

Gene model	Gene name	baseMean	log2FoldChange	lfcSE	stat
KH.S563.4	HMX3_HMX2_HMX1	1497.58014	7.788203187	0.71982141	10.8196325
KH.C12.452		278.960618	3.943945434	0.26693552	14.7748991
KH.L141.43	S35G2	356.153709	3.345641248	0.17972257	18.6155875
KH.C2.1118	CUBN_TLL2_TLL1	22.6714178	3.313027981	0.65431869	5.06332473
KH.C7.773	ZNT10_ZNT5_ZNT7	80.3558844	3.091644457	0.35791512	8.6379264
KH.C9.599		12.3528818	2.858415875	0.92523168	3.08940553
KH.C13.177	B4GT1_B4GT2_B4GT4	9.18552931	2.766048543	0.99890334	2.7690853
KH.C1.1157	KCND2_KCND3_KCND1	541.705822	2.681981421	0.13868948	19.3380306
KH.L24.10	COE3_COE1_COE2	654.626287	2.672948063	0.13799119	19.3704251
KH.C10.175		130.795701	2.341633022	0.31272683	7.48779052
KH.C4.649		114.276442	2.279563102	0.32395462	7.03667412
KH.L112.16		378.54048	2.27821521	0.18411362	12.3739635
KH.C4.115		616.188715	2.273959241	0.12804796	17.7586527
KH.C6.129	NGN1_NGN3_NGN2	1150.90216	2.271803413	0.37510494	6.05644756
KH.C14.402		14.5212124	2.221462456	0.78542936	2.82834149
KH.S575.2		77.8054741	2.180612194	0.31846669	6.84722216
KH.C1.1282		24.8274358	2.179897878	0.55365845	3.93726108
KH.C12.154		82.1301717	2.173151814	0.34881948	6.23001849
KH.C3.499		102.401309	2.070711555	0.29281466	7.07174823
KH.C2.42	PO4F3_PO4F2_PO4F1	524.692725	2.052100592	0.13318432	15.4079749
KH.L128.2	NEC2_FURIN_NEC1	614.337405	2.050192817	0.1300137	15.7690521
KH.C9.849		19.5261845	1.99236494	0.64535057	3.08725993
KH.C6.145	CHRD	3551.06252	1.989508716	0.07877182	25.2566053
KH.C12.182		143.128989	1.856966054	0.2418488	7.67821064
KH.L139.24		189.357687	1.802582911	0.20876398	8.63454961
KH.C7.92		20.0146356	1.752459533	0.6229215	2.81329113
KH.C3.474	MDGA1_PGBM_MDGA	130.156855	1.722752126	0.26030488	6.61820903
KH.S346.10	KCNQ5_KCNQ1_KCNQ3	217.325515	1.722258948	0.20295604	8.48587176
KH.L147.13	CXG1_CXD2_CXG2	41.9184623	1.66612552	0.41454584	4.01915867
KH.C6.284	T150A	79.6901447	1.653680469	0.33673651	4.91090345
KH.C1.396	SOGA3_MTCL1_SOGA1	1266.21288	1.632075912	0.09524428	17.1356836
KH.C2.503	LOXL3_LOXL4_LOXL2	450.86231	1.628253539	0.14514733	11.2179363
KH.C10.545		101.769189	1.588513197	0.28008766	5.67148581
KH.C5.490		195.433367	1.558107236	0.21765595	7.15857878
KH.S1075.1	CECR5	1156.96223	1.528720891	0.11777952	12.9795133
KH.S663.4	TX264	636.576013	1.526991912	0.12918996	11.8197414
KH.L147.29	CXG1_CXD2_CXA8_CXA9	46.7633088	1.513335339	0.39049765	3.87540196
KH.C7.700		39.4910071	1.501655652	0.41679027	3.60290477
KH.C2.1128	BGLR_BGP11	355.745844	1.479425327	0.15048849	9.83082023
KH.C2.14		412.509135	1.46511129	0.14447138	10.1411871

KH.C7.140		295.313924	1.464032136	0.1641054	8.92129169
KH.C6.185	ONEC2_HNF6_ONEC3	1303.07797	1.463122069	0.10407052	14.0589478
KH.C3.318		60.3119635	1.422997776	0.3398831	4.18672708
KH.C12.301	FSTL5_FSTL4	2638.25216	1.422451884	0.20278585	7.01455186
KH.C7.131	ADA2A_ADA2B_ADA2C	122.801665	1.422099739	0.2466756	5.76506051
KH.C11.589		72.9601	1.401248765	0.32843033	4.26650234
KH.C6.192	SVEP1_NOTC2_CRUM2	50.9622832	1.389325459	0.37146277	3.74014724
KH.C5.440	LRC15_LRIG3_PODN	31.2508151	1.385390014	0.49121184	2.82035143
KH.L172.15		591.920597	1.35458692	0.1372094	9.87240584
KH.C3.591		237.86228	1.351395688	0.19623746	6.88653278
KH.C12.521	CALM_TNNC2_CALL6	34.9285099	1.337194137	0.45268803	2.95389771
KH.C2.402	MB211_MB212_MB213	236.007156	1.334927376	0.19958571	6.68849176
KH.C7.550		62.3862016	1.328342687	0.38664548	3.43555726
KH.C3.328		162.172818	1.319450987	0.27764347	4.7523213
KH.C1.118		115.085801	1.290871678	0.24676393	5.23120084
KH.C1.502	CSMD3_CSMD1_CSMD2	577.002268	1.279996807	0.14604891	8.76416537
KH.C1.90	S2536_S2533_ODC	787.725738	1.279462653	0.14191119	9.01593938
KH.S583.2		86.3819703	1.275430456	0.29568985	4.3134063
KH.L71.26	GNRHR_GNRR2_V1AR	52.7210559	1.266033944	0.44049544	2.87411365
KH.C7.534	FBCD1_MFAP4_TENR	35.732852	1.25662932	0.43887292	2.86331026
KH.C9.65	DPP4_DPP10_DPP6	703.762748	1.244859682	0.28624229	4.34897191
KH.L6.1	RFNG_LFNG_MFNG	69.2717571	1.24241483	0.32701459	3.79926428
KH.C1.1221		66.4237272	1.238118557	0.33210951	3.72804306
KH.C4.358	TSP2_TSP1_TSP4	401.107381	1.180492135	0.14130134	8.35442982
KH.C3.462		59.3898609	1.163210488	0.34448191	3.37669538
KH.C4.378	INSM2_INSM1	205.581909	1.1564813	0.19983584	5.78715669
KH.C5.451		65.3833632	1.145774831	0.33063125	3.465416
KH.S698.1		164.564481	1.143024431	0.22238451	5.13985638
KH.C2.785	VASN_FLRT1_LRRC4	651.966918	1.14043133	0.1478064	7.7157099
KH.L170.62		54.0145817	1.121741866	0.35768839	3.13608684
KH.C3.843		196.933578	1.113443396	0.19057852	5.84243912
KH.C9.352	AN33B_ANR33	106.92854	1.104673867	0.25334866	4.36029096
KH.S1148.2	KCNJ3_KCNJ5_KCNJ6	52.9181028	1.097062153	0.36326202	3.02002989
KH.C12.135	LIGO1	341.391638	1.093643799	0.18036086	6.06364272
KH.C11.160	CXG1_CXG2_CXD3	425.273974	1.081912209	0.1412877	7.65751188
KH.S765.1		1599.73587	1.059003011	0.09166241	11.5532965
KH.S2128.1		150.101159	1.04768674	0.27020879	3.87732297
KH.C6.128	CELF3_CELF5_CELF6	7627.62372	1.0474983	0.07665831	13.6645113
KH.C1.521	RXFP1_LRP1B_LRP1	84.1282015	1.036234077	0.2889083	3.58672314
KH.C5.630		336.501648	1.033522173	0.15650076	6.60394349
KH.C4.761	ADH1A_ADH1B_ADH1C	197.229554	1.027123951	0.23173384	4.43234329

KH.L172.21	AS3MT	148.880975	1.010661485	0.22642149	4.46362884
KH.C1.659		77.8463017	1.009207729	0.3092427	3.2634812
KH.L19.15		516.408462	0.992223819	0.13040771	7.60862854
KH.C2.614	ADA	169.240817	0.983190437	0.21482345	4.5767371
KH.C4.777	SVEP1_CFAH_FHR5	314.973765	0.968668038	0.16991299	5.70096508
KH.C9.462	SCN2A_SCN1A_SCN3A	1218.34702	0.966339458	0.1086522	8.8938781
KH.C1.274	MYT1L_MYT1_ST18	1078.25983	0.965516325	0.10719976	9.00670228
KH.C9.872	ATOH8	1564.04493	0.958032118	0.10930126	8.76506013
KH.C3.390	MYPC3_TITIN_IGFN1	150.960814	0.94612053	0.22609841	4.18455184
KH.L154.42	SOX9_SOX10_SOX8	117.786526	0.927125861	0.24841416	3.73217802
KH.C9.496		1974.7567	0.924624563	0.09834596	9.40175488
KH.L92.3	ASM3B_ASM3A_ASM	63.5886172	0.903212779	0.32557784	2.77418379
KH.C8.890	FOXD4_FOXD1_FOXD3	106.014761	0.9030028	0.28008121	3.22407486
KH.L50.6	DLL1_DLK2_DLK1	589.558034	0.902634945	0.1415868	6.37513475
KH.L118.4	CTRB2_CTRB1_CTRL	506.464221	0.889144561	0.13588031	6.54358664
KH.C2.56	PCYOX_PCYXL	203.423282	0.887857413	0.1908779	4.65144159
KH.C4.394	TRAF4_TRAF2_TRAF6	1092.13173	0.885474704	0.09562826	9.2595505
KH.S1835.1		146.716699	0.844370808	0.22033815	3.83215898
KH.C10.40	SERC	2236.41459	0.829577915	0.29031948	2.85746558
KH.C6.205		360.231918	0.828221026	0.15893916	5.21093134
KH.C1.1067	NCS1_NCALD_HPCA	84.842717	0.828139151	0.29130348	2.84287424
KH.C10.464		189.506486	0.824895287	0.19816762	4.16261398
KH.L9.43	FZD7_FZD3_FZD6	353.404387	0.815635538	0.1452534	5.61525945
KH.C8.396	FOXD4_FOXD1_FOXD3	127.505923	0.809093653	0.25804645	3.13545746
KH.L119.20		174.761012	0.809003501	0.20044421	4.0360532
KH.S1313.1		461.080635	0.808256887	0.1417165	5.7033365
KH.C2.805		401.6856	0.806635772	0.14509983	5.55917813
KH.L18.43	KCP_VWF_OTOGL	615.886874	0.797819822	0.1488877	5.35853426
KH.L96.61		100.219985	0.796639923	0.2614475	3.04703598
KH.S761.6	CSAD_DCE1_DCE2	394.38992	0.795169599	0.1502011	5.29403309
KH.C3.178	SEGN_CALB2_CALB1	148.293577	0.778514962	0.21768564	3.57632676
KH.C9.770		322.459853	0.774468917	0.15944321	4.85733385
KH.C1.481	HPGDS_GSTA3_GSTA2	621.716277	0.760821765	0.13235124	5.74850483
KH.C7.4	MOT14_MOT5_MOT1	2027.98415	0.75701097	0.0862466	8.77728485
KH.C7.173	CTR2_CTR1_S7A14	425.683008	0.753354327	0.14725112	5.11611968
KH.C9.162	RGS4_RGS8_RGS21	351.896743	0.744793522	0.15321325	4.86115597
KH.C2.924	S22A5_S22A4_S22AF_5	100.183957	0.744586006	0.25798042	2.88621136
KH.C1.340	MMP14_MMP24_MMP	423.711976	0.743848746	0.15154095	4.90856609
KH.C2.765	RIMS2_RIMS1_PCLO	884.865796	0.739973383	0.1138644	6.4987245
KH.L170.66		1663.20353	0.736975079	0.09234468	7.9806987
KH.C1.983	KLF10_KLF11_SP4	779.250559	0.736706414	0.13581852	5.42419688

KH.C12.352	MUC5A_MUC2_VWF	250.276894	0.732076616	0.2024446	3.61618246
KH.S1526.1	RIMS2_RIMS1_RIMS3	541.572595	0.723302956	0.12708685	5.69140674
KH.C1.314	RGS19_RGS17_RGS20	511.553883	0.705098558	0.12975269	5.43417303
KH.C11.220	BMI1_PCGF3_PCGF2	995.48459	0.702945288	0.10967761	6.4091958
KH.L167.5	S6A11_S6A13_S6A12	1135.12698	0.702861227	0.10251552	6.85614437
KH.L9.36	KCNK9_KCNK3_KCNKF	369.786956	0.700242094	0.1434016	4.88308424
KH.C3.67	IRX6_IRX4_IRX2	178.087189	0.69128245	0.20420969	3.38515991
KH.C3.273	NRX1A_NRX2A_NRX3A	572.024055	0.686781976	0.15421022	4.45354387
KH.C2.245	B3GN2_B3GN7_B3GN6	247.767671	0.684331386	0.1917298	3.56924904
KH.C9.102	FA78B_FA78A	1027.70937	0.682264064	0.09880181	6.90538011
KH.C8.263	ZSWM6_ZSWM5_ZSWI	815.460536	0.679673025	0.1072193	6.33909244
KH.C9.672	RGS4_RGS8_RGS21	419.616516	0.679463322	0.15015103	4.52519937
KH.L22.28	GABR1_GABR2	179.5732	0.678766467	0.20661756	3.28513443
KH.C9.587	CI171	382.415333	0.673116765	0.14388624	4.67811762
KH.C4.102	ATS6_ATS7_ATS12	727.190898	0.669219454	0.12367672	5.41103799
KH.L154.30	BACH2_ZBT46_ZBT44_	223.424356	0.660981587	0.18515928	3.56979988
KH.S1346.2	KIF1A_KIF1C_KIF28	177.106493	0.65980493	0.19713566	3.34695883
KH.C2.674	GCYB1_GCYB2_GCYA2	301.597672	0.655922962	0.16312333	4.02102477
KH.C11.185	KI26B_KI26A_KIF9	338.588406	0.649484166	0.1513879	4.29019855
KH.C11.8	S39A1_S39A3_S39A2	1460.58992	0.64637951	0.11201774	5.77033181
KH.C2.731	TECTA	132.965743	0.63822025	0.22827886	2.79579216
KH.L81.2	RGL1_GNDS_RGL3	582.512538	0.637245099	0.13394792	4.75740938
KH.C7.465	ST1C2_ST6B1_ST1C4	268.547717	0.635511906	0.17368439	3.65900422
KH.C3.157	KIF1A_KIF1C_KIF28	205.947503	0.613740296	0.19802599	3.09929161
KH.C9.237	DYH7_DYH3_DYH1	966.984982	0.609076424	0.10167886	5.99019704
KH.C7.122	ST1C2_ST6B1_ST1C4	270.458404	0.608048897	0.18264764	3.32908152
KH.C4.760	CD5R1_CD5R2	1001.31399	0.604005906	0.09941183	6.07579539
KH.L18.74	EFHC1_EFHC2	385.4741	0.596555544	0.14300536	4.17156068
KH.L23.9	TAB1	422.223943	0.595702389	0.16375137	3.63784687
KH.C3.285	TEKT4_TEKT1_TEKT3	181.634149	0.595665556	0.19401299	3.07023542
KH.C4.628	PTN13_FRPD2	395.074255	0.593611975	0.16231652	3.65712601
KH.C7.157		318.760558	0.590548836	0.16434224	3.59340865
KH.C14.20		223.927614	0.583965588	0.17825312	3.27604702
KH.C2.433	GLP1R_PTH1R_GLP2R_	173.83537	0.583914424	0.19768141	2.95381556
KH.L9.14	JIP1_JIP2	208.75969	0.583737889	0.1822536	3.20288808
KH.C2.336	BMP6_BMP5_BMP7	452.506556	0.582902121	0.13120339	4.44273676
KH.L157.6	SIK3_SIK2_SIK1	1580.60886	0.581600645	0.09451917	6.15325568
KH.C3.640	S38A4_S38A3_S38A2	3382.20423	0.580469906	0.0945336	6.14035544
KH.C7.692		402.605996	0.577766143	0.16072169	3.59482381
KH.C10.125		450.505441	0.562623989	0.13567579	4.1468266
KH.C7.334	GLI2_GLI3_GLI1	476.837973	0.562505962	0.13367991	4.20785726

