

Supplementary Table 1. SNP replication across cohorts included in Adkins et al., 2015. The cohort Development (VTSABD); the Christchurch Health and Development Study (CHDS); and the Great report p-values for combined t-statistics; columns beginning with "fish_" represents p-values con

SNP	CHR	A1	FREQ	BETA	P	Combin VTSABD
rs10035899	5	A	0.6328	-0.0523	0.0009435	0.93179548
rs10039368	5	T	0.9577	-0.1395	0.0002495	0.24173825
rs10043528	5	G	0.326	-0.0541	0.0009093	0.05015194
rs10057613	5	G	0.5834	0.0615	6.56E-05	0.09176812
rs10057784	5	A	0.8601	0.0852	0.0001064	0.59054354
rs1006173	4	G	0.8848	-0.0893	0.0002394	0.76856269
rs1007126	20	A	0.5445	0.0532	0.0004902	0.56231376
rs1007631	16	A	0.45	0.0535	0.0003798	0.26827148
rs10097659	8	G	0.6786	0.0547	0.0007839	0.22659729
rs1009859	1	G	0.6418	-0.0585	0.0005086	0.58839808
rs10118416	9	G	0.7348	0.059	0.0008752	0.96123328
rs10132666	14	G	0.9132	-0.0894	0.0008875	0.94522071
rs10135315	14	C	0.846	-0.0811	0.0001325	0.42554067
rs1014628	16	G	0.3739	0.0535	0.0007751	0.16360068
rs10153352	18	C	0.5136	0.057	0.0002419	0.42492416
rs10158645	1	G	0.1493	0.0722	0.0006883	0.03844884
rs10176121	2	C	0.4703	0.0598	8.99E-05	0.35835638
rs10178320	2	T	0.2588	-0.0684	9.33E-05	0.65850385
rs10182407	2	T	0.5866	-0.0594	0.0002402	0.09473078
rs10194124	2	G	0.2582	-0.0685	9.04E-05	0.64257637
rs10199504	2	A	0.4695	0.0607	6.96E-05	0.36202588
rs10211389	2	G	0.7164	0.0617	0.0002365	0.92361743
rs1021598	18	A	0.7016	-0.0741	1.10E-05	0.29377034
rs1021599	18	G	0.7016	-0.0741	1.10E-05	0.29453275
rs10233081	7	A	0.6507	-0.0564	0.0004202	0.96075796
rs10242	10	T	0.97	0.1556	0.0004017	0.37579831
rs1025299	5	G	0.9702	-0.1629	0.0002636	0.34363543
rs10253843	7	C	0.2407	-0.0601	0.0006434	0.67684414
rs10259821	7	G	0.6507	-0.0566	0.0004001	0.96027508
rs10269209	7	C	0.6828	-0.0614	0.0005877	0.25126129
rs10269243	7	A	0.2404	-0.0598	0.0006867	0.72909817
rs10273051	7	T	0.9555	-0.1335	0.000808	0.75442126
rs10282411	7	C	0.4353	0.0524	0.0005634	0.69850283
rs1029236	3	T	0.5784	0.0545	0.0004365	0.16942789
rs1029652	19	T	0.308	-0.0582	0.0003855	0.34558319
rs1029845	19	C	0.2962	0.0633	0.0001274	0.32383429

rs1029931	12 T	0.7296	0.0574	0.0008234	0.99090161
rs1035149	7 G	0.6185	0.0523	0.0007698	0.05095447
rs1037272	13 G	0.8392	-0.0751	0.0002508	0.54477614
rs1038980	1 A	0.717	-0.066	9.00E-05	0.66411822
rs10405032	19 A	0.9284	-0.1074	0.0002337	0.42118098
rs1041158	10 A	0.0868	-0.0971	0.0003133	0.19764213
rs1042122	19 T	0.8448	0.0705	0.0006215	0.8541754
rs10423897	19 T	0.6558	-0.0607	0.0001904	0.02417568
rs1044167	19 C	0.6951	0.0615	0.0001794	0.97871087
rs10444056	10 T	0.8931	-0.0842	0.0005736	0.80616115
rs10464078	5 A	0.5897	0.0512	0.0009287	0.59468186
rs10488407	7 G	0.854	0.075	0.0004237	0.58000312
rs10490375	2 A	0.4964	0.0609	9.59E-05	0.2699985
rs10492044	12 T	0.7785	-0.0662	0.0003321	0.43351822
rs10492690	13 C	0.7744	-0.0608	0.0008317	0.79509437
rs10492692	13 G	0.7744	-0.0608	0.0008288	0.78602174
rs10496922	2 A	0.8871	0.0778	0.0008761	0.74780665
rs10497627	2 C	0.5209	-0.0542	0.0004228	0.71845114
rs10497771	2 C	0.841	0.0692	0.0009394	0.61189153
rs10505665	8 G	0.877	0.0838	0.0009577	0.1341174
rs10508003	13 A	0.7544	0.0593	0.0007098	0.35515108
rs10515165	5 A	0.4791	0.0493	0.0009639	0.09701085
rs10517576	4 T	0.9762	-0.1827	0.000931	0.59594365
rs10518089	4 G	0.7783	0.0636	0.0006114	0.65414313
rs10519552	15 G	0.8056	-0.0665	0.0005097	0.35785326
rs10519634	15 T	0.3869	0.0523	0.0007135	0.3507139
rs10519635	15 C	0.3868	0.0523	0.0007182	0.35928764
rs1054657	10 C	0.9666	0.1513	0.0002865	0.44158083
rs1058010	14 A	0.9254	-0.1061	0.0002732	0.6949655
rs10740814	10 C	0.3627	-0.0542	0.0006987	0.86769726
rs10743980	12 T	0.4311	0.0502	0.0009109	0.77852697
rs10745796	12 A	0.9519	0.1283	0.0002803	0.26129159
rs10755174	4 C	0.7786	0.0639	0.0005411	0.65218611
rs10756981	9 G	0.3207	0.0589	0.0003123	0.70707953
rs10763807	10 A	0.8608	0.0752	0.0006738	0.18391644
rs10766073	11 G	0.7231	-0.0598	0.0004798	0.05817682
rs10810995	9 T	0.353	0.0564	0.0003802	0.26860409
rs10815018	9 A	0.6598	0.0534	0.0008297	0.08748124
rs10825356	10 G	0.5059	0.0521	0.0005692	0.60937775
rs10828121	10 C	0.9145	0.0907	0.0007125	0.00902627
rs10832021	11 G	0.2886	0.0563	0.0008723	0.0877464

