.20386604	9.223162296	2.88E-20
CR07120CA	327.9493971	1.87378085	0.24906344	7.523307399	5.34E-14
C702280WA	96.89048721	1.870385002	0.3613585	5.175981781	2.27E-07
FMA1	106.2107505	1.864066956	0.34808213	5.355250428	8.54E-08
C201260WA	192.6603854	1.86248388	0.25446435	7.31923294	2.49E-13
BUB2	81.73172035	1.860074847	0.38242373	4.863910686	1.15E-06
C402400CA	174.1374925	1.858887012	0.28288593	6.571153932	4.99E-11
CHS1	816.8614795	1.855212626	0.18690619	9.925902704	3.21E-23
C401140CA	207.5421333	1.854616981	0.24537863	7.558184568	4.09E-14
ESC4	98.61180671	1.852810179	0.36393856	5.090997168	3.56E-07
MAC1	433.0783106	1.852446718	0.21460818	8.631762054	6.04E-18
PSF1	54.19255645	1.846899767	0.44837764	4.119071993	3.80E-05
CLB4	347.7411449	1.835755175	0.20879901	8.791972521	1.47E-18
JEN2	2197.333626	1.831642901	0.1243045	14.7351289	3.83E-49
HHF1	11376.08654	1.831051237	0.1145336	15.98702179	1.57E-57
C102370CA	631.1372763	1.827001901	0.16683236	10.95112408	6.56E-28
C106030CA	50.4208687	1.823800043	0.47303591	3.855521297	0.000115483
C208320CA	191.1714385	1.817901982	0.25929137	7.011039364	2.37E-12
C405040WA	46.54311676	1.813610526	0.49512233	3.662954419	0.000249323
SMC3	257.1469959	1.810581988	0.22779973	7.948130684	1.89E-15
KIP2	298.1789045	1.806796747	0.24114634	7.492532312	6.76E-14
DBF2	546.4054851	1.806735016	0.19809871	9.1203774	7.49E-20
PRI2	140.398184	1.80380524	0.29073852	6.204218182	5.50E-10
C307140CA	143.2400925	1.803672893	0.2947808	6.1186919	9.43E-10
C400920CA	85.82823977	1.799522341	0.36279877	4.96011143	7.05E-07
C106270WA	165.1949861	1.798499024	0.27927235	6.439946644	1.20E-10
C602760WA	22.84717019	1.795052509	0.73753225	2.433863076	0.014938645
C112090CA	17.14057849	1.789753593	0.79901661	2.239945409	0.025094467
CLB2	824.7898501	1.786543596	0.15929309	11.21544947	3.42E-29
HTA2	15946.37447	1.78372321	0.1105603	16.13348789	1.48E-58
C108890CA	45.48060343	1.774301918	0.49079973	3.615124108	0.000300204
CDC47	1005.097144	1.771760351	0.14849945	11.9310901	8.15E-33
HHT21	22221.54746	1.770393152	0.10647337	16.62756744	4.40E-62
C602300CA	63.53252992	1.770119024	0.41812835	4.233434616	2.30E-05
C502780WA	236.6875671	1.766845623	0.23376836	7.558104141	4.09E-14
PDS5	420.7534623	1.761224609	0.19015564	9.26201612	2.01E-20
C103180WA	45.56262027	1.753596725	0.50827211	3.45011401	0.00056035
CDC46	504.6543905	1.750715776	0.23218273	7.540249696	4.69E-14
CR02380CA	67.05476732	1.748892715	0.41334701	4.231052012	2.33E-05
AFG1	89.54506481	1.74774253	0.37686056	4.637637108	3.52E-06
C102890CA	126.0854152	1.746933779	0.30927963	5.648395795	1.62E-08
BUB1	420.3866536	1.746408999	0.19083832	9.151249287	5.63E-20
C100190CA	1581.534525	1.744169577	0.14848275	11.74661397	7.35E-32
MIH1	1100.904864	1.743968104	0.19294903	9.038491143	1.59E-19
MPH1	221.0556706	1.743455041	0.2411937	7.228443514	4.89E-13
CR10180WA	65.44485986	1.738630742	0.41228994	4.217009859	2.48E-05
C102210WA	2051.066132	1.738485549	0.17005718	10.22294736	1.57E-24
HGT10	618.1318123	1.738235247	0.17685484	9.828598883	8.48E-23
C703380WA	194.4301144	1.737035917	0.25239363	6.882249542	5.89E-12
C107470CA	41.10047919	1.732900066	0.50926457	3.402750073	0.000667113
C306680CA	352.3602981	1.731255443	0.20139593	8.596278185	8.23E-18
CR10120CA	32.79135186	1.729744474	0.62987226	2.746182969	0.006029313
ACE2	1056.693755	1.727487536	0.18609077	9.283037361	1.65E-20
MYO1	314.6564799	1.723927768	0.22603028	7.626977138	2.40E-14

C700870WA	30.85437035	1.722504853	0.61768224	2.788658534	0.005292684
CR01070WA	117.4848479	1.721816038	0.33006867	5.216538854	1.82E-07
CR03340CA	120.6364332	1.717978672	0.31938786	5.378973048	7.49E-08
CR05310WA	274.1945395	1.712295773	0.22406961	7.641802838	2.14E-14
C202910WA	28.30925925	1.707357585	0.6385279	2.673896597	0.007497557
FGR6-4	241.6787022	1.696484554	0.2441218	6.949336509	3.67E-12
BRN1	236.1255997	1.696382461	0.25834055	6.566458244	5.15E-11
HTB1	16177.55643	1.693579794	0.10557243	16.0418757	6.52E-58
C303210WA	536.979939	1.691680178	0.18081552	9.355835293	8.29E-21
PGA6	592.7999666	1.689323032	0.16999992	9.937199095	2.87E-23
MMS22	135.8779598	1.685170315	0.30467569	5.531029841	3.18E-08
CDC13	119.9689229	1.662126402	0.31193044	5.328516196	9.90E-08
C105740CA	57.35507457	1.661061371	0.45318511	3.665304425	0.000247045
C101080WA	156.4142213	1.658858774	0.27458284	6.041378213	1.53E-09
CR07850WA	619.6182345	1.657561882	0.17045077	9.724578572	2.37E-22
NUP	26.33539792	1.656651216	0.68390701	2.422334013	0.015421169
SPR28	107.9174858	1.651731226	0.33052905	4.997234712	5.82E-07
YBL053	249.1589613	1.65159965	0.22700276	7.27568079	3.45E-13
CR07170WA	254.2950869	1.651380653	0.22571095	7.316351393	2.55E-13
C107850CA	64.91707932	1.649440274	0.41462061	3.978191716	6.94E-05
DCC1	53.60329144	1.648720012	0.47353199	3.481749978	0.000498149
PGA27	55.98698033	1.647241349	0.44409221	3.709232685	0.000207888
SPC19	81.59140865	1.646948395	0.38388319	4.290233116	1.78E-05
RFA1	1065.077933	1.645643682	0.15451475	10.6503984	1.74E-26
DYN1	799.6159739	1.639287807	0.1574324	10.4126455	2.17E-25
TIM21	315.8523243	1.637477495	0.20567332	7.961545584	1.70E-15
RFG1	1877.30106	1.63678556	0.13052315	12.54019353	4.50E-36
C112110CA	41.40863295	1.635333612	0.50431519	3.24268164	0.001184104
GCF1	1319.452907	1.634762504	0.135773	12.04040897	2.18E-33
MCD1	331.0254798	1.63106479	0.20610249	7.913852779	2.50E-15
C500340WA	296.5888933	1.629458677	0.21025844	7.749789764	9.20E-15
CR09810WA	64.38783644	1.625632019	0.42299856	3.843114768	0.000121483
LTE1	454.1402443	1.624519599	0.19219179	8.452596132	2.85E-17
C107080WA	472.4432442	1.622205834	0.17877818	9.073846744	1.15E-19
NHP6A	6343.816105	1.618984372	0.14874934	10.88397661	1.37E-27
C305790CA	42.87073425	1.61897311	0.49815269	3.249953577	0.001154238
C405310WA	98.85927348	1.618659964	0.33614668	4.815338308	1.47E-06
C208620WA	1838.968398	1.616714603	0.1450212	11.14812597	7.31E-29
C701830WA	91.06141715	1.612125621	0.35056463	4.598654584	4.25E-06
TIM13	143.2218967	1.600261865	0.28676444	5.580405542	2.40E-08
CR02680WA	206.0117007	1.599667758	0.24470284	6.537185167	6.27E-11
C102800WA	49.76147089	1.599250343	0.46224749	3.45972747	0.000540722
DAD3	100.9919235	1.595625062	0.33102515	4.820253227	1.43E-06
C307240WA	25.03052643	1.594186321	0.65493352	2.43411931	0.014928074
DSE1	2405.219043	1.591033993	0.14430771	11.02528723	2.89E-28
YCS4	427.5310453	1.587940446	0.18398151	8.630978628	6.08E-18
C209040WA	510.0604781	1.587198993	0.17270709	9.190120643	3.92E-20
C300830CA	372.4534912	1.587044765	0.19527466	8.127243843	4.39E-16
C112640WA	50.94200901	1.58655271	0.48605811	3.264121432	0.001098041
HST3	470.4146775	1.585519575	0.1834134	8.644513204	5.40E-18
C206620WA	42.58794538	1.585425955	0.50137576	3.162151174	0.001566082
C600110CA	212.9896495	1.583691089	0.2445842	6.475034386	9.48E-11
TPO4	635.0860185	1.580328747	0.1653226	9.559060391	1.19E-21
CAC2	114.49547	1.579608025	0.31660005	4.989285431	6.06E-07
C505350WA	224.5910374	1.578528601	0.2553933	6.18077529	6.38E-10
TOS1	10752.174	1.577819287	0.11964181	13.18785867	1.03E-39
C203170WA	45.67936973	1.577205843	0.51759532	3.047179461	0.002309998
C203970WA	131.0192086	1.576388895	0.29578646	5.329482868	9.85E-08

C103930WA	250.5156001	1.574094413	0.24742996	6.361777826	1.99E-10
RIC1	162.4054975	1.574049653	0.27783197	5.665473403	1.47E-08
SMC2	291.4338696	1.570238541	0.21349465	7.35493153	1.91E-13
CR04940WA	99.62322506	1.567171375	0.33258659	4.712070234	2.45E-06
MOB1	420.6342367	1.565605489	0.18615024	8.410440374	4.08E-17
KAR3	176.2845288	1.562377839	0.26427263	5.911992567	3.38E-09
CSE4	632.2336463	1.5622736	0.18588545	8.404496363	4.30E-17
C407160WA	39.70756856	1.556323333	0.51760701	3.006766312	0.002640427
COG4	291.689201	1.555424125	0.24016372	6.476515805	9.39E-11
CR04770CA	159.0446809	1.550953072	0.30220629	5.132100638	2.87E-07
CDC21	176.9316516	1.549399486	0.25920017	5.97761751	2.26E-09
C104960CA	186.7641033	1.545029641	0.27669495	5.583873706	2.35E-08
C202280WA	458.7303528	1.544781734	0.22034265	7.010815941	2.37E-12
C112880CA	410.7301824	1.540546937	0.19320382	7.973687612	1.54E-15
C206760CA	93.71253179	1.533244762	0.36673375	4.180811741	2.90E-05
MSH6	430.6904271	1.532469355	0.18608255	8.235427593	1.79E-16
RFA2	576.7321882	1.532169846	0.17217766	8.898772595	5.65E-19
C504890CA	58.24478323	1.530719382	0.46823936	3.269095921	0.001078917
VAM3	139.7559582	1.527474494	0.29828394	5.120874103	3.04E-07
FGR41	4382.593568	1.523501513	0.3454823	4.40978173	1.03E-05
CR05360CA	290.998676	1.523495878	0.21653549	7.035779184	1.98E-12
C103410WA	104.9206652	1.522915005	0.35063495	4.343306327	1.40E-05
TFC4	328.6352646	1.517846231	0.20299924	7.477103102	7.60E-14
PGA7	1040.315741	1.515917549	0.15504171	9.77748217	1.41E-22
APN2	99.69336415	1.514332189	0.34196354	4.428343953	9.50E-06
MCM2	587.9199812	1.512609817	0.18092075	8.36062082	6.24E-17
C100970WA	45.91099928	1.51217052	0.48788542	3.099437845	0.001938883
SLD5	53.30148571	1.509189738	0.47167411	3.199645067	0.001375969
ARP1	78.04799757	1.499811301	0.37128344	4.039531937	5.36E-05
NAM2	399.7331636	1.49455989	0.18936375	7.89253443	2.96E-15
SKN2	798.7264478	1.491873053	0.16014118	9.315986598	1.21E-20
C108150CA	81.14572777	1.490947808	0.4251758	3.506661959	0.000453765
C503370CA	48.67752997	1.473200936	0.46961545	3.137036758	0.001706647
C503930CA	521.3391815	1.473097364	0.17732161	8.307489427	9.77E-17
C300840CA	257.8842074	1.473088875	0.24459674	6.022520448	1.72E-09
LYS22	199.0242244	1.471159072	0.27522558	5.345284595	9.03E-08
POL2	337.9040453	1.470283848	0.21467422	6.848907389	7.44E-12
C202660WA	179.3751497	1.470242153	0.25859884	5.685416606	1.30E-08
CR09520CA	342.2798336	1.469691536	0.2179704	6.742619929	1.56E-11
C400910CA	290.8244512	1.469562801	0.21521018	6.828500561	8.58E-12
C500840WA	128.3351936	1.468069259	0.3003701	4.887534644	1.02E-06
SAP7	29.88431146	1.465848263	0.59890296	2.447555568	0.014382894
USO5	230.9875612	1.462517868	0.25528489	5.728963782	1.01E-08
ZCF7	72.28724394	1.462496308	0.39553104	3.697551252	0.000217689
C401910WA	180.5641272	1.460766084	0.2558103	5.710348957	1.13E-08
C104180WA	12108.04247	1.454846861	0.10785271	13.48920127	1.81E-41
C210060CA	59.69493022	1.454662163	0.42565016	3.417506467	0.000631976
ARP9	417.2614731	1.454468282	0.21359183	6.809568768	9.79E-12
C501560CA	2854.828121	1.452557514	0.11646983	12.47153431	1.07E-35
SFU1	630.8523472	1.450688196	0.16924178	8.571690544	1.02E-17
C201420CA	199.7576703	1.44945494	0.2482397	5.838932782	5.25E-09
ERV1	141.691412	1.447557391	0.29982616	4.827988911	1.38E-06
ACS2	4382.57719	1.443242363	0.11223987	12.85855304	7.70E-38
PEX7	111.7520012	1.440623751	0.33367795	4.317407645	1.58E-05
C102200CA	360.8330987	1.439878065	0.19456696	7.400424188	1.36E-13
SMC1	348.8556425	1.437656565	0.20377166	7.055233218	1.72E-12
FDH1	14692.32932	1.437524264	0.10642674	13.50717218	1.42E-41
C503560WA	125.5486791	1.434738454	0.30462577	4.70983935	2.48E-06