KH.L18.65	PDE6C_PDE6B_PDE6A_	638.475392	0.562109064	0.12898321	4.35800176
KH.C1.744		236.891186	0.559777779	0.17763191	3.15133568
KH.C10.406		331.073126	0.55868389	0.15803667	3.53515346
KH.C6.77		255.258178	0.554567646	0.18118626	3.06075992
KH.L71.1	RBPMS_RBPS2	392.939901	0.550425954	0.14992537	3.67133291
KH.C11.495	SSR2_RL3R1_SSR5	340.76785	0.543271918	0.16473105	3.2979327
KH.C3.354		909.350847	0.541454869	0.10384876	5.2138788
KH.C9.192	RUND1	576.789883	0.539303811	0.12632452	4.26919346
KH.C10.25	RSPH1_MORN1_ALS2	247.02765	0.535201226	0.17197893	3.11201633
KH.C1.432	CHKA_CHKB_EKI1_EKI2	1086.13606	0.531700785	0.11713215	4.53932421
KH.C9.32	PCD18_PCD19_PCDA6	1594.99705	0.525673037	0.10510005	5.00164406
KH.C8.223	HTD2	1142.89996	0.523122418	0.11920267	4.38851256
KH.L152.2	ISL1_ISL2_LHX9	725.166324	0.514957216	0.11606096	4.43695451
KH.C10.250	RFOX3_RFOX2_RFOX1	2295.21427	0.509223451	0.08317947	6.1219845
KH.S1159.1	FLI1	572.63844	0.5023677	0.12077571	4.15950952
KH.C8.585	ANO4_ANO5_ANO7	482.8343	0.494019791	0.13127985	3.76310455
KH.C12.8		1275.08517	0.492111533	0.09065267	5.42853852
KH.C7.207	FOXP4_FOXP1_FOXP2	510.31066	0.492047448	0.13382215	3.67687587
KH.C10.488	RSH4A_RSH6A	361.638722	0.491687132	0.14471086	3.39772103
KH.C10.493		432.899531	0.47869781	0.1460764	3.27703723
KH.L96.50	TLE4_TLE1_TLE3	1345.51848	0.477974984	0.10505103	4.54993142
KH.C10.566		545.362624	0.469481895	0.13251086	3.54296921
KH.C9.78	FUT6_FUT5_FUT3	637.468328	0.468720133	0.13006009	3.60387367
KH.C14.435	ANR10_ASB2_ANR37	652.05005	0.468157008	0.12065015	3.8802853
KH.C7.770	DLX1_DLX6_DLX5	489.385473	0.460364809	0.14824965	3.10533478
KH.C3.312	HES1_HES4_HES6_HES7	1051.51891	0.456076723	0.09744174	4.680507
KH.L4.36	HMGB3_HMGB1_HMG	1274.41145	0.455717712	0.08954554	5.0892283
KH.S1462.1	KCP_BMPER_VWF	352.859204	0.45502436	0.14568667	3.12330811
KH.C3.699	ABCG2_ABCG4_ABCG1	1040.10058	0.438087697	0.09849873	4.44764812
KH.S618.2	MCF2L_MCF2_MF2L2	366.015014	0.433890978	0.15462426	2.80609898
KH.S1090.3		362.36396	0.432949916	0.15488663	2.79526972
KH.C8.892	TBA1C_TBA1A_TBA3C	12524.5009	0.427456476	0.08310539	5.14354669
KH.S980.1	BPTF	3193.85587	0.41906413	0.0862073	4.86112114
KH.C1.822		1183.58226	0.417466025	0.09722855	4.29365667
KH.L40.4	4EBP2_4EBP1_4EBP3	495.900413	0.414810772	0.13118808	3.16195485
KH.C5.112	DPYD	771.371352	0.409291897	0.11727442	3.49003555
KH.L173.8	PTHB1	426.394437	0.405679405	0.13520227	3.00053697
KH.C1.905	DYH2_DYH10_DYH8	505.178103	0.405066391	0.12607233	3.21296823
KH.C1.1079	DUS1_DUS4_DUS2	404.843454	0.396946962	0.14051223	2.82499942
KH.C7.523	SOX4_SOX11_SOX12	863.462388	0.394584861	0.10582357	3.72870506
KH.C2.506	LBR_DHCR7_ERG24	1513.85515	0.394207702	0.0872218	4.51960063

KH.C7.717		1011.69658	0.393266102	0.10981306	3.58123258
KH.C4.539	FLI1_ERG_FEV	1170.78487	0.390037226	0.10118507	3.85469132
KH.S583.1	IQCD	563.768494	0.38969261	0.13231046	2.94528942
KH.L116.85	TBB4B_TBB2B_TBB5_T	21326.9775	0.389489602	0.08520863	4.57101132
KH.C13.66	CAC1S_CAC1C_CAC1F	1611.01202	0.388582712	0.08850492	4.39052103
KH.C12.380	PLCD_PLCC_PLCE_LCLT	1115.40359	0.384881564	0.09831455	3.91479745
KH.L18.112	BPTF	575.301493	0.380987849	0.12612822	3.02063926
KH.C7.594	ABCG2_ABCG4_ABCG1	752.849246	0.378703135	0.1072283	3.53174625
KH.C4.719	SEM6A_SEM6D_SEM6E	2762.75822	0.374155155	0.09728187	3.84609331
KH.S982.4		583.555079	0.364953596	0.11985317	3.04500578
KH.L65.10	DYRK4_DYRK2_DYRK3	929.175598	0.360870385	0.12200059	2.95793976
KH.C6.65	CAC1G_CAC1I_CAC1H	2219.83256	0.358100968	0.08616035	4.15621525
KH.C14.166	ZNT10_ZNT5_ZNT1	1723.20197	0.357776026	0.09985404	3.58299004
KH.C5.654		712.293271	0.357490698	0.11564491	3.09127909
KH.C13.96	THEM6	525.55453	0.355104816	0.12323468	2.88153314
KH.C11.108	MED14	830.634092	0.350573676	0.10851406	3.23067527
KH.C7.21	TITIN_PALLD_MYPN_M	3152.07007	0.34824942	0.07938222	4.38699539
KH.C1.329	RAB7A_RAB10_RAN	3573.8241	0.344406526	0.07961716	4.32578274
KH.C10.459		2382.92408	0.343719203	0.08231353	4.17573172
KH.C9.371	MUSK_DDR2_DDR1	1082.07699	0.343261463	0.11660973	2.94367773
KH.C8.159	NAC1_NAC3_NAC2	868.954466	0.342133114	0.11026708	3.10276759
KH.L9.16	CCND3_CCND2_CCND1	3694.02958	0.340038358	0.0931349	3.65103031
KH.C14.448	TFAP4	833.707211	0.338576408	0.11061078	3.06097121
KH.C3.596		892.031192	0.338244201	0.10049733	3.36570337
KH.C1.916	PPBT_PPBI_PPBN	1566.18478	0.336057115	0.09711766	3.46030901
KH.C10.403		865.618921	0.335607168	0.10871357	3.08707705
KH.C1.964	LRIQ1	1127.25526	0.335601568	0.11343895	2.95843319
KH.L18.39	MIB1_MIB2	879.294135	0.3315942	0.10184273	3.25594381
KH.L162.6	CACB2_CACB4_CACB1	2251.51509	0.329452058	0.10660156	3.09049952
KH.L118.3	SHAN2_SHAN3	591.323631	0.329040729	0.11856181	2.77526746
KH.C2.36	FRIH_FTMT_FHL17	20018.2485	0.328762821	0.06386054	5.14813739
KH.L46.15	S18B1	625.046785	0.323422382	0.1141381	2.83360593
KH.L10.5	KCRB_KCRS_KCRM	1214.18026	0.319675118	0.09344859	3.420866
KH.C1.777	ZEB1_ZEB2_ZN232	1204.48403	0.319241804	0.09764511	3.26940908
KH.C1.478	MINT	1625.04468	0.315691809	0.09363407	3.37154867
KH.L96.41	AMPD2_AMPD3_AMPD	1220.53383	0.314630361	0.09338775	3.36907546
KH.L154.10	SMTN_SMTL2_SMTL1	1586.71228	0.313945919	0.08379665	3.74652098
KH.C1.448	RPGP1_RPGP2_SI1L2_S	1396.30619	0.311693709	0.10970413	2.84122131
KH.L68.2	STMN2	1003.97052	0.308190293	0.09652643	3.19280721
KH.L87.11	KCC4_PHKG2_PHKG1	954.33409	0.306944604	0.09992275	3.07181889
KH.C1.677	KDM5A_KDM5C_KDM5	4362.57241	0.305999937	0.07070119	4.32807349

KH.C12.263	SESN1_SESN3_SESN2	4371.20388	0.302676021	0.07706005	3.92779428
KH.C4.739	CIC_BBX	2399.49573	0.30210907	0.08045323	3.75508955
KH.C1.571	PLOD3_PLOD1_PLOD2	7256.11638	0.30198168	0.07485657	4.0341372
KH.C8.372	ASAH2	1567.94761	0.29941707	0.10790731	2.77476177
KH.C2.69	AQP4_AQP1_MIP	2036.31056	0.293319318	0.08440502	3.47514071
KH.S403.5	PPGB_CPVL	4178.8099	0.290787158	0.07914899	3.67392121
KH.C1.94	MIB1_ANK3_MIB2	2041.6858	0.286500526	0.08186608	3.49962435
KH.S1172.1		869.456629	0.28633983	0.10160313	2.81821863
KH.C11.235	ELOV4_ELOV1_ELOV5	1303.62291	0.286319334	0.09215326	3.10699072
KH.L96.13	BIG3	1639.88632	0.284965572	0.08477097	3.3615939
KH.C4.441		1073.22839	0.282486946	0.09468617	2.98340239
KH.C7.448	RPC1_RPA1_RPB1	5550.94701	0.282448783	0.0694794	4.0652165
KH.C2.780	SRSF4_SRSF6_SRSF5	2797.81364	0.282370763	0.08839933	3.19426379
KH.C12.608	TET1_TET2_TET3	2112.17164	0.28124609	0.10140564	2.77347575
KH.C1.535	GWL_MAST2_MAST1_I	1687.19983	0.277339952	0.08466589	3.2756988
KH.C1.264	YBOX1_YBOX3_YBOX2	6723.59743	0.276582239	0.07460315	3.70738032
KH.S1482.2	ABCD2_ABCD1_ABCD3	2072.30081	0.27624296	0.07848229	3.51981264
KH.C2.441	RIR1	2118.28203	0.266321767	0.08979821	2.9657803
KH.L131.10	MFSD6	1450.94461	0.265940398	0.08730391	3.04614523
KH.C8.400	RAB3C_RAB3A_RAB3B	3467.79551	0.265637679	0.0774612	3.42930002
KH.C5.558	RIMB1_RIMB2_RIM3A	1457.55729	0.265569543	0.09557655	2.77860559
KH.L6.5	SMCA2_SMCA4	2429.98677	0.261665783	0.07997479	3.27185322
KH.C2.466		2812.79227	0.261222388	0.08729544	2.99239454
KH.C9.571	ANR50_ANKH1_ANR17	2451.07758	0.252751322	0.08656489	2.91979033
KH.C3.389	RAB2A_RAB14_RAB2B	3295.17945	0.249061282	0.07958754	3.1294005
KH.C14.103	TM131_T131L	4913.77235	0.24339654	0.06808769	3.57475115
KH.C1.116	HCFC1_HCFC2_KLDC3	5955.06884	0.240379783	0.06474983	3.71243889
KH.C9.64	NH2L1_NHP2	2207.6195	0.239957538	0.08207041	2.92380102
KH.C3.329	SAHH3_SAHH2_SAHH	3049.98708	0.23518887	0.0736155	3.19482808
KH.C12.317	ROAA_HNRDL_HNRPD	14325.0276	0.231196116	0.07582514	3.04906944
KH.C14.534	ADCY9_ADCY8_ADCY3	4200.89884	0.230911354	0.0723861	3.18999577
KH.L107.1	SMRC2_SMRC1	1805.98278	0.230340868	0.0820423	2.80758674
KH.C12.278	CHD9_CHD8_CHD7	10588.9409	0.229314839	0.07371855	3.11068032
KH.C8.314	ARI5B_ARI5A	2713.73013	0.229287155	0.08055646	2.84629128
KH.C2.57	YTHD2_YTHD1_YTHD3	5426.46808	0.224250101	0.07532108	2.97725572
KH.C8.248	COOA1_CO4A6_CO9A1	14829.1241	0.220583963	0.06615328	3.33443737
KH.C9.589	BRD4_BRDT_BRD3	8045.32309	0.218934216	0.06579923	3.32730677
KH.C4.623	PSMD2	4029.55334	0.216709503	0.06955195	3.11579341
KH.S638.5	MTMRD_MTMR5_MAC	2603.11202	0.215887163	0.07569789	2.85195731
KH.C10.81	2A5A_2A5D_2A5G	3985.8828	0.213157354	0.07386196	2.88588827
KH.L58.2	HNRL1_HNRPU_HNRL2	9054.22482	0.212091465	0.06544737	3.24064135

KH.C10.61	DYR1A_DYRK4_DYR1B	2603.69424	0.211415028	0.07575133	2.7909086
KH.C12.116	PAX8_PAX5_PAX2	5035.02823	0.209648199	0.07456436	2.81164081
KH.C1.931	GRB1L_GREB1	5232.54549	0.188974369	0.06600853	2.86287813
KH.L57.1	NOMO1_NOMO2_NOM	6103.03436	0.18509673	0.06601252	2.80396409
KH.C9.38	FUBP3_FUBP2_FUBP1	16111.054	0.184754491	0.06365117	2.90260932
KH.C5.114	S61A2_S61A1	23915.2614	-0.1816933	0.05945247	-3.0561104
KH.C3.676		6641.06369	-0.19098569	0.06621638	-2.8842664
KH.C1.262	KTAP2	10251.9848	-0.19575947	0.06488163	-3.0171789
KH.L141.10		6188.93909	-0.19736235	0.0696943	-2.8318291
KH.C2.1086	RPN2	14008.635	-0.19875467	0.06766336	-2.9374048
KH.C9.16	S4A4_S4A10_S4A8	4807.63178	-0.20077815	0.06662163	-3.0137081
KH.C1.835	ERGI1_ERGI3	7471.9318	-0.20314163	0.06302996	-3.2229374
KH.L122.10	L2HDH	4510.38137	-0.20593188	0.06726293	-3.0615955
KH.C1.1299	VIGLN	38885.3265	-0.20610537	0.0594894	-3.4645729
KH.C9.559	UAP1_UAP1L	3458.21273	-0.21029273	0.07436693	-2.8277721
KH.C14.391	SEM6A_SEM6D_SEM6E	2665.41858	-0.22186378	0.07765077	-2.8572001
KH.C4.253	SRC8_HCLS1_DBNL	1612.89007	-0.23625344	0.08390434	-2.8157474
KH.C3.502	SYNE2_SYNE1_SYNE3	6884.84767	-0.24436911	0.06391336	-3.8234433
KH.C4.90	S35F6	1749.10078	-0.25012179	0.08163702	-3.0638279
KH.C9.203	CGL	2368.75714	-0.25159183	0.08538186	-2.946666
KH.C7.425	S35E3	1905.4671	-0.25746855	0.08258008	-3.1178048
KH.S655.2	CO4A1_CO4A6_CO4A3	20478.0803	-0.26223605	0.07443177	-3.5231738
KH.C2.421	BMP3_BMP2_GDF6_CI	2455.22161	-0.26565729	0.0886528	-2.9966037
KH.C2.10	HXK1_HXK2_HKDC1	6107.29735	-0.26731102	0.06772118	-3.9472294
KH.C3.672	S38A7_S38A8_S38A1	1745.17523	-0.26892638	0.08470071	-3.1750191
KH.C8.476	LOXL3_LOXL4_LOXL2	1294.264	-0.26979224	0.09140445	-2.9516312
KH.C14.520		7863.3147	-0.27130426	0.06627792	-4.0934334
KH.C2.403	DYH9_DYH11_DYH17	1090.58526	-0.27342813	0.09401077	-2.9084766
KH.S115.2	EVA1C	1552.18126	-0.28350369	0.09275643	-3.0564317
KH.C5.147	MYO10_MYO7A_MYO7	1487.50579	-0.28399621	0.09021119	-3.1481264
KH.C2.447	HPDL	1230.90587	-0.2851092	0.09405721	-3.0312318
KH.S345.3		9058.68666	-0.28711135	0.065396	-4.3903501
KH.C2.473	UXS1_TGDS	1504.07716	-0.28723031	0.08647183	-3.3216635
KH.C7.61		6028.77555	-0.29372752	0.07312946	-4.0165414
KH.C9.157		2666.06714	-0.2954256	0.09137964	-3.2329476
KH.C1.182		1340.99414	-0.29696432	0.09783122	-3.0354761
KH.L116.70	ARGI2_ARGI1	1689.6966	-0.30237827	0.08738521	-3.4602911
KH.C3.72	NOTC1_NOTC2_NOTC3	818.092137	-0.3033243	0.10696526	-2.8357272
KH.C12.20	CLIC6_CLIC1_CLIC4_CLI	2946.30797	-0.30439812	0.07575742	-4.0180635
KH.C11.389	HMCN1_HMCN2_NPHN	3689.2815	-0.30563669	0.08018546	-3.8116221
KH.L154.34	ACTC_ACTB_ACTG_ACT	8389.08581	-0.31419277	0.06270139	-5.0109378