rs10866605	5 C	0.3473	-0.057	0.000367	0.19254579
rs10876135	12 A	0.0361	-0.1515	0.0002349	0.07904776
rs10886462	10 A	0.7096	0.0547	0.0008917	0.23302967
rs10906829	10 C	0.9679	0.1529	0.0003283	0.36129513
rs10915584	1 G	0.4694	-0.0541	0.0003723	0.04792345
rs10915587	1 C	0.4151	-0.053	0.0005687	0.12269073
rs10918127	1 C	0.3809	0.0558	0.0003388	0.34769086
rs10935302	3 A	0.6847	-0.0552	0.0006737	0.29456987
rs10935303	3 T	0.6842	-0.0542	0.0008264	0.29256306
rs10935304	3 C	0.6847	-0.055	0.0007062	0.2907808
rs10935306	3 C	0.6888	-0.0541	0.0009634	0.30111037
rs10936027	3 T	0.8827	-0.0898	0.0001683	0.08085181
rs10946219	6 G	0.6656	-0.0543	0.0008881	0.20908784
rs10950900	7 G	0.9146	0.0908	0.0009621	0.5057645
rs10951240	7 A	0.6168	0.0527	0.0007112	0.04866593
rs10952333	7 T	0.6812	0.0697	1.83E-05	0.30019201
rs1098938	2 T	0.256	-0.0649	0.0002124	0.58930542
rs11021024	11 A	0.453	-0.056	0.0002433	0.29862303
rs11022765	11 C	0.7485	-0.059	0.0008396	0.05923837
rs11023437	11 A	0.4748	-0.0533	0.0008748	0.28219988
rs11054799	12 C	0.7428	-0.0666	0.0009442	0.60972328
rs1105721	11 G	0.6483	0.0773	2.28E-06	0.52456754
rs11068156	12 A	0.7502	0.0642	0.0002557	0.52123391
rs11068157	12 T	0.7674	0.0689	0.0001334	0.39449198
rs11083030	18 G	0.4072	-0.0614	6.35E-05	0.42381094
rs11090351	22 G	0.8981	0.1086	1.42E-05	0.64229648
rs11096738	4 T	0.9036	0.0863	0.0007431	0.14178193
rs11124253	2 A	0.3099	0.0586	0.000351	0.56342557
rs11124785	2 A	0.466	0.0614	5.90E-05	0.38572156
rs11133035	4 T	0.5454	0.0547	0.0004436	0.4482132
rs11158240	14 G	0.9128	-0.0935	0.000522	0.94062726
rs11169696	12 A	0.036	-0.1533	0.0002093	0.08830552
rs11169949	12 T	0.761	-0.0594	0.0009199	0.16778068
rs11175454	12 C	0.8445	0.0752	0.0002441	0.72946058
rs11194219	10 G	0.6237	-0.0522	0.0009622	0.37137068
rs11210289	1 T	0.1783	0.069	0.0005171	0.73579269
rs11216493	11 C	0.8775	-0.0903	0.0002358	0.83030389
rs11222498	11 A	0.6064	0.0541	0.0005494	0.95127571
rs11222509	11 T	0.6146	0.0606	9.86E-05	0.99150944
rs11231741	11 C	0.692	0.0557	0.0007669	0.94222684
rs11241219	5 T	0.9522	-0.1342	0.0001649	0.57251125

rs11244489	10 A	0.9042	-0.0888	0.0005509	0.73652351
rs11244498	10 G	0.9141	-0.1031	0.0001245	0.35044913
rs11244501	10 T	0.9141	-0.1031	0.0001248	0.34975333
rs1124611	16 A	0.2808	0.0736	1.09E-05	0.61564463
rs11249609	5 G	0.7032	0.0578	0.0005967	0.52730785
rs11251508	10 C	0.5698	-0.0522	0.0005969	0.36103807
rs11251509	10 A	0.5697	-0.0523	0.0005768	0.39757154
rs1125317	18 A	0.748	-0.0694	9.04E-05	0.25836131
rs11255686	10 A	0.5318	0.0543	0.0005202	0.76119435
rs11259519	10 A	0.9697	0.1985	7.79E-06	0.40150255
rs11259520	10 T	0.9679	0.1813	1.92E-05	0.76518473
rs11259527	10 G	0.9547	0.1318	0.0003142	0.52557193
rs1126047	16 G	0.4525	0.0541	0.000319	0.96911019
rs11526191	7 C	0.9231	-0.0952	0.0007687	0.38214834
rs11573185	1 C	0.4595	-0.0497	0.0009939	0.66252257
rs11573219	1 T	0.5848	-0.0512	0.0008796	0.07113987
rs11573222	1 G	0.584	-0.0512	0.000907	0.06143404
rs11573272	1 A	0.6007	-0.0533	0.0006312	0.14581238
rs11577582	1 C	0.8109	0.066	0.0005357	0.6183551
rs11588708	1 T	0.8041	0.0667	0.0005481	0.63217832
rs11596696	10 T	0.7103	-0.0557	0.0009583	0.38915377
rs11598010	10 A	0.9688	-0.1474	0.0007196	0.32693345
rs11603601	11 C	0.7197	0.0603	0.0008503	0.27740278
rs11613965	12 C	0.7801	-0.0673	0.0002692	0.39146493
rs11614019	12 C	0.7629	-0.0644	0.0003538	0.66983913
rs11614284	12 T	0.9661	0.1911	0.0004405	0.65438574
rs11615787	12 C	0.7102	0.0633	0.0002014	0.13053863
rs11618409	13 T	0.4692	0.0586	0.0001191	0.17488607
rs11618423	13 C	0.4718	0.0582	0.0001363	0.17888525
rs11632435	15 A	0.9021	-0.1099	1.87E-05	0.04538855
rs11636117	15 C	0.9647	-0.1368	0.0009386	0.69598326
rs11651653	17 A	0.9075	0.0937	0.0002921	0.69030108
rs11667696	19 T	0.8556	-0.0726	0.0008396	0.69389494
rs11685553	2 C	0.6896	-0.0586	0.0003175	0.43783634
rs11690118	2 C	0.6467	0.0564	0.0004613	0.63361465
rs11693848	2 T	0.7336	-0.0605	0.0008721	0.88811358
rs11698323	20 T	0.9663	-0.1488	0.0004351	0.00426605
rs1170189	13 G	0.826	-0.0695	0.0005218	0.89357749
rs1170192	13 T	0.8265	-0.0697	0.0005352	0.97819278
rs1170194	13 G	0.8265	-0.0697	0.0005352	0.97819278
rs11715636	3 G	0.8933	-0.0832	0.0009975	0.58839101

rs11762979	7 C	0.5773	0.0542	0.0006384	0.66881359
rs11765089	7 C	0.7137	0.0661	0.0001723	0.30617545
rs11771330	7 C	0.5689	-0.0516	0.0007889	0.17028287
rs11790910	9 A	0.9123	0.089	0.0008503	0.333625
rs11803213	1 A	0.9345	-0.11	0.000365	0.71680405
rs11803905	1 C	0.7307	-0.0621	0.0003278	0.65149084
rs11821811	11 C	0.7764	0.0666	0.000533	0.63167134
rs11838143	12 C	0.7744	-0.0641	0.0004557	0.40638781
rs11841247	13 G	0.8408	-0.0719	0.0004649	0.64975702
rs11844740	14 T	0.429	0.0543	0.000431	0.39320009
rs11846935	14 T	0.9635	-0.135	0.0008297	0.51093527
rs11871549	17 C	0.1825	-0.0727	0.0007866	0.20239525
rs11880656	19 G	0.8432	0.0782	0.0003321	0.82404456
rs11886857	2 A	0.5003	0.0605	7.50E-05	0.30335805
rs11891511	2 T	0.803	-0.063	0.0008539	0.89413659
rs11896276	2 T	0.5017	0.0609	7.26E-05	0.29137805
rs11897863	2 G	0.5002	0.0604	7.81E-05	0.29578284
rs11915859	3 T	0.6847	-0.055	0.0007083	0.28936273
rs11925186	3 A	0.6861	-0.0535	0.0009804	0.2660104
rs11946728	4 G	0.5463	0.0549	0.0004121	0.4470715
rs11960198	5 A	0.2737	-0.0569	0.0009437	0.27132674
rs11968507	6 C	0.8419	0.0719	0.0004575	0.03962027
rs11979077	7 A	0.7622	-0.0599	0.00075	0.17638829
rs12055028	5 G	0.6876	0.0629	0.0001547	0.29166416
rs12128914	1 C	0.7786	0.0621	0.00083	0.17437038
rs12131363	1 C	0.8218	-0.0798	0.0008546	0.92846893
rs12149164	16 G	0.799	0.0768	5.66E-05	0.40549973
rs12150218	17 G	0.6758	0.0564	0.0005301	0.13840873
rs1220565	13 T	0.561	-0.0533	0.0005687	0.46409931
rs12206518	6 T	0.5988	0.0669	1.19E-05	0.98971808
rs12206583	6 T	0.5985	0.0671	1.13E-05	0.99146235
rs12216318	6 C	0.6516	0.0665	2.95E-05	0.5425102
rs12228865	12 C	0.9608	0.1329	0.0006687	0.21744164
rs12313137	12 G	0.8744	0.0763	0.0009049	0.99820583
rs12328227	2 A	0.8869	0.0783	0.0007933	0.81191482
rs12333620	7 G	0.7786	-0.0608	0.0008902	0.93862156
rs1233651	17 C	0.1948	0.0631	0.0009905	0.83252703
rs12344339	9 T	0.6215	0.0578	0.0008368	0.69273252
rs12351138	9 T	0.9589	-0.1352	0.0004202	0.64846647
rs12405479	1 G	0.9503	-0.1225	0.0004503	0.37517506
rs12405585	1 C	0.872	-0.0764	0.0007552	0.49611002