C201740CA	496.6978435	1.431409052	0.1845714	7.755313523	8.81E-15
OPI3	698.266179	1.431301338	0.15526688	9.218329971	3.02E-20
CR06290CA	223.8173715	1.428478687	0.23506392	6.076979884	1.22E-09
C209630CA	64.62305907	1.426975952	0.41957586	3.4009963	0.000671407
C207650CA	264.4387631	1.424635863	0.23341097	6.10355156	1.04E-09
C402700WA	97.61666886	1.423224144	0.365215	3.896948736	9.74E-05
C104820CA	111.3275499	1.42019234	0.31612592	4.492489446	7.04E-06
C307460WA	448.0593718	1.418554589	0.19969564	7.103583324	1.22E-12
MSM1	216.0325098	1.417675378	0.24749502	5.728096534	1.02E-08
C111930WA	1182.665547	1.411749045	0.16951178	8.328323955	8.20E-17
C109110WA	90.89815758	1.411557683	0.35982717	3.92287682	8.75E-05
C204110WA	291.7929266	1.409222976	0.21622488	6.517395103	7.15E-11
C501220WA	316.6337711	1.406788009	0.23787453	5.913991719	3.34E-09
C405890WA	56.34052504	1.406740316	0.44369897	3.170483597	0.001521854
C206790WA	36.41060521	1.40317727	0.53787815	2.608727034	0.00908797
CR03470WA	299.9304577	1.402342745	0.21118124	6.640470397	3.13E-11
TOP2	611.5785961	1.399532485	0.16889863	8.28622769	1.17E-16
YCG1	197.5902009	1.397987783	0.24631096	5.675702782	1.38E-08
CDC10	1082.304099	1.397904766	0.15244064	9.170158254	4.72E-20
POL1	657.2898437	1.397885535	0.18573985	7.526040025	5.23E-14
SPC34	102.3809055	1.395499515	0.32709374	4.266359544	1.99E-05
SMC5	181.355395	1.395233973	0.25949327	5.376763662	7.58E-08
CR10610CA	75.7729051	1.395127208	0.39891981	3.497262252	0.000470059
CR02440WA	40.32928317	1.392626951	0.50673563	2.74823178	0.005991764
C111740WA	77.89433121	1.389446379	0.38091763	3.647629519	0.000264671
C302290WA	613.8430367	1.382086471	0.17350705	7.965592571	1.64E-15
C209030WA	50.0893238	1.378561716	0.46881801	2.940505018	0.003276777
C600900CA	108.195368	1.377480354	0.34309176	4.014903621	5.95E-05
C303060WA	81.28325998	1.375502377	0.37699984	3.648548934	0.000263726
C307110WA	224.9850898	1.372628463	0.23497951	5.841481618	5.17E-09
CSM3	101.5787691	1.372485895	0.3312441	4.143427387	3.42E-05
DOT1	707.0699488	1.367562968	0.16277478	8.401565435	4.41E-17
EHT1	188.8951376	1.366906646	0.25366352	5.388660784	7.10E-08
C603590CA	156.6918843	1.362951319	0.28065012	4.856407368	1.20E-06
MED21	82.29850909	1.359552164	0.36928516	3.681578108	0.000231795
CR03400WA	331.0518415	1.357130107	0.22177231	6.119475028	9.39E-10
C111850WA	3971.109433	1.353939516	0.1196071	11.31989294	1.05E-29
SGA1	177.8498418	1.353077563	0.2592875	5.218445086	1.80E-07
TAF60	392.8997141	1.348407703	0.18900109	7.134391298	9.72E-13
DBF4	316.546106	1.346882769	0.20528429	6.561061165	5.34E-11
DAD2	109.7525758	1.346601624	0.33854402	3.977626364	6.96E-05
C602250WA	59.98234614	1.343435432	0.42177566	3.185189539	0.001446592
LIP8	270.9078131	1.341323237	0.26366011	5.087319517	3.63E-07
C503460CA	199.2168471	1.335802872	0.27936518	4.781565319	1.74E-06
C700420CA	554.4606212	1.328440581	0.16978386	7.824304435	5.10E-15
C702370WA	2210.73472	1.328349909	0.13200079	10.06319662	8.03E-24
KIP3	210.2438531	1.327283949	0.25230782	5.26057391	1.44E-07
C501050CA	342.2791354	1.325216641	0.20013162	6.621725593	3.55E-11
C105480CA	32.23354857	1.324281568	0.57058409	2.320922691	0.020291017
PPH3	105.8753302	1.317830182	0.32461782	4.059636032	4.91E-05
TLG2	142.0643696	1.317626025	0.30783981	4.280232695	1.87E-05
ARO9	239.6951561	1.3169607	0.22993313	5.727581406	1.02E-08
CR09590WA	267.7605764	1.308775326	0.22169516	5.903490826	3.56E-09
MLC1	656.5479219	1.307446706	0.18613628	7.02413673	2.15E-12
CTA9	334.2404688	1.304490338	0.1991557	6.550102955	5.75E-11
C101090CA	740.1355282	1.303264024	0.15978896	8.156158098	3.46E-16
C306630WA	56.98156968	1.302483482	0.43669036	2.982624757	0.002857881
PIM1	769.7477953	1.30202542	0.15637733	8.326177628	8.35E-17

CR05200CA	540.1346461	1.302020686	0.18055984	7.211020218	5.55E-13
ZSF1	2578.129025	1.301267785	0.12316115	10.56557011	4.30E-26
C406940CA	158.6333666	1.301266714	0.32474377	4.007056776	6.15E-05
EXO1	232.8567997	1.300148352	0.23835297	5.454718598	4.91E-08
TSC11	154.1878676	1.298223826	0.29546543	4.393826417	1.11E-05
C108140WA	162.3417807	1.295247982	0.27517439	4.707007666	2.51E-06
COX19	362.7474184	1.295136127	0.20835151	6.216111047	5.10E-10
C207610CA	263.7808733	1.294434432	0.22656648	5.71326548	1.11E-08
VPS51	82.83144161	1.294426771	0.36245804	3.571245884	0.000355287
C703780CA	212.1115682	1.293125196	0.24902297	5.192794776	2.07E-07
C108440CA	90.5540057	1.290432852	0.36364727	3.548583953	0.000387309
C504540CA	74.71325919	1.289572996	0.39096757	3.298414192	0.000972326
C503400CA	223.9430544	1.287936939	0.23425569	5.497996504	3.84E-08
RNH35	116.0166427	1.287924308	0.31411231	4.10020323	4.13E-05
C113770CA	33.09061946	1.283913927	0.55851437	2.298801942	0.021516189
C104030WA	277.9333975	1.28122379	0.21681374	5.909329353	3.44E-09
HGT20	60.01914668	1.279903642	0.45088927	2.838620789	0.004530897
C105210CA	904.0497981	1.279837229	0.14648119	8.737212082	2.39E-18
ERG27	249.0132205	1.278537738	0.25052879	5.103356536	3.34E-07
C205510CA	147.9502824	1.277947396	0.27684693	4.616079337	3.91E-06
AKR1	1592.387907	1.277054874	0.12974366	9.842907693	7.36E-23
NRM1	262.0931663	1.274673127	0.22152142	5.754175621	8.71E-09
C405340WA	222.165312	1.270780677	0.25385858	5.005860604	5.56E-07
SFH5	180.2651284	1.269446186	0.26579393	4.776054081	1.79E-06
SWI6	341.9393429	1.26888706	0.20922106	6.064815121	1.32E-09
KTR2	41.52563634	1.268065052	0.50371588	2.517421227	0.01182174
VMA22	48.80222972	1.265461625	0.47817068	2.646464286	0.008133809
FMP27	531.7061815	1.263639448	0.18660907	6.771586351	1.27E-11
HMX1	1864.843418	1.262499492	0.14112643	8.945875337	3.69E-19
C207100WA	827.2592477	1.262140449	0.1581319	7.981567737	1.44E-15
HHF22	7990.380404	1.261454771	0.11380398	11.08445236	1.49E-28
C104160CA	50.35442436	1.257661684	0.45385768	2.771048563	0.005587609
CDC7	177.0196017	1.25413355	0.25952915	4.83234182	1.35E-06
CR08450CA	413.0679222	1.25333773	0.23069928	5.43277706	5.55E-08
COQ4	413.1869996	1.253118922	0.18896793	6.63138422	3.33E-11
SOL1	585.8355798	1.252672905	0.16818262	7.448289684	9.46E-14
ASK1	274.6329302	1.251230164	0.21754052	5.751710694	8.83E-09
C504620CA	259.3343915	1.249685513	0.23495189	5.318899605	1.04E-07
C202050CA	642.0492131	1.249345558	0.22136689	5.643777849	1.66E-08
AMN1	286.8722167	1.249069699	0.23554518	5.302887919	1.14E-07
C203490CA	166.5210895	1.248945188	0.26979571	4.629225538	3.67E-06
PET100	478.2221854	1.248124305	0.17706021	7.049151878	1.80E-12
HAT2	470.9204341	1.24675564	0.18345055	6.79613993	1.07E-11
RAD54	210.1088989	1.243096867	0.2464124	5.044782012	4.54E-07
AGM1	342.3373583	1.242918716	0.2439595	5.094774888	3.49E-07
CR10830CA	436.6473907	1.241467353	0.18764678	6.615979924	3.69E-11
C600540WA	97.77746839	1.240507599	0.34659151	3.579163287	0.000344696
C100790WA	43.33206417	1.239297999	0.49083501	2.524876959	0.01157388
C302580CA	88.94524466	1.23875888	0.35920901	3.448574075	0.000563555
C502900WA	230.6561898	1.238233492	0.23631527	5.239752444	1.61E-07
CR04020CA	249.6150182	1.234163041	0.23223911	5.31419115	1.07E-07
C401860CA	156.5331007	1.230617134	0.28477965	4.321295848	1.55E-05
GIG1	530.5598996	1.229117089	0.177292	6.932727473	4.13E-12
MED11	81.45406247	1.228686677	0.37082749	3.313364629	0.000921807
NGS1	324.4239462	1.228643635	0.21702053	5.661416593	1.50E-08
C112690CA	35.61851397	1.227019776	0.55028183	2.229802466	0.02576056
C604340WA	220.3357778	1.226602987	0.24325906	5.042373205	4.60E-07
C207690WA	74.10122215	1.226361422	0.38331212	3.199380736	0.001377232

C201750CA	3682.296093	1.225717031	0.12101928	10.12827878	4.14E-24
C100910WA	132.611511	1.225547587	0.28975972	4.229530525	2.34E-05
C113060CA	1376.859496	1.225100553	0.13124187	9.334677855	1.01E-20
MEF2	300.0573231	1.223532123	0.21767668	5.620869108	1.90E-08
C101070CA	391.2044035	1.222958721	0.19593128	6.24177385	4.33E-10
MAM33	2644.812302	1.2226254	0.1448231	8.442199013	3.11E-17
SPC98	228.7947359	1.222388748	0.25139658	4.862392141	1.16E-06
CR01360WA	131.8186768	1.220722471	0.30224631	4.038833388	5.37E-05
CR03020CA	232.5449587	1.220402389	0.24742192	4.932474847	8.12E-07
KIP4	704.2592431	1.220025839	0.16709758	7.301277747	2.85E-13
CDC27	192.6765203	1.219685109	0.2734447	4.460445247	8.18E-06
CR00990WA	307.3463847	1.219362844	0.2086466	5.844154024	5.09E-09
ZCF14	40.13206831	1.219249866	0.5033232	2.422399519	0.015418389
C505000CA	317.1107689	1.218256501	0.21077642	5.779852078	7.48E-09
DUN1	172.2984308	1.217846512	0.25854353	4.710411948	2.47E-06
C113240WA	610.1439522	1.217051367	0.17886648	6.804245243	1.02E-11
MTW1	164.5773787	1.216499614	0.26601795	4.57299816	4.81E-06
C303310CA	95.86501226	1.215811262	0.34141543	3.561090547	0.000369318
C110080WA	112.65988	1.21269649	0.3211905	3.775629974	0.000159604
CR08130WA	369.6815811	1.211547509	0.19649898	6.165668216	7.02E-10
POL32	146.4215262	1.211469084	0.27654016	4.380807061	1.18E-05
C601220CA	537.159813	1.21112922	0.17213972	7.035733539	1.98E-12
PGA54	1039.041181	1.210654486	0.15273752	7.926372489	2.26E-15
PSY2	134.8545983	1.208169745	0.29839217	4.048932521	5.15E-05
C307280CA	491.418731	1.208167622	0.18365805	6.57835358	4.76E-11
CR10440WA	148.4468007	1.204050701	0.27464794	4.383978641	1.17E-05
C602190CA	480.4698454	1.203414895	0.17717975	6.792056817	1.11E-11
CLC1	855.6259232	1.202517064	0.14624151	8.222816209	1.99E-16
C504140WA	392.9102744	1.202448663	0.18739769	6.416560748	1.39E-10
CR05970CA	359.1375754	1.201211847	0.19810998	6.063358483	1.33E-09
TSA1	5773.608134	1.201138333	0.11590729	10.36292298	3.66E-25
C600660CA	245.4511258	1.20034926	0.26811312	4.477025369	7.57E-06
TSA1B	5720.564863	1.19821413	0.11639604	10.29428611	7.48E-25
C300380CA	218.4589261	1.198120679	0.23612098	5.074181292	3.89E-07
MGM101	367.3064254	1.196978974	0.19893888	6.016817765	1.78E-09
DAM1	331.8655438	1.195446199	0.20392865	5.862080711	4.57E-09
C207180WA	44.80117837	1.193187544	0.52550416	2.270557766	0.023173763
CR07760WA	343.1213871	1.192341836	0.20861412	5.715537508	1.09E-08
C301310WA	92.00090598	1.190433172	0.36650724	3.248048209	0.001161996
C500920WA	49.92615452	1.190067047	0.45961985	2.589242051	0.009618746
CR10530WA	219.3923012	1.189471113	0.26183166	4.542884979	5.55E-06
C110090CA	503.5056314	1.18858447	0.17642927	6.736889316	1.62E-11
TTR1	769.9040073	1.186325932	0.17662784	6.716528398	1.86E-11
GPI19	51.88650264	1.18465344	0.47630644	2.487166534	0.012876511
C600400CA	162.6001755	1.183574802	0.27649696	4.280606872	1.86E-05
C503290CA	149.5881228	1.183356473	0.29070981	4.070576336	4.69E-05
C304690CA	170.7944227	1.183159249	0.28171456	4.19985124	2.67E-05
C112120WA	92.65320689	1.182936532	0.38274186	3.090690216	0.001996919
SCO1	1675.24663	1.182757184	0.15287477	7.73677178	1.02E-14
PRS	246.7117267	1.181858585	0.224972	5.253358477	1.49E-07
C202260WA	733.7417825	1.180627582	0.16490946	7.159247004	8.11E-13
CR10290CA	291.6485948	1.17901756	0.20905369	5.639783484	1.70E-08
MDJ2	57.08103702	1.178885377	0.44072261	2.674891973	0.007475333
C306540CA	127.1112667	1.174995931	0.30513188	3.850780581	0.000117742
C703640CA	147.8580744	1.174951333	0.27731406	4.236897798	2.27E-05
HTA1	7530.385793	1.174399826	0.11322075	10.37265575	3.30E-25
C202870WA	190.1345526	1.171135394	0.27313588	4.287739033	1.81E-05
HHT2	10466.08014	1.170810553	0.12254584	9.554061901	1.25E-21