KH.S494.4	S26A5_S26A4_S26A6	953.684949	-0.31531385	0.09899573	-3.1851256
KH.C2.187	PAPS1_PAPS2	6346.39285	-0.31649606	0.07541953	-4.1964732
KH.C4.467	YLAT2_BAT1_XCT	1182.13213	-0.318727	0.10794244	-2.9527496
KH.C9.132	NOE2_NOE3_NOE1	943.690254	-0.31980242	0.10671074	-2.9969094
KH.C5.398		682.621197	-0.3215272	0.11106216	-2.8950203
KH.S651.3	MDR1_MDR3_ABCB5	2220.04184	-0.32448282	0.07823709	-4.1474296
KH.C1.33		698.060181	-0.33163201	0.1156144	-2.8684318
KH.L71.9	SOCS2_CISH_SOCS3	843.130879	-0.33408012	0.10398272	-3.2128427
KH.C1.244	CO4A1_CO4A6_CO4A2	21311.8856	-0.33582	0.06247349	-5.3754001
KH.C12.118	FXL20_FBXL2_FBXL4	1596.28467	-0.34236176	0.0883274	-3.8760538
KH.L164.5	NEO1_PRTG_DCC	3364.71337	-0.3456463	0.08332351	-4.1482447
KH.C1.837		761.432886	-0.34687159	0.10714832	-3.2373033
KH.C10.190	HMCN1_PRS33_KLKB1	1128.19652	-0.3503102	0.1003885	-3.4895451
KH.L20.58	EDIL3_DCBD2_DCBD1	973.394239	-0.35163824	0.1060083	-3.3170822
KH.L116.14	G3ST1_G3ST3_G3ST2	766.513437	-0.35322416	0.1148358	-3.0759063
KH.C4.191	SO1C1_SO1B1_SO2B1	1364.08264	-0.354444	0.0935853	-3.7873895
KH.C3.684		604.532678	-0.35504382	0.12709744	-2.7934774
KH.C3.264		1682.14151	-0.3569493	0.08751434	-4.0787523
KH.C12.280		1476.31956	-0.35760425	0.09730087	-3.6752422
KH.C12.32	TSN9_CD63_CD151	858.571609	-0.35871001	0.10294505	-3.4844803
KH.C10.172	KIRR2_KIRR1_KIRR3	536.393639	-0.3603755	0.129148	-2.7904071
KH.C5.596		1578.67368	-0.36101986	0.1147986	-3.1448108
KH.C7.288		1437.20091	-0.36266602	0.0979456	-3.7027292
KH.L71.2	FSCN1_FSCN2_FSCN3	2318.75638	-0.37226605	0.07944401	-4.6858918
KH.C9.650	ST1C2_ST1C3_ST1B1	559.100616	-0.37252213	0.12188357	-3.0563768
KH.S1180.1	GMPPB_GMPPA	3567.20147	-0.37326015	0.07423922	-5.0278027
KH.C8.24		1174.78992	-0.375221	0.10008645	-3.7489691
KH.C4.260		2451.04506	-0.37526185	0.09065153	-4.1396086
KH.L37.43	SRR	630.511417	-0.37621582	0.13119973	-2.8675046
KH.L147.1	NOTC1_NOTC2_NOTC3	8325.3393	-0.37817713	0.08000703	-4.7267986
KH.C10.220		448.074027	-0.37935136	0.13444822	-2.8215424
KH.C8.101	ROR2_ROR1_MUSK	782.401355	-0.38856726	0.11487859	-3.3824168
KH.C13.105	PLCH1_PLCH2_PLCD3	449.384144	-0.38882501	0.13162335	-2.9540732
KH.L48.1		3472.23175	-0.38911792	0.08003501	-4.8618462
KH.C4.254	AT8B2_AT8B4_AT8B1	1784.30269	-0.39159798	0.089961	-4.3529751
KH.S546.3		7295.76678	-0.391974	0.0803317	-4.8794433
KH.C1.1258	B3GT1_B3GT5_B3GT2	478.19848	-0.39254103	0.13395133	-2.9304751
KH.C9.637		885.354504	-0.39310089	0.12065762	-3.2579865
KH.C1.23	GRHL1_GRHL2_GRHL3	890.322872	-0.39434635	0.10364006	-3.8049605
KH.C4.339	MRP5_MRP9_ABCCB	1396.48796	-0.39600383	0.08882589	-4.4582029
KH.C7.230		1805.59218	-0.39691071	0.0975509	-4.0687552

KH.C2.676	JIP4_JIP3_ARHGH_ARH	1024.07736	-0.40305722	0.10834314	-3.7201913
KH.C12.191	S23A2_S23A1_S23A3	438.715417	-0.40578256	0.13735836	-2.9541891
KH.C3.191	WBS27	377.494464	-0.40984399	0.14441494	-2.8379611
KH.C5.154	KLF2_KLF4_KLF1	659.42306	-0.41062937	0.1473831	-2.7861361
KH.C9.859	RAC1_RAC2_RAC3	356.559969	-0.41139821	0.14550053	-2.8274688
KH.C7.501		3592.04336	-0.41486452	0.08744721	-4.7441713
KH.C1.1083	EPHA4_EPHA7_EPHB2	1314.59877	-0.41552413	0.09059699	-4.5865113
KH.C1.819		1413.9308	-0.41666239	0.08856567	-4.7045586
KH.C12.561		603.553412	-0.42130019	0.1264454	-3.3318743
KH.C10.551		2016.07201	-0.42179969	0.08223957	-5.1289144
KH.S403.4	HEM1_KBL_HEMO_SPT	1998.21337	-0.4229256	0.08063641	-5.2448466
KH.S651.1		605.784842	-0.42692868	0.11907113	-3.5854928
KH.C2.922		2322.31202	-0.42772101	0.09068941	-4.716328
KH.L73.2	UROM_GP2_TECTA	1739.92663	-0.4313477	0.11368685	-3.794174
KH.C8.611		439.811623	-0.43308241	0.15204496	-2.8483839
KH.L10.9		631.989196	-0.44118387	0.120352	-3.6657792
KH.C1.599		1606.54364	-0.44397567	0.09767556	-4.545412
KH.C8.741		330.040716	-0.45234155	0.15620791	-2.895766
KH.C2.133	HMCN1	708.34926	-0.45974041	0.11363484	-4.0457698
KH.C9.62	ABRAL	550.375534	-0.46139495	0.12477036	-3.6979533
KH.C13.17		380.316871	-0.46267589	0.15953512	-2.9001507
KH.S1042.1		625.165407	-0.46583977	0.1378519	-3.379277
KH.C10.251		443.783202	-0.46728708	0.14283369	-3.2715468
KH.C13.36	RLBP1_TTPAL_CLVS1	773.912419	-0.46835728	0.12637945	-3.7059607
KH.C12.49	CO4A6_COLA1_CO9A2	1906.88411	-0.46920539	0.09292633	-5.0492188
KH.C7.581	B4GT1_B4GT2_B4GT4	902.30363	-0.47305798	0.10429084	-4.5359495
KH.C13.87	LRIG2_TPBG_LRIG1	1242.75152	-0.47378742	0.0917915	-5.1615612
KH.C9.251		4942.83852	-0.47558289	0.07270624	-6.5411563
KH.C4.224	CD166_BCAM_MUC18	26271.0144	-0.47593971	0.0813199	-5.8526846
KH.C5.326	FUT8	948.238557	-0.47662854	0.10193992	-4.6755828
KH.C12.511	FZD10_FZD4_FZD9	503.318733	-0.47755589	0.14891596	-3.2068818
KH.C1.1121	ST1C2_ST1C4_ST1E1	271.782707	-0.47883832	0.16823832	-2.8461906
KH.C11.428	LRP6_LRP4_LRP5	3009.42866	-0.48631021	0.08798986	-5.5268895
KH.C1.429	GPC5_GPC3_GPC4	1072.25719	-0.48645613	0.10057841	-4.836586
KH.S655.3		342.00934	-0.48851385	0.14862806	-3.2868211
KH.C3.897		294.624522	-0.48856493	0.15828291	-3.0866562
KH.C5.367		586.819156	-0.49063693	0.12345303	-3.9742804
KH.C5.13		1838.47591	-0.49117142	0.08572103	-5.7298823
KH.L18.128	MDGA1	1304.95211	-0.4945807	0.09696057	-5.1008438
KH.C6.133	ADK	2518.90551	-0.49959772	0.08996595	-5.5531868
KH.C14.474		695.62752	-0.50043437	0.12271085	-4.0781591

KH.C9.565	ANXA7_ANXA4_ANXA1	398.583123	-0.50433125	0.14457096	-3.4884687
KH.S2051.1	PXDN_PERT_PERE	437.660998	-0.5059171	0.13487605	-3.7509781
KH.C1.802	COCA1_COKA1_COEA1	1273.47143	-0.508392	0.11563354	-4.396579
KH.C1.212	D19L1_D19L2_D19L3	9724.04317	-0.51318404	0.06791983	-7.5557326
KH.C2.229		1042.34421	-0.51549744	0.11331432	-4.5492703
KH.S164.12	SOX14_SOX21_SOX2	429.245195	-0.51607642	0.17187701	-3.0025913
KH.S164.28	FUT6_FUT5_FUT7	778.613156	-0.517916	0.12521481	-4.1362198
KH.S544.3	DMTA2_DMRTA_DMR1	191.368727	-0.52554601	0.1894922	-2.7734441
KH.C5.384	TECTA_GP2	1907.24576	-0.52795444	0.08824074	-5.9831141
KH.C7.261	S6A17_S6A15_S6A19	2056.11711	-0.5324224	0.08760336	-6.0776481
KH.C4.425	RHAG_RHCG_RHBG	538.606074	-0.53547108	0.12363363	-4.331112
KH.C1.825	RXFP1_RXFP2_FSHR	196.558283	-0.53878015	0.19393016	-2.7782175
KH.C11.518	ABCG2_ABCG4_ABCG1	384.000492	-0.53886196	0.15160517	-3.5543773
KH.S908.2	TECTA_CILP2_CILP1	605.179627	-0.539145	0.14568888	-3.7006601
KH.C4.201		555.108327	-0.54212469	0.14013931	-3.8684697
KH.C6.219	FLRT1_FLRT2_FLRT3	785.916764	-0.54337024	0.12030123	-4.5167471
KH.C1.1240	KLH20_KLHL5_KLHL3	5129.38114	-0.54343839	0.07645771	-7.1076994
KH.C8.863	TRIM2_TRIM3_LIN41	1591.08148	-0.54414806	0.1031884	-5.2733455
KH.C8.182	B4GT1_B4GT2_B4GT4	4727.84642	-0.54458764	0.07063835	-7.7095181
KH.C10.417		741.744752	-0.54503073	0.11381082	-4.7889183
KH.C5.16	CD109_PZP_A2MG	12824.5747	-0.54791686	0.06236152	-8.7861371
KH.C3.245		1633.39067	-0.54900797	0.09811635	-5.5954791
KH.C5.580	FUT8	1138.75802	-0.55074074	0.09525538	-5.7817285
KH.L116.28	UGPA	16379.385	-0.55140208	0.07396247	-7.4551604
KH.C11.663	KREM1_KREM2	241.368252	-0.55425577	0.17269592	-3.2094317
KH.L37.72	CPMD8_PZP_A2MG	406.567655	-0.55510441	0.13672567	-4.0599867
KH.C1.40		789.116528	-0.55528904	0.11373838	-4.8821607
KH.L149.2		264.694993	-0.55552425	0.17906491	-3.1023625
KH.C9.602	GCYB1_GCYB2_GCYA2	714.678622	-0.5559415	0.1189305	-4.6745075
KH.C8.115		2116.21929	-0.55703391	0.08535583	-6.526021
KH.C14.420		337.383919	-0.55749495	0.16336772	-3.4125159
KH.C12.536		520.851805	-0.55846769	0.14452673	-3.8641134
KH.S1524.1		1171.49906	-0.56011628	0.09695814	-5.7768877
KH.C2.248	KLH26_KLH13_KLHL9	6067.07994	-0.56051662	0.07078524	-7.9185526
KH.C13.184	B3GT1_B3GT2_B3GN5	270.872971	-0.5627853	0.16823684	-3.3451965
KH.C14.153	PIM3_PIM1_PIM2	2667.41895	-0.56562196	0.08458485	-6.6870367
KH.C9.561	IKZF2_IKZF1_IKZF3_IKZ	1554.76252	-0.56567747	0.0952061	-5.9416098
KH.L153.79	PITX2_PITX3_PITX1	752.606368	-0.56604041	0.10969797	-5.15999
KH.L170.29		339.295667	-0.57122738	0.14958821	-3.8186657
KH.L18.100		420.775106	-0.57306986	0.14804402	-3.8709423
KH.L18.117	PPA6	450.572506	-0.57367347	0.13374587	-4.2892801

KH.C2.992		248.599367	-0.57426353	0.17835297	-3.2198148
KH.L20.48	SG196	276.416608	-0.57636643	0.16864584	-3.4176143
KH.L106.16	NODAL_BMP10_GDF2	328.156669	-0.58242545	0.1659076	-3.5105411
KH.L171.4	HMCN1_CORIN_PRS48	360.325223	-0.58317045	0.15364647	-3.7955342
KH.C11.158	FUT8	532.945305	-0.58492883	0.12719041	-4.5988437
KH.C4.150		468.742567	-0.58720533	0.14543966	-4.0374498
KH.C11.489	BAI3_HMCN1_SEM5B	2614.48798	-0.59425261	0.08214162	-7.234489
KH.C6.115	MCFD2	1255.27737	-0.59714406	0.09809426	-6.0874515
KH.C4.341	FOXB1_FOXB2_FOXA2	631.28581	-0.60091662	0.12742835	-4.7157216
KH.C2.650	FBN1_FBN3_FBN2	653.906969	-0.6023697	0.11960596	-5.0362852
KH.C10.350	UST_HS2ST	409.705649	-0.60261278	0.15628236	-3.8559232
KH.C9.579	WSCD2_WSCD1	358.41111	-0.60378795	0.14983333	-4.0297307
KH.C10.147	S22A5_S22A4_S22A3_S	299.48253	-0.60880118	0.16317622	-3.7309429
KH.C14.408	CDX2_CDX1_CDX4	952.880629	-0.6093453	0.10355885	-5.8840485
KH.C2.251		585.09061	-0.60938586	0.12841967	-4.745269
KH.C9.49	RGS4_RGS5_RGS1	350.428758	-0.61057906	0.17366721	-3.5157994
KH.C8.915		2003.39792	-0.61093321	0.08449274	-7.2306002
KH.C3.149	PLS1_PLS3_PLS5	883.879326	-0.61145244	0.1214867	-5.0330814
KH.C1.1018		209.238719	-0.61394283	0.20964599	-2.928474
KH.C11.394		282.254196	-0.61543894	0.17726152	-3.4719265
KH.C1.1100	PCD18_PCD17_PCDGH	442.490931	-0.6178272	0.13598894	-4.5432164
KH.C1.591	S6A14_SC6A5_SC6A9	389.694306	-0.61954736	0.15680054	-3.9511813
KH.C6.176	NHRF3_NHRF4	357.397761	-0.62166115	0.1781226	-3.4900746
KH.C8.747	FOXI3_FOXI2_FOXI1	154.871325	-0.62237095	0.22076755	-2.8191233
KH.C1.327		634.246296	-0.62355882	0.11984002	-5.2032602
KH.S779.1	ACTA_ACTC_ACTS_ACT	195.602022	-0.62637772	0.2103213	-2.9781944
KH.C1.922	BARH1_TLX1_BARH2	295.110354	-0.62671527	0.1626266	-3.853707
KH.C7.123		870.836779	-0.62719159	0.11310668	-5.5451329
KH.C7.154	UXS1	8687.74311	-0.63032193	0.08988323	-7.0126757
KH.C7.136		361.083047	-0.63073998	0.15849567	-3.9795408
KH.C7.211		19262.4276	-0.63155568	0.05907133	-10.691408
KH.C3.170	FOXF1_FOXF2_FOXL1	897.716535	-0.64197727	0.11818112	-5.4321475
KH.C9.40		5484.80731	-0.64259315	0.08182489	-7.8532721
KH.S803.3	CO7A1_FINC	3264.07792	-0.64278471	0.08380404	-7.6700918
KH.L19.6	TSN33	4389.89882	-0.64563551	0.07379473	-8.7490734
KH.C10.74	AA1R_AA2AR_AA2BR	282.246531	-0.64717553	0.19459734	-3.3257163
KH.C10.407		630.00287	-0.64928639	0.11877856	-5.4663601
KH.L10.31		1515.37391	-0.6573452	0.10990884	-5.9808221
KH.L152.12	GAS2_GA2L3	149.064722	-0.65740361	0.22229599	-2.9573345
KH.L63.13	MZB1	731.831969	-0.65766957	0.13184169	-4.9883278
KH.C12.650		333.764974	-0.6592659	0.16671646	-3.9544141