rs12415813	10 T	0.4779	0.0544	0.0002763	0.43520024
rs12417042	11 C	0.7411	-0.0592	0.0006416	0.88140185
rs12431160	13 A	0.8339	0.0664	0.0009487	0.25873747
rs12440187	15 G	0.9709	-0.1832	0.0002479	0.60684237
rs12450893	17 A	0.6743	0.0559	0.0005935	0.14428933
rs12462846	19 A	0.9257	-0.111	0.0001392	0.28107673
rs12472523	2 C	0.6348	-0.0554	0.0004682	0.22467272
rs12481235	20 C	0.6816	0.0635	9.22E-05	0.49116169
rs12491264	3 T	0.6606	-0.0537	0.0007927	0.25507559
rs12501403	4 G	0.4804	0.0514	0.0007142	0.40833119
rs12536073	7 G	0.7878	0.0681	0.000372	0.10369042
rs12585317	13 C	0.8284	0.0803	5.54E-05	0.56566216
rs12587122	14 A	0.255	0.0691	6.01E-05	0.66135727
rs12618138	2 T	0.9698	-0.1464	0.000941	0.24728122
rs12618194	2 T	0.9698	-0.1464	0.0009413	0.25307752
rs12623821	2 C	0.8932	-0.0918	0.0001791	0.86614186
rs12624511	20 G	0.8629	-0.0876	7.35E-05	0.14599953
rs12632107	3 G	0.6837	-0.0548	0.0007213	0.29956411
rs12635525	3 A	0.5937	0.0564	0.0002165	0.82299677
rs12636763	3 A	0.7317	0.059	0.0006016	0.46762509
rs12649726	4 C	0.8945	-0.0891	0.0002519	0.08455054
rs12669558	7 T	0.7926	-0.0669	0.0003553	0.21942926
rs12670199	7 T	0.9252	-0.0978	0.0007367	0.63355363
rs12683683	9 A	0.7015	-0.058	0.0004798	0.24703277
rs12691654	2 G	0.5164	-0.0613	5.99E-05	0.34096389
rs12696657	3 C	0.6037	0.0602	0.0001205	0.99512235
rs12704037	7 C	0.7108	0.0556	0.0009936	0.92722503
rs12706812	7 A	0.3204	0.0655	6.49E-05	0.50103155
rs12714541	3 A	0.3581	0.0567	0.0003874	0.22877842
rs12735197	1 C	0.6757	-0.0545	0.000851	0.26735832
rs12827588	12 T	0.9484	-0.121	0.0003998	0.20127932
rs12830084	12 G	0.8345	-0.0814	5.72E-05	0.79539122
rs12831873	12 G	0.9478	-0.1229	0.0003258	0.2062031
rs12855239	13 T	0.7547	0.0577	0.0009752	0.36333033
rs12901270	15 A	0.7172	0.0624	0.0007283	0.36156887
rs12906402	15 A	0.4768	0.0626	0.0005212	0.73909973
rs12911875	15 A	0.6037	0.0511	0.0009665	0.59706335
rs12912234	15 T	0.2049	0.0747	5.98E-05	0.49755695
rs12913150	15 C	0.6627	-0.0614	0.0003439	0.86532216
rs12936336	17 G	0.9361	-0.1222	8.87E-05	0.96800446
rs12936822	17 A	0.9358	-0.1245	8.48E-05	0.99331187

rs12943652	17 G	0.6727	0.0577	0.000364	0.14670456
rs12949992	17 G	0.9368	-0.1263	4.97E-05	0.96964736
rs1295085	1 A	0.3695	0.0679	1.11E-05	0.35521236
rs12964478	18 C	0.7298	-0.0575	0.0009116	0.23693971
rs12978999	19 C	0.7502	0.0659	0.0001896	0.16733793
rs12980435	19 G	0.7959	-0.0698	0.0002614	0.02463026
rs12986266	19 T	0.8274	0.0801	0.0001426	0.86466149
rs12987477	2 T	0.4555	-0.0528	0.0004844	0.22755811
rs12995040	2 C	0.6738	0.056	0.0005201	0.68306524
rs13008814	2 G	0.9006	0.0997	0.0001143	0.60593554
rs13018232	2 G	0.6735	0.0564	0.000477	0.68881624
rs13022034	2 C	0.7603	-0.0642	0.0005476	0.58606477
rs13028776	2 T	0.4865	-0.0567	0.0002455	0.1888714
rs13033768	2 A	0.1828	-0.0673	0.0006342	0.72324743
rs13064628	3 C	0.8688	-0.0743	0.0008279	0.11316307
rs13068206	3 G	0.5083	0.0511	0.0006682	0.46408563
rs13073054	3 G	0.1999	0.0679	0.0003372	0.04494927
rs13073658	3 G	0.9117	-0.0919	0.0005741	0.35254251
rs13074860	3 T	0.5541	-0.0547	0.0004462	0.01075283
rs13084370	3 G	0.6207	0.0536	0.0006788	0.0453115
rs13091440	3 G	0.9115	-0.0924	0.0005199	0.36384695
rs13101018	3 T	0.6847	-0.0552	0.0006765	0.2946502
rs131100	22 T	0.8728	-0.0757	0.0008249	0.63237093
rs13140884	4 C	0.9036	0.0863	0.0007422	0.16381821
rs13164333	5 G	0.9606	-0.1424	0.0003488	0.15879571
rs1324065	13 T	0.3842	-0.0531	0.0007734	0.84599079
rs13289572	9 C	0.8606	0.0763	0.0009695	0.4808682
rs1331726	13 T	0.3664	-0.0541	0.000518	0.32331543
rs13322529	3 A	0.7151	-0.0588	0.0004889	0.2784401
rs13323477	3 C	0.9015	0.0898	0.0004591	0.79469
rs1333472	13 A	0.8036	0.0717	0.0001816	0.81216332
rs13378699	13 T	0.7744	-0.0608	0.0008317	0.77152958
rs1338551	6 C	0.4331	-0.0601	8.11E-05	0.02960056
rs13393937	2 C	0.8744	0.0776	0.0007083	0.54377693
rs1342049	1 C	0.9878	0.234	0.0007626	NA
rs13421232	2 C	0.5581	0.0521	0.000702	0.28038123
rs13438187	7 G	0.6915	0.0642	0.0005054	0.10751809
rs1350604	10 T	0.8785	-0.0885	0.0001492	0.71470473
rs1350606	10 G	0.88	-0.0868	0.0001946	0.73560248
rs1351036	3 T	0.3672	0.0545	0.0006508	0.18425841
rs1351039	3 C	0.3581	0.0569	0.0003727	0.22597782