C701590CA	377.9170338	1.170198543	0.23102588	5.065227008	4.08E-07
INT1	2032.588107	1.168739994	0.14390318	8.121710903	4.60E-16
C304840CA	179.5212783	1.167985993	0.2572682	4.539954723	5.63E-06
FAB1	733.4393705	1.166032234	0.15812249	7.374233856	1.65E-13
CR07220CA	140.6607898	1.16442402	0.2965863	3.9260883	8.63E-05
C202550CA	152.0086406	1.164369788	0.32215572	3.614307306	0.000301152
C207370WA	496.6368102	1.159334999	0.17789915	6.516810074	7.18E-11
CR05860WA	479.6098019	1.154947773	0.19881814	5.80906646	6.28E-09
MAD2	84.8328731	1.152394658	0.35935304	3.206859368	0.001341926
C306810WA	270.289079	1.152344753	0.21963421	5.246654115	1.55E-07
C202670CA	62.09976552	1.152196079	0.45994838	2.505055201	0.012243228
CR04650WA	91.80532929	1.151759905	0.34254929	3.362318729	0.000772909
GIN4	799.4229078	1.150036663	0.15446177	7.44544541	9.66E-14
GCN5	344.351666	1.147970036	0.21881163	5.24638492	1.55E-07
MRPL33	276.4476376	1.143648129	0.21788915	5.248761331	1.53E-07
CHA1	2217.618727	1.142790906	0.13200226	8.657358546	4.83E-18
C503000CA	263.3202765	1.142467369	0.21890898	5.218914988	1.80E-07
C207800WA	214.235004	1.141362229	0.24250264	4.706597221	2.52E-06
DAD4	182.654784	1.141272101	0.25673932	4.445256373	8.78E-06
NCE4	54.21775059	1.141159059	0.45155991	2.527148732	0.011499279
C502740WA	227.7683272	1.140202348	0.23133954	4.928696384	8.28E-07
C602310WA	283.3438655	1.138951327	0.22647516	5.029034235	4.93E-07
C105320CA	192.8542391	1.138297158	0.25107145	4.53375783	5.79E-06
CR02930WA	442.8913871	1.137523547	0.19145466	5.941477309	2.82E-09
C301780CA	54.79394805	1.137181631	0.45988824	2.472734763	0.013408362
SWE1	868.8404259	1.136842182	0.15151485	7.503173425	6.23E-14
BET4	108.0036059	1.135912107	0.34168277	3.32446415	0.000885886
TIM12	136.623634	1.135573716	0.28832647	3.938499668	8.20E-05
C209790WA	251.5117362	1.134944056	0.22632905	5.014575184	5.32E-07
C306690CA	233.1277754	1.134465111	0.23192889	4.89143515	1.00E-06
C113190WA	5774.269018	1.133778314	0.13222813	8.574410903	9.96E-18
CEX1	216.0878801	1.132550411	0.24080487	4.703187251	2.56E-06
C104340CA	88.93012919	1.12941817	0.35474987	3.183702799	0.001454042
C203460CA	295.1664393	1.126047117	0.2391338	4.708858037	2.49E-06
C105390CA	322.5023523	1.124608582	0.2038352	5.517244369	3.44E-08
CR03460WA	214.1016844	1.124136976	0.24427603	4.601912754	4.19E-06
SWD3	143.4585705	1.123184705	0.27980032	4.01423671	5.96E-05
ASH2	392.3324501	1.122102399	0.18638544	6.020333025	1.74E-09
FRP1	938.8006652	1.121772745	0.17338227	6.469939348	9.80E-11
C703000CA	274.8707121	1.120778126	0.22655169	4.947118707	7.53E-07
TEM1	141.1244118	1.117940817	0.30179554	3.704298719	0.000211976
CR05880WA	149.8389053	1.117909629	0.2914093	3.836218148	0.000124943
MRPL6	260.7215843	1.116528529	0.22169537	5.036318698	4.75E-07
ASH1	1739.047127	1.115334803	0.16035974	6.955204465	3.52E-12
C700190WA	690.4415371	1.112552494	0.20289366	5.483426605	4.17E-08
AMO2	436.8630368	1.112435088	0.18060558	6.159472404	7.30E-10
ROB1	2457.993874	1.109755144	0.1313567	8.448408899	2.95E-17
C205870WA	111.6911386	1.106738675	0.32341537	3.422034846	0.000621543
TUB1	3963.183694	1.10581692	0.12568816	8.798099015	1.39E-18
C604450WA	197.119144	1.10329244	0.2716074	4.062085332	4.86E-05
C105780WA	563.1242098	1.103274735	0.17753278	6.214484559	5.15E-10
HSL1	587.0861123	1.102472002	0.18412369	5.987670735	2.13E-09
C108730WA	162.1483694	1.101284489	0.28867163	3.815007672	0.000136179
C502750CA	227.9904601	1.100859249	0.23831401	4.619364392	3.85E-06
C404920WA	147.6040641	1.099646487	0.2918788	3.767476442	0.000164906
VPS8	171.7741048	1.098381515	0.26016201	4.221913511	2.42E-05
ZCF28	50.49829205	1.096346684	0.4664056	2.350629318	0.018741694
C402420CA	102.1918488	1.094872946	0.35106203	3.118744953	0.001816231

MYO2	1185.211022	1.093908758	0.13564808	8.064314425	7.36E-16
TAF19	134.6156947	1.093497455	0.30548121	3.579589925	0.000344134
C601000CA	102.3020088	1.091386445	0.36555728	2.985541574	0.002830767
CR03600CA	320.5226108	1.090200785	0.2209962	4.933120097	8.09E-07
C110330CA	146.9935411	1.089668206	0.29136248	3.739905745	0.000184089
PKC1	1109.230084	1.088365794	0.14368521	7.574654283	3.60E-14
C110920WA	141.4914634	1.088223916	0.28653157	3.797919776	0.000145916
ARC18	88.85716215	1.087179077	0.34459965	3.154904786	0.001605505
APL4	398.3565648	1.086982865	0.1896281	5.732182581	9.91E-09
C500550CA	150.6114114	1.08598398	0.27567733	3.93932997	8.17E-05
CR06770CA	93.11823391	1.085639069	0.33749633	3.21674334	0.001296545
C204160WA	132.0981908	1.08414017	0.29045621	3.732542611	0.000189557
C505060CA	70.65825018	1.082183047	0.42706904	2.53397682	0.011277619
BPH1	377.6746071	1.08199755	0.20688833	5.229862565	1.70E-07
CR08270WA	323.6949587	1.081942634	0.20642198	5.241411929	1.59E-07
COX15	2226.965895	1.080764706	0.14645811	7.379343587	1.59E-13
C106070WA	512.9322762	1.08028241	0.17659726	6.11720944	9.52E-10
LRG1	1575.344325	1.078852767	0.14386449	7.499090281	6.43E-14
MMS21	116.2952726	1.078835916	0.32778874	3.291253719	0.000997419
C403780CA	471.9202684	1.077519831	0.18559813	5.805660961	6.41E-09
C208930WA	477.9100857	1.073831219	0.18036609	5.953620251	2.62E-09
C600890WA	336.0296084	1.073399713	0.23205349	4.62565637	3.73E-06
C502040WA	784.1916235	1.071443988	0.15218293	7.040500358	1.92E-12
CDC11	723.0105491	1.071150611	0.15860568	6.753545165	1.44E-11
C202840CA	228.7768209	1.068994196	0.237575	4.499607316	6.81E-06
C501300CA	78.35848791	1.068417733	0.39220755	2.724113092	0.006447442
CHT2	12044.07387	1.066249624	0.13142989	8.112687615	4.95E-16
C302720WA	181.9190028	1.066196125	0.29783052	3.579875333	0.000343758
PUT4	80.58683008	1.064358355	0.36075133	2.950393413	0.003173695
VPH2	98.68699765	1.063759999	0.36170504	2.940959871	0.003271969
CR00060CA	410.9313663	1.063140072	0.23950173	4.438966231	9.04E-06
CR04450CA	656.3684349	1.062399025	0.16035721	6.625202708	3.47E-11
AGP2	1468.736128	1.061878264	0.13209943	8.038477269	9.10E-16
C300530CA	169.1268012	1.060078343	0.28483517	3.721725581	0.000197866
C102500WA	58.4064768	1.060006815	0.42493086	2.494539477	0.01261207
LYS5	54.32709469	1.059968511	0.43448571	2.439593477	0.014703798
C402680CA	53.49006088	1.059838512	0.43609528	2.430291185	0.015086697
MSW1	202.4929416	1.059626591	0.24074058	4.401528853	1.07E-05
RNR22	1072.050994	1.058708581	0.15597933	6.787492933	1.14E-11
DEM1	123.9688018	1.05631466	0.32422136	3.258004553	0.001121986
COX13	5709.270715	1.054663815	0.11141892	9.465751191	2.91E-21
ALG7	149.3919814	1.052850211	0.27756636	3.793147798	0.00014875
MAF1	753.0903038	1.051545837	0.15246828	6.896817008	5.32E-12
C209180WA	59.47972501	1.050042999	0.43054093	2.438892386	0.014732355
CDC14	714.4206857	1.049805641	0.18218696	5.762243481	8.30E-09
C404130WA	479.3853845	1.04856948	0.19896306	5.270171623	1.36E-07
C504580CA	97.94698453	1.0484795	0.34576342	3.032360963	0.002426489
MCM3	953.8256063	1.047817671	0.14973806	6.997670729	2.60E-12
YPD1	374.1620942	1.047690806	0.20706771	5.059653233	4.20E-07
GTR1	120.7495911	1.046697452	0.31043926	3.371665847	0.00074715
APC1	365.7043322	1.045942577	0.1922225	5.441311844	5.29E-08
SAS3	197.8799621	1.044841431	0.24481265	4.267922581	1.97E-05
TUB2	2971.787349	1.043763864	0.12165986	8.579360863	9.54E-18
RIM1	1287.267913	1.042514449	0.13853739	7.525148817	5.27E-14
SEC34	527.6198093	1.039632427	0.16986172	6.120463254	9.33E-10
C102490CA	311.6643016	1.03728022	0.20532221	5.051963077	4.37E-07
C405630WA	747.9527851	1.034392257	0.16022186	6.455999571	1.08E-10
C400050WA	305.6613546	1.033715842	0.20347122	5.080403321	3.77E-07

C405730WA	124.4414783	1.032811691	0.31010317	3.330542171	0.00086677
C406590WA	103.747733	1.028422768	0.37219458	2.763132004	0.005724961
SAS2	93.1597704	1.027654288	0.34346932	2.991982772	0.002771719
RAD53	161.7010704	1.027308335	0.2671296	3.845730094	0.000120194
C101800WA	197.5858996	1.027052979	0.24917486	4.12181619	3.76E-05
C303160CA	134.986705	1.026336113	0.3231405	3.176129607	0.001492543
C302410CA	202.3020325	1.025100198	0.24476371	4.188121724	2.81E-05
C207110CA	276.1622176	1.024976812	0.22250703	4.60649183	4.10E-06
FRE30	2406.262941	1.021081655	0.12672535	8.057438194	7.79E-16
C400580WA	62.69192912	1.01898049	0.40781581	2.49862922	0.012467468
CHS6	247.129865	1.018610304	0.24759918	4.113948603	3.89E-05
COX7	627.5261861	1.018161563	0.16623211	6.124939062	9.07E-10
SMD2	87.60418192	1.017245787	0.36893727	2.75723235	0.005829291
HMS1	1986.987843	1.016286996	0.13002859	7.815873531	5.46E-15
C301950CA	276.3466808	1.015770516	0.21259993	4.777849646	1.77E-06
C306240CA	124.8717354	1.014289015	0.29866654	3.396058371	0.000683638
C402110WA	75.94288418	1.014178451	0.38417119	2.639912791	0.008292736
MED20	130.8845185	1.013693002	0.30788942	3.292393099	0.000993387
CTA6	175.6740557	1.011047905	0.25742512	3.927541787	8.58E-05
C201860CA	74.71637579	1.010805412	0.38209233	2.645448076	0.008158281
MED16	277.5255339	1.010237644	0.2176909	4.640697723	3.47E-06
PMI1	543.4147547	1.007675552	0.18013525	5.593994371	2.22E-08
RAD10	92.74671614	1.007084781	0.36199338	2.782053034	0.005401621
ZCF10	191.710728	1.00693742	0.25180378	3.998897108	6.36E-05
SAC1	408.5802188	1.00530854	0.21183363	4.745745742	2.08E-06
CR07340CA	215.0786323	1.005265728	0.23888717	4.208119392	2.58E-05
C109910CA	511.5310404	1.004614724	0.18111521	5.546826898	2.91E-08
C114240WA	679.3993474	1.003224939	0.16076841	6.240186989	4.37E-10
RTT101	129.5914751	1.002673734	0.29903355	3.353047651	0.000799269
C205850CA	254.8417274	1.001459365	0.2437969	4.107760819	4.00E-05
RGD1	284.4820551	1.000931964	0.21523101	4.65050069	3.31E-06
C201930CA	233.9137674	1.00082794	0.23815072	4.202498149	2.64E-05
C106640CA	239.6921575	-1.002291821	0.26588586	-3.769631907	0.000163488
C111510CA	131.0283383	-1.00396982	0.30649913	-3.275604174	0.001054362
C604530CA	663.6487203	-1.005361921	0.15893994	-6.325420323	2.53E-10
DAL1	305.5745654	-1.005583868	0.26654793	-3.772619284	0.000161543
C604290WA	538.8631138	-1.006963722	0.18175786	-5.540138472	3.02E-08
C701510WA	275.600726	-1.006966869	0.23135878	-4.352404032	1.35E-05
C100540CA	485.756448	-1.008586134	0.1823041	-5.532437971	3.16E-08
CR00810WA	122.3990695	-1.010194154	0.30407852	-3.322149008	0.00089327
CNS1	283.6035098	-1.010909701	0.20973833	-4.819861548	1.44E-06
FEN12	705.2796571	-1.011424751	0.18010352	-5.615796632	1.96E-08
PEX12	430.8713836	-1.011676001	0.20537967	-4.925881849	8.40E-07
C503870CA	619.6743792	-1.012678309	0.16210691	-6.246978078	4.18E-10
PHR2	1360.817447	-1.012933364	0.15411845	-6.57243403	4.95E-11
C306420CA	676.4713197	-1.017615335	0.1656855	-6.141849174	8.16E-10
RPO26	639.2359782	-1.017819723	0.16123271	-6.3127373	2.74E-10
PRS5	1523.087541	-1.019083027	0.13084125	-7.788698604	6.77E-15
PGM2	1052.466125	-1.019580872	0.14322482	-7.118744341	1.09E-12
OYE2	444.3545045	-1.021081241	0.19322415	-5.284439095	1.26E-07
CR05100WA	287.8422194	-1.021741278	0.23612793	-4.327066565	1.51E-05
C209980WA	8825.221067	-1.022950018	0.10923462	-9.364705564	7.63E-21
C206990WA	216.3499459	-1.023555726	0.23809048	-4.299019902	1.72E-05
C500800CA	2706.965136	-1.023848378	0.12504507	-8.187835136	2.66E-16
IPL1	198.8088421	-1.025888491	0.25813758	-3.974192698	7.06E-05
ADE13	2134.275786	-1.02656128	0.11983579	-8.566399443	1.07E-17
C403050CA	489.5460533	-1.029986077	0.19452845	-5.294783721	1.19E-07
GAL10	2973.167811	-1.031073521	0.12106982	-8.516354878	1.65E-17