KH.C7.720	PXDN_PXDNL_ISLR	142.10153	-0.66019913	0.22586833	-2.9229381
KH.C8.489		298.690945	-0.66134427	0.16484846	-4.0118317
KH.C2.867		140.338186	-0.66457499	0.23261007	-2.8570345
KH.L116.32	TSHR_RXFP1_LSHR	124.213517	-0.66707064	0.23892917	-2.7919179
KH.C1.764		396.098027	-0.66733229	0.14033515	-4.7552756
KH.S164.31	FUT6_FUT5_FUT4	130.627929	-0.66862943	0.22920034	-2.9172271
KH.C5.330		651.417103	-0.6690719	0.13563036	-4.9330541
KH.C12.9	UN93A_UN93B	448.279236	-0.67289528	0.14145106	-4.757089
KH.C3.718		736.681218	-0.67533506	0.13654333	-4.9459394
KH.S417.3	G3ST1_G3ST3	220.648995	-0.67570343	0.19210718	-3.5173252
KH.C14.414	PIM3_PIM1_PIM2	2321.76777	-0.67573844	0.09453142	-7.1482945
KH.L18.33	ZN420_ZN135_ZN251	419.181776	-0.67680822	0.13881696	-4.8755443
KH.C9.445	ENDOU	441.218059	-0.67957125	0.15430711	-4.4040177
KH.C14.446		1878.5043	-0.6797389	0.10490771	-6.4793988
KH.C14.271		361.403611	-0.69012674	0.14963329	-4.6121203
KH.C1.188		52195.63	-0.69018776	0.09687999	-7.1241518
KH.L50.21	GXLT2_GXLT1	311.970952	-0.69173417	0.16444467	-4.2064858
KH.C3.666	PDE9A_PDE11_PDE4C	278.984974	-0.69195206	0.17226188	-4.0168613
KH.S164.10		347.669647	-0.69677702	0.15208625	-4.5814596
KH.C2.411		164.70552	-0.70021514	0.22308651	-3.1387605
KH.C3.411	LFTY2_LFTY1_BMP4	467.066372	-0.70073284	0.14199848	-4.9347912
KH.C7.281	SC6A5_SC6A7_SC6A9	5319.59492	-0.70623858	0.06902165	-10.232132
KH.L96.43	TM11D_TMPS3_ACRO_	285.493199	-0.70780676	0.20653412	-3.4270695
KH.C11.199	ODC_TXTP_UCP5	978.734196	-0.70886304	0.0994809	-7.1256196
KH.S761.3	S38A4_S38A3_S38A2_9	266.788013	-0.70995902	0.16782527	-4.2303464
KH.C2.649		476.426693	-0.71164631	0.15113581	-4.7086546
KH.S870.2	GIN1_NYNRI_RTL1	1521.76637	-0.71222556	0.10579197	-6.7323217
KH.C7.64	GCYB1_GCYB2_GCYA2_	921.201135	-0.71344484	0.10573886	-6.7472341
KH.C1.870	S6A14_SC6A5_SC6A7	2206.47764	-0.71420793	0.08402974	-8.4994663
KH.C1.495	PLMN_KLKB1_CTRL	711.30736	-0.71528373	0.14926177	-4.7921429
KH.C1.1093		3145.67314	-0.71599212	0.08564239	-8.3602537
KH.C7.43	AP2E_AP2A_AP2B	617.131501	-0.71615532	0.13468416	-5.3172945
KH.C11.711		780.383529	-0.71626236	0.11004475	-6.5088283
KH.C3.231		127.060411	-0.71999122	0.25010853	-2.8787151
KH.C3.503	PLEC_DESP_EPIPL	3743.55784	-0.72377442	0.08637078	-8.3798527
KH.L63.14		245.611036	-0.72437	0.1844992	-3.9261418
KH.C2.201		133.756885	-0.72641504	0.23264093	-3.122473
KH.C1.1252		392.536145	-0.72735098	0.14341534	-5.0716402
KH.S1721.1	TTC22	398.351484	-0.72740176	0.16630739	-4.373839
KH.C2.20		5100.0007	-0.72967563	0.0842503	-8.660808
KH.C11.308		162.062286	-0.73144794	0.21352396	-3.4256012

KH.C9.3	TECTA_UROM_GP2	7859.15157	-0.73292157	0.08605726	-8.5166731
KH.L8.1	ESRP1_ESRP2_HNRH2	1763.5992	-0.73368918	0.09854491	-7.4452265
KH.L37.12		921.936343	-0.73588989	0.11280186	-6.5237392
KH.C2.655	TMTC3_TMTC4_TMTC1	767.918563	-0.73608851	0.11079401	-6.6437574
KH.C10.496	HMCN1_PRS33_PRS38	1276.63205	-0.73927661	0.09281715	-7.9648707
KH.S1155.2		1123.83026	-0.74428469	0.10691264	-6.9616154
KH.C1.1109		2519.59059	-0.7495165	0.24784008	-3.0241941
KH.C14.146	GAPR1	198.315058	-0.75005466	0.21074547	-3.5590548
KH.C8.176		1813.68275	-0.75389748	0.08587831	-8.7786717
KH.L116.41		234.425977	-0.75921808	0.18623582	-4.0766491
KH.C9.625		96.8903344	-0.76268831	0.26908628	-2.8343635
KH.S2649.1	ANPRC	95.643201	-0.76467767	0.27270933	-2.8040026
KH.L63.12		791.27957	-0.76600456	0.12700772	-6.0311652
KH.C8.918		189.518953	-0.76881625	0.22562061	-3.4075622
KH.L5.10	TM175	191.192494	-0.77026152	0.21457678	-3.5896778
KH.L147.25	CSMD1_SVEP1_CR1	14897.8946	-0.77178992	0.17804231	-4.334868
KH.C2.609		401.259098	-0.77450056	0.14735017	-5.2561905
KH.C10.367	SIX3_SIX6_SIX1	99.4491009	-0.77511583	0.26737303	-2.8990053
KH.C13.119	CAH14_CAH9_CAH6	3926.21724	-0.77572899	0.08440834	-9.1901936
KH.C7.210	NHRF3_PDZ1P_NHRF2	1037.03831	-0.77630399	0.09778263	-7.9390785
KH.C1.60		236.622565	-0.77661274	0.21011827	-3.6960743
KH.C12.390	MRF_MRFL	1147.22201	-0.7773764	0.1007618	-7.7149915
KH.C14.154		1819.34658	-0.78211307	0.08631573	-9.0610719
KH.C7.542	RFNG_LFNG_MFNG	301.420334	-0.78270689	0.17726493	-4.4154639
KH.L106.9		881.689563	-0.78310784	0.12936406	-6.0535193
KH.C5.346	DDC_DCHS_GADL1	476.112693	-0.78638191	0.13676807	-5.7497478
KH.C5.27	FUT6_FUT5_FUT3	164.505295	-0.78979322	0.21368815	-3.6960086
KH.L73.8	S39AA_S39AC_S39A4	196.232662	-0.79285663	0.19263164	-4.1159212
KH.C11.722		167.143704	-0.79288644	0.20825994	-3.8071962
KH.L59.3	GLIP1_GPRL1_PI16_CRI	309.675743	-0.79551735	0.17231254	-4.6167118
KH.C9.204	GMPPB_GMPPA	3290.19754	-0.7983809	0.09776513	-8.1663154
KH.C2.453	KGP1_KGP2_PRKX	608.479115	-0.80333472	0.14933945	-5.3792531
KH.C5.519	B4GT7	313.189669	-0.80338287	0.18154789	-4.4251842
KH.C14.56	BAI3_HMCN1_AGRB2	7417.8751	-0.80779915	0.07689508	-10.505212
KH.C12.408	MGT5A_MGT5B	682.057294	-0.81225066	0.12828576	-6.3315728
KH.L168.1		279.61879	-0.81554498	0.19025673	-4.28655
KH.C5.385		1247.90143	-0.81610534	0.12378339	-6.5930117
KH.C5.52	CAHM2_FA26E_FA26F	1595.47464	-0.81858407	0.09305262	-8.7970016
KH.C6.12		4284.71852	-0.81878179	0.08679927	-9.4330491
KH.C3.762		245.630775	-0.82183699	0.18559006	-4.4282382
KH.C4.71	HS3S1_NDST2_NDST4	1274.12451	-0.82420941	0.11986061	-6.8763992

KH.L36.8	HMCN1_SEM5B_SEM5	6600.23587	-0.82459352	0.07350545	-11.218128
KH.C1.201	MOT14_MOT9_MOT12	308.865387	-0.82705934	0.16898468	-4.894286
KH.C3.781	VIME_GFAP_NFM	3162.70822	-0.82946704	0.10105335	-8.2082091
KH.C12.544	B3GT1_B3GT5_B3GT2	229.287661	-0.83222627	0.18458267	-4.5086913
KH.L96.103		1253.25297	-0.83422699	0.11307992	-7.3773223
KH.C14.535		1462.85922	-0.84004673	0.1061894	-7.9108339
KH.C2.125	FGF9_FGF20_FGF16	375.631312	-0.84372363	0.17299147	-4.8772556
KH.C5.240	LRP6_LRP4_LRP1	13938.3391	-0.85004507	0.07667526	-11.086302
KH.S2590.2		84.7322788	-0.85078581	0.28163003	-3.0209342
KH.C3.304	RGS4_RGS8_RGS5	403.48217	-0.85083105	0.15400765	-5.5246025
KH.L141.68		1981.50117	-0.85339728	0.25082384	-3.4023771
KH.C4.648	RHAG_RHCG_RHBG	387.9989	-0.85514417	0.16939646	-5.0481821
KH.C8.475	SO1B3_SO1C1_SO1B1	329.905856	-0.85628979	0.17060095	-5.0192556
KH.S1391.3		1039.23217	-0.8599447	0.28815382	-2.9843252
KH.L153.109		115.904194	-0.86364906	0.25981992	-3.3240294
KH.L119.31	PLEC_DESP_EPIPL	114.840228	-0.86434482	0.27441067	-3.1498222
KH.C2.380	LARP6	1334.91876	-0.86529864	0.11592763	-7.4641275
KH.C2.594		2018.1005	-0.86769137	0.27383947	-3.1686132
KH.S1248.1		68.4424675	-0.86944137	0.31348966	-2.7734292
KH.C3.305		1669.67688	-0.87402088	0.0916869	-9.5326696
KH.C11.279	CHSTB	95.2037373	-0.87470505	0.28610469	-3.0572902
KH.C11.299	FUT8	2264.11733	-0.87488857	0.10886312	-8.0365927
KH.S345.8		123.359829	-0.87743861	0.25520264	-3.4382035
KH.C2.373		591.43039	-0.88082511	0.14720306	-5.9837419
KH.C2.696	CHSTB	905.429225	-0.88193673	0.30376596	-2.9033429
KH.L108.10	KLH13_KLHL9_KLH36	5872.14322	-0.88244896	0.08807314	-10.019502
KH.L97.7	ACM3_ACM2_ACM5	201.712859	-0.88739778	0.20135495	-4.4071316
KH.S1957.1	GMPPB	397.622819	-0.88869221	0.17030574	-5.2182164
KH.C12.146		219.118045	-0.88981697	0.19738755	-4.507969
KH.C5.537	CHST1_CHST3_CHST6	198.451731	-0.89129425	0.2014013	-4.4254643
KH.S389.10		259.738086	-0.8914228	0.19644886	-4.5376838
KH.L40.18	ZF69B_ZSA5D_ZN713	391.714968	-0.89809055	0.15520157	-5.7866073
KH.C13.146	HMCN1_SEM5B_ATS9	513.528578	-0.89979053	0.12841031	-7.0071519
KH.S423.1	ANPRA_ANPRB_ANPRC	836.290356	-0.90160727	0.1341661	-6.7200828
KH.S406.9	ARI3B_ARI3A_ARI3C	6843.18382	-0.90625447	0.18078385	-5.0129172
KH.C9.656		472.018863	-0.90716734	0.16490172	-5.5012605
KH.C8.844		1321.07312	-0.90835939	0.10488135	-8.6608284
KH.S1641.1		530.173805	-0.91141116	0.16091918	-5.663782
KH.C2.694	UROM_GP2	1826.19444	-0.91203751	0.10950967	-8.3283745
KH.L168.6		665.386911	-0.91398748	0.13189249	-6.9297917
KH.C8.117		1452.4396	-0.91543746	0.11557366	-7.920814

KH.S390.3	KCD15_KCTD1	200.484165	-0.91623017	0.20628811	-4.4415073
KH.C9.543	VIME_GFAP_PERI_DESI	2769.53402	-0.91855635	0.0851695	-10.785038
KH.L141.32		975.049632	-0.92323807	0.25492797	-3.6215645
KH.L132.16	MATN3_MATN2_MATN	117688.549	-0.92447425	0.07680084	-12.037294
KH.S1783.2		445.905295	-0.92469761	0.16656772	-5.5514815
KH.C10.127	HMCN1_TMPS6_FA9	609.6462	-0.92603494	0.13502683	-6.858155
KH.C14.293	COCA1_MATN2_MATN	15952.1527	-0.9275648	0.19346539	-4.794474
KH.C2.637	B3GT1_B3GT5_B3GN5	618.769436	-0.92890656	0.27883635	-3.3313683
KH.L5.14	B4GT1_B4GT2_B4GT4	2674.0992	-0.93479453	0.0956112	-9.7770401
KH.L45.4		76.0656094	-0.93840797	0.29695203	-3.1601332
KH.S345.1		3772.36611	-0.94001009	0.2487724	-3.7785948
KH.C11.454		2172.06464	-0.94331459	0.26943247	-3.501117
KH.C6.198	HMCN1_TSP1_AGRB2	22791.9406	-0.94421388	0.19124392	-4.9372231
KH.C8.395		685.703551	-0.94429174	0.13781764	-6.8517479
KH.C1.93		1351.82005	-0.94511309	0.10484914	-9.0140282
KH.C14.163		641.528546	-0.9475534	0.13386759	-7.0782885
KH.C7.164	CSMD3_SVEP1_CR2_CS	34857.3379	-0.95270661	0.08357112	-11.399951
KH.C2.244		958.807672	-0.95542729	0.11948153	-7.9964436
KH.C3.650		111.677395	-0.96019346	0.25811926	-3.7199606
KH.C1.747	S22A5_S22A4_S22AG	869.472055	-0.96484779	0.13340443	-7.2325019
KH.C2.802		367.972554	-0.96634492	0.18254339	-5.2937821
KH.L95.5		3716.65903	-0.97291132	0.30611156	-3.1782901
KH.L131.17		382.620509	-0.97887855	0.14991043	-6.5297563
KH.L4.50		181.391228	-0.98097873	0.20206077	-4.8548697
KH.C11.512	LYAM3_SVEP1_LYAM2	1201.25651	-0.98801834	0.09881709	-9.9984559
KH.C13.16	HMCN1_PROP_AGRB2	5415.57852	-0.99518569	0.19625764	-5.0708125
KH.C1.602		193.010512	-0.99896269	0.2308379	-4.3275505
KH.C5.531	S35E3	370.498799	-1.01779798	0.16395451	-6.2078071
KH.C3.251		597.209644	-1.01831716	0.1357134	-7.5034385
KH.L171.19		424.519459	-1.02143052	0.15063477	-6.7808417
KH.C11.222		1292.5786	-1.02798055	0.26119701	-3.9356521
KH.C9.147		45811.1622	-1.02924818	0.17045429	-6.0382652
KH.C14.337		56166.3378	-1.04355923	0.2616372	-3.9885737
KH.C5.235		2608.33619	-1.045498	0.09661369	-10.821428
KH.L141.61		1357.56726	-1.05110121	0.11381052	-9.2355368
KH.C4.247		308.691438	-1.05294254	0.37719012	-2.7915432
KH.C2.377	TMPS9_PRSS8_KLK5	934.612353	-1.05441968	0.10929301	-9.6476407
KH.C8.121	HMCN1_SSPO_ATS9_SI	117800.792	-1.05446844	0.08022143	-13.144474
KH.C13.90	ANPRA_ANPRB_GUC2C	273.709723	-1.0566627	0.19948375	-5.2969863
KH.C8.164		1569.9768	-1.05944926	0.32360485	-3.273898
KH.C14.356		130269.072	-1.05967279	0.24381105	-4.346287

KH.C5.37		653.111301	-1.06012252	0.12006152	-8.829828
KH.C9.652	OSR2_OS1_ZKSC1	52.1697078	-1.06493557	0.37606187	-2.8318095
KH.C3.611		3780.94822	-1.07202795	0.22887943	-4.6838108
KH.L132.4	MEGF6_FBN1_MATN2	6797.96807	-1.07215332	0.06933049	-15.464384
KH.L84.20	S22A5_S22A4_S22A3	138.796644	-1.07552083	0.23769021	-4.5248848
KH.L116.100	LGR5_LRIG3_LRIG2_TR	785.142485	-1.07638247	0.12798609	-8.4101522
KH.L147.16		626.231608	-1.07682574	0.13137659	-8.1964812
KH.C11.293		8229.4589	-1.0774256	0.07242646	-14.876132
KH.C11.539	S20A1_S20A2	123.151226	-1.08003099	0.26286086	-4.1087555
KH.C1.1013		308.100523	-1.08053424	0.17386109	-6.2149285
KH.C10.506		153.564674	-1.08201337	0.25172521	-4.2983909
KH.L96.44		3008.58051	-1.08233497	0.08907026	-12.151475
KH.C3.654		194.199873	-1.08241253	0.19896448	-5.44023
KH.C9.803		125.13198	-1.08341127	0.26467063	-4.0934322
KH.C5.21		2879.55204	-1.08356047	0.09957109	-10.88228
KH.C14.54		310.072706	-1.08455439	0.17785777	-6.0978746
KH.L4.7		132.721751	-1.08824223	0.24161245	-4.5040819
KH.C3.438	LYAM3_CSMD3_LYAM2	2528.66057	-1.09371873	0.10254197	-10.666059
KH.C14.549		58093.2463	-1.09837686	0.38962337	-2.8190733
KH.C1.525		959.573193	-1.10796014	0.11777849	-9.4071518
KH.C11.184	GALE_TGDS	1712.11185	-1.10951953	0.33934707	-3.2695716
KH.C14.577		74.8383964	-1.12182594	0.3203926	-3.5014102
KH.C1.158	GSH1	48.2689359	-1.13563125	0.3838014	-2.9589034
KH.C2.919	BTBDJ_BTBD3_BTBD6	1527.13479	-1.13620616	0.28704447	-3.9582931
KH.S351.4	PLEC_DESP_EPIPL	1471.50684	-1.13820391	0.11462234	-9.9300356
KH.C14.261		66910.4143	-1.13962514	0.19889683	-5.7297299
KH.C7.521	PLMN_APOA_TPA	415.469405	-1.14713662	0.17285127	-6.6365529
KH.C1.757		420.328245	-1.15448388	0.13826968	-8.3495083
KH.C1.434	B3GT5_B3GT2_YI036	288.447295	-1.15942442	0.1763723	-6.5737331
KH.C2.54		252.856603	-1.17347278	0.18357668	-6.3922759
KH.C7.58	TMPS9_TMPS5_BSSP4	5158.8596	-1.18410443	0.07029801	-16.844067
KH.C9.572		1135.32227	-1.19045735	0.28067152	-4.2414612
KH.C9.209	NR4A3_NR4A2_NR4A1	2436.29075	-1.19726648	0.09105779	-13.148425
KH.S511.1		202.805976	-1.20168528	0.19251411	-6.2420634
KH.C8.49	FOXI3_FOXI2_FOXI1	41.7642879	-1.2069976	0.41928123	-2.8787303
KH.C5.208		849.658355	-1.21204723	0.13535152	-8.9548108
KH.C12.186		45.7867873	-1.21649518	0.38054677	-3.1967035
KH.L96.108	YLAT2_BAT1_YLAT1	701.068768	-1.21689596	0.14686038	-8.2860742
KH.C10.215		56.8977988	-1.23124943	0.39700405	-3.1013523
KH.C10.144	CORIN_TMPS2_FA11	12285.2408	-1.23614927	0.19597108	-6.3078146
KH.C10.67		579.996696	-1.23965963	0.12557682	-9.8717236