rs1361152	10 G	0.5318	0.0541	0.00054	0.72644498
rs1361946	7 T	0.3212	0.0631	0.0001202	0.50219638
rs1366840	2 C	0.4584	-0.0528	0.0005174	0.69638643
rs1369973	4 G	0.6182	-0.0521	0.0008954	0.6404162
rs1371060	5 C	0.5365	0.0585	0.000252	0.60495093
rs1372256	2 G	0.8058	-0.0743	0.0001341	0.84533647
rs1373967	5 G	0.3195	-0.0592	0.0003212	0.60084025
rs1374666	11 A	0.8321	-0.0695	0.0007432	0.32658065
rs1382066	3 C	0.4259	0.0545	0.0003905	0.42079232
rs1382069	3 T	0.3581	0.0567	0.0003874	0.22877842
rs1390890	5 G	0.7086	0.0583	0.0005316	0.55483563
rs1391451	18 T	0.4705	-0.051	0.0008366	0.81974604
rs1392543	4 C	0.8856	-0.09	0.0002186	0.76929086
rs1392544	4 G	0.884	-0.0837	0.0004879	0.65322421
rs1396190	4 C	0.7015	-0.0614	0.0005686	0.44240506
rs1404988	5 T	0.1296	0.09	0.0005533	NA
rs1426723	18 G	0.5558	0.0641	2.92E-05	0.5561676
rs1430006	3 C	0.2518	0.0649	0.0003032	0.70976558
rs1435135	4 C	0.6052	-0.0513	0.000966	0.78986107
rs1438937	5 G	0.5525	0.0527	0.000613	0.1782119
rs1447200	2 A	0.4925	-0.0554	0.0002996	0.19597799
rs1448621	2 T	0.9243	0.1067	0.0002565	0.94550102
rs1449506	13 T	0.8399	-0.0739	0.0003263	0.55828565
rs1453774	2 T	0.4916	0.0514	0.0007007	0.80928024
rs1462947	4 G	0.6715	0.0643	6.40E-05	0.34129344
rs1463146	2 G	0.9236	0.1067	0.0002384	0.97280823
rs1469513	2 T	0.5696	0.0512	0.0009606	0.72749034
rs1475036	14 A	0.8077	-0.0649	0.0005931	0.48483747
rs1480898	4 G	0.8575	0.0721	0.0008243	0.5798199
rs1482531	18 T	0.3427	-0.059	0.0001864	0.94587815
rs1507055	18 T	0.4999	0.0543	0.0003953	0.23542122
rs1511036	18 T	0.7476	-0.0706	6.60E-05	0.25836878
rs1519812	8 A	0.635	-0.0549	0.0005162	0.58635256
rs1519813	8 C	0.6079	-0.0515	0.0008817	0.87588141
rs1520887	11 T	0.7595	0.0614	0.0006187	0.51755343
rs1523586	18 A	0.7476	-0.0707	6.53E-05	0.25215297
rs1523589	18 C	0.7744	-0.0624	0.000661	0.18956802
rs1528007	4 T	0.8976	-0.083	0.0008291	0.81265315
rs1537618	10 G	0.613	-0.0679	8.19E-05	0.39934947
rs1537832	6 C	0.543	-0.0548	0.0004505	0.69764273
rs1537833	6 G	0.5402	-0.0547	0.000393	0.70061272

rs1544454	7 G	0.7875	0.0657	0.0004472	0.12576919
rs1545474	19 A	0.6307	-0.0637	8.19E-05	0.04146022
rs154674	5 T	0.8938	-0.0808	0.0009889	0.03119246
rs1552089	4 A	0.8575	0.0721	0.0008324	0.53495982
rs1552846	17 T	0.2304	0.0685	0.0002825	0.90998358
rs155320	18 G	0.4781	0.0519	0.0006957	0.16127187
rs1553664	18 G	0.5852	0.0513	0.0007614	0.39734172
rs1555074	20 G	0.8627	-0.0833	0.0001555	0.24892912
rs1561451	2 A	0.2581	-0.0684	9.32E-05	0.65731111
rs1561572	1 G	0.1692	0.0676	0.0008544	0.50833758
rs1570881	13 G	0.6445	-0.0548	0.0005957	0.10981551
rs1572597	10 A	0.5844	0.0513	0.000913	0.80687405
rs1576458	13 A	0.6075	0.0544	0.0005752	0.22966155
rs1578642	1 C	0.3821	-0.0563	0.0002973	0.02820305
rs1584832	2 A	0.6897	-0.0593	0.0002703	0.45514826
rs1596518	12 C	0.3031	0.0588	0.0003345	0.52903406
rs1605085	3 T	0.5394	0.0523	0.0005772	0.95013654
rs1607267	2 C	0.8494	-0.0768	0.0003276	0.42262574
rs160862	7 C	0.4954	0.0532	0.0004927	0.05034757
rs1610062	19 G	0.3311	0.0578	0.000348	0.66555768
rs1616002	11 T	0.2789	-0.0604	0.0006139	0.01902715
rs1618603	18 T	0.6577	-0.0743	8.91E-06	0.92055739
rs162418	18 G	0.6607	-0.0693	3.30E-05	0.88431274
rs162419	18 A	0.6606	-0.0693	3.33E-05	0.89172333
rs1641215	7 C	0.6173	0.0524	0.0007459	0.05274244
rs1666568	15 G	0.2874	-0.0564	0.0007923	0.89257465
rs1666995	2 C	0.9362	0.1082	0.00059	0.78187211
rs1676089	18 A	0.8843	-0.0801	0.0006327	0.70824911
rs16823382	2 G	0.9755	-0.1784	0.0003458	NA
rs16835297	3 C	0.2006	0.0668	0.0004184	0.04410224
rs16839817	1 T	0.7129	-0.0607	0.0003336	0.87698781
rs16845084	3 T	0.8459	0.076	0.0002901	0.46419472
rs16845116	3 C	0.8492	0.0762	0.0003265	0.46888556
rs16863147	3 G	0.9474	0.1124	0.0009853	0.79735603
rs16873319	5 A	0.9827	-0.2075	0.0003143	NA
rs16903911	5 A	0.8568	0.0782	0.0003409	0.94481134
rs16916489	12 T	0.7744	-0.0644	0.0004314	0.38949737
rs16920485	12 G	0.7774	-0.0688	0.0001811	0.39220322
rs16920845	9 A	0.959	-0.1343	0.0004387	0.65824662
rs16929088	9 T	0.6042	0.0529	0.0007308	0.5725318
rs16932216	12 T	0.8029	-0.0687	0.0003501	0.83545196