TRP5	626.2474022	-1.031317458	0.16161748	-6.381224721	1.76E-10
CTR2	984.1799273	-1.031912476	0.17113431	-6.029839639	1.64E-09
C503030WA	55.72963598	-1.032454365	0.4332168	-2.383227884	0.017161567
TRM2	214.6047128	-1.032688622	0.29674931	-3.48000344	0.000501407
ADA2	556.1249418	-1.032751174	0.16622897	-6.212822857	5.20E-10
BUD23	226.3202232	-1.033022741	0.22917173	-4.507636053	6.56E-06
C404110WA	55.8033756	-1.03379166	0.44890709	-2.302907853	0.021284028
RRN3	521.2757441	-1.033897721	0.190749	-5.420199979	5.95E-08
BUD21	305.8814335	-1.034379556	0.2139059	-4.835675759	1.33E-06
ZCF27	207.3235281	-1.034847739	0.24565578	-4.212592646	2.52E-05
C306760WA	416.6756866	-1.035569504	0.18532945	-5.587722304	2.30E-08
ZCF13	227.4080048	-1.038130981	0.23455555	-4.425949276	9.60E-06
C202520WA	275.155908	-1.038851314	0.23074403	-4.502180656	6.73E-06
CR10400WA	259.2480673	-1.03887804	0.21809402	-4.763441247	1.90E-06
C102780WA	328.3980719	-1.039406114	0.23405634	-4.440837219	8.96E-06
SOD6	603.5070329	-1.039733913	0.1645868	-6.317237625	2.66E-10
SAP98	120.1421543	-1.040343331	0.33880443	-3.070630835	0.002136071
CR00290WA	1853.142894	-1.040574224	0.12752386	-8.159839522	3.35E-16
RRS1	409.0418871	-1.040950838	0.18307379	-5.685963337	1.30E-08
C306550CA	232.9723694	-1.040969303	0.22998998	-4.526150725	6.01E-06
ADR1	534.9975481	-1.042170482	0.17180645	-6.065956555	1.31E-09
LPD1	5574.556676	-1.042217635	0.10763491	-9.682896361	3.56E-22
UGP1	942.711342	-1.044149735	0.14491479	-7.205266831	5.79E-13
C401930CA	175.1851556	-1.045036088	0.27935496	-3.740889708	0.00018337
FAD3	503.5271983	-1.045128946	0.17776909	-5.879137775	4.12E-09
ATG15	339.1947309	-1.046999822	0.19578318	-5.347751642	8.91E-08
C500760WA	272.1371747	-1.047164058	0.21384986	-4.89672559	9.74E-07
GCN4	3730.368115	-1.048188588	0.11375674	-9.214298767	3.13E-20
GTT13	160.825173	-1.048642524	0.26628079	-3.938107986	8.21E-05
POL93	3493.280617	-1.050275372	0.12740906	-8.243333368	1.67E-16
TRY5	100.8477632	-1.05242367	0.35660672	-2.951216626	0.003165248
TOK1	373.0370023	-1.053091318	0.19460254	-5.411498201	6.25E-08
C407150WA	53.06143095	-1.053146298	0.44342951	-2.37500274	0.01754882
C109650WA	2807.822719	-1.054965728	0.11901326	-8.864270547	7.70E-19
KT112	178.0725019	-1.055117875	0.26724622	-3.948111451	7.88E-05
HIT1	48.5510315	-1.057597658	0.45745281	-2.311927332	0.020781688
C306860CA	196.0042839	-1.058109851	0.25649584	-4.125251438	3.70E-05
BMS1	867.3765476	-1.05946285	0.15916632	-6.656325625	2.81E-11
WOR1	343.0695929	-1.059776861	0.20072168	-5.279832518	1.29E-07
C306740WA	192.6231777	-1.060831373	0.24826064	-4.273055002	1.93E-05
C405260WA	182.3534991	-1.062630371	0.27439324	-3.872655028	0.000107656
C502330WA	210.4177855	-1.063428178	0.2368081	-4.490674871	7.10E-06
MKK2	205.3732934	-1.063904857	0.23901517	-4.451202184	8.54E-06
C403190WA	303.7420245	-1.06490804	0.21149383	-5.035172968	4.77E-07
MEU1	305.6927435	-1.065187354	0.22591478	-4.71499635	2.42E-06
ARG8	270.1101965	-1.066288143	0.23169672	-4.602085652	4.18E-06
C703890CA	1437.582353	-1.066588662	0.13271348	-8.036777032	9.22E-16
YIM1	489.4311845	-1.066644238	0.1760578	-6.058488817	1.37E-09
ARH2	85.62408797	-1.067840805	0.37875005	-2.819381271	0.004811633
C107980CA	2624.207007	-1.068843658	0.12096031	-8.836317215	9.89E-19
IDI1	473.7806948	-1.073385881	0.17862393	-6.009194316	1.86E-09
C602660CA	60.55349971	-1.075033208	0.4489882	-2.394346239	0.016650023
C306560WA	2498.116773	-1.077095206	0.12265429	-8.781553656	1.61E-18
TSR2	197.9964724	-1.07798301	0.25499658	-4.22744097	2.36E-05
CCW14	187.1793342	-1.079555548	0.2633464	-4.099374543	4.14E-05
C111000CA	255.5703397	-1.080226103	0.23200648	-4.656016918	3.22E-06
C209160WA	151.0506187	-1.080886818	0.2751122	-3.928894503	8.53E-05
C107530WA	180.0954265	-1.080910714	0.26785771	-4.035391515	5.45E-05

GAP2	820.8221002	-1.081465667	0.17892627	-6.044197407	1.50E-09
ISA2	415.4653879	-1.083110438	0.18273269	-5.927294308	3.08E-09
CR09100CA	373.1607633	-1.084154181	0.20662643	-5.246928859	1.55E-07
C207760WA	399.6957933	-1.084207795	0.22261649	-4.87029421	1.11E-06
HSP21	5436.708014	-1.084344196	0.11093627	-9.774478362	1.45E-22
CR03270WA	135.6588526	-1.084644797	0.29976056	-3.618370636	0.000296464
CHS4	789.1872559	-1.085016604	0.15236948	-7.12095776	1.07E-12
RMT2	271.3995214	-1.08604197	0.24161619	-4.494905691	6.96E-06
CR02030CA	251.0069744	-1.086260048	0.22902093	-4.743060133	2.11E-06
C703240WA	1203.706999	-1.086333098	0.14157655	-7.673114746	1.68E-14
AAT22	454.5667292	-1.088520647	0.17816322	-6.109682269	9.98E-10
C205750WA	528.1365012	-1.088873772	0.16780625	-6.488874963	8.65E-11
C301560WA	659.3618228	-1.090467229	0.16251255	-6.710049492	1.95E-11
C108770WA	133.1908727	-1.091494293	0.29791993	-3.663716891	0.000248582
C204280WA	1801.217653	-1.093499344	0.12448058	-8.78449749	1.57E-18
C403770WA	107.1571887	-1.093781911	0.31712021	-3.449108133	0.000562441
WSC4	181.2166137	-1.095121238	0.26656659	-4.108246368	3.99E-05
FLO8	2218.026717	-1.095667241	0.1234193	-8.877600359	6.83E-19
C104040CA	595.4688403	-1.098148366	0.16289036	-6.741641361	1.57E-11
C703270WA	544.8944696	-1.098229464	0.19973479	-5.498438611	3.83E-08
CR05330WA	107.0583677	-1.098489927	0.31967161	-3.436307433	0.000589701
C603390WA	248.2227526	-1.098714614	0.23364817	-4.702431844	2.57E-06
RRN11	248.776854	-1.098825052	0.22085865	-4.975241098	6.52E-07
RPC40	513.1767415	-1.098904489	0.19368138	-5.673774511	1.40E-08
C701670WA	71.12146629	-1.104017975	0.38106584	-2.897184288	0.003765285
C113250WA	2528.501753	-1.104198266	0.13226111	-8.348624136	6.91E-17
C303670WA	491.9909493	-1.104468796	0.17331382	-6.372652727	1.86E-10
ERO1	6547.421892	-1.105833624	0.12275759	-9.008270878	2.09E-19
C206480WA	201.0808455	-1.106796184	0.24178495	-4.577605802	4.70E-06
C400680WA	302.105452	-1.108067844	0.21537834	-5.144750524	2.68E-07
OPT6	173.9440676	-1.113521385	0.26430976	-4.212940785	2.52E-05
MAL2	189.1357908	-1.114024507	0.26721606	-4.169002825	3.06E-05
C503150WA	1985.842866	-1.117629253	0.13794081	-8.102237872	5.40E-16
C205270WA	668.8919457	-1.117951706	0.16793136	-6.657194319	2.79E-11
C406470WA	770.8708839	-1.118355544	0.15189903	-7.362492905	1.81E-13
MNT3	163.9550818	-1.118512099	0.266864	-4.191318789	2.77E-05
C702850WA	379.3784056	-1.118625013	0.20449752	-5.470115323	4.50E-08
CR07480WA	1085.064789	-1.121970276	0.13992498	-8.018370234	1.07E-15
VAC8	1438.126962	-1.123742352	0.13147107	-8.54744997	1.26E-17
ADH2	3294.194567	-1.127224957	0.12123409	-9.297920581	1.43E-20
ECM4	772.6488369	-1.127795242	0.16156283	-6.980536716	2.94E-12
SPE2	1110.53096	-1.128617639	0.13692388	-8.242664485	1.68E-16
ALD6	1075.068429	-1.1297162	0.14729226	-7.669894989	1.72E-14
CR02890CA	327.7338204	-1.130752813	0.19862417	-5.692926618	1.25E-08
C205990CA	175.0320783	-1.131398654	0.25497107	-4.437360934	9.11E-06
C404660CA	1267.302468	-1.13312076	0.13604945	-8.328742085	8.17E-17
CR10620CA	286.5338388	-1.138396968	0.22006467	-5.173011	2.30E-07
DUG3	1280.800179	-1.139702657	0.13834984	-8.237831321	1.75E-16
MDM34	11970.55567	-1.139962477	0.10652448	-10.70141309	1.00E-26
C500310CA	270.6661612	-1.14255228	0.23518192	-4.858163803	1.18E-06
PEX4	163.9355869	-1.143232246	0.27125289	-4.214636237	2.50E-05
C304630WA	206.6526217	-1.143575303	0.24414723	-4.68395774	2.81E-06
SGD1	537.5132247	-1.147103281	0.18573859	-6.17590167	6.58E-10
C101160CA	339.0014129	-1.147697995	0.21160883	-5.423677125	5.84E-08
C700160CA	432.8253679	-1.14782142	0.18372846	-6.247379368	4.17E-10
C202710CA	465.8577533	-1.148335358	0.18883243	-6.081240293	1.19E-09
CR06020WA	154.646249	-1.148430446	0.28064299	-4.092140115	4.27E-05
CIT1	7806.875789	-1.151324031	0.11276199	-10.21021356	1.78E-24

C406850CA	496.6559142	-1.152652101	0.17132676	-6.727799412	1.72E-11
AUT7	857.339946	-1.153508157	0.14867189	-7.758751044	8.58E-15
FLC1	2341.060747	-1.154080508	0.12534184	-9.207464416	3.34E-20
C700770WA	564.0835716	-1.154165427	0.16512211	-6.98976895	2.75E-12
PRS1	934.2067458	-1.156053105	0.17660626	-6.54593506	5.91E-11
RIM11	205.6007404	-1.157066497	0.24847867	-4.656602818	3.21E-06
UBI4	20838.6078	-1.157333774	0.10944621	-10.57445301	3.91E-26
C401230CA	128.9113524	-1.157793728	0.29429782	-3.934088647	8.35E-05
AYR2	314.8890796	-1.159512656	0.2061126	-5.625627232	1.85E-08
EBP7	83.10237311	-1.161422121	0.37051635	-3.134604239	0.001720861
C103150CA	112.0432971	-1.162722035	0.33622781	-3.458137654	0.000543923
SDS24	29780.18667	-1.16640367	0.10407271	-11.20758479	3.74E-29
C104350CA	61.85772364	-1.167572554	0.41590408	-2.807312074	0.004995682
SLY41	853.5719712	-1.167996149	0.16296755	-7.167047498	7.66E-13
SAS10	615.5181806	-1.168879129	0.16824943	-6.947299319	3.72E-12
TPS2	885.5304587	-1.169530608	0.14825784	-7.888490651	3.06E-15
GCD11	2057.280563	-1.172048895	0.12069883	-9.71052442	2.72E-22
C112830CA	410.9180484	-1.172430264	0.19007267	-6.168326257	6.90E-10
C700040CA	188.5916442	-1.173463256	0.26489518	-4.429915495	9.43E-06
DAO2	269.2639311	-1.173771202	0.22375746	-5.245729998	1.56E-07
STD1	962.8422276	-1.177216866	0.14771497	-7.96951642	1.59E-15
ADE5,7	1066.38347	-1.177822013	0.14476552	-8.136067372	4.08E-16
PXA1	826.9623637	-1.180771308	0.15186189	-7.775297276	7.53E-15
C702340CA	328.2506594	-1.181457592	0.19846998	-5.95282772	2.64E-09
C106540CA	243.746732	-1.18291019	0.22565948	-5.242014235	1.59E-07
VCX1	347.3979514	-1.1830239	0.19759051	-5.987250506	2.13E-09
LEU1	479.7369804	-1.183955869	0.17985353	-6.582889219	4.61E-11
CR07080WA	829.9911586	-1.184373896	0.15884106	-7.456345736	8.90E-14
PET9	15591.89407	-1.186519715	0.11189594	-10.60377823	2.86E-26
C201540WA	70.87718166	-1.186763418	0.40223411	-2.950429578	0.003173324
GLY1	5737.4978	-1.188623815	0.12407803	-9.579647461	9.74E-22
C110840CA	4493.353314	-1.191033117	0.13021095	-9.146950697	5.86E-20
CHR1	1726.318357	-1.191064963	0.12804216	-9.302130913	1.38E-20
C205770WA	187.7808567	-1.195523886	0.27241169	-4.388665805	1.14E-05
C602380WA	921.0391905	-1.196658694	0.14595034	-8.199081184	2.42E-16
ALS5	323.7983605	-1.197184508	0.2243453	-5.336347582	9.48E-08
MAE1	510.2919196	-1.199683722	0.21049864	-5.699246884	1.20E-08
CTF1	227.7638688	-1.200404873	0.24639173	-4.871936463	1.11E-06
CDA2	43.69852181	-1.200553296	0.51106996	-2.349097734	0.018818966
C203530WA	304.5782759	-1.202771862	0.20927565	-5.747309097	9.07E-09
NEP1	289.3080958	-1.204527604	0.20898805	-5.763619544	8.23E-09
FAT1	353.8706243	-1.204649972	0.19315517	-6.236695539	4.47E-10
AHP1	974.1338375	-1.205250144	0.15496618	-7.777504334	7.40E-15
CR04240CA	795.1726054	-1.205321113	0.15724562	-7.665212469	1.79E-14
C205160CA	512.520973	-1.20558831	0.17302176	-6.967841963	3.22E-12
C110680CA	838.7082599	-1.2061944	0.14857132	-8.118622017	4.72E-16
NAG6	1455.217329	-1.208664737	0.14088864	-8.578865638	9.58E-18
LEU42	2280.213427	-1.209737104	0.12658851	-9.556453	1.22E-21
C112570CA	1067.231667	-1.21121775	0.13835898	-8.754168206	2.06E-18
HEM1	1525.719158	-1.211968511	0.12899018	-9.395819909	5.68E-21
SDA1	808.6637704	-1.215404097	0.14854616	-8.181996305	2.79E-16
CCC2	390.8305776	-1.216936705	0.19073503	-6.380247444	1.77E-10
STB3	2541.704428	-1.216958093	0.11888622	-10.23632578	1.36E-24
C110880WA	574.2851429	-1.217011287	0.16737572	-7.27113387	3.56E-13
C209070CA	465.9211496	-1.217047121	0.17854901	-6.816319516	9.34E-12
C104590WA	1125.310605	-1.217559926	0.14074389	-8.650889948	5.11E-18
C703730CA	415.6960372	-1.218799123	0.19369873	-6.292241321	3.13E-10
YAK1	627.3311997	-1.218967962	0.16708866	-7.295336111	2.98E-13