KH.L142.14	EMX1_EMX2_VAX1	173.886795	-1.25421189	0.20590166	-6.091315
KH.L108.30		2145.64379	-1.26997683	0.29845542	-4.2551643
KH.C7.354		252.894541	-1.3023966	0.17669087	-7.3710466
KH.C8.603		6806.87372	-1.3329345	0.38380306	-3.4729648
KH.L170.71	AQP8_AQP1	64.4812372	-1.33540326	0.42293851	-3.1574407
KH.C8.510	MATN1_HMCN1_CO6A	66088.2552	-1.33565752	0.07980282	-16.736973
KH.C1.611	FCL	20422.8745	-1.3411764	0.36073519	-3.7178974
KH.C8.433	FAT1_SNED1_DLL1	9166.25522	-1.34231614	0.07346451	-18.271628
KH.C14.201	MDGA1_ENTK_MALR1	6365.22683	-1.34891477	0.4659484	-2.8949875
KH.L164.4		1439.67663	-1.35345715	0.23758289	-5.6967788
KH.C2.809		35.9052785	-1.35800477	0.45732475	-2.9694539
KH.C4.146	CTRB2_CTRB1_CTRL	3053.69434	-1.38046719	0.41147602	-3.3549153
KH.L92.8		5228.83134	-1.40133572	0.23667264	-5.9209875
KH.C3.764		204.504685	-1.40628812	0.2438648	-5.7666712
KH.L22.52		51.6869672	-1.42927129	0.38688666	-3.6942894
KH.C8.877		866.728176	-1.47209271	0.48422348	-3.0401102
KH.C1.3		22.7337867	-2.54872842	0.75555878	-3.3733026
KH.S432.1		20.6493634	-3.79269458	0.76530097	-4.9558209
KH.L60.8		9.35661452	-3.98277214	1.18559537	-3.3593014

pvalue	padj	HMX1_FPKM	HMX2_FPKM	HMX3_FPKM	YFP1_FPKM	YFP2_FPKM
2.78E-27	1.13E-24	93.611351	140.1987	230.916519	1.116467	0.717605
2.13E-49	1.91E-46	9.999525	6.820874	1.516103	0.694664	0.431057
2.40E-77	7.55E-74	32.429367	23.087103	7.054599	3.010319	2.164255
4.12E-07	2.13E-05	0.998651	0.741074	0.278904	0.06845	0
5.72E-18	1.03E-15	8.624603	3.492775	1.979976	0.808223	0.330755
0.00200558	0.04274254	1.476188	0.710602	0.321064	0.670032	0.041831
0.00562139	0.09885787	1.082726	0.037124	0.353397	0.056422	0.022752
2.57E-83	1.08E-79	23.237993	16.318871	8.794868	3.712085	2.700893
1.37E-83	8.62E-80	35.127125	36.399132	15.149598	6.198422	4.125287
7.00E-14	8.55E-12	11.460532	6.894696	3.626407	3.519809	0.534664
1.97E-12	2.08E-10	29.38908	17.905813	5.189749	4.571681	2.699611
3.62E-35	2.27E-32	34.631416	25.26145	12.808995	4.981874	5.554678
1.48E-70	3.10E-67	70.488518	62.183819	22.195433	14.186757	10.951782
1.39E-09	1.02E-07	85.748589	66.700394	37.506603	14.159166	9.363735
0.00467899	0.08612287	1.617905	2.615882	2.119695	0.640622	1.429368
7.53E-12	7.23E-10	15.193546	9.001363	4.523129	3.088667	2.830458
8.24E-05	0.00259727	0.002562	0.033457	0.063777	0.089691	0.099146
4.66E-10	3.69E-08	4.276917	4.033607	0.991244	0.333707	1.10015
1.53E-12	1.63E-10	13.519933	4.821785	3.840111	1.620687	0.734456
1.45E-53	1.52E-50	41.635834	28.140413	13.563532	9.801622	6.32404
5.08E-56	6.39E-53	25.810089	22.473854	8.855103	6.501969	4.681641
0.00202011	0.04292156	0.960213	0.912776	0.585577	0.080781	0
9.58E-141	1.20E-136	146.218048	78.651176	70.533813	34.650299	21.706085
1.61E-14	2.09E-12	11.445273	6.290527	2.526472	2.771409	1.952114
5.90E-18	1.04E-15	7.282439	8.71025	3.452538	2.086849	2.005735
0.00490372	0.08897463	2.491346	3.178197	1.048468	0.563212	0.291837
3.64E-11	3.27E-09	3.735179	2.333178	0.92341	0.776638	0.665744
2.14E-17	3.64E-15	9.091327	10.020809	4.180684	3.539109	2.290812
5.84E-05	0.00189768	1.983297	1.117286	1.035739	0.437127	0.435146
9.07E-07	4.40E-05	2.642241	1.783662	1.034685	0.428457	0.971144
8.04E-66	1.44E-62	39.357697	28.734015	16.122091	12.875451	8.255448
3.33E-29	1.55E-26	19.14942	7.669774	10.429389	6.606171	1.883669
1.42E-08	8.94E-07	7.79444	5.76197	1.331138	1.84269	1.893326
8.15E-13	9.15E-11	22.266033	6.225627	11.344992	6.944291	1.420573
1.60E-38	1.06E-35	99.455856	70.413017	35.747364	37.2477	18.205311
3.09E-32	1.69E-29	75.498589	51.770168	39.334446	21.662611	16.244101
0.00010645	0.00328867	3.12196	1.318381	0.983254	1.154117	0.593139
0.00031468	0.00860173	3.169053	2.511282	2.487755	0.994869	1.409348
8.29E-23	2.43E-20	20.411016	9.949061	6.613914	6.763175	3.224241
3.63E-24	1.23E-21	34.487988	19.104334	10.537834	10.051673	7.079596

4.61E-19	9.99E-17	377.501404	271.611603	136.450912	140.105087	96.991257
6.79E-45	5.69E-42	50.198483	38.917374	19.468248	17.36202	12.448538
2.83E-05	0.00099123	4.231204	2.120703	2.677991	1.207855	0.651437
2.31E-12	2.42E-10	85.096954	66.796997	28.364744	27.35202	22.14492
8.16E-09	5.40E-07	6.186216	5.796962	1.905625	2.24561	1.756138
1.99E-05	0.00070929	10.951537	3.082652	7.651834	3.473698	0.981498
0.00018391	0.00536547	0.960215	1.374521	1.620149	0.292947	0.471465
0.00479711	0.08767273	0.755199	0.272875	0.18896	0.316887	0.617279
5.48E-23	1.65E-20	47.20443	30.360226	13.809419	17.570784	9.772547
5.72E-12	5.71E-10	45.895737	26.054296	12.859106	15.275689	6.622265
0.00313788	0.06205378	3.727301	4.077244	1.412113	1.088295	1.095963
2.25E-11	2.08E-09	18.425606	14.454528	4.943915	6.271508	4.411736
0.00059134	0.01493065	7.089963	5.756361	1.144229	3.981785	1.22919
2.01E-06	9.06E-05	5.5878	19.172302	4.985429	1.713473	13.921131
1.68E-07	9.33E-06	7.417384	6.15709	3.372651	3.007963	2.233524
1.88E-18	3.58E-16	6.542029	5.800491	2.13511	2.678225	1.76451
1.95E-19	4.54E-17	77.972488	36.615547	25.350605	27.307335	16.000351
1.61E-05	0.00058591	5.965014	1.264999	1.926158	1.992132	0.829879
0.00405163	0.07684044	2.554171	2.558058	0.588979	0.820331	0.325601
0.0041924	0.07914117	2.519029	2.392537	0.91676	0.908995	0.729983
1.37E-05	0.00050883	21.587593	17.142071	8.137116	6.447783	6.946197
0.00014513	0.00433448	5.662533	4.121942	1.132488	2.552407	0.978274
0.00019297	0.00557801	2.806196	2.727716	2.186091	0.9647	0.975683
6.57E-17	1.06E-14	7.150839	6.220499	4.863019	3.353588	3.005666
0.00073362	0.018052	10.462852	3.999136	4.408669	3.146512	2.209998
7.16E-09	4.88E-07	11.729897	11.081939	6.275597	5.812885	3.798349
0.00052941	0.01350269	7.269477	2.8854	2.372939	3.559478	1.212098
2.75E-07	1.46E-05	4.5681	4.074963	3.346018	2.371669	1.739124
1.20E-14	1.60E-12	20.104353	14.27679	8.490153	10.077503	4.406543
0.00171219	0.03757245	3.211141	1.835226	0.947887	1.424764	0.745903
5.14E-09	3.53E-07	14.315687	8.054109	8.18716	5.790667	3.946711
1.30E-05	0.00048753	5.157536	4.039093	2.581923	1.956924	1.716555
0.0025275	0.05167602	5.51518	3.475565	1.60942	2.413296	2.181291
1.33E-09	9.84E-08	6.877869	7.147384	4.592806	2.244012	3.526307
1.90E-14	2.41E-12	30.619795	16.591726	12.60299	12.223067	8.788799
7.10E-31	3.72E-28	64.655411	59.866505	38.543827	28.839556	26.944323
0.00010561	0.00327893	9.935167	42.337891	6.382	6.412056	12.830291
1.65E-42	1.30E-39	377.090179	265.539703	189.245667	160.213333	119.109558
0.00033486	0.0090744	2.084639	1.122344	0.439474	0.841697	0.5283
4.00E-11	3.57E-09	8.06093	3.930079	3.732452	3.982599	1.612057
9.32E-06	0.000364	10.826603	10.385159	3.888731	3.147075	4.617472

8.06E-06	0.00032167	10.822872	5.900062	4.608518	4.298841	3.655808
0.00110053	0.02557856	5.381703	3.077818	1.701656	0.713947	0.738552
2.77E-14	3.48E-12	19.35737	11.183617	7.583993	8.825043	5.008744
4.72E-06	0.00019861	12.518338	8.233715	6.841302	5.242394	4.429369
1.19E-08	7.64E-07	4.085792	3.467788	1.663133	1.358731	1.414614
5.90E-19	1.26E-16	15.589176	12.032592	3.958478	7.400761	5.29979
2.12E-19	4.77E-17	29.921577	23.320913	19.207611	14.611248	9.594385
1.87E-18	3.58E-16	47.093067	40.315727	22.216019	23.436646	16.231573
2.86E-05	0.00099799	2.570049	1.845923	1.474304	1.413812	0.622666
0.00018983	0.00552532	3.489343	2.25174	2.63612	1.240915	1.129769
5.37E-21	1.38E-18	103.616051	62.60054	35.442078	47.328278	23.526966
0.00553404	0.09768432	3.827536	2.075953	1.178738	2.43247	1.247559
0.0012638	0.0289983	4.268123	2.140584	2.788359	1.662061	0.845835
1.83E-10	1.49E-08	26.224083	21.268042	15.60443	16.006456	12.901995
6.01E-11	5.24E-09	14.686881	8.734105	8.46398	7.888086	5.097232
3.30E-06	0.00014146	9.344515	6.567375	4.322354	3.975418	3.10423
2.05E-20	5.16E-18	64.3592	36.648026	25.292658	32.787941	19.07365
0.00012702	0.00384866	2.361834	2.267212	0.709584	0.477701	0.39217
0.00427039	0.08025203	181.107452	64.115074	58.405258	66.136642	38.227741
1.88E-07	1.03E-05	30.713911	17.627922	7.257835	20.056051	8.717971
0.00447087	0.08328404	7.954879	5.960425	3.710328	3.951322	2.71329
3.15E-05	0.00108983	8.540878	4.043073	2.098579	4.868915	2.135053
1.96E-08	1.23E-06	12.934611	9.883606	6.55583	7.123369	6.073146
0.00171586	0.03758757	6.374516	3.603042	3.790356	2.620755	1.712687
5.44E-05	0.00178459	12.895454	7.119803	5.158525	7.035832	3.758024
1.17E-08	7.58E-07	25.759783	14.341865	5.970601	13.584844	7.04603
2.71E-08	1.68E-06	43.011814	28.681158	23.877731	19.872627	17.361328
8.39E-08	4.82E-06	10.693164	7.708824	7.985976	4.08948	4.466555
0.0023111	0.04795343	7.716764	8.481009	2.994491	4.158756	4.925824
1.20E-07	6.76E-06	18.684689	15.563192	6.202909	7.898178	7.318629
0.00034846	0.00936215	13.496576	8.846697	5.612745	6.784609	5.564004
1.19E-06	5.54E-05	11.013589	8.759215	5.633575	4.633173	5.77721
9.00E-09	5.90E-07	57.689507	27.519737	32.698193	27.950855	14.686091
1.67E-18	3.29E-16	57.68425	35.834476	21.227242	36.066395	20.430902
3.12E-07	1.65E-05	13.7354	8.494358	3.815236	6.243441	4.110926
1.17E-06	5.46E-05	10.861307	6.261733	3.637485	6.686008	3.060046
0.0038991	0.07458612	6.423759	4.015412	2.844189	3.388267	2.023867
9.17E-07	4.44E-05	16.120956	12.557734	8.298406	8.561433	7.895661
8.10E-11	6.79E-09	14.016539	14.048769	10.395332	7.007762	8.946351
1.46E-15	2.10E-13	46.037117	34.392822	20.394287	23.593107	21.972425
5.82E-08	3.40E-06	32.384029	23.420065	14.63341	13.993922	15.164062

0.00029898	0.00820823	2.687033	2.159446	1.168866	1.194689	0.889754
1.26E-08	8.00E-07	21.252384	22.043003	14.802416	11.483178	13.954502
5.51E-08	3.27E-06	36.933323	19.425303	11.248456	21.505285	11.743948
1.46E-10	1.21E-08	13.437894	20.712416	14.705329	6.710862	12.993626
7.07E-12	6.90E-10	51.564384	27.479868	19.157101	32.116348	17.985512
1.04E-06	5.01E-05	9.089192	6.247429	4.299611	4.933794	3.162742
0.00071137	0.01760776	6.585918	3.895901	3.111949	4.030715	3.017349
8.45E-06	0.00033503	9.951653	7.249238	3.11383	6.142224	3.328932
0.00035801	0.00955747	9.387391	3.404014	7.476992	5.12479	2.992265
5.01E-12	5.04E-10	25.576368	20.503059	6.877878	16.377663	11.940587
2.31E-10	1.87E-08	16.966534	13.019703	6.455876	10.365451	7.504558
6.03E-06	0.0002459	14.710692	10.013965	6.004869	10.158913	5.113986
0.00101934	0.02409238	3.883	7.325479	3.050081	1.664318	4.103409
2.90E-06	0.00012553	23.767653	21.673767	16.604858	16.614275	11.564331
6.27E-08	3.65E-06	12.032354	7.318275	4.377397	6.137137	5.00458
0.00035725	0.00955747	6.36257	5.32155	4.664724	3.348524	3.792396
0.00081703	0.01979456	6.95848	6.412047	4.105591	4.195502	4.457946
5.79E-05	0.00188758	12.976544	7.484915	4.995967	6.574714	4.510756
1.79E-05	0.00064501	5.783968	3.944732	1.862944	3.36742	2.264999
7.91E-09	5.29E-07	29.365616	20.475397	14.460233	39.353924	12.047372
0.00517727	0.09313158	7.507488	4.082476	2.147686	4.794239	2.123043
1.96E-06	8.92E-05	14.384971	8.077026	5.820161	9.009305	5.78369
0.0002532	0.00702804	12.169815	10.888396	8.078849	8.718819	5.840054
0.00193984	0.04155289	3.717394	3.874202	2.961509	2.287865	2.030159
2.10E-09	1.51E-07	7.719209	5.617309	6.022685	4.510394	3.459018
0.00087133	0.02090857	15.378776	8.603189	4.632563	8.293031	4.799883
1.23E-09	9.18E-08	66.279938	39.044907	21.427752	43.083981	25.691875
3.03E-05	0.0010508	15.572724	15.093215	9.091022	8.41381	9.296747
0.00027493	0.00758099	13.221856	12.849791	10.139407	6.71907	9.192681
0.0021389	0.04512507	8.386169	8.841666	5.539279	5.649087	5.40149
0.00025506	0.00706412	7.119617	6.549412	7.056783	4.979057	3.263849
0.00032638	0.00888291	40.218269	1.122696	22.534019	21.499187	16.289047
0.00105271	0.02477217	5.346155	5.361545	5.893312	3.640168	2.990957
0.00313872	0.06205378	5.088168	3.376513	2.873981	3.270843	2.016132
0.00136057	0.03082484	9.706476	6.580061	4.018886	6.289468	4.421441
8.88E-06	0.00035011	16.589741	12.814799	6.567553	11.12563	8.014856
7.59E-10	5.89E-08	40.427704	25.731316	21.550533	28.644299	14.82741
8.23E-10	6.35E-08	103.765007	96.054039	53.056091	58.923458	67.652756
0.00032461	0.00885393	66.840874	57.083302	41.068096	45.057056	27.762449
3.37E-05	0.00115187	46.014454	23.358501	14.068054	26.007341	16.190464
2.58E-05	0.00091057	7.96977	5.74492	3.218968	4.972386	4.388329