rs1693310	18 T	0.6931	-0.0625	0.0002277	0.92520038
rs1693336	18 C	0.7359	-0.058	0.0008827	0.66609312
rs16935797	11 T	0.8509	-0.0793	0.0001697	0.43525927
rs16943468	17 T	0.9327	-0.1229	4.95E-05	0.96924403
rs16943470	17 A	0.937	-0.1294	3.39E-05	0.96929455
rs16943481	17 T	0.9365	-0.1282	3.78E-05	0.96949091
rs16952683	13 G	0.7543	0.0593	0.0007058	0.36306289
rs16959046	17 A	0.904	-0.0852	0.000905	0.18684998
rs1697229	1 G	0.147	0.0846	8.01E-05	0.83674821
rs16987310	19 C	0.748	0.0647	0.0001998	0.17419153
rs17023216	2 G	0.8869	0.0862	0.0003601	0.5973546
rs17046574	3 A	0.9605	0.1305	0.0007608	0.15065608
rs17050859	4 T	0.2164	0.0621	0.0005913	0.97858207
rs1705465	18 C	0.5621	0.057	0.0001958	0.99110852
rs1705477	18 G	0.6927	-0.0639	0.0001566	0.94059101
rs17058855	13 A	0.7744	-0.0608	0.0008288	0.78781476
rs17058858	13 A	0.7744	-0.0608	0.0008287	0.79006084
rs17070999	5 C	0.6511	0.0628	8.65E-05	0.778001
rs17071776	8 C	0.9373	-0.1059	0.0008238	0.54965307
rs17084754	4 C	0.8962	-0.0919	0.000176	0.07956257
rs17084794	4 C	0.8963	-0.0936	0.0001312	0.08780052
rs17088616	8 C	0.888	0.0815	0.000779	0.64265712
rs17095545	14 G	0.913	-0.0894	0.0008779	0.94525014
rs17106169	14 T	0.8079	-0.0675	0.0003874	0.53042899
rs17106195	14 C	0.8077	-0.0649	0.0005902	0.48555394
rs17145813	7 C	0.781	-0.0612	0.0008826	0.43893828
rs17153088	8 A	0.8725	-0.0763	0.0008739	0.79673
rs17158445	15 G	0.8914	-0.0812	0.0009569	0.8016176
rs17166013	7 G	0.8097	-0.0713	0.0002306	0.2990718
rs17175240	2 G	0.8876	0.0795	0.0006806	0.80641691
rs17180544	2 A	0.8407	0.0691	0.0009967	0.55431097
rs17180890	2 T	0.7067	-0.0577	0.0005303	0.62327779
rs17200503	3 C	0.9536	-0.1404	0.0004302	0.27773567
rs17213633	4 G	0.8575	0.072	0.0008323	0.58233139
rs17228009	13 A	0.9212	-0.0939	0.0009839	0.84429323
rs17277553	9 C	0.8772	-0.0913	8.25E-05	0.81438737
rs1728596	7 C	0.6049	0.0586	0.0002853	0.05516166
rs1729969	3 G	0.8101	-0.0637	0.0009973	0.72703448
rs17316057	10 A	0.825	0.0673	0.0008026	0.27135587
rs17362283	2 T	0.8421	0.0755	0.0002964	0.76318472
rs17363053	2 T	0.8426	0.0715	0.0006144	0.9434627

rs17379153	5 C	0.7975	0.0652	0.0004693	0.12119071
rs17397108	1 A	0.8163	-0.0964	9.61E-07	0.25688185
rs17435444	4 A	0.9372	-0.122	0.0002373	0.29065242
rs17447650	10 A	0.9513	-0.1212	0.0005535	0.45938211
rs17449954	4 T	0.9433	0.1088	0.0009246	0.44574127
rs17456275	4 C	0.5241	-0.0506	0.0006509	0.31047205
rs17457012	5 C	0.6624	-0.0575	0.0003398	0.73720833
rs17458210	1 T	0.8521	-0.0756	0.0004242	0.02984893
rs17466589	1 A	0.7307	-0.0621	0.0003254	0.65423663
rs17483979	4 A	0.7623	-0.0645	0.0002793	0.20687631
rs17485392	13 T	0.8305	0.0737	0.0002452	0.72380808
rs17491367	7 A	0.703	0.069	4.16E-05	0.32124479
rs17492088	12 G	0.7798	-0.0646	0.0004767	0.43728584
rs17492618	12 A	0.7629	-0.0641	0.0003851	0.66828556
rs17495854	2 C	0.7396	-0.0625	0.0006544	0.93990139
rs17500759	5 C	0.8901	-0.0855	0.0009078	0.99248281
rs17608302	10 C	0.7612	-0.0602	0.0005734	0.77209564
rs17621536	1 A	0.8717	-0.0762	0.0007824	0.4975173
rs17621621	1 G	0.8694	-0.0754	0.0007322	0.48897389
rs17633025	2 T	0.5583	0.0509	0.0009252	0.28082423
rs17634234	2 T	0.5488	0.054	0.0004953	0.13843133
rs17634670	2 G	0.497	0.0611	6.75E-05	0.28660219
rs17637747	16 G	0.5544	-0.0532	0.000554	0.55073023
rs17643060	5 T	0.6496	0.063	8.01E-05	0.82514259
rs17643126	5 C	0.6516	0.0616	0.0001175	0.74770092
rs17694135	6 A	0.5444	-0.0532	0.0005887	0.49934227
rs17711503	19 A	0.9256	-0.1109	0.0001338	0.26356379
rs1771752	6 A	0.2868	0.0627	0.0001409	0.82197515
rs17729322	7 G	0.9092	-0.0972	0.0002313	0.8241416
rs17741422	16 T	0.8052	0.0786	4.64E-05	0.42907035
rs17748074	18 A	0.5828	0.0607	9.90E-05	0.41510159
rs17748116	18 C	0.5747	0.0625	5.19E-05	0.54940568
rs17776911	19 T	0.8555	-0.0721	0.0008728	0.30871238
rs17785543	8 G	0.7566	-0.0614	0.0005248	0.58674898
rs17789761	20 C	0.8623	-0.083	0.0001619	0.24558623
rs17796758	7 A	0.9046	-0.1039	6.85E-05	0.89068155
rs17800283	15 G	0.9343	-0.1065	0.0005841	0.67270905
rs17833070	3 T	0.9211	-0.1031	0.0004958	0.75255893
rs1813823	2 A	0.5602	-0.0517	0.0006718	0.84654925
rs1823024	5 G	0.3191	-0.0595	0.0003088	0.53736702
rs184434	18 A	0.8847	-0.0806	0.0005826	0.9870275

rs1853793	13 G	0.2938	-0.0586	0.00054	0.15527701
rs1860741	7 A	0.5655	-0.052	0.00065	0.13804216
rs1863590	8 C	0.8288	-0.0701	0.0004282	0.09634649
rs1865229	16 C	0.4232	-0.0522	0.0006615	0.85153036
rs1866452	2 A	0.259	-0.069	7.97E-05	0.65882318
rs1871738	4 G	0.8557	0.072	0.0007962	0.57646587
rs1880413	19 T	0.6769	-0.0555	0.0006292	0.91886105
rs1884777	14 G	0.9277	-0.0988	0.0008677	0.25003611
rs1890507	10 A	0.3479	-0.0546	0.0006902	0.94734753
rs1891318	1 T	0.5609	-0.0516	0.0006801	0.03187644
rs189518	15 C	0.2393	-0.0617	0.0005691	0.51069422
rs1904454	5 G	0.4979	-0.0507	0.0008028	0.73833112
rs1910884	3 C	0.5083	0.0511	0.000669	0.47466904
rs193139	1 T	0.871	-0.0793	0.0004432	0.47905928
rs1941741	11 T	0.8587	-0.0768	0.0005042	0.53446865
rs1949305	3 C	0.9132	-0.1022	0.0001454	0.33954104
rs1950377	14 A	0.0673	0.1094	0.0003456	0.35149416
rs1951215	14 T	0.9635	-0.135	0.0008289	0.51113078
rs1962503	18 A	0.87	0.0783	0.0004675	0.7458364
rs1969008	10 C	0.226	-0.0645	0.0008857	0.98144319
rs1974696	2 G	0.5433	-0.0502	0.0009548	0.01818121
rs1980034	18 C	0.7473	-0.0683	0.0001103	0.25549583
rs1985270	1 G	0.1003	0.1033	4.83E-05	0.02082278
rs1992886	2 G	0.7738	-0.0628	0.0004505	0.75718103
rs1994465	7 G	0.831	-0.0669	0.0008487	0.18201297
rs1995232	3 G	0.6026	0.0574	0.0002098	0.820955
rs1995235	3 C	0.5967	0.0588	0.0001396	0.82956177
rs1997125	7 T	0.9524	0.1281	0.0005984	0.41040216
rs1997890	22 A	0.4354	-0.0525	0.0004305	0.00993366
rs2001722	2 T	0.8746	0.0757	0.0009235	0.3531994
rs2006768	18 A	0.6082	0.0539	0.0007975	0.11938526
rs201010	6 T	0.3559	0.0535	0.0007047	0.99718571
rs201011	6 A	0.3558	0.054	0.0006632	0.98162751
rs201059	6 T	0.4645	-0.0557	0.0003139	0.09029504
rs2016327	4 A	0.9036	0.0863	0.0007422	0.14837001
rs2020887	1 C	0.6494	-0.0566	0.0003719	0.46280229
rs2037563	3 C	0.6853	-0.0534	0.0009876	0.27943987
rs2042925	5 C	0.8595	0.0791	0.0003017	0.9595794
rs2044732	13 A	0.7913	-0.0721	0.0001008	0.92753437
rs2054402	3 C	0.4261	0.054	0.0004412	0.45759786
rs2060984	8 T	0.5513	0.0571	0.0001576	0.43753526