LEU5	296.2897441	-1.219482624	0.20752543	-5.876304511	4.20E-09
BUD22	278.7700493	-1.220888585	0.21694686	-5.627592707	1.83E-08
ECM38	139.6359991	-1.221774364	0.29800936	-4.099785161	4.14E-05
LIP4	80.6379317	-1.222303687	0.37016251	-3.302073148	0.00095973
ANT1	80.86959088	-1.222735079	0.37048705	-3.300344951	0.000965661
POT1	729.2032606	-1.225026813	0.15424043	-7.942319824	1.98E-15
C500510WA	142.6731699	-1.231024332	0.28060371	-4.387056581	1.15E-05
PGA23	721.9850565	-1.231632275	0.1739742	-7.079396233	1.45E-12
C204120CA	586.1850917	-1.23186212	0.16296595	-7.559015477	4.06E-14
NOC2	682.5472197	-1.232328698	0.15562192	-7.918734875	2.40E-15
TDH3	32889.12131	-1.233397061	0.10581375	-11.65630221	2.13E-31
CR04920WA	421.0232845	-1.234058763	0.18479827	-6.677869615	2.42E-11
TPK1	1321.846214	-1.234060061	0.13688277	-9.015452091	1.96E-19
C404160WA	330.1626688	-1.238827693	0.20987937	-5.902570093	3.58E-09
ITR1	536.3841121	-1.241414657	0.17235632	-7.202605765	5.91E-13
KRE30	1727.551015	-1.241963579	0.12721346	-9.762831397	1.63E-22
C201680CA	608.9948374	-1.243134095	0.16202112	-7.672666904	1.68E-14
C102450CA	165.796308	-1.243232944	0.27944819	-4.44888531	8.63E-06
POP3	180.4729022	-1.245848024	0.25885718	-4.812877899	1.49E-06
C106660WA	337.2321542	-1.245862736	0.2009686	-6.199290669	5.67E-10
CEF3	9986.896882	-1.247331935	0.10522815	-11.853596	2.06E-32
C202410WA	457.8243119	-1.247340536	0.19210876	-6.492887283	8.42E-11
BIO2	75.73025846	-1.24782984	0.380322	-3.280982523	0.001034462
LYS14	72.16284185	-1.249555375	0.38056872	-3.283389577	0.001025668
C110970WA	345.6373961	-1.249581394	0.19657445	-6.356784371	2.06E-10
TPS3	817.2323918	-1.250652344	0.17711111	-7.061399617	1.65E-12
C603370WA	13003.8362	-1.250917961	0.11315458	-11.05494721	2.07E-28
GUA1	1648.378867	-1.253393679	0.14484223	-8.653510166	4.99E-18
DBP7	502.5233315	-1.255685941	0.17134234	-7.328521149	2.33E-13
C101150CA	295.3772422	-1.25946468	0.20779514	-6.061088159	1.35E-09
ILV2	774.8220354	-1.261254059	0.16080353	-7.843447397	4.38E-15
SMM1	898.3683786	-1.262714971	0.14442046	-8.743324934	2.26E-18
FOX3	381.2103858	-1.262743866	0.19376139	-6.517004498	7.17E-11
POR1	7412.604665	-1.262905621	0.11248249	-11.22757568	2.99E-29
UTP15	499.846801	-1.262910331	0.17545755	-7.19781142	6.12E-13
PGA41	50.49461497	-1.267190384	0.45487427	-2.78580358	0.005339522
BUD5	761.2571232	-1.267438244	0.1555975	-8.145620861	3.77E-16
AGA1	95.25870724	-1.268711636	0.34209509	-3.708651944	0.000208366
C208240WA	2019.078229	-1.271403499	0.13170212	-9.653629468	4.74E-22
C104460CA	222.7040668	-1.272190652	0.23657651	-5.377502033	7.55E-08
C602350CA	387.6887168	-1.273007812	0.1939473	-6.563679075	5.25E-11
ALP1	359.9572385	-1.276600074	0.19975726	-6.390756796	1.65E-10
NOP5	2480.322877	-1.27695992	0.13075718	-9.76588766	1.58E-22
ECM1	238.28728	-1.281279905	0.24200648	-5.294403217	1.19E-07
C108040WA	73.12260677	-1.283107282	0.37937698	-3.382143216	0.000719226
CR00090CA	286.8825237	-1.285728351	0.21631345	-5.943820658	2.78E-09
C101140CA	612.7762879	-1.295808371	0.16876754	-7.678066577	1.62E-14
C500140CA	120.1423278	-1.295886636	0.3211186	-4.03553904	5.45E-05
OCH1	333.4017197	-1.296079114	0.20201486	-6.415761367	1.40E-10
C504910WA	157.1822611	-1.297005652	0.28432758	-4.561659625	5.08E-06
C405010WA	311.6270844	-1.297325512	0.21549252	-6.020280952	1.74E-09
C602420WA	1750.585508	-1.297746294	0.13470966	-9.633654117	5.76E-22
MOH1	521.747566	-1.298061082	0.17857824	-7.268864727	3.63E-13
RLP24	602.9497747	-1.301296418	0.16629615	-7.825174436	5.07E-15
CST5	108.1020238	-1.302987423	0.34552797	-3.771004188	0.000162592
CR08470WA	717.3784012	-1.303973556	0.15652688	-8.330668667	8.04E-17
C500790CA	2754.01814	-1.3068122	0.11759944	-11.11240199	1.09E-28
C601890CA	453.5992296	-1.30755012	0.17750479	-7.366280742	1.75E-13

C303460CA	37.15971897	-1.307776912	0.54033971	-2.420286496	0.015508283
HAS1	983.1806113	-1.309573018	0.14726344	-8.892723237	5.96E-19
HCA4	540.2827894	-1.313657169	0.18613324	-7.057617165	1.69E-12
C503980WA	518.1432442	-1.316510423	0.17338566	-7.592960319	3.13E-14
OPY2	1108.98856	-1.316550438	0.13696112	-9.612585256	7.07E-22
C100160CA	2521.159683	-1.318214494	0.12046704	-10.94253264	7.22E-28
IMP4	908.4521936	-1.318334386	0.14662878	-8.990966084	2.45E-19
NOP4	864.4234717	-1.319547993	0.14855804	-8.882373684	6.54E-19
NOC4	533.4002166	-1.32045796	0.17015984	-7.76010341	8.49E-15
HGT14	157.3503409	-1.320623157	0.28031099	-4.711278622	2.46E-06
DAC1	1008.814663	-1.32512616	0.17734747	-7.471920244	7.90E-14
GIR2	235.8502328	-1.326033634	0.2528418	-5.244519069	1.57E-07
YDJ1	2543.720003	-1.330374382	0.13208925	-10.07178358	7.36E-24
CR02800CA	142.5880727	-1.331541401	0.28255371	-4.712525003	2.45E-06
RIA1	880.3874534	-1.333522939	0.15386516	-8.666828468	4.44E-18
C106980CA	640.3334663	-1.335726594	0.16816731	-7.942843517	1.98E-15
CUP1	2101.053682	-1.336846088	0.13693933	-9.762323607	1.63E-22
OFI1	346.0047474	-1.33884754	0.1995669	-6.708765371	1.96E-11
C207430CA	1303.37073	-1.340794678	0.13635126	-9.833386984	8.09E-23
FAA21	162.2320203	-1.341778969	0.27055457	-4.959365394	7.07E-07
ENP1	701.2032344	-1.342402548	0.16871385	-7.95668264	1.77E-15
CAF16	299.839532	-1.342487419	0.21129214	-6.353702586	2.10E-10
C111270WA	10159.19465	-1.342580514	0.11413352	-11.76324481	6.04E-32
HGT4	348.3753315	-1.344062724	0.208869	-6.434955445	1.24E-10
SUA71	3725.273093	-1.345772314	0.112026	-12.01303555	3.03E-33
RRP15	369.9741313	-1.345938164	0.19381404	-6.944482178	3.80E-12
TPS1	1000.645272	-1.347016414	0.14780816	-9.113275117	7.99E-20
C114250CA	497.4317811	-1.34729409	0.18660045	-7.22020815	5.19E-13
C504690CA	122.2710863	-1.348463741	0.30707986	-4.39124772	1.13E-05
RGA2	462.9024017	-1.349069005	0.19346933	-6.973038011	3.10E-12
OPT2	109.2899156	-1.350049073	0.32004724	-4.218280579	2.46E-05
SOD3	19497.28728	-1.350806582	0.13154687	-10.26863338	9.76E-25
C601940WA	83.01427959	-1.352998079	0.36213536	-3.73616669	0.000186847
C102850WA	359.5570776	-1.358705137	0.19677969	-6.90470209	5.03E-12
SUI3	1386.28896	-1.359700723	0.13934359	-9.757898982	1.71E-22
BMT9	166.9750337	-1.36282777	0.26786585	-5.087724996	3.62E-07
C109840CA	822.3303853	-1.365945416	0.15107208	-9.041680215	1.54E-19
PHO86	390.2593319	-1.366646779	0.19707881	-6.93451904	4.08E-12
NOP6	291.5133072	-1.366687586	0.23079306	-5.921701354	3.19E-09
C600170CA	968.5671617	-1.366842631	0.14263454	-9.582830415	9.44E-22
PDE1	216.4102827	-1.371108276	0.23596189	-5.810719228	6.22E-09
C302020WA	612.7642719	-1.37142629	0.2085767	-6.575165301	4.86E-11
C604400WA	104.333153	-1.377607412	0.32761543	-4.204952726	2.61E-05
CR02060WA	75.08451734	-1.378373719	0.39491961	-3.490264076	0.000482543
C504290CA	656.9949524	-1.383322419	0.16730167	-8.268431684	1.36E-16
CTA8	958.969077	-1.38380529	0.15099979	-9.164286244	4.99E-20
EST1	799.6594777	-1.387162984	0.17033022	-8.143962808	3.83E-16
YTM1	556.529332	-1.387707652	0.17666084	-7.855207846	3.99E-15
CR06550CA	1886.71201	-1.387914271	0.13276863	-10.45363139	1.41E-25
C401500WA	327.8160761	-1.38886955	0.20911339	-6.641705331	3.10E-11
C301130CA	1715.65086	-1.388981423	0.12912757	-10.75666073	5.51E-27
NOP15	378.4915724	-1.390345991	0.19157877	-7.257307056	3.95E-13
NGT1	584.9199952	-1.3939312	0.17573276	-7.932107882	2.15E-15
RPL7	756.049489	-1.398157545	0.15722797	-8.892549899	5.97E-19
YVC1	345.8626058	-1.398164221	0.19827357	-7.051692212	1.77E-12
SEF1	1178.273087	-1.398646077	0.14752027	-9.481043333	2.52E-21
RAS1	848.9036826	-1.399123384	0.15187403	-9.212393821	3.19E-20
CR10410CA	868.5051323	-1.402340211	0.16681234	-8.406693279	4.22E-17