1.31E-05	0.00049119	22.807611	23.004938	13.449797	13.709291	16.944534
0.00162526	0.03597882	6.430892	15.026739	9.44056	5.118409	12.438532
0.00040754	0.01078819	3.600241	2.685993	1.611683	1.67152	1.227454
0.00220776	0.0462673	0	0	0	0	0.062135
0.00024129	0.0067272	16.760033	18.705767	12.523675	9.458135	14.34263
0.000974	0.02310757	15.071824	10.354993	3.933474	8.626012	6.375893
1.85E-07	1.02E-05	21.593004	11.190986	9.33955	14.523291	8.174283
1.96E-05	0.00070279	19.131939	17.287193	10.96904	11.534181	12.092853
0.00185814	0.04028324	15.936108	14.761209	12.089433	11.876451	9.662609
5.64E-06	0.00023266	53.300941	39.297268	26.089256	31.805031	24.248459
5.68E-07	2.84E-05	30.731667	18.581614	14.748111	19.821621	15.052461
1.14E-05	0.00043225	128.257935	68.634499	98.284897	39.139256	41.898029
9.12E-06	0.0003574	35.899204	16.944525	12.297343	18.392485	11.686858
9.24E-10	7.09E-08	75.714935	100.265808	53.630402	58.94891	65.382065
3.19E-05	0.00110172	32.933453	20.105364	16.679171	21.319178	15.130391
0.00016782	0.00495336	7.557531	7.217301	6.154171	4.782262	4.716291
5.68E-08	3.34E-06	29.722816	27.519691	19.324043	21.431051	18.538502
0.00023611	0.00662683	14.92763	10.680738	9.010339	11.698913	8.41001
0.0006795	0.01685206	14.748182	11.177931	10.514322	10.971577	7.977923
0.00104903	0.02474755	56.843231	22.51922	15.008665	33.709473	19.096848
5.37E-06	0.00022414	25.31716	28.052736	18.808758	14.103708	19.628531
0.00039565	0.01049555	28.425129	22.376415	13.543953	18.341713	14.7328
0.00031351	0.00858838	25.487541	9.92571	9.709761	14.669248	6.692115
0.00010433	0.00324727	47.562473	20.787882	17.87409	30.595818	15.315709
0.00190064	0.04099248	25.563097	12.581832	14.0022	18.895275	12.198601
2.86E-06	0.00012451	69.132294	46.395477	26.563736	50.735668	31.335636
3.60E-07	1.88E-05	41.330326	45.154221	31.177288	29.638622	33.977772
0.0017883	0.03903844	10.319897	6.964035	4.935097	6.973598	5.126095
8.68E-06	0.00034328	36.695454	23.905743	14.656396	24.491486	17.889748
0.00501453	0.09059294	9.400364	7.395982	3.098795	7.000819	4.438772
0.00518564	0.09314897	42.786369	21.535242	9.651755	32.415131	13.098319
2.70E-07	1.44E-05	385.359833	440.124756	271.717499	232.546356	316.758759
1.17E-06	5.46E-05	17.808033	30.282089	23.474743	12.603952	21.845743
1.76E-05	0.00063687	14.063099	26.191301	12.085088	11.629547	17.758438
0.00156714	0.03487646	36.602184	21.685568	14.602518	20.953606	16.945189
0.00048296	0.0124925	22.639294	15.497842	11.032	14.519748	9.533933
0.00269504	0.05474546	15.941346	34.693272	21.900343	11.029063	24.263859
0.00131371	0.02993802	2.455524	1.797557	1.399784	1.771238	1.39317
0.00472807	0.08666291	28.183439	14.388532	9.241445	19.33786	10.295267
0.00019247	0.0055762	42.177383	29.018522	25.252266	26.474308	23.10729
6.20E-06	0.0002513	65.995903	67.128044	43.251995	47.348492	51.852016

0.00034198	0.00920775	15.658623	11.183031	9.394699	11.340837	7.454704
0.00011588	0.00353646	25.396883	14.145727	6.868542	21.095263	9.863111
0.00322653	0.06339117	20.820374	22.511696	27.329344	12.301377	17.591656
4.85E-06	0.00020344	1144.94812	909.503296	708.039978	730.15271	724.082886
1.13E-05	0.0004299	17.513754	14.982785	9.238485	13.494775	10.458986
9.05E-05	0.00282307	41.513752	48.257256	28.87035	32.114807	38.922146
0.00252242	0.05165614	11.449274	24.253851	16.166191	10.190065	16.00672
0.00041283	0.01090518	19.180265	22.871675	17.702389	13.565813	17.58675
0.00012002	0.00364513	23.612934	46.930386	35.040249	14.063008	37.632061
0.00232676	0.04811951	18.081547	13.334013	10.168788	13.524615	9.509759
0.00309703	0.06171475	14.032049	11.057383	10.623135	18.211037	13.758798
3.24E-05	0.00111465	14.880436	15.197618	13.832116	9.986046	12.59387
0.00033968	0.00916563	78.678856	48.251598	41.796089	47.874271	37.648514
0.00199296	0.04261821	19.18936	9.942244	7.122882	13.165858	6.606622
0.00395746	0.07539554	12.287225	10.269343	7.253546	8.979812	8.245514
0.00123498	0.02838877	18.846657	11.762637	13.421133	12.442928	8.768778
1.15E-05	0.00043396	129.728195	81.49617	49.021893	92.178444	63.267792
1.52E-05	0.00055556	285.219788	232.445145	183.691635	200.002274	188.218445
2.97E-05	0.00103459	34.89669	54.246506	47.425095	29.219296	38.591404
0.00324338	0.06362278	20.955059	15.620075	14.489892	16.280672	14.109117
0.0019172	0.0412648	28.846821	21.853407	19.190666	19.380394	20.166451
0.00026119	0.00721804	225.983627	121.729042	104.315979	149.601089	97.843307
0.0022062	0.0462673	22.361254	17.472902	11.132943	19.342518	12.479206
0.00076349	0.01864096	27.396799	28.27335	20.953066	21.067099	23.00061
0.00053956	0.01367909	63.487343	34.232002	12.476165	50.463352	22.132792
0.00202135	0.04292156	55.852562	89.656387	71.894127	44.887402	64.633781
0.00309207	0.06171384	14.536534	8.78428	12.393567	10.228708	5.924556
0.00113016	0.02617062	16.136913	23.893476	16.072538	13.139542	18.131784
0.0019982	0.0426577	73.741882	47.273689	60.530956	51.80341	31.622246
0.00551563	0.09768432	23.205	26.034613	18.994444	17.375408	22.530115
2.63E-07	1.41E-05	1307.23193	846.218201	650.853882	1071.53516	572.540527
0.00460261	0.08510758	29.833982	24.741043	23.693195	23.431606	20.036148
0.00062422	0.01563536	84.987289	27.746264	27.307293	64.837013	22.874851
0.00107772	0.025095	24.279097	21.111683	15.251136	18.124702	14.3997
0.00074747	0.01832099	43.664013	43.216793	41.284039	31.311819	34.792011
0.00075421	0.01845021	22.076653	19.194881	15.418286	16.949074	13.847177
0.0001793	0.00524318	50.658306	53.723301	37.814636	41.123062	43.693134
0.00449411	0.08359313	40.410706	29.390661	16.817333	36.635139	24.275679
0.00140897	0.031693	67.5186	86.764793	65.634216	55.151749	70.25222
0.00212759	0.04496183	36.565842	30.440659	20.646826	28.555254	24.957773
1.50E-05	0.00055273	35.244595	44.68655	45.877869	29.699514	33.114571

8.57E-05	0.00268816	126.969543	120.489136	86.030518	94.217064	105.825455
0.00017328	0.00510262	14.610661	24.18412	20.269634	12.55707	18.301817
5.48E-05	0.00179452	202.722305	158.751419	148.072723	140.069626	130.263931
0.00552422	0.09768432	19.965401	22.020403	16.196583	13.60742	16.186054
0.00051059	0.01310225	37.568531	33.821404	19.38969	28.211695	26.47703
0.00023886	0.00667418	114.248711	118.120102	112.771164	82.950333	93.795425
0.00046591	0.01210414	33.995781	37.659641	35.884403	20.372595	27.468781
0.00482909	0.08787409	12.90143	10.487988	12.286939	11.006511	8.910869
0.00189002	0.0408336	52.334248	42.601509	41.652924	38.185577	35.56638
0.00077494	0.01888391	14.011999	16.746944	9.669378	10.715446	13.094362
0.00285063	0.05744201	11.413986	15.992658	12.334248	9.926718	13.692042
4.80E-05	0.00159208	32.527718	80.851051	53.844559	27.5506	60.017178
0.00140188	0.03159003	12.384137	10.134461	9.168872	9.048421	8.202064
0.0055461	0.09768432	27.377855	50.092876	23.660152	22.43383	33.029755
0.00105401	0.02477217	21.230877	37.369518	30.568117	17.562935	29.907978
0.00020941	0.00598449	381.763306	300.049591	253.661545	285.266998	239.328949
0.00043185	0.01136005	51.436935	57.960873	46.176212	40.495415	46.282356
0.00301916	0.06045052	74.643639	72.07148	73.882812	58.113472	57.102966
0.00231796	0.04801649	43.922394	47.921387	36.977634	34.63271	38.385406
0.00060514	0.01524856	220.665588	183.136871	122.249619	170.980469	160.544388
0.00545928	0.09707202	16.693695	19.95796	17.493429	10.786489	15.848628
0.00106845	0.02499863	50.547653	63.297531	67.868172	39.852299	50.508041
0.00276798	0.05595597	61.601894	68.841438	71.540878	44.901268	55.172089
0.00350267	0.06807198	23.757021	47.024475	40.305248	21.173725	34.175095
0.00175163	0.03830443	201.262726	181.367035	161.745255	155.908875	147.506439
0.00035056	0.00939863	46.56876	47.515797	50.544983	36.611706	39.067738
0.00020527	0.00587947	50.394577	80.587044	79.212158	40.710857	67.938103
0.00345786	0.06740945	46.449013	28.676189	25.659433	34.162041	24.339262
0.00139914	0.03158493	183.924118	94.961815	75.062828	155.808884	73.946136
0.00229551	0.04770875	617.106567	487.335907	434.908752	470.369843	431.905609
0.00142275	0.03194579	58.219616	75.839104	57.701168	46.544785	60.962208
0.00499142	0.09030527	28.269642	42.735573	41.867069	23.408777	37.516567
0.00186657	0.04039628	29.946981	61.398998	50.961803	27.483982	45.810604
0.00442317	0.08254384	17.766069	45.891949	25.152807	15.036205	35.345261
0.00290841	0.05841915	148.54631	143.53035	123.98317	112.096519	121.894623
0.00085472	0.02062815	329.217041	284.270416	198.171646	291.199066	211.364685
0.0008769	0.02100212	85.29995	113.277214	108.11544	74.314217	92.489082
0.00183451	0.03983955	70.545212	61.524487	66.689713	57.728523	50.558334
0.00434509	0.08142356	25.349543	38.871231	30.17135	20.285507	33.514721
0.00390311	0.07458612	124.562508	105.068687	116.430946	98.543755	88.086349
0.00119261	0.02756598	259.936066	228.26033	198.124893	219.739136	184.168777

0.00525603	0.0938769	68.21743	50.266945	37.387249	61.065598	42.643391
0.00492895	0.08930351	77.538643	71.225685	68.803612	62.214935	56.700485
0.00419812	0.07914117	58.433273	40.500214	23.643517	51.56916	34.929504
0.00504785	0.09093367	81.287392	81.646294	96.826721	65.93103	71.802055
0.00370068	0.07147826	412.022736	440.962555	466.768433	351.531982	364.473755
0.00224229	0.04667965	1051.0127	642.017761	632.744385	1144.50916	747.839233
0.00392327	0.0748576	160.17453	165.57132	163.318466	183.319153	175.374878
0.00255139	0.05207987	641.527832	346.69812	448.410858	673.146362	414.458801
0.00462826	0.0853362	187.449066	149.455536	167.262222	207.082428	154.458252
0.00330972	0.06482304	414.772583	275.863647	291.412231	419.414795	337.088684
0.00258076	0.05259397	66.26252	59.625244	60.990181	74.495697	67.268547
0.00126883	0.02906066	260.592804	242.114029	314.126251	292.018555	274.48114
0.00220161	0.0462673	97.383675	81.256386	99.974754	110.338547	90.394119
0.00053107	0.01351767	673.13446	346.769958	343.940613	747.167114	381.566803
0.00468732	0.08612287	123.64827	79.192566	80.059326	125.715332	94.834076
0.00427396	0.08025203	41.432446	26.028751	19.776875	48.347424	27.161175
0.00486639	0.08842486	44.854843	36.070496	27.53491	54.500282	42.264423
0.0001316	0.00397776	62.850517	71.35463	63.896835	78.904228	87.450684
0.00218525	0.0460256	37.099895	31.942863	39.541843	40.939873	37.575329
0.0032122	0.06320845	72.698227	56.326073	55.142456	86.403473	76.970947
0.00182203	0.03963713	98.479477	71.202431	55.789253	121.386452	82.521255
0.00042641	0.01124046	229.357162	186.963547	106.04229	300.213654	224.881912
0.00273005	0.0552781	96.496445	57.699356	55.955467	99.869766	71.126694
7.91E-05	0.00249777	134.325485	149.078857	143.24649	177.608124	177.038666
0.00149827	0.03346217	43.7584	37.814507	32.829136	45.490047	42.355598
0.003161	0.06229849	42.576328	23.836449	14.183715	47.431339	29.857325
4.25E-05	0.00142898	155.967819	161.402435	183.925766	190.144073	180.529266
0.00363194	0.07036681	4.09982	2.513766	3.478172	4.891621	3.123064
0.00223989	0.04667965	39.620388	23.417812	21.787521	42.949451	29.48177
0.00164321	0.03624856	16.194412	8.73575	6.179078	17.774427	11.113011
0.00243558	0.05012277	24.789064	50.741776	32.694321	32.783306	60.829628
1.13E-05	0.0004299	0.788766	0.733223	0.182423	1.2863	1.08972
0.00089483	0.02130972	46.808399	31.768538	29.788191	50.975712	36.244884
5.91E-05	0.00190411	100.898254	118.824837	106.525284	131.101929	129.929932
0.0012252	0.02821552	137.454025	61.377548	40.959805	141.108383	84.717567
0.00240156	0.04950369	129.035141	118.766922	107.795532	177.149307	142.848312
0.00053959	0.01367909	37.795677	49.757759	45.924564	49.951061	58.915276
0.00457215	0.0847938	4.081638	3.44636	10.692698	4.7905	4.042638
5.87E-05	0.0019016	162.700729	111.047157	86.05703	188.990387	143.553787
0.00013806	0.00415296	36.336319	28.696768	27.134966	48.249462	35.629459
5.42E-07	2.71E-05	333.623016	185.798859	139.46817	354.82135	230.730087