rs2063359	3 G	0.2006	0.0668	0.0004175	0.04378158
rs2063360	3 T	0.1998	0.0681	0.0003264	0.04469666
rs2063361	3 A	0.1999	0.068	0.00033	0.04338065
rs206420	18 G	0.4908	-0.054	0.0004362	0.37005431
rs2071246	5 G	0.2358	-0.0683	0.000506	0.51761335
rs2073210	6 G	0.8183	-0.0677	0.0006879	0.75500361
rs2073211	6 A	0.828	-0.0676	0.0009038	0.47230742
rs2076378	20 C	0.8628	-0.0834	0.0001639	0.25029969
rs2076387	20 T	0.8632	-0.088	6.33E-05	0.14585089
rs2076388	20 C	0.863	-0.0875	7.19E-05	0.14585089
rs2076389	20 G	0.863	-0.0879	7.01E-05	0.14575445
rs2076390	20 C	0.8628	-0.0881	6.84E-05	0.14568883
rs2078183	5 C	0.4539	-0.0518	0.0008372	0.9521188
rs2101869	12 T	0.6786	0.0571	0.0005074	0.27702304
rs2111671	2 C	0.9756	-0.1792	0.0003263	NA
rs2118788	5 G	0.5501	0.053	0.0005619	0.17508822
rs2126000	2 C	0.5072	-0.0579	0.000136	0.17840089
rs2128867	4 C	0.0958	-0.097	0.000147	0.45129417
rs2131774	1 A	0.2595	-0.0612	0.0008107	0.83000896
rs2135137	4 G	0.8833	-0.0831	0.0005211	0.78227037
rs2138885	2 G	0.9208	-0.0962	0.0005726	0.38805378
rs2141597	3 A	0.5482	-0.0534	0.0005675	0.0306174
rs215974	6 G	0.1141	0.0941	0.0001801	0.94945568
rs2159944	12 T	0.7305	0.0567	0.0009562	0.98492808
rs2166503	2 G	0.4217	-0.0532	0.000547	0.95127098
rs216779	21 A	0.9331	0.1063	0.0004462	0.0381523
rs216782	21 T	0.9332	0.106	0.0004928	0.03950709
rs2186355	21 C	0.8584	0.0828	0.0001234	0.23318452
rs2194433	2 T	0.4666	0.0598	9.50E-05	0.34467242
rs2194435	2 T	0.5382	0.0539	0.0004661	0.15996532
rs2194442	2 C	0.5581	0.0521	0.0007002	0.28290944
rs220128	21 A	0.4437	-0.0649	2.25E-05	0.43106158
rs220136	21 A	0.4377	-0.0656	1.59E-05	0.44148941
rs220139	21 C	0.438	-0.0563	0.0002725	0.08737276
rs220305	21 A	0.4784	-0.0516	0.0007465	0.49689049
rs220860	11 C	0.1777	-0.0667	0.0007362	0.70769833
rs220862	11 C	0.1646	-0.0795	0.0001014	0.52342668
rs2216817	2 A	0.4678	0.0598	9.37E-05	0.35195633
rs2219740	3 A	0.5771	-0.0566	0.0002389	0.52105275
rs2245046	19 G	0.9508	0.1443	3.60E-05	0.12024959
rs2245409	6 A	0.8793	-0.077	0.0008962	0.55979662

rs2250509	1 A	0.1226	-0.0768	0.000849	0.23271719
rs225536	12 A	0.1951	-0.0725	0.0002341	0.42673364
rs2280694	19 A	0.9508	0.1423	4.67E-05	0.12005141
rs2282492	11 T	0.6193	-0.053	0.0007425	0.12693989
rs2284610	21 G	0.9452	-0.1147	0.000623	0.67530176
rs2285803	6 T	0.2777	0.057	0.0007288	0.74704509
rs2289357	2 T	0.4345	0.0516	0.0009282	0.61284001
rs2290019	16 C	0.7947	0.0651	0.0006819	0.29234212
rs2303771	16 G	0.6543	0.0629	8.73E-05	0.47139139
rs2314126	3 A	0.713	-0.0578	0.0006198	0.2793041
rs2320174	13 G	0.2637	-0.0673	8.07E-05	0.95260472
rs2339414	2 A	0.9282	-0.1054	0.0003638	0.34706993
rs2339516	2 G	0.9284	-0.1053	0.000359	0.36031619
rs2341876	19 A	0.951	0.1431	4.28E-05	0.15841079
rs2341877	19 C	0.951	0.143	4.32E-05	0.12089462
rs2351390	17 C	0.8953	0.0845	0.0006727	0.63427889
rs2357090	4 T	0.7824	-0.0596	0.0009448	0.50842568
rs2360783	4 T	0.9036	0.0863	0.0007422	0.16288831
rs2368432	10 T	0.2943	-0.0568	0.0007466	0.95271699
rs2374145	2 C	0.5207	0.0574	0.0001912	0.25424684
rs2374313	7 C	0.5275	0.0554	0.0002583	0.78687105
rs2389137	13 C	0.6869	0.0551	0.0007361	0.86945719
rs2396215	2 T	0.6732	0.0562	0.0005081	0.68702979
rs2397132	6 G	0.0764	-0.1046	0.0007573	0.16310282
rs2418977	10 T	0.8611	0.0785	0.0003125	0.17795754
rs2423760	20 C	0.3632	-0.0532	0.0006353	0.53333466
rs242542	20 A	0.8927	-0.0895	0.0005791	0.48013509
rs2427393	20 G	0.793	-0.0727	0.0001781	0.42134875
rs2447949	11 A	0.3302	0.0566	0.0004315	0.36447295
rs2454057	10 T	0.5284	-0.0547	0.0004426	0.76378253
rs2503782	6 A	0.5256	0.051	0.0008975	0.32942388
rs2503784	6 T	0.5258	0.0512	0.00085	0.32917307
rs2505059	6 A	0.5258	0.0512	0.0008666	0.32867097
rs2513638	11 T	0.357	-0.059	0.0002044	0.30586141
rs2513645	11 A	0.356	-0.0578	0.0002816	0.28544051
rs2513649	11 T	0.3565	-0.0563	0.0005011	0.28134045
rs2547369	19 T	0.9509	0.1292	0.0002341	0.11819816
rs2547370	19 C	0.9516	0.1339	0.0001329	0.12005141
rs2547372	19 G	0.9517	0.1357	0.0001161	0.12005141
rs2547380	19 A	0.9508	0.1444	3.51E-05	0.11961383
rs2547385	19 G	0.9509	0.1435	4.12E-05	0.1198773