C401300WA	555.9584617	-1.403797414	0.18029783	-7.785991805	6.92E-15
C300640WA	620.5176622	-1.40393166	0.16429178	-8.545355418	1.28E-17
C112680WA	886.0613882	-1.40442591	0.14713521	-9.545138115	1.36E-21
C203000CA	87.31297767	-1.405015753	0.36160022	-3.8855501	0.000102098
C601400WA	251.7119834	-1.405510449	0.23399149	-6.006673381	1.89E-09
C403830WA	284.6398202	-1.41009882	0.2208421	-6.385099733	1.71E-10
C110440WA	482.7967864	-1.412771089	0.17546756	-8.051466061	8.18E-16
PRC3	527.6823061	-1.414300098	0.17581768	-8.044128978	8.69E-16
CR03360WA	654.8645139	-1.414708883	0.16042656	-8.818420673	1.16E-18
VTC4	2578.424725	-1.415924839	0.13052689	-10.84776377	2.04E-27
C203760CA	1501.890367	-1.416759381	0.12910376	-10.97380402	5.11E-28
URK1	192.0686728	-1.418067779	0.26726569	-5.305835382	1.12E-07
PES1	1100.075237	-1.420087193	0.1405697	-10.10237054	5.39E-24
UGA3	1207.581688	-1.420185504	0.1498635	-9.476527099	2.63E-21
C205810WA	153.1664039	-1.423843664	0.27762322	-5.128690923	2.92E-07
TSR1	858.4091822	-1.424235295	0.15398477	-9.249195676	2.26E-20
HEM3	1682.884062	-1.429297378	0.14345709	-9.96323945	2.21E-23
C105690CA	28.31315472	-1.431033224	0.61025926	-2.344959451	0.019029149
FMO2	59.19840985	-1.432943456	0.43017722	-3.331053818	0.000865179
C702600CA	543.375941	-1.434749956	0.17308885	-8.289095067	1.14E-16
YMC2	67.50197038	-1.436304631	0.40218145	-3.571285112	0.000355234
C202570WA	223.9565232	-1.436734143	0.23811025	-6.033903072	1.60E-09
C701070CA	622.7007834	-1.438590996	0.16240419	-8.858090448	8.14E-19
C208450WA	158.405912	-1.439204624	0.28191787	-5.105049388	3.31E-07
FRE10	103.5744499	-1.439692191	0.33173846	-4.339841101	1.43E-05
C301430WA	123.6887971	-1.439971869	0.32549998	-4.423876942	9.69E-06
WSC1	803.7152703	-1.440069747	0.15016726	-9.589771856	8.83E-22
C111200WA	914.164469	-1.444833589	0.15275144	-9.458723173	3.12E-21
C204080WA	1416.675219	-1.447552153	0.13836488	-10.46184637	1.29E-25
C303370CA	5439.424742	-1.447720337	0.11762539	-12.30789003	8.21E-35
C209870WA	435.7319209	-1.451527674	0.18783239	-7.72778137	1.09E-14
C505340WA	1109.589007	-1.451560517	0.13716682	-10.58244635	3.59E-26
PGA17	185.6684781	-1.454771083	0.25295828	-5.751031719	8.87E-09
C208100WA	1978.383107	-1.456667922	0.1399026	-10.41201441	2.19E-25
CHS3	943.720057	-1.458010074	0.14753876	-9.882217374	4.97E-23
PGA56	35205.67936	-1.458506572	0.10987005	-13.27483362	3.24E-40
TAZ1	143.6550794	-1.460267627	0.29185114	-5.003467305	5.63E-07
IFA14	69.55575726	-1.461387717	0.39199445	-3.728082697	0.000192942
C209660WA	404.7176613	-1.462911029	0.19217467	-7.61240299	2.69E-14
C703150WA	170.5834827	-1.46563292	0.27876881	-5.257521192	1.46E-07
JIP5	298.803384	-1.465878485	0.21557736	-6.799779239	1.05E-11
CR04870CA	195.3201489	-1.466267008	0.25913368	-5.658342035	1.53E-08
C305160CA	1009.885765	-1.468240657	0.14428505	-10.17597194	2.54E-24
C305410WA	776.3016212	-1.468368265	0.1590748	-9.230678194	2.69E-20
ALK8	229.2194449	-1.469992554	0.23340444	-6.298048677	3.01E-10
C107400CA	124.9823903	-1.471923835	0.32013019	-4.597891327	4.27E-06
C700940WA	611.1017502	-1.473770663	0.16187407	-9.104427302	8.67E-20
C405330CA	337.6703679	-1.474308304	0.20184715	-7.304082673	2.79E-13
C701990CA	150.1047609	-1.474602094	0.31999707	-4.608173779	4.06E-06
GNP3	300.9860754	-1.475873617	0.21476932	-6.871901552	6.34E-12
RER2	297.5805121	-1.476267833	0.21896961	-6.741884712	1.56E-11
CR00220WA	144.6607387	-1.477652934	0.33363127	-4.429000114	9.47E-06
C302710WA	3864.158508	-1.478148987	0.12798746	-11.54917086	7.45E-31
C503510CA	317.1449392	-1.478898418	0.21563613	-6.858305422	6.97E-12
C400100CA	256.7727502	-1.480875337	0.23299645	-6.355784985	2.07E-10
C208090WA	116.1249104	-1.483427954	0.36207265	-4.097045021	4.18E-05
PTC2	2871.722138	-1.484756819	0.11951776	-12.42289683	1.96E-35
UTP9	904.0979757	-1.484943251	0.14518385	-10.22801975	1.49E-24

CR06040WA	4342.532053	-1.485137256	0.12278352	-12.09557446	1.11E-33
BUL1	77.69414396	-1.487444311	0.39808436	-3.736505293	0.000186596
CR04860CA	303.8053465	-1.488178413	0.24871055	-5.983575756	2.18E-09
C105520WA	338.7219843	-1.491855537	0.23303386	-6.401883183	1.53E-10
C207290WA	619.2454324	-1.494020167	0.16509337	-9.049546999	1.44E-19
C209800CA	75.37988356	-1.497169756	0.40610763	-3.686632872	0.000227241
SAP9	13848.05513	-1.499885931	0.10995061	-13.64145112	2.27E-42
C400250WA	26.78746784	-1.500246744	0.6379839	-2.351543258	0.018695716
PGK1	6739.997011	-1.500269666	0.10668458	-14.06266612	6.44E-45
ADAEC	393.2381123	-1.500457256	0.2004279	-7.48626958	7.09E-14
LTV1	497.9403884	-1.500719783	0.18117817	-8.283115867	1.20E-16
C602290CA	519.0265865	-1.501023228	0.17949138	-8.362648038	6.13E-17
RGS2	692.7241444	-1.501101688	0.16581271	-9.052995249	1.39E-19
PFK1	1705.666829	-1.505130253	0.1284576	-11.71694226	1.04E-31
C305760WA	412.4684697	-1.50849626	0.19620173	-7.688496347	1.49E-14
C303410CA	1392.086973	-1.50900685	0.13607598	-11.08944347	1.41E-28
C108610CA	20966.01249	-1.511231234	0.11178961	-13.51853047	1.22E-41
RIM101	20524.02654	-1.511816522	0.10315443	-14.65585663	1.24E-48
CR09010CA	287.499334	-1.513111854	0.2253287	-6.715131568	1.88E-11
PRR2	371.209359	-1.513283116	0.20148039	-7.51082089	5.88E-14
ZCF17	212.116063	-1.513620542	0.2562239	-5.907413615	3.48E-09
CR10470CA	486.7364822	-1.516196899	0.17531887	-8.648224467	5.23E-18
IMH3	3618.410473	-1.516490664	0.11402964	-13.29909218	2.34E-40
C200770WA	159.1752556	-1.517377831	0.29957791	-5.06505239	4.08E-07
SCS7	3595.631813	-1.517577645	0.12907121	-11.75767736	6.45E-32
PWP2	538.8450883	-1.51894148	0.16920132	-8.977125279	2.78E-19
C702220CA	196.2599769	-1.519684611	0.26311614	-5.775717908	7.66E-09
FLU1	820.7429192	-1.519776931	0.15563173	-9.765212756	1.59E-22
AMS1	1847.640349	-1.519978737	0.132568	-11.4656538	1.96E-30
CR09700WA	80.51887804	-1.520409137	0.37719543	-4.030825937	5.56E-05
NCS2	538.4761212	-1.520959684	0.17493994	-8.694182136	3.49E-18
C302040CA	422.5732656	-1.521520724	0.19578731	-7.771293942	7.77E-15
C602800WA	892.872258	-1.522672156	0.1633624	-9.320823839	1.15E-20
GUT1	533.6268678	-1.526319556	0.16935554	-9.012516484	2.01E-19
CR00310CA	7400.335761	-1.528629945	0.10649454	-14.35406889	1.00E-46
C501420WA	330.0845895	-1.528762732	0.22025001	-6.941033735	3.89E-12
C602980CA	1175.741027	-1.531503484	0.1425685	-10.74222902	6.45E-27
C703850WA	419.5756303	-1.538105619	0.185348	-8.298474125	1.05E-16
C207790CA	34.96579622	-1.54066807	0.55516464	-2.775155278	0.005517536
VPS70	233.2395294	-1.544336034	0.25155238	-6.139222445	8.29E-10
NDE1	1003.391127	-1.544631494	0.15319319	-10.08289918	6.58E-24
UTP8	934.0813649	-1.544885938	0.14423522	-10.71087842	9.05E-27
C307070CA	223.3032148	-1.546475422	0.23628612	-6.544926987	5.95E-11
C205380WA	372.0224628	-1.546493557	0.20059053	-7.709703712	1.26E-14
CAT2	2102.952191	-1.54652877	0.12888609	-11.99919035	3.59E-33
UTP4	689.1470347	-1.54697522	0.16647793	-9.292374301	1.51E-20
C701910CA	173.8457407	-1.548569083	0.26846285	-5.7682808	8.01E-09
C101930WA	801.2682781	-1.548715789	0.15831802	-9.782308876	1.34E-22
C206510WA	815.0579049	-1.55085863	0.15084148	-10.28138006	8.55E-25
CR09060WA	47.15783612	-1.551703883	0.47452302	-3.270028662	0.001075366
THI4	33.69165452	-1.554069485	0.58365167	-2.662666026	0.007752432
AMO1	129.3796569	-1.557904323	0.31782448	-4.901775733	9.50E-07
PUT2	1357.470663	-1.55874025	0.13168046	-11.83729319	2.50E-32
C401290WA	667.7654905	-1.559013251	0.1632871	-9.547681382	1.33E-21
CR03440WA	36.45473575	-1.55946845	0.62357899	-2.500835471	0.012390072
PMC1	7934.905168	-1.559931974	0.11487866	-13.5789529	5.34E-42
C404860WA	67.1385008	-1.560166982	0.41529294	-3.756786684	0.000172109
CR06640CA	649.2353542	-1.560444564	0.16250186	-9.602625871	7.79E-22

C206550WA	33.37205408	-1.562675041	0.58497263	-2.671364365	0.00755436
C207630CA	282.5281063	-1.563662724	0.21768408	-7.183174625	6.81E-13
C109710CA	446.5771829	-1.564176174	0.18544731	-8.434612566	3.32E-17
C701030CA	755.8191685	-1.56539238	0.15647112	-10.00435348	1.46E-23
OPT4	155.2802649	-1.566084084	0.32057295	-4.885265776	1.03E-06
ENP2	489.1278837	-1.568295147	0.18032293	-8.697147502	3.40E-18
CR09740WA	570.486414	-1.570311735	0.1718785	-9.136173051	6.47E-20
QDR2	443.7919374	-1.572403773	0.18724472	-8.397586577	4.56E-17
CR04610CA	66.58943259	-1.573251423	0.40437454	-3.890579808	0.000100005
NOG1	1293.761847	-1.574015069	0.13730483	-11.46365365	2.01E-30
C202230CA	274.5301737	-1.576314351	0.22052639	-7.147962459	8.81E-13
ECI1	461.3937966	-1.577462202	0.18019342	-8.754272168	2.05E-18
YKE2	383.6943172	-1.578338387	0.19006092	-8.304381703	1.00E-16
CIC1	354.9534141	-1.579786937	0.19821183	-7.970195065	1.58E-15
UTP21	999.0412788	-1.58034562	0.14394585	-10.97875102	4.84E-28
IFG3	369.019973	-1.580871886	0.19301318	-8.190486502	2.60E-16
ASR3	1107.837326	-1.580923011	0.13877896	-11.39166216	4.60E-30
C502280CA	279.1481093	-1.584162493	0.24354718	-6.50454042	7.79E-11
CR04110WA	547.2858405	-1.584632792	0.20194078	-7.847017188	4.26E-15
NMD3	837.0221825	-1.584781621	0.15230942	-10.40501373	2.35E-25
VPS20	168.7558888	-1.587166848	0.26826926	-5.916320254	3.29E-09
C210140WA	85.39114007	-1.5886981	0.36906547	-4.304651109	1.67E-05
TIM17	623.8943026	-1.590923167	0.16414783	-9.692014762	3.26E-22
ZCF30	228.1443842	-1.591556807	0.23271304	-6.83913904	7.97E-12
UGA11	253.3409801	-1.59276595	0.23678324	-6.726683514	1.74E-11
C404020CA	56.68886733	-1.601478503	0.44243511	-3.619691235	0.000294955
CYS3	5927.965051	-1.60538001	0.11160999	-14.38383859	6.54E-47
RPF2	407.5581357	-1.608309671	0.19675098	-8.17434123	2.97E-16
C208420WA	217.526017	-1.609962658	0.25082005	-6.418795696	1.37E-10
C207420WA	198.4178188	-1.612848306	0.25531599	-6.317067309	2.67E-10
C210170CA	1123.310271	-1.618031599	0.14357086	-11.26991623	1.85E-29
HBR3	764.1684383	-1.618319204	0.16006198	-10.11057826	4.96E-24
NTH1	327.7520264	-1.621862305	0.22670161	-7.154171975	8.42E-13
SCH9	1000.180244	-1.622768461	0.14431018	-11.24500306	2.45E-29
C208180CA	381.2281288	-1.625250072	0.19642896	-8.273984077	1.30E-16
MRV3	21.80583564	-1.626047003	0.69588277	-2.336667989	0.019456454
PHR3	512.3534017	-1.627557712	0.18006463	-9.038741991	1.58E-19
C208950WA	714.2304085	-1.628388957	0.16752956	-9.720009948	2.48E-22
C200410CA	590.4176358	-1.628510501	0.16870732	-9.652874202	4.78E-22
C602230WA	736.9562405	-1.629578046	0.15414168	-10.57194915	4.02E-26
PGA11	43.87491837	-1.629858452	0.49099779	-3.319482234	0.000901845
CDR2	853.9205074	-1.634788097	0.15387529	-10.62411041	2.30E-26
ECM22	1834.917964	-1.635390566	0.12768137	-12.80837282	1.47E-37
CR03690WA	141.2923389	-1.638515047	0.29491301	-5.555926623	2.76E-08
IHD1	36.33191436	-1.638545743	0.53616529	-3.05604589	0.002242769
AUR1	1921.74161	-1.638778216	0.12480741	-13.13045592	2.20E-39
C301150CA	478.2803222	-1.639194024	0.20997853	-7.806483955	5.88E-15
CEK2	364.903487	-1.6439517	0.19709386	-8.340958412	7.37E-17
FAA2-3	142.1726129	-1.646530621	0.3054466	-5.390567768	7.02E-08
DIP2	640.1775243	-1.652322587	0.16498449	-10.01501744	1.31E-23
FLC3	418.4513356	-1.654537053	0.1856091	-8.914094311	4.92E-19
GDE1	994.1939947	-1.658858237	0.15669465	-10.58656558	3.44E-26
CR01630CA	214.8236651	-1.661582352	0.24099108	-6.894787819	5.39E-12
GDB1	155.3543599	-1.662096309	0.29748925	-5.587080241	2.31E-08
GST3	45.6328749	-1.662215006	0.49700629	-3.344454672	0.000824445
C200760CA	1766.058057	-1.662513828	0.12980698	-12.80758396	1.49E-37
CR01950WA	291.8750036	-1.662915977	0.2201364	-7.554025412	4.22E-14
GLN1	13885.26949	-1.666702736	0.11177757	-14.91088743	2.80E-50