0.00144691	0.03243043	22.514042	14.036055	13.620641	27.867491	17.155767
2.71E-05	0.00095219	153.708496	110.89093	91.370964	171.029739	155.209229
0.00314957	0.06217069	53.822506	22.975185	22.283426	53.364372	31.719839
0.00272732	0.0552781	30.885113	20.839405	21.745047	37.018612	22.677423
0.00379134	0.07267881	20.477083	14.097073	9.011218	24.697195	17.177195
3.36E-05	0.00115187	32.947803	22.644426	13.450715	41.01778	27.442808
0.00412512	0.07811638	23.193939	25.562538	16.200579	36.843468	34.143707
0.00131428	0.02993802	28.49078	14.335232	11.597048	35.90239	20.764303
7.64E-08	4.41E-06	245.060318	152.662964	107.780823	315.453003	191.400726
0.00010616	0.00328795	37.934433	40.107738	24.173861	50.076794	47.646534
3.35E-05	0.00115102	40.999882	37.864246	39.632595	58.354202	43.504513
0.00120665	0.02783932	23.852737	11.311954	12.020345	29.321577	14.359073
0.00048384	0.0124925	16.922827	7.648012	6.076237	22.120594	9.922949
0.00090963	0.02162131	17.268957	11.928306	8.814012	23.784239	13.437215
0.00209864	0.0444247	21.28886	8.37196	5.917177	27.186523	17.763042
0.00015224	0.00451473	35.067776	34.69278	19.805969	46.751957	41.78389
0.00521447	0.09353312	12.160991	5.324173	3.080972	13.658435	7.58841
4.53E-05	0.00151803	69.871216	41.068329	22.820591	81.994949	48.547375
0.00023762	0.00665453	210.055893	137.067001	55.842072	242.054459	172.62413
0.00049309	0.01267927	50.569336	41.746136	22.629198	63.8283	52.721672
0.00526418	0.09388909	11.446387	8.491279	3.788681	14.236606	9.204403
0.00166194	0.03659767	63.311661	27.540541	17.838243	63.007172	46.045872
0.00021329	0.00606774	115.699783	66.435997	52.585823	127.348038	82.805397
2.79E-06	0.00012212	92.901436	58.722065	36.574169	113.037537	73.165321
0.0022403	0.04667965	22.177711	12.949067	12.980744	28.224754	14.710841
4.96E-07	2.52E-05	225.586868	185.508591	158.158005	270.759979	237.52182
0.00017756	0.00520438	36.236225	25.752642	12.760843	40.602612	36.855381
3.48E-05	0.0011855	18.859928	53.790966	20.632988	26.85408	28.017855
0.00413723	0.07822783	22.578699	13.01436	1.816262	29.332115	18.372242
2.28E-06	0.0001017	141.820496	64.423126	53.112011	164.975433	98.702705
0.00477933	0.08747499	66.236908	28.356407	19.935463	76.306152	37.177029
0.00071851	0.01774961	20.459379	10.501005	7.119339	22.191523	14.530869
0.0031361	0.06205378	12.230588	6.011241	5.202731	12.715743	6.878371
1.16E-06	5.46E-05	279.79425	147.207077	109.769676	343.855774	206.128189
1.34E-05	0.0005011	19.976149	17.988272	12.784945	24.234211	20.39185
1.06E-06	5.07E-05	858.440491	401.448425	406.407288	997.157288	582.999023
0.00338444	0.06618346	20.901466	14.953341	9.663064	22.260798	20.800303
0.00112206	0.0260309	109.503838	37.747421	40.489361	135.46669	62.691978
0.00014183	0.00424602	26.330027	11.214291	9.318563	31.322001	15.226139
8.26E-06	0.00032887	16.447428	13.497072	7.391469	21.847063	17.694656
4.73E-05	0.00157225	132.083237	58.889828	39.658768	148.014175	87.390793

0.00019907	0.00573322	15.206781	12.910978	14.085193	22.163406	16.695812
0.00313492	0.06205378	15.22506	5.754626	4.932031	20.81551	7.681855
0.00454027	0.08432699	23.271811	9.635519	11.608045	27.086779	13.321656
0.00533405	0.09500044	25.380108	10.0488	13.674168	30.082012	18.77355
0.00469176	0.08612287	22.289335	11.896482	10.345404	27.065826	15.957232
2.09E-06	9.37E-05	261.42746	107.030167	88.591377	287.121399	157.472183
4.51E-06	0.00019082	15.96929	12.285295	15.397243	22.330347	15.623535
2.54E-06	0.00011185	95.086311	59.522259	71.185112	131.729828	77.539589
0.00086263	0.0207772	18.32618	12.124937	4.617385	26.199322	15.954912
2.91E-07	1.55E-05	27.458994	14.370686	10.765048	34.567764	20.064566
1.56E-07	8.70E-06	46.523434	29.279987	24.329947	58.057518	38.155521
0.00033644	0.00909769	12.390989	5.628951	4.953355	17.46656	12.952461
2.40E-06	0.00010664	51.005322	20.248251	14.403879	56.799324	30.853067
0.00014814	0.00440345	54.980911	29.479818	22.503183	61.665653	50.904385
0.00439419	0.08222102	11.776012	1.888636	16.41091	16.732548	2.427315
0.00024659	0.00685969	13.459718	5.553687	4.03835	17.905188	8.134964
5.48E-06	0.00022753	28.530012	23.319012	24.501284	42.470718	30.247101
0.00378234	0.07267881	13.184597	6.608656	17.671751	18.807583	10.270307
5.22E-05	0.00172114	15.031091	8.649768	7.437141	21.545788	12.040118
0.00021735	0.00615517	43.307182	30.024036	18.979832	56.3979	45.913208
0.00372983	0.07193086	15.142877	3.954036	5.058547	15.413916	6.975338
0.00072677	0.01791838	114.246216	88.657753	36.167019	131.249466	111.977318
0.00106961	0.02499863	26.077663	11.693439	8.26971	33.286053	17.98382
0.00021059	0.00600447	44.559502	16.912521	12.416692	51.468697	24.390835
4.44E-07	2.29E-05	37.197662	30.67635	20.13183	56.765327	34.793003
5.73E-06	0.00023487	56.749313	20.040407	20.27475	72.299805	31.553383
2.45E-07	1.33E-05	17.673134	12.568579	11.006283	23.179377	18.432327
6.10E-11	5.29E-09	48.510925	51.159481	26.677181	71.538567	65.940041
4.84E-09	3.34E-07	916.054565	311.088074	238.60553	1064.48657	427.701782
2.93E-06	0.00012666	33.289856	15.168954	12.060903	40.474701	21.350069
0.00134182	0.03045498	13.261333	7.783974	4.125915	14.659923	10.267187
0.00442457	0.08254384	8.255744	1.898432	1.984712	11.374215	3.04003
3.26E-08	1.98E-06	24.660986	16.219318	17.122631	38.986553	22.071716
1.32E-06	6.11E-05	28.701344	15.780857	11.582854	35.412846	22.90661
0.00101325	0.02399365	22.490883	15.19105	13.64854	28.285711	22.312706
0.00202422	0.04292156	6.060668	3.068868	8.496261	9.126205	4.257271
7.06E-05	0.00225286	14.399757	14.221279	8.636911	19.17528	18.033852
1.01E-08	6.52E-07	57.196598	24.196224	21.972408	72.96347	36.04258
3.38E-07	1.78E-05	11.094255	8.163034	11.317233	16.399235	10.966281
2.81E-08	1.73E-06	117.670235	62.155533	53.770714	128.635498	86.304489
4.54E-05	0.00151803	37.004486	4.257492	7.264698	10.134506	16.148874

0.0004858	0.0125172	23.296577	12.657204	7.463736	28.118637	19.969936
0.00017615	0.00517491	12.725807	4.314741	3.576687	17.755552	6.430355
1.10E-05	0.00042029	33.410778	17.441885	8.540887	37.732738	32.67712
4.17E-14	5.19E-12	270.633453	132.446198	138.604584	372.123016	201.093277
5.38E-06	0.00022414	40.400177	22.595364	11.873548	49.111843	30.520342
0.00267692	0.05446528	40.708145	19.382351	12.878311	46.558247	25.387671
3.53E-05	0.00119988	36.946564	12.164984	10.50986	43.585785	20.626535
0.00554664	0.09768432	4.735958	3.188306	3.714521	6.482563	4.678085
2.19E-09	1.56E-07	20.654013	9.752419	6.060448	26.309597	13.407107
1.22E-09	9.13E-08	44.084644	21.670263	17.243311	52.464073	33.659264
1.48E-05	0.00054706	21.013145	9.874097	8.481012	28.860432	13.027557
0.0054658	0.09707202	5.766154	1.766849	2.053427	7.813891	2.790229
0.00037888	0.01007183	13.692698	4.225606	1.024773	18.167919	5.519726
0.00021504	0.00610362	7.729666	4.067911	1.995588	8.520368	7.171783
0.00010952	0.00336702	30.86718	10.960543	7.916083	34.791565	15.243909
6.28E-06	0.00025389	25.641663	11.335258	7.55216	29.966131	17.849335
1.18E-12	1.28E-10	120.227951	45.625248	36.549984	151.802429	71.294235
1.34E-07	7.52E-06	38.68327	13.002236	14.037943	44.90667	19.971531
1.26E-14	1.65E-12	87.959061	80.663857	80.534225	132.277222	97.246277
1.68E-06	7.67E-05	12.93841	9.892714	7.433272	19.064714	15.388836
1.55E-18	3.14E-16	151.095154	97.140877	72.936279	219.475449	112.812378
2.20E-08	1.37E-06	44.963017	15.7409	11.60483	55.313953	24.970249
7.39E-09	5.00E-07	35.041256	16.684896	14.090459	45.971493	23.864008
8.98E-14	1.07E-11	412.459991	204.934402	140.597137	529.525879	329.442657
0.00132998	0.03024073	7.400525	4.347317	3.679835	10.358217	7.06466
4.91E-05	0.00162388	3.504786	2.644912	2.442521	5.036319	3.645811
1.05E-06	5.02E-05	58.420074	22.193903	14.014111	76.199936	37.822075
0.00191983	0.0412648	10.168333	4.716145	1.585985	13.36129	6.417599
2.95E-06	0.00012689	17.607971	9.392167	8.488135	21.122778	17.226856
6.75E-11	5.78E-09	44.831852	27.012651	11.525672	59.649773	42.486324
0.00064366	0.01605834	13.577684	4.758757	4.488941	17.694473	8.211723
0.00011149	0.00341931	34.982243	53.459972	37.777264	68.485207	59.82682
7.61E-09	5.12E-07	22.906105	11.081742	7.161461	33.138618	17.280832
2.40E-15	3.32E-13	152.769928	64.023674	49.805866	202.597305	99.021576
0.00082224	0.01988247	9.507251	4.432718	2.672778	12.140558	7.638731
2.28E-11	2.09E-09	49.559189	18.628723	17.281115	64.020065	30.762373
2.82E-09	1.98E-07	50.168674	20.942547	13.128277	63.924755	28.230268
2.47E-07	1.33E-05	27.492428	15.130637	9.322615	40.102989	21.164066
0.00013418	0.00404586	11.073249	11.496681	8.868849	14.004984	17.673006
0.00010842	0.00334122	19.878233	9.779852	5.499033	22.897335	16.433426
1.79E-05	0.00064583	9.451321	6.331061	6.399583	12.899434	8.762136

0.00128273	0.02932564	10.807264	4.711902	3.401555	12.682147	8.181307
0.00063173	0.01579188	13.038116	5.310576	4.519599	16.988775	9.380632
0.0004472	0.01169031	16.472692	6.479285	5.608748	23.501812	7.422726
0.00014733	0.00438975	8.517488	4.541031	2.840792	12.215595	7.926123
4.25E-06	0.00018047	9.068924	7.731178	5.676285	11.698598	12.465224
5.40E-05	0.00177864	12.925938	7.829702	6.154338	16.654799	14.984503
4.67E-13	5.39E-11	30.85113	19.703873	12.66342	46.572453	28.363117
1.15E-09	8.64E-08	82.216896	37.774712	26.085949	81.582947	60.203571
2.41E-06	0.00010664	22.450323	10.086897	13.717253	27.40304	15.491255
4.75E-07	2.43E-05	1.423122	0.687486	0.350835	1.835391	1.256924
0.00011529	0.00352726	29.340275	7.391354	6.857427	34.669224	12.108253
5.58E-05	0.00182375	15.721547	5.126467	5.941624	20.973616	8.279234
0.00019076	0.00553966	10.118042	4.791718	3.21414	17.486364	7.595391
4.00E-09	2.78E-07	42.132103	21.187004	11.69814	65.633911	29.217735
2.08E-06	9.35E-05	22.534706	10.601839	12.992604	28.850479	19.471756
0.00043843	0.0114851	17.305138	10.706238	5.007376	21.106462	13.77323
4.81E-13	5.45E-11	19.313477	11.249804	7.084474	28.572954	18.484756
4.83E-07	2.46E-05	60.922283	23.203491	14.005803	76.144272	41.466633
0.0034063	0.06650754	19.577757	7.271108	4.254276	21.188587	13.003745
0.00051674	0.01320622	23.866505	5.220769	4.781307	13.6591	5.046738
5.54E-06	0.00022915	5.360252	4.209801	5.482024	8.66908	5.686757
7.78E-05	0.00246306	10.879086	5.8439	3.738385	12.811589	9.607725
0.00048289	0.0124925	15.019442	5.12728	3.022523	16.563572	8.673716
0.0048155	0.08776746	5.6021	1.074003	2.644807	6.722345	1.990387
1.96E-07	1.07E-05	22.071146	9.74529	6.356802	32.129436	15.814837
0.00289952	0.05833371	8.264688	3.319001	2.047109	11.132478	3.739684
0.00011634	0.00354212	9.488181	5.680942	4.517607	14.974298	8.900689
2.94E-08	1.79E-06	9.304976	4.702135	4.132645	14.967678	7.840511
2.34E-12	2.43E-10	446.602386	128.469528	108.815132	582.008545	250.320099
6.90E-05	0.0022092	29.451334	4.125501	4.412873	37.761589	5.796087
1.12E-26	4.25E-24	257.816986	123.687439	89.732964	394.399384	187.673935
5.57E-08	3.29E-06	33.465401	9.59294	10.956002	42.373562	17.61515
4.05E-15	5.48E-13	375.560974	127.398308	87.699249	490.180328	219.971954
1.72E-14	2.21E-12	70.549049	31.023788	32.772102	104.385277	53.886272
2.15E-18	4.04E-16	49.871956	23.325233	19.488977	79.179062	37.206181
0.00088192	0.02108217	10.151242	3.326053	2.558881	10.729216	6.484949
4.59E-08	2.75E-06	10.298896	7.418569	4.757959	16.195885	11.253874
2.22E-09	1.57E-07	35.486885	13.222079	8.780432	46.91066	25.938076
0.00310311	0.06173819	3.158617	2.192699	1.938743	4.384751	2.774221
6.09E-07	3.03E-05	73.457138	23.291689	21.290115	83.531609	47.562378
7.67E-05	0.00243613	10.580914	5.056904	3.213423	12.309789	9.619408

0.00346746	0.06749191	4.697586	2.28322	1.078876	6.676117	3.450697
6.02E-05	0.00193754	14.714335	8.825626	3.787309	20.593746	12.960059
0.00427619	0.08025203	10.853555	3.905947	3.723645	13.21589	6.807716
0.00523967	0.09382627	2.547204	0.792359	1.039177	3.997714	1.537781
1.98E-06	8.96E-05	18.595922	8.054457	6.120256	28.716822	14.03188
0.00353159	0.06852802	3.625351	1.771593	1.565542	5.727759	3.006322
8.10E-07	3.95E-05	20.087276	7.343186	3.539024	25.607857	4.643492
1.96E-06	8.92E-05	14.406204	8.256267	5.71309	18.896646	14.891044
7.58E-07	3.74E-05	60.182579	17.164259	12.881391	71.327675	33.996689
0.00043592	0.01144311	12.627894	4.287443	3.494211	13.272538	6.464756
8.79E-13	9.78E-11	52.324986	30.996588	21.704096	88.387024	36.316257
1.09E-06	5.13E-05	4.584492	1.855415	0.797873	6.960298	4.858122
1.06E-05	0.00040737	26.03422	6.716547	11.708959	32.366409	14.481502
9.21E-11	7.67E-09	62.403828	22.790754	14.702296	78.16819	40.448685
3.99E-06	0.00016989	17.921894	6.290874	3.618725	25.68589	9.442836
1.05E-12	1.15E-10	1673.80725	531.742798	360.4552	2032.65649	994.151978
2.59E-05	0.00091354	12.007065	4.771953	4.569728	16.735134	9.433641
5.90E-05	0.00190411	9.922321	5.510655	2.976106	12.568743	9.485626
4.62E-06	0.00019483	9.490991	4.419496	2.960491	13.008122	6.786212
0.00169664	0.03729643	6.90619	2.786328	1.378815	8.695122	5.868134
8.02E-07	3.93E-05	19.48687	9.167953	8.330465	28.888807	13.297338
1.42E-24	4.97E-22	128.505219	58.074081	39.22937	193.039825	93.367973
0.00061013	0.01534362	8.153169	4.68668	3.166862	9.006024	11.618492
1.04E-12	1.14E-10	37.43063	21.538284	13.727427	56.4272	35.100517
2.33E-05	0.00082646	8.113186	3.311464	1.71781	14.269834	8.387824
2.49E-06	0.00011002	22.436266	9.051342	5.942402	28.287498	18.40707
1.67E-11	1.57E-09	38.129436	9.231434	9.243606	67.790764	16.71019
1.51E-11	1.42E-09	17.671604	10.225944	6.557621	29.245121	18.557985
1.90E-17	3.28E-15	48.983128	23.225992	29.078901	74.883987	41.142723
1.65E-06	7.57E-05	19.644848	9.397483	5.89863	24.834393	20.739864
6.26E-17	1.02E-14	96.453819	31.681551	24.116255	133.528122	56.044445
1.05E-07	6.02E-06	23.07185	8.23211	6.175369	30.227228	14.648161
7.57E-11	6.39E-09	21.423677	9.994983	5.998736	31.694807	16.38232
0.00399299	0.07584265	4.789168	4.429714	1.067887	6.236103	6.036646
5.30E-17	8.77E-15	68.667992	34.300598	19.80245	111.850319	61.777088
8.63E-05	0.00269995	7.805071	5.938585	2.610264	14.142652	6.929904
0.00179339	0.0390815	4.340369	2.312824	2.278741	11.415409	4.221559
3.94E-07	2.06E-05	7.75418	3.015068	3.438896	11.496092	5.48407
1.22E-05	0.00045959	16.896421	7.0413	6.062408	21.78487	10.673482
4.68E-18	8.54E-16	414.986603	175.353653	95.770424	568.331726	318.993378
0.00061344	0.01539601	11.619822	4.180562	6.592209	21.524273	7.465819