rs2547390	19 A	0.9508	0.1445	3.47E-05	0.12008495
rs2550730	16 C	0.5961	-0.0527	0.0008516	0.14724012
rs26189	5 A	0.1083	0.0869	0.0007907	0.9475943
rs264193	18 C	0.4783	0.0519	0.0007012	0.15682977
rs264202	18 T	0.4759	0.0533	0.000442	0.12904193
rs264233	18 G	0.4781	0.0543	0.0003813	0.10695845
rs264234	18 T	0.4986	0.053	0.0005135	0.14445589
rs264246	18 A	0.4766	0.0517	0.0006729	0.12904193
rs2666805	18 A	0.6576	-0.0742	9.05E-06	0.92087895
rs267526	3 A	0.4022	-0.0548	0.0004355	0.21730952
rs2680308	5 T	0.9719	-0.1786	0.0002543	0.91756463
rs2680603	8 C	0.2087	-0.0676	0.0004976	0.24019615
rs2694539	19 G	0.9509	0.1291	0.0002398	0.11724879
rs2694555	19 T	0.9508	0.1401	6.13E-05	0.12005141
rs2720751	8 C	0.4245	-0.0538	0.0004991	0.64067321
rs27547	5 C	0.2809	0.0587	0.0005643	0.58582285
rs2760364	13 A	0.6269	-0.0518	0.0009712	0.17550858
rs2760365	13 T	0.6266	-0.0527	0.0008061	0.17494348
rs27723	5 G	0.2598	0.0595	0.0005603	0.36936284
rs2777625	13 T	0.3666	-0.0538	0.000541	0.3230514
rs2785836	13 G	0.3666	-0.0538	0.0005416	0.32295312
rs2793482	13 T	0.3513	0.0627	7.70E-05	0.37363912
rs2793483	13 G	0.3522	0.0637	5.87E-05	0.37531104
rs2798329	6 C	0.2469	0.059	0.0006547	0.87281237
rs2813672	1 A	0.097	0.0916	0.0002611	0.69491375
rs2813673	1 T	0.0973	0.0905	0.000302	0.69525839
rs2813675	1 C	0.0937	0.0917	0.0003261	0.69420267
rs281380	19 T	0.6345	0.0542	0.0005582	0.05337985
rs2815634	10 G	0.9093	0.0895	0.0006839	0.38626586
rs2824758	21 T	0.7336	-0.0632	0.0004075	0.03710002
rs2829444	21 G	0.7902	0.0708	0.0001834	0.35408766
rs2834143	21 A	0.8619	0.0792	0.000279	0.23033392
rs2834144	21 A	0.8632	0.0785	0.0003211	0.23278945
rs2834150	21 A	0.6957	0.0606	0.0002259	0.08013802
rs2834630	21 A	0.1071	-0.0919	0.000933	0.42207154
rs2835930	21 C	0.7815	-0.0665	0.0002739	0.74841651
rs2835931	21 C	0.7815	-0.0665	0.0002739	0.74841651
rs2850247	11 C	0.7051	0.0565	0.0007181	0.70345018
rs28549095	3 A	0.4249	0.0551	0.0003402	0.42560133
rs2861667	5 C	0.347	-0.0553	0.0005426	0.18839077
rs2861857	2 A	0.4367	-0.0519	0.0006877	0.16670226

rs2869621	20 A	0.1546	-0.0743	0.0003777	0.00387838
rs2875402	4 G	0.3088	-0.0555	0.0007291	0.66266726
rs2882155	2 T	0.6911	-0.0606	0.0002095	0.49647216
rs2886862	7 G	0.5259	-0.0518	0.0006391	0.07286869
rs2895436	6 A	0.8015	0.0665	0.0005884	0.31121767
rs2901486	18 G	0.7473	-0.0699	7.74E-05	0.25075504
rs2914267	5 G	0.7968	0.0635	0.0009472	0.08447964
rs2927258	18 C	0.9351	0.113	0.0002658	0.20633508
rs2940273	4 C	0.7697	0.0651	0.0002383	0.48954935
rs2956173	8 A	0.6033	0.0515	0.0009421	0.69194811
rs2973628	5 T	0.205	-0.0638	0.0006291	0.1041468
rs2981423	18 T	0.9354	0.107	0.0005515	0.21171657
rs299699	1 G	0.7416	-0.0589	0.0006736	0.68046118
rs3094663	6 T	0.2778	0.0568	0.0007602	0.74704273
rs31731	5 A	0.5688	0.0556	0.0003052	0.09016286
rs317716	7 G	0.495	0.0528	0.000541	0.05108932
rs317726	7 T	0.4945	0.0508	0.0008661	0.05780123
rs323122	18 A	0.8848	-0.0791	0.0007404	0.98653122
rs330267	18 T	0.7099	-0.0718	2.50E-05	0.758063
rs330286	18 A	0.6955	-0.0593	0.0004366	0.98598398
rs330287	18 T	0.4425	-0.0627	4.29E-05	0.5561676
rs330299	18 T	0.6606	-0.0693	3.37E-05	0.89785861
rs330303	18 G	0.694	-0.0622	0.0002307	0.96863219
rs330304	18 T	0.6939	-0.0621	0.0002385	0.95803986
rs330305	18 A	0.6934	-0.0617	0.0002638	0.92415925
rs330326	18 C	0.7372	-0.0583	0.0008528	0.66710244
rs336277	18 T	0.4383	0.0554	0.0003702	0.81296452
rs336279	18 A	0.5506	0.051	0.0008737	0.19297666
rs338479	1 C	0.7932	-0.064	0.0007843	0.4582255
rs346617	8 T	0.2049	-0.0614	0.0008983	0.43971811
rs35295960	2 T	0.6396	0.0576	0.0003233	0.47078239
rs358683	1 C	0.2037	0.0631	0.0008564	0.75601903
rs358684	1 A	0.2035	0.063	0.0008623	0.75627617
rs358685	1 C	0.1716	0.0751	0.000211	0.67344885
rs36496	19 C	0.1932	0.0791	3.20E-05	0.41537657
rs3732569	3 A	0.9126	-0.1009	0.0001693	0.35203702
rs3732593	3 G	0.8342	-0.0682	0.0009745	0.64218913
rs3733767	5 G	0.9702	-0.1626	0.0002712	0.34617821
rs3744311	17 C	0.6501	-0.0583	0.0009743	0.97416477
rs3744787	17 A	0.8632	0.0755	0.0005803	0.12921234
rs3752400	4 A	0.8945	-0.0891	0.0002511	0.08401398

rs3761952	1 C	0.9512	-0.1248	0.0004324	0.37957253
rs3767225	1 T	0.5845	-0.0522	0.0007143	0.07058594
rs3789433	1 A	0.25	0.0588	0.0008155	0.88524229
rs3789638	1 G	0.9513	-0.1243	0.0004501	0.37700606
rs3800784	7 T	0.5441	0.0533	0.0006718	0.95120995
rs3813141	19 C	0.7481	0.0647	0.0001994	0.17471435
rs3813143	19 G	0.748	0.0647	0.0001999	0.17434036
rs3815362	11 C	0.6922	0.0559	0.0007205	0.96582456
rs3817422	2 G	0.2476	-0.0638	0.0002934	0.57191026
rs3822423	5 G	0.9702	-0.1626	0.0002713	0.34662348
rs3848663	19 G	0.8555	-0.0721	0.000878	0.30905273
rs3911131	18 G	0.6602	-0.0547	0.0006188	0.12312401
rs3923106	3 A	0.5482	-0.0507	0.000911	0.03544631
rs400819	21 C	0.0833	0.0925	0.0007427	0.17450711
rs406338	8 G	0.9124	-0.0877	0.0009807	0.94707302
rs4074399	1 C	0.9258	-0.1184	4.77E-05	0.38709357
rs4092257	1 G	0.4182	-0.0541	0.0005613	0.10941067
rs41466649	8 G	0.829	-0.0703	0.000422	0.10023713
rs41508146	4 T	0.6346	-0.0589	0.0001891	0.38821324
rs4234206	3 T	0.234	0.0652	0.0003033	0.48943186
rs4237360	10 T	0.7858	0.0639	0.0006898	0.22942332
rs4264950	5 T	0.9827	-0.2075	0.0003143	NA
rs4267192	13 G	0.634	0.0552	0.0003921	0.32611022
rs4296033	11 T	0.1209	0.0829	0.0003516	0.00057289
rs4298423	7 T	0.3332	-0.078	1.43E-06	0.61295344
rs4322543	13 A	0.7343	0.0705	3.25E-05	0.97122964
rs4330312	4 T	0.4686	0.0501	0.0009673	0.42702738
rs4344834	18 T	0.4446	-0.0635	3.37E-05	0.5561676
rs4346965	8 A	0.8194	-0.0676	0.0006799	0.43570177
rs4349303	2 G	0.0873	-0.0942	0.0004474	0.53257106
rs4350702	2 G	0.1017	-0.0903	0.0004102	0.8880274
rs4351607	1 A	0.9215	-0.1064	0.0001772	0.38433853
rs4359402	15 G	0.939	-0.1338	0.0001168	0.07698805
rs4363773	14 T	0.0674	0.1113	0.0002719	0.33744823
rs4365462	2 A	0.0294	-0.162	0.0003114	0.75799924
rs4372953	2 T	0.5195	0.0579	0.0001752	0.26506207
rs437302	20 G	0.9007	-0.0875	0.0005995	0.22124303
rs4384177	1 G	0.1466	0.085	7.49E-05	0.79272167
rs4385081	4 T	0.8564	0.0715	0.0008765	0.55749418
rs4418307	7 C	0.656	0.0622	0.0004658	0.18307227
rs4439630	13 G	0.362	0.0558	0.0004586	0.178152