MFG1	518.1343804	-1.669042357	0.1748495	-9.54559398	1.35E-21
NAN1	1035.809574	-1.672971376	0.14084387	-11.87819791	1.54E-32
DUR3	54.36692156	-1.673472602	0.44421262	-3.767278409	0.000165037
GPH1	4393.751256	-1.674982362	0.1160795	-14.42961326	3.37E-47
C101710WA	915.1530531	-1.675473783	0.15386561	-10.88920218	1.30E-27
C306370CA	472.5022126	-1.676427897	0.18019933	-9.303185984	1.36E-20
C406620CA	101.5743707	-1.678446404	0.33966766	-4.941437247	7.75E-07
NIP7	334.1069719	-1.682234503	0.20794406	-8.089841579	5.97E-16
C402260CA	379.3762088	-1.682836833	0.20681391	-8.136961688	4.05E-16
C101630WA	738.3186839	-1.686943151	0.15931635	-10.58863811	3.36E-26
C603320WA	204.3218024	-1.68703339	0.24591898	-6.860118614	6.88E-12
GSY1	2484.71592	-1.688219224	0.12365944	-13.65216663	1.96E-42
ARX1	784.1748146	-1.689156006	0.15318244	-11.02708618	2.83E-28
ELP3	656.9666746	-1.689340338	0.16112179	-10.48486591	1.01E-25
MNN15	216.3624577	-1.693337644	0.25130019	-6.738306174	1.60E-11
GIT3	297.5863536	-1.696161752	0.21492634	-7.891828122	2.98E-15
RTA4	542.2546422	-1.696468364	0.21389897	-7.931166507	2.17E-15
C110570CA	80.72190855	-1.696941719	0.37060093	-4.578892205	4.67E-06
C204570WA	740.7303141	-1.699461109	0.15831108	-10.73494741	6.98E-27
ECM21	5002.634745	-1.700431885	0.12191213	-13.94801236	3.23E-44
KRR1	423.5556122	-1.703238432	0.20052295	-8.493982415	2.00E-17
ASG7	25.92233775	-1.705671489	0.63427777	-2.68915539	0.007163307
RRP9	401.644211	-1.705682012	0.19370021	-8.805783026	1.30E-18
MUP1	6404.126059	-1.706158731	0.10908805	-15.64019875	3.88E-55
C208910CA	968.7844646	-1.710189548	0.15628975	-10.94242916	7.22E-28
HIP1	1131.62075	-1.715713062	0.13797109	-12.43530886	1.68E-35
C601450CA	795.6841812	-1.717379655	0.16058482	-10.69453294	1.08E-26
FMO1	111.9731297	-1.718413963	0.36405552	-4.720197464	2.36E-06
SPB1	784.6398624	-1.722555229	0.15599055	-11.04268995	2.38E-28
C210540WA	988.3298749	-1.724709325	0.16068893	-10.73321805	7.11E-27
OAC1	48.68441704	-1.724748484	0.51438889	-3.353004915	0.000799393
GAL4	761.4791029	-1.726214149	0.15571045	-11.08605208	1.47E-28
C104930CA	28.50697333	-1.730050906	0.60469827	-2.861015146	0.004222869
SOK1	6508.842327	-1.730265928	0.10838009	-15.96479573	2.25E-57
C206530WA	375.9247713	-1.736237815	0.21374756	-8.122842888	4.55E-16
OLE2	631.8089916	-1.737804368	0.16505748	-10.52847981	6.39E-26
HGT8	471.5513784	-1.738854211	0.19095096	-9.106286647	8.52E-20
C104710CA	249.4461179	-1.738956712	0.22671278	-7.670307507	1.72E-14
C108340CA	609.1653102	-1.740746772	0.16852403	-10.3293686	5.19E-25
C600260WA	1530.101423	-1.740770054	0.15570303	-11.18006505	5.11E-29
C405580CA	157.3766976	-1.740812116	0.29162479	-5.969355775	2.38E-09
C103790CA	1183.259824	-1.743504529	0.14004529	-12.449576	1.41E-35
AGP3	140.7538657	-1.744675168	0.28889688	-6.039093067	1.55E-09
REI1	515.275128	-1.746267076	0.17762355	-9.831281259	8.26E-23
C601620WA	254.232001	-1.747174102	0.22849609	-7.646407101	2.07E-14
C407140WA	1731.346317	-1.761100222	0.14571792	-12.08568081	1.26E-33
DBP2	3379.161414	-1.761248796	0.12705827	-13.86174067	1.08E-43
ADE12	1468.934006	-1.763030567	0.13042996	-13.51706737	1.24E-41
AFL1	1115.393814	-1.763304715	0.14365015	-12.27499415	1.23E-34
REP1	2769.391202	-1.764013421	0.15237559	-11.57674579	5.41E-31
C205330CA	442.6509823	-1.764235234	0.19393248	-9.097162269	9.27E-20
MSS4	1068.703962	-1.764742788	0.1407152	-12.54123802	4.44E-36
DDR48	970.5357923	-1.766508219	0.1538765	-11.48003865	1.66E-30
C404200CA	66.54281476	-1.768935751	0.41381937	-4.274656758	1.91E-05
GPR1	874.0651551	-1.768944755	0.15925429	-11.10767441	1.15E-28
PRY1	20.47715815	-1.773386609	0.71204134	-2.49056692	0.012753948
HPD1	722.728261	-1.780898467	0.16847375	-10.5707773	4.07E-26
C101130WA	2850.286229	-1.781744549	0.11951212	-14.90848465	2.90E-50

UTP18	857.2968767	-1.783296904	0.15687392	-11.3677078	6.06E-30
ZCF21	1002.697583	-1.786007342	0.15943683	-11.20197451	3.99E-29
DBP3	1013.69767	-1.788445465	0.1574454	-11.35914734	6.68E-30
PNG2	6776.658532	-1.789183782	0.11296115	-15.83892975	1.68E-56
YMC1	119.8222851	-1.791079601	0.31994139	-5.59814908	2.17E-08
HGT17	47.45796659	-1.794520304	0.52307636	-3.430704244	0.000602017
C101890CA	1074.758715	-1.802105001	0.15451051	-11.66331667	1.96E-31
CDC34	2521.191037	-1.80511691	0.12352869	-14.61293646	2.32E-48
NOG2	1283.445129	-1.811495954	0.15093937	-12.0014806	3.49E-33
PTH2	123.3670202	-1.811573147	0.32513219	-5.571804896	2.52E-08
CDR1	10527.46097	-1.820476726	0.10825842	-16.81602849	1.86E-63
PFK26	1124.690045	-1.823033879	0.14439129	-12.62565008	1.52E-36
FEN1	1058.681792	-1.828825229	0.15133252	-12.08481294	1.27E-33
C602210WA	27.24379687	-1.832265556	0.65730165	-2.787556586	0.005310718
PRC2	322.9637353	-1.832690756	0.20496316	-8.941561768	3.84E-19
HIS3	119.3483037	-1.834119252	0.34390496	-5.333215432	9.65E-08
MAK21	1094.521586	-1.834302395	0.14157134	-12.95673563	2.15E-38
C703310WA	55.0068916	-1.839505408	0.47617394	-3.863095492	0.000111959
MIS12	1123.497385	-1.840829561	0.13939887	-13.20548455	8.16E-40
PGA53	2155.361932	-1.841217982	0.13435859	-13.70376102	9.64E-43
GUT2	1445.916927	-1.848024452	0.14510131	-12.73609772	3.73E-37
C206630CA	247.8482491	-1.848539279	0.25601847	-7.22033566	5.19E-13
HNM4	42.18881089	-1.85504658	0.53211123	-3.486200765	0.000489933
C114350WA	652.6669829	-1.855442904	0.18006314	-10.30440169	6.73E-25
MNT2	150.3022385	-1.855518013	0.28768611	-6.449800512	1.12E-10
C209610WA	204.5692431	-1.856471077	0.26751155	-6.939779053	3.93E-12
CPA2	458.8705302	-1.859642081	0.19059328	-9.757123275	1.72E-22
RTA2	1565.394665	-1.860155971	0.1479135	-12.57597132	2.86E-36
C502680WA	585.9638296	-1.866627993	0.18120957	-10.30093468	6.98E-25
C104110WA	270.7835354	-1.869417451	0.22948871	-8.146010654	3.76E-16
ATO6	105.9046568	-1.8724054	0.35083409	-5.337010985	9.45E-08
EHD3	372.8381129	-1.876065097	0.19476436	-9.632486437	5.83E-22
RPC19	529.0168476	-1.876981665	0.20179761	-9.301307615	1.39E-20
POX1-3	2930.707949	-1.879552465	0.13299903	-14.13207614	2.41E-45
CR02960WA	275.0270189	-1.882858367	0.22069008	-8.531685696	1.44E-17
NOP13	464.1788255	-1.887279955	0.18085945	-10.43506408	1.71E-25
SFL2	921.9426193	-1.888110408	0.17018436	-11.09449999	1.33E-28
GOR1	46.8661797	-1.889472102	0.52174202	-3.621468128	0.000292936
C209510CA	1054.512666	-1.890565804	0.14794529	-12.77881705	2.15E-37
C110200CA	523.7836799	-1.894458075	0.19351017	-9.789966256	1.24E-22
C401220CA	75.09922424	-1.894463606	0.41391741	-4.576912104	4.72E-06
ROA1	1817.119897	-1.894600504	0.12850169	-14.74377921	3.37E-49
PDC11	9677.562966	-1.897857994	0.12941619	-14.66476492	1.08E-48
RIM8	602.1357895	-1.899269533	0.17646844	-10.76265858	5.17E-27
C603050CA	30.39668588	-1.900026043	0.72540037	-2.619279139	0.008811581
SOU2	16.44922638	-1.901393601	0.80918777	-2.349755736	0.018785734
FRP6	1168.693017	-1.902367778	0.14529749	-13.09291537	3.61E-39
CR09930WA	137.3005996	-1.903792228	0.31365486	-6.069704414	1.28E-09
C603310WA	275.7534679	-1.906242736	0.23297836	-8.182059315	2.79E-16
C307290WA	379.8521859	-1.906686643	0.20142686	-9.465900699	2.91E-21
NCE102	7026.14416	-1.907190019	0.10647742	-17.91168515	9.56E-72
C503920CA	476.1936008	-1.909423068	0.18892506	-10.10677498	5.16E-24
NSA1	390.8760793	-1.912044135	0.19796199	-9.658642485	4.52E-22
MRF1	794.1486479	-1.921216862	0.16164405	-11.88547824	1.41E-32
FTR2	719.9630838	-1.921734689	0.17036598	-11.2800377	1.65E-29
C206800CA	170.8323364	-1.922908896	0.26873331	-7.155454326	8.34E-13
AQY1	783.315496	-1.92524377	0.19592339	-9.826513003	8.66E-23
UTR2	2961.023215	-1.925718118	0.12764868	-15.08607961	2.00E-51

MSS11	1349.53052	-1.929979308	0.15133296	-12.75319889	2.99E-37
C101360CA	912.1506955	-1.930408712	0.15618196	-12.35999816	4.30E-35
C403720CA	119.0242868	-1.934565392	0.3157805	-6.126297916	8.99E-10
C306160CA	504.9474766	-1.93970911	0.17685125	-10.96802576	5.44E-28
DPP3	696.463527	-1.940009749	0.16149304	-12.01296206	3.04E-33
DIM1	271.9790182	-1.943527862	0.23099075	-8.41387737	3.97E-17
GCS1	1074.615946	-1.946110846	0.15539016	-12.52402859	5.52E-36
IFE1	46.24210755	-1.949488537	0.49375577	-3.948285057	7.87E-05
SEC14	3016.734867	-1.950604059	0.12724897	-15.32903571	4.89E-53
GAL102	819.2871112	-1.957950822	0.1527816	-12.8153577	1.35E-37
CDG1	2186.415237	-1.958921969	0.13155862	-14.89010737	3.82E-50
HYR1	208.786566	-1.96249906	0.24543126	-7.996124992	1.28E-15
CR06500CA	252.7624707	-1.963080727	0.25513434	-7.694302225	1.42E-14
SRP40	849.5996813	-1.964157356	0.15522734	-12.65342387	1.07E-36
C107790CA	152.226165	-1.965345377	0.3030118	-6.48603579	8.81E-11
C400080CA	570.9238226	-1.966458236	0.19025575	-10.33586731	4.85E-25
CMK1	478.5802849	-1.966787372	0.19055016	-10.32162531	5.63E-25
PPT1	283.6310184	-1.967070211	0.22131239	-8.888206553	6.21E-19
C105160CA	9958.430099	-1.974847168	0.11495352	-17.17952751	3.78E-66
GAD1	1064.285109	-1.985916102	0.15240729	-13.03032256	8.23E-39
PSP1	1483.18865	-1.989733013	0.13063612	-15.23110905	2.20E-52
CR01220WA	316.5221845	-1.990985185	0.22440161	-8.872419252	7.16E-19
C202220CA	30.04248259	-1.994289739	0.65567623	-3.041577015	0.002353424
C114180WA	606.5784101	-1.997034321	0.165258	-12.08434285	1.28E-33
C404330CA	706.8107793	-1.997236322	0.16100886	-12.40451203	2.47E-35
C106860WA	30.26473541	-1.997269473	0.60475664	-3.302600319	0.000957928
UAP1	614.2331897	-2.002218125	0.17351289	-11.53930481	8.36E-31
C505360CA	501.783922	-2.004824176	0.17844079	-11.23523453	2.74E-29
C111410CA	52.75179401	-2.006080166	0.50486701	-3.97348235	7.08E-05
C702000CA	13.70703408	-2.012410173	0.89161785	-2.257032174	0.024006064
C111770CA	733.8729833	-2.015252363	0.15847118	-12.71683851	4.77E-37
C100880WA	78.99364191	-2.015575131	0.378677	-5.322676422	1.02E-07
CPA1	393.6067405	-2.015764053	0.20715039	-9.730920655	2.23E-22
ZCF22	17.89858706	-2.017310871	0.83723934	-2.409479311	0.015975302
C100310WA	1034.457104	-2.017478432	0.14391497	-14.01854478	1.20E-44
CTN1	2183.440976	-2.020468173	0.1248941	-16.177451	7.27E-59
C301970CA	25.56731851	-2.023171569	0.66766313	-3.030228066	0.002443691
DED1	5840.530103	-2.024755663	0.11243617	-18.00804526	1.68E-72
C109130WA	964.4710344	-2.032038901	0.15262985	-13.31350936	1.93E-40
C306950WA	540.6184788	-2.03495427	0.1736936	-11.71577009	1.06E-31
C109780CA	432.7547863	-2.035963393	0.18840776	-10.80615447	3.22E-27
C601490CA	61.62338522	-2.038664337	0.46657723	-4.369403837	1.25E-05
C109430WA	184.3163908	-2.040190901	0.26174284	-7.794638676	6.46E-15
MAL31	449.3463711	-2.041232063	0.18796054	-10.85989682	1.79E-27
C109540WA	535.572963	-2.042649787	0.17871492	-11.42965448	2.97E-30
PDE2	1025.59968	-2.046959149	0.15009262	-13.63797325	2.38E-42
HAL21	271.4561656	-2.05828795	0.23481067	-8.765734425	1.86E-18
C305900WA	422.7994832	-2.070064301	0.19999256	-10.35070634	4.15E-25
C601590WA	2571.581832	-2.072083236	0.12167958	-17.0290143	5.00E-65
CR06510WA	139.5813271	-2.074707465	0.32194496	-6.444292491	1.16E-10
RME1	23.10537813	-2.079306001	0.68908165	-3.017503091	0.002548664
PRN3	66.94844114	-2.087244211	0.42596862	-4.899995277	9.58E-07
CDR4	12982.73166	-2.093179574	0.11067483	-18.91287889	8.93E-80
HPT1	672.4592727	-2.095180954	0.16732195	-12.52185392	5.67E-36
ARR3	765.561515	-2.097218807	0.17766669	-11.80423192	3.71E-32
DOT4	967.5935976	-2.101871323	0.15455656	-13.59936651	4.04E-42
GCA2	195.5672111	-2.105888012	0.25582624	-8.231712261	1.85E-16
FMP45	534.7069896	-2.109259973	0.19772043	-10.66789104	1.44E-26