1.64E-17	2.87E-15	217.373627	78.698174	59.466888	299.167694	144.923035
9.68E-14	1.15E-11	62.450272	20.54147	12.16291	91.012192	37.39851
6.86E-11	5.83E-09	37.36908	15.386559	10.017706	52.265701	30.503719
3.06E-11	2.79E-09	14.917938	6.196697	4.566401	22.833994	10.551253
1.65E-15	2.36E-13	27.022947	9.154653	8.510962	41.965977	15.358055
3.36E-12	3.44E-10	29.765507	13.18195	9.510623	42.150875	25.22673
0.00249297	0.05121983	81.825348	17.202063	14.153851	58.61969	35.812988
0.00037219	0.00991513	8.625531	4.091014	4.521041	13.233944	10.018041
1.65E-18	3.29E-16	39.195435	14.184691	9.368453	59.962482	24.76399
4.57E-05	0.00152387	12.568339	5.584595	2.82747	18.625469	9.039265
0.00459171	0.08503112	0.185333	0.075217	0.073378	0.461255	0.329039
0.00504725	0.09093367	6.858247	2.056852	1.365958	10.434148	3.623323
1.63E-09	1.18E-07	33.246952	12.279695	10.367389	47.459255	26.362267
0.00065546	0.0163203	1.291851	2.764374	2.570464	3.252408	2.449292
0.00033109	0.00899155	6.345232	4.716767	4.397109	9.093735	7.907157
1.46E-05	0.00053938	76.583336	32.28709	16.980347	102.399582	64.941895
1.47E-07	8.22E-06	32.84726	8.984314	9.048046	49.452572	17.497765
0.00374349	0.07208361	4.681345	2.068735	1.405106	7.023415	3.840095
3.92E-20	9.48E-18	151.304153	89.31739	52.431561	222.425018	174.838623
2.04E-15	2.88E-13	8.99523	4.552646	3.67674	14.608782	8.487671
0.00021896	0.00617467	0.336491	0.29903	0.297547	0.229634	0.123805
1.21E-14	1.60E-12	16.60783	6.831306	4.600791	24.930918	12.90118
1.29E-19	3.06E-17	77.535149	26.290508	24.660686	127.530716	60.057846
1.01E-05	0.00038877	20.971041	5.388532	4.899027	29.391544	10.53955
1.42E-09	1.04E-07	48.284447	9.329535	7.437419	67.297264	15.316224
8.94E-09	5.88E-07	12.51013	5.209164	3.799688	18.011292	11.006105
0.00021902	0.00617467	6.774172	1.638329	1.790239	9.765487	2.979125
3.86E-05	0.00130701	12.149497	7.185487	4.726742	18.830154	11.74895
0.00014055	0.00421788	4.275541	1.901688	1.321933	6.337464	2.935985
3.90E-06	0.00016674	7.614744	3.659859	1.454729	11.117521	8.378711
3.18E-16	4.76E-14	91.14357	31.605516	22.99716	123.572319	68.989799
7.48E-08	4.33E-06	41.311741	9.636903	6.309594	51.943962	19.398214
9.64E-06	0.00037281	18.899492	7.657016	3.725344	25.012094	15.175695
8.17E-26	2.94E-23	216.504135	77.031616	41.841976	333.668732	153.109833
2.43E-10	1.96E-08	18.79352	5.437599	4.97648	26.731499	11.454741
1.81E-05	0.00065194	31.93519	12.931266	9.284376	41.034943	30.740482
4.31E-11	3.82E-09	64.149437	15.173704	14.912354	85.455444	29.571712
1.41E-18	2.90E-16	70.304672	33.689899	22.978197	111.528229	73.382629
3.98E-21	1.07E-18	178.903305	60.47916	39.791859	257.32666	117.391777
9.50E-06	0.00036985	14.709205	6.131066	4.954672	21.181572	13.800945
6.14E-12	6.08E-10	50.83004	13.802114	9.646425	64.273895	25.42766

3.32E-29	1.55E-26	55.789639	23.88365	23.08536	84.555374	46.23917
9.87E-07	4.75E-05	9.681375	3.287649	2.230871	13.971775	7.117059
2.25E-16	3.44E-14	121.270462	53.187828	30.693338	166.028137	110.089012
6.52E-06	0.00026288	9.985525	4.565906	3.548606	17.189949	7.559716
1.62E-13	1.90E-11	43.759377	18.033482	9.030425	63.016708	35.176205
2.56E-15	3.49E-13	133.090057	41.728886	27.059326	197.937637	84.538307
1.08E-06	5.10E-05	22.088285	8.123282	7.441358	30.923943	17.583204
1.46E-28	6.57E-26	246.748505	90.473259	81.019737	384.291382	169.864471
0.00251996	0.05165614	13.8064	11.29898	4.616477	32.400188	20.021887
3.30E-08	2.00E-06	23.226168	7.643572	6.55461	32.634655	13.661375
0.00066802	0.01660026	110.858696	63.859177	30.966427	137.081299	143.149139
4.46E-07	2.29E-05	19.186953	7.165602	4.124245	27.382801	14.04714
5.19E-07	2.62E-05	8.827583	3.539443	2.780261	13.122032	8.393767
0.00284205	0.05736096	43.245079	10.015987	8.631713	53.312904	18.745327
0.00088727	0.02116985	6.18553	2.37472	0.959068	8.689301	4.765977
0.0016337	0.03610216	4.481355	1.231137	0.738405	6.12592	2.600563
8.39E-14	1.01E-11	38.699844	15.518389	11.514657	58.796989	35.499237
0.00153168	0.03414779	225.363235	162.402679	76.113068	314.934814	390.9198
0.00554689	0.09768432	1.996054	1.409163	1.350673	2.902446	3.41682
1.53E-21	4.19E-19	67.870674	20.454802	18.162981	113.398117	35.179161
0.00223348	0.04667965	3.944456	1.288601	1.205901	5.033942	2.805555
9.24E-16	1.37E-13	87.619392	24.39362	22.802364	120.5765	50.076492
0.00058559	0.01481525	2.422613	0.420394	1.308666	2.838339	0.294268
2.18E-09	1.56E-07	19.628445	7.102066	5.660507	26.864269	16.988617
0.00369202	0.07142074	47.474678	13.594814	9.549574	49.034573	14.395767
1.25E-23	4.14E-21	147.33728	48.428051	32.99844	216.347168	93.475311
1.05E-05	0.00040279	5.728992	2.248572	1.56718	8.90016	3.913258
1.81E-07	9.96E-06	23.363142	29.799715	21.225288	62.513699	44.667774
6.55E-06	0.00026293	8.806574	3.221042	2.210446	12.491999	6.543892
9.62E-06	0.00037281	5.565951	1.917712	1.959378	9.969328	3.744089
5.69E-06	0.00023371	5.835539	1.118269	0.825152	7.434	2.082036
7.18E-09	4.88E-07	14.797611	4.616798	3.22646	25.217459	10.648892
2.43E-12	2.51E-10	19.091564	7.461126	6.054692	37.526585	15.90179
1.82E-11	1.69E-09	23.886539	9.596879	5.235094	35.60989	17.044094
5.36E-07	2.70E-05	250.270706	83.794807	53.38913	394.037811	148.886765
3.77E-08	2.27E-06	23.141352	7.75771	4.368424	30.133327	17.303747
4.68E-18	8.54E-16	28.894283	11.844912	6.799821	44.208176	22.73978
1.48E-08	9.31E-07	475.13916	224.354538	168.1548	737.497009	465.729095
8.20E-17	1.29E-14	82.209503	30.271425	22.55015	118.198067	66.420517
4.21E-12	4.27E-10	44.827751	8.803934	12.32225	70.466354	34.642502
2.36E-15	3.30E-13	23.556604	10.009254	6.222497	33.997993	22.220158

8.93E-06	0.00035102	16.963837	4.809845	2.868045	25.895123	11.637812
4.05E-27	1.59E-24	94.438553	52.820251	27.081106	152.200027	104.1689
0.00029283	0.0080569	25.231352	8.139767	5.679873	33.739079	18.684788
2.26E-33	1.29E-30	1037.36816	557.735352	276.675812	1636.00085	1191.12195
2.83E-08	1.74E-06	28.840424	22.360991	15.221982	35.928413	56.074181
6.98E-12	6.85E-10	6.332758	2.731463	1.875613	10.139509	6.601178
1.63E-06	7.51E-05	578.934631	211.615616	126.868484	827.480835	468.580597
0.0008642	0.0207772	10.287397	2.658639	2.129616	16.422543	5.363435
1.41E-22	4.04E-20	59.318481	14.647847	12.341655	92.388931	28.80657
0.00157697	0.03503326	3.1583	1.303973	1.532018	5.967717	2.447011
0.00015772	0.00466616	333.561401	155.269135	107.695076	538.830078	320.594055
0.00046331	0.01206147	159.202545	100.64299	36.787495	206.181793	246.83725
7.92E-07	3.89E-05	789.693359	357.069916	178.535721	1149.1272	801.029297
7.30E-12	7.06E-10	14.288434	6.995771	3.110993	27.36458	10.470715
1.99E-19	4.54E-17	28.862015	10.216876	6.223333	45.356834	21.587555
1.46E-12	1.57E-10	24.071253	9.515294	5.114108	38.539906	23.261339
4.18E-30	2.10E-27	878.355103	409.1539	245.415619	1411.9032	878.549622
1.28E-15	1.87E-13	58.038536	20.841223	12.052162	90.259979	41.361275
0.00019925	0.00573322	3.45224	1.066804	0.644741	5.650465	1.714418
4.74E-13	5.42E-11	20.277777	9.302938	6.904214	29.20583	22.495434
1.20E-07	6.76E-06	34.365566	10.237915	6.002013	45.078918	24.411791
0.00148147	0.03314579	308.944	59.021877	43.213753	384.230164	123.714157
6.59E-11	5.67E-09	15.228608	6.372143	3.802707	25.982603	14.151412
1.20E-06	5.59E-05	5.145543	3.806874	3.65603	7.975471	8.575271
1.55E-23	4.99E-21	56.811584	21.883205	9.364508	102.68766	44.822681
3.96E-07	2.06E-05	110.330101	41.406796	24.71142	158.703995	44.837486
1.51E-05	0.00055273	6.753568	3.112998	2.248956	8.253141	8.762053
5.37E-10	4.20E-08	30.834978	9.57822	5.978577	56.054092	16.633289
6.22E-14	7.66E-12	28.935076	11.206729	4.915033	48.502621	23.18561
1.19E-11	1.14E-09	14.367599	4.698394	3.800149	23.638435	10.636757
8.30E-05	0.0026082	60.837791	10.742002	9.656898	85.008522	25.172205
1.56E-09	1.13E-07	1234.70483	479.976135	261.333984	1917.6604	1091.69885
6.65E-05	0.00213218	112.120827	62.892742	38.245754	198.897034	96.83979
2.72E-27	1.13E-24	67.566566	30.647545	17.39551	110.892227	67.79705
2.57E-20	6.34E-18	97.321335	41.168095	21.928461	158.983047	102.750099
0.00524574	0.09382627	12.828161	7.40486	2.183812	15.20546	20.688988
5.03E-22	1.41E-19	81.446297	35.609177	18.827063	140.354645	75.999001
1.83E-39	1.28E-36	1494.63525	613.920898	351.681519	2517.40601	1372.86939
1.18E-07	6.70E-06	3.452416	1.548444	1.000721	4.35817	4.461575
0.00106075	0.02488406	144.196304	50.621078	30.194283	204.571381	106.534729
1.38E-05	0.00051357	4463.13525	1202.22168	768.255493	6405.69092	2793.67407

1.05E-18	2.20E-16	16.06492	4.256788	3.845244	30.610537	11.993258
0.00462854	0.0853362	1.593488	0.375036	0.345543	2.56699	1.219875
2.82E-06	0.00012294	116.775551	34.04575	20.270189	184.086853	69.993736
6.03E-54	6.90E-51	194.517288	121.933998	58.848019	351.456238	268.824768
6.04E-06	0.0002459	4.441146	1.254501	0.460454	9.39726	2.683526
4.09E-17	6.87E-15	26.837872	7.348808	3.594638	44.595646	16.815805
2.48E-16	3.75E-14	51.80595	22.223835	11.139117	88.442917	45.054161
4.71E-50	4.56E-47	47.588173	24.680218	14.311269	105.981476	48.51202
3.98E-05	0.0013446	4.319515	1.490496	0.716235	5.93342	3.956877
5.13E-10	4.04E-08	18.625542	9.004163	5.327823	31.694809	19.350811
1.72E-05	0.00062522	8.952232	2.150342	1.264912	13.239832	4.927582
5.63E-34	3.37E-31	264.177124	73.610016	60.347095	468.238373	161.782867
5.32E-08	3.17E-06	11.256489	4.298657	2.675735	19.830095	9.2094
4.25E-05	0.00142898	5.585059	2.805456	1.444642	8.484586	4.285477
1.40E-27	6.07E-25	77.644279	34.619976	17.959578	129.174316	74.894539
1.07E-09	8.19E-08	5.093842	1.244462	1.078129	7.887364	3.416632
6.67E-06	0.00026694	5.274495	5.450318	3.812745	8.409285	15.606937
1.47E-26	5.43E-24	60.494682	27.320465	15.518476	109.963547	71.640991
0.00481625	0.08776746	263.351654	71.633301	45.10833	337.700958	162.82106
5.10E-21	1.34E-18	85.01783	24.629259	18.258324	147.597244	55.238159
0.00107711	0.025095	93.86824	18.327665	14.976843	125.832428	41.556465
0.0004628	0.01206147	2.25346	0.626852	0.481519	2.973275	1.646724
0.00308736	0.06171384	1.082012	0.164078	0.278081	2.301674	0.630954
7.55E-05	0.00240298	100.718216	27.225853	17.90748	144.087097	69.493683
3.08E-23	9.69E-21	57.217495	18.448046	9.700608	96.885826	40.02121
1.01E-08	6.52E-07	6333.93408	1683.53479	1133.87415	9258.75	3759.98926
3.21E-11	2.90E-09	15.256292	2.705828	2.795832	24.35659	6.979516
6.85E-17	1.09E-14	38.392742	21.171547	17.888145	83.396378	44.300236
4.91E-11	4.31E-09	14.545247	4.210836	2.750876	26.823109	9.300088
1.63E-10	1.34E-08	8.193779	2.230846	2.026899	14.632581	5.712468
1.16E-63	1.82E-60	58.557133	14.439253	35.525482	121.351692	32.339172
2.22E-05	0.00078879	80.990234	24.233906	15.605728	124.50148	66.12606
1.74E-39	1.28E-36	57.653587	28.093201	12.700623	116.968407	63.021389
4.32E-10	3.44E-08	16.499331	7.679677	5.906085	29.391342	16.226679
0.0039928	0.07584265	1.772248	0.442085	0.448718	2.687351	1.457184
3.40E-19	7.51E-17	41.974617	11.485475	8.544972	66.307091	31.637207
0.00139008	0.03143675	1.158234	0.745427	0.827614	3.321393	1.791986
1.17E-16	1.82E-14	27.052862	5.880829	3.829768	44.580585	15.656446
0.00192639	0.04133518	7.348583	0.628473	1.915938	15.025832	0.65932
2.83E-10	2.27E-08	373.134399	103.627464	65.478615	671.282166	251.792099
5.52E-23	1.65E-20	23.97403	11.680884	5.552815	49.826672	27.48831

1.12E-09	8.48E-08	4.386229	2.646725	1.204233	9.864911	5.641034
2.09E-05	0.00074409	84.89949	21.626585	12.516848	136.193573	55.56282
1.69E-13	1.97E-11	141.887329	77.56147	34.123291	231.307144	190.45993
0.00051474	0.01318203	231.969559	45.204597	31.617828	339.913879	111.167183
0.00159161	0.03529604	5.539567	0.724708	0.558163	8.030198	2.402089
7.05E-63	9.85E-60	632.7854	204.671448	126.098549	1353.82739	481.143097
0.00020089	0.00576704	1150.3064	201.338257	117.179573	1752.20117	537.642761
1.39E-74	3.50E-71	208.09256	71.804993	41.910488	483.024902	165.547073
0.00379174	0.07267881	152.465561	27.049606	14.328449	216.703415	66.22435
1.22E-08	7.79E-07	71.70253	21.384092	15.338169	133.248154	56.212582
0.0029833	0.05982768	2.581936	0.9755	0.268764	4.699766	3.245557
0.00079389	0.01927106	87.948013	7.365309	15.109151	122.014343	24.789974
3.20E-09	2.24E-07	137.166153	33.240993	21.804712	259.805237	93.620018
8.09E-09	5.38E-07	16.26932	3.886619	1.774135	27.380312	12.672356
0.0002205	0.00620268	2.744256	0.909967	0.317816	5.242198	3.047606
0.00236492	0.04882834	45.818836	6.352522	4.920615	70.915802	19.158585
0.00074272	0.01824023	0.503217	0.468369	0.147647	0.425473	3.894566
7.20E-07	3.57E-05	0	0	0	0.763887	0
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2.116407	BTN
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5.120349

EPIDERMAL MARKER (>2fold in epidermal cells in Sharr PALPS top 100 genes (Horie et al. 2018)

EPI

EPI

EPI

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PALPS

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