TRY4	396.9660766	-2.109414388	0.20679164	-10.20067543	1.97E-24
C104800CA	48.06127483	-2.119682951	0.48859729	-4.338302757	1.44E-05
RNY11	115.1117885	-2.125499007	0.32301803	-6.580124988	4.70E-11
RMS1	602.4791094	-2.126255498	0.1828094	-11.63099662	2.87E-31
CR03480WA	100.6475495	-2.129277671	0.38337613	-5.554017372	2.79E-08
RCH1	381.6125635	-2.133704995	0.20399122	-10.45978844	1.32E-25
FAA4	7667.984004	-2.14255811	0.10905615	-19.64637631	6.21E-86
IFM3	359.062932	-2.144517214	0.20043833	-10.69913737	1.03E-26
KCS1	306.7863527	-2.147213576	0.22069329	-9.729401057	2.26E-22
C300170CA	1084.524051	-2.155990765	0.38682252	-5.573591591	2.50E-08
ZCF25	64.19034349	-2.157396308	0.4598157	-4.691871788	2.71E-06
CRH12	534.9876873	-2.159318146	0.18263105	-11.8233899	2.96E-32
RCT1	3025.827835	-2.160750372	0.13687017	-15.78686122	3.83E-56
ERG25	1269.289628	-2.163656777	0.13796945	-15.68214439	2.00E-55
C700260CA	481.763601	-2.16382474	0.18984285	-11.3979786	4.28E-30
GPD1	791.2776941	-2.166329056	0.16336735	-13.26047726	3.92E-40
C206600WA	2835.212135	-2.169703371	0.12367815	-17.54314264	6.71E-69
RBT7	74.82617848	-2.177170002	0.40934721	-5.318638913	1.05E-07
CR01920WA	13.46430207	-2.179942664	0.89759023	-2.428661307	0.015154682
GAL7	2999.515788	-2.180818836	0.13885431	-15.70580552	1.38E-55
GDH3	1592.168007	-2.181044658	0.13639117	-15.99109874	1.47E-57
YHB1	78546.28095	-2.186000409	0.10001276	-21.85721419	6.64E-106
OPT3	278.3257235	-2.187806495	0.2430414	-9.001785275	2.22E-19
SOU1	71.82552466	-2.189549599	0.41629174	-5.259651759	1.44E-07
PEL1	282.2321734	-2.193987764	0.22147454	-9.90627519	3.91E-23
C502370CA	204.8036571	-2.200019255	0.27868985	-7.894149316	2.92E-15
MAK16	728.7992398	-2.202251844	0.18249127	-12.06771054	1.56E-33
C113820CA	442.1962842	-2.20661131	0.1876836	-11.757081	6.49E-32
SSF1	816.5674607	-2.215685705	0.1580413	-14.01966225	1.18E-44
ZCF2	1175.794303	-2.216333398	0.15653312	-14.15887843	1.65E-45
C111680CA	168.6079379	-2.218260683	0.28277537	-7.844603696	4.34E-15
ELF1	2483.969424	-2.219643951	0.11944404	-18.58312891	4.40E-77
HGT7	2862.407922	-2.221557659	0.13204381	-16.82439819	1.62E-63
C703860WA	1727.905255	-2.224104495	0.14751725	-15.07691144	2.30E-51
C602480WA	382.0110281	-2.228059815	0.20549206	-10.84255906	2.16E-27
CR01280CA	258.6490525	-2.228399072	0.23728752	-9.391134641	5.94E-21
C601520WA	157.177892	-2.228826042	0.28457812	-7.832035744	4.80E-15
CTM1	2504.081599	-2.233201406	0.12919367	-17.28568785	6.03E-67
PHM7	1391.7928	-2.236681461	0.1354788	-16.50945721	3.14E-61
C301540WA	108.3489436	-2.237716666	0.37433137	-5.97790318	2.26E-09
CYC3	811.6740996	-2.240052824	0.16880804	-13.26982292	3.46E-40
ALK2	267.6843615	-2.241881932	0.229675	-9.76110567	1.65E-22
C208860WA	856.7937689	-2.243109966	0.1626028	-13.79502706	2.73E-43
RHR2	699.9302034	-2.246989794	0.16569985	-13.5606026	6.86E-42
CR03240CA	237.5595675	-2.247371987	0.23914625	-9.397479402	5.59E-21
CR04680CA	18.60559212	-2.249746707	0.77980938	-2.88499571	0.00391419
ZCF3	857.1927582	-2.25247302	0.16673449	-13.50934067	1.38E-41
C603800CA	2460.4356	-2.257072752	0.12115043	-18.63033279	1.82E-77
ZCF9	432.2975117	-2.258966982	0.20655769	-10.93625229	7.73E-28
PGA22	11.45889619	-2.272310861	0.97818958	-2.322975954	0.020180444
CR07540CA	31.57005884	-2.273959334	0.59713634	-3.80810744	0.000140034
C204670WA	17.36389018	-2.287399112	0.80054705	-2.857295048	0.004272685
GAP6	3127.727306	-2.288350684	0.11756666	-19.46428217	2.21E-84
CPP1	925.9848605	-2.288633993	0.18869675	-12.12863503	7.45E-34
C200750WA	219.1304263	-2.292777424	0.25678759	-8.928692463	4.31E-19
C306700CA	3725.360069	-2.31923168	0.11662193	-19.88675509	5.30E-88
BCR1	1898.126119	-2.322505763	0.13705896	-16.94530353	2.08E-64
FOX2	1780.652656	-2.323063495	0.13490019	-17.22060906	1.86E-66

MRV1	11.83423607	-2.325630654	0.96753165	-2.403673985	0.016231241
C209500WA	579.5705208	-2.32688843	0.17191818	-13.53485924	9.74E-42
C404520WA	536.695915	-2.327470834	0.19471755	-11.95306122	6.26E-33
C701940CA	2846.022599	-2.331177349	0.12269879	-18.99918812	1.73E-80
C602020CA	377.263971	-2.331613647	0.20829397	-11.19386075	4.37E-29
C404190CA	142.4166873	-2.333060851	0.31934864	-7.305685774	2.76E-13
C504380CA	97.05549377	-2.343602979	0.93517763	-2.506051158	0.012208795
C204000CA	22.76433149	-2.344681566	0.72407256	-3.238185936	0.001202924
MIG1	3118.391762	-2.356023895	0.11791549	-19.98061371	8.12E-89
C104720WA	237.3064436	-2.364515967	0.24089318	-9.815620052	9.64E-23
C504030WA	690.5910089	-2.375002788	0.16206141	-14.65495538	1.25E-48
SUR2	7952.026793	-2.378777485	0.11086403	-21.45671225	3.95E-102
CTA4	1485.450091	-2.391088594	0.13248645	-18.04779774	8.21E-73
C206520CA	190.3107144	-2.394707897	0.26353208	-9.086969082	1.02E-19
C111670WA	5274.287252	-2.403573654	0.13405653	-17.92955286	6.93E-72
C502110WA	75.67005562	-2.405013168	0.40017805	-6.009857796	1.86E-09
ABC1	2360.404168	-2.406487639	0.13301719	-18.0915535	3.71E-73
RPS27A	331.995741	-2.409740565	0.21137327	-11.4004033	4.16E-30
FGR2	128.0421182	-2.412522783	0.3277338	-7.361226672	1.82E-13
PGA62	10831.94293	-2.414305758	0.13551055	-17.81636755	5.28E-71
CR08990CA	436.6172461	-2.417625853	0.19170014	-12.61149743	1.82E-36
PHO114	435.4152272	-2.419616655	0.19225074	-12.58573379	2.53E-36
PCD1	826.5488157	-2.428182099	0.17274922	-14.05611021	7.07E-45
C402740WA	1480.291011	-2.42840514	0.14522947	-16.72115905	9.19E-63
SRR1	1041.578583	-2.438091512	0.18575576	-13.12525393	2.36E-39
CR06570CA	287.4887545	-2.438375674	0.22576328	-10.80058569	3.42E-27
C102670CA	82.08080596	-2.439965369	0.39158495	-6.230998781	4.63E-10
LEU4	59.02861645	-2.440492	0.46992497	-5.193365203	2.07E-07
C603600CA	144.5743134	-2.441582998	0.29748004	-8.207552417	2.26E-16
C107130CA	753.7056877	-2.444761107	0.16780041	-14.56945883	4.39E-48
OP4	1092.956407	-2.447572531	0.16353243	-14.9668935	1.21E-50
C109240CA	31.56935807	-2.448118046	0.60854843	-4.022881236	5.75E-05
ALR1	2462.731146	-2.463955165	0.15923319	-15.47387968	5.21E-54
BRG1	406.4252358	-2.467894461	0.24322672	-10.1464774	3.44E-24
CR06230WA	478.3751664	-2.476321479	0.18938304	-13.07573013	4.53E-39
C305320WA	563.14804	-2.477578861	0.17408058	-14.2323678	5.77E-46
GRF10	2279.385719	-2.480609719	0.12364033	-20.06311126	1.55E-89
C206430CA	30.75306211	-2.48401632	0.61884857	-4.013932401	5.97E-05
C110060CA	93.72336044	-2.484990112	0.36460782	-6.81551515	9.39E-12
C703590CA	1044.66251	-2.492902228	0.14725001	-16.92972585	2.72E-64
KTI11	147.5157314	-2.496920281	0.30098889	-8.295722336	1.08E-16
WOR4	263.4310913	-2.499625983	0.24506666	-10.19978006	1.99E-24
C403000CA	242.0432044	-2.505530235	0.2556479	-9.800707158	1.12E-22
HSP12	74.50185193	-2.512846368	0.4147948	-6.058047011	1.38E-09
AVT1	122.6118162	-2.519572971	0.32583446	-7.73267797	1.05E-14
C205590CA	150.1943913	-2.52169416	0.29634163	-8.509415741	1.75E-17
C303760WA	374.2235677	-2.524993727	0.2047992	-12.32911884	6.31E-35
C206570CA	208.8271307	-2.526130322	0.28911286	-8.737523094	2.38E-18
C601480WA	119.9399574	-2.538022869	0.33048181	-7.679765806	1.59E-14
C604420WA	644.7308125	-2.54482869	0.18527904	-13.73511355	6.26E-43
MRV6	18.74737598	-2.549579136	0.7994449	-3.189186815	0.001426736
CLG1	2514.010988	-2.553358906	0.14088369	-18.12387877	2.07E-73
MEP1	305.40188	-2.556725152	0.22485388	-11.37060739	5.86E-30
C109330WA	264.1157093	-2.562354956	0.24115815	-10.62520585	2.28E-26
TRY3	707.1999885	-2.56388187	0.16531073	-15.50947042	2.99E-54
NOP14	1216.856923	-2.567271591	0.14424667	-17.79778729	7.35E-71
RHB1	1031.532226	-2.567451747	0.16643591	-15.42606874	1.09E-53
C603260WA	1608.925267	-2.583078231	0.13821187	-18.68926419	6.05E-78

CUP9	8035.781982	-2.58565429	0.11068078	-23.36136683	1.06E-120
ENA21	3820.688909	-2.596954632	0.12238612	-21.21935661	6.33E-100
ALS1	652.4913717	-2.612419519	0.1685941	-15.49532012	3.73E-54
AAH1	224.2771743	-2.612686594	0.25264012	-10.341535	4.57E-25
CSP37	677.5132407	-2.63684562	0.19449155	-13.557636	7.14E-42
CR09040WA	617.0893876	-2.640422263	0.18711301	-14.11137691	3.23E-45
C109550WA	43.78379142	-2.640984773	0.57409333	-4.600270816	4.22E-06
C112470WA	38.39504443	-2.653061889	0.59428088	-4.464323129	8.03E-06
QDR3	151.0480376	-2.65955148	0.29997563	-8.865891679	7.59E-19
C110350CA	500.2949979	-2.662034582	0.18375047	-14.48722568	1.46E-47
CR04220CA	331.539303	-2.665917099	0.26739005	-9.970143365	2.06E-23
RAS2	198.6511027	-2.667370525	0.26853599	-9.933009358	2.99E-23
AGC1	1051.255506	-2.682610662	0.1472327	-18.22020938	3.57E-74
MNN12	103.4130391	-2.686143947	0.37016657	-7.256581589	3.97E-13
PHO84	5913.321807	-2.689990686	0.11051726	-24.34000525	7.40E-131
C403760WA	9.603103025	-2.69392179	1.19909063	-2.246637348	0.024663213
C704090CA	592.1385746	-2.695392952	0.17428484	-15.46544713	5.94E-54
C701170CA	1008.541941	-2.703999905	0.15070106	-17.94280603	5.46E-72
DEF1	18.0044458	-2.704975072	0.84059881	-3.217914477	0.001291263
YHB5	242.9175585	-2.709968966	0.26447903	-10.24644154	1.23E-24
GDS1	2473.358281	-2.717505315	0.12679389	-21.43246202	6.66E-102
CR01810CA	57.58051264	-2.731534789	0.51346118	-5.319846745	1.04E-07
C202580WA	905.4208659	-2.733618357	0.17505244	-15.6159972	5.67E-55
C208580WA	445.288151	-2.734889347	0.20402845	-13.40445095	5.69E-41
GCA1	95.72741798	-2.735323107	0.36729564	-7.447197378	9.53E-14
SEN2	213.3001341	-2.738265094	0.26075216	-10.50140896	8.51E-26
C403310CA	11.03231144	-2.743221164	1.06713122	-2.570650276	0.010150778
GRP2	748.95305	-2.746300157	0.16285214	-16.86376489	8.31E-64
TRY6	163.740418	-2.762453671	0.28954215	-9.540765319	1.42E-21
WOR3	74.08520474	-2.764066838	0.41703574	-6.627889635	3.41E-11
C111320CA	6222.963677	-2.766037594	0.11796271	-23.44840625	1.37E-121
MRV8	18.8867491	-2.76752606	0.81424689	-3.398878254	0.000676628
C111080WA	3090.439662	-2.772194756	0.14776122	-18.76131522	1.56E-78
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