rs4442821	16 G	0.4757	0.0572	0.0001473	0.56720821
rs4448804	13 G	0.7744	-0.0608	0.0008317	0.77150239
rs4456645	2 C	0.4555	-0.0529	0.000473	0.21812519
rs4463087	4 A	0.7824	-0.0596	0.0009624	0.50842568
rs4493295	2 T	0.9137	-0.1069	0.0001044	0.52491494
rs4507317	4 G	0.4804	0.0514	0.0007107	0.40829101
rs454768	18 A	0.6035	0.0534	0.0008965	0.15059623
rs4581598	13 C	0.6334	0.0538	0.0005428	0.32254957
rs4583203	15 T	0.3856	0.0528	0.0006738	0.37153941
rs4603206	10 C	0.7858	0.0634	0.000806	0.38495567
rs4609889	17 C	0.6682	0.0567	0.0004491	0.13942294
rs4619812	3 A	0.6853	-0.0534	0.0009875	0.28794764
rs4640402	2 A	0.5891	-0.0534	0.0005079	0.51480434
rs465305	5 A	0.0861	0.0953	0.000379	0.45109118
rs4655148	1 A	0.5848	-0.0512	0.0008794	0.07097087
rs4659536	1 T	0.6757	-0.0545	0.000851	0.26735832
rs4662295	2 C	0.4547	-0.0516	0.000623	0.23675451
rs4662299	2 G	0.5178	-0.0625	3.88E-05	0.35808691
rs466712	5 A	0.0713	0.1025	0.000462	0.3662898
rs4668780	2 C	0.6908	-0.0596	0.0002603	0.44146049
rs4677758	3 T	0.2251	0.0691	0.000209	0.45243638
rs4696604	4 T	0.884	-0.0837	0.0004824	0.78269488
rs4697528	4 G	0.3094	-0.0566	0.0005769	0.62367744
rs4698412	4 G	0.4608	0.0567	0.0001923	0.3477674
rs4698414	4 A	0.1948	0.0907	2.28E-06	0.75699117
rs4698415	4 T	0.2087	0.0776	3.92E-05	0.62827291
rs4701028	5 T	0.6454	0.0556	0.0004757	0.73586626
rs4717344	7 C	0.8597	-0.0767	0.0006614	0.48377425
rs4726988	7 T	0.5146	-0.0518	0.0005039	0.3676671
rs4727353	7 A	0.9355	0.1039	0.0007887	0.50683758
rs4731366	7 C	0.26	0.0587	0.0008021	0.57510141
rs4737532	8 G	0.1272	0.0856	0.000166	0.54750985
rs4743638	9 C	0.3464	-0.0604	0.0001562	0.35490222
rs4746839	10 G	0.0714	0.1068	0.0003087	0.2536425
rs4746841	10 T	0.0714	0.1067	0.0003087	0.25159689
rs4748856	10 A	0.7858	0.0633	0.0008197	0.38824696
rs4755320	11 C	0.8451	-0.0693	0.0009665	0.6377867
rs4758298	11 T	0.9364	-0.103	0.0008834	0.10778233
rs4765234	12 T	0.9556	0.1272	0.0006149	0.77499971
rs4767439	12 G	0.7574	0.0654	0.0001968	0.41376902
rs4767440	12 A	0.7563	0.0671	0.0001309	0.34291345

rs4768953	12 A	0.964	0.1522	0.0002269	0.08893992
rs4779952	15 C	0.5953	0.0534	0.0005403	0.74911047
rs4782685	16 A	0.0694	-0.1006	0.0008002	0.82345894
rs4796911	18 G	0.4955	0.053	0.0006316	0.19527889
rs4823954	22 G	0.9327	-0.1079	0.000422	0.50627489
rs4833651	4 A	0.2165	0.0596	0.0008986	0.98233121
rs4840341	8 G	0.6937	0.0566	0.0005912	0.22888451
rs4853951	2 G	0.0895	-0.0948	0.0007042	0.92362562
rs485446	18 G	0.9357	0.1093	0.000447	0.20731927
rs4857674	3 C	0.5484	-0.0513	0.0007866	0.0350609
rs4858302	3 A	0.7319	0.0675	9.95E-05	0.59362107
rs4876153	8 A	0.6866	0.0571	0.0005073	0.24094074
rs4886014	13 A	0.8198	0.0678	0.0004806	0.12995947
rs4886543	15 G	0.7734	-0.0607	0.0009432	0.1509653
rs4902438	14 A	0.5816	-0.0604	0.0002616	0.54303549
rs4910363	11 A	0.2574	0.061	0.0004639	0.89420044
rs4913455	12 T	0.813	-0.0636	0.0009491	0.26035482
rs4921518	5 A	0.6094	0.0601	0.0001269	0.54417217
rs4932425	15 G	0.8894	-0.0981	9.29E-05	0.0469314
rs4932427	15 T	0.8727	-0.1	1.72E-05	0.00947763
rs4932428	15 G	0.8804	-0.1023	1.71E-05	0.00934895
rs4937609	11 C	0.6445	0.0726	4.73E-06	0.52304969
rs4937612	11 G	0.4473	0.061	0.0006256	NA
rs4941417	13 C	0.8411	-0.0721	0.0004588	0.64977294
rs4942097	13 A	0.8398	-0.0746	0.0002871	0.59148557
rs4942101	13 C	0.8391	-0.0745	0.0002857	0.53346527
rs4959307	6 G	0.8176	0.0665	0.0007444	0.30047954
rs496809	18 C	0.9299	0.1106	0.0001959	0.20884206
rs497785	18 G	0.9352	0.1084	0.0004682	0.20708992
rs4981264	14 C	0.6272	0.0538	0.0005293	0.15704564
rs501332	1 A	0.2697	0.0619	0.000339	0.65196076
rs504583	1 T	0.6178	0.0563	0.0002979	0.02943336
rs520354	2 A	0.5149	-0.0542	0.0004304	0.55401956
rs521973	5 G	0.7606	0.065	0.0002979	0.13705237
rs532010	6 A	0.6169	-0.0549	0.0003542	0.838474
rs540364	15 C	0.8918	-0.0898	0.0002181	0.19913695
rs543027	8 A	0.9046	-0.0861	0.0008389	0.03450201
rs545602	13 T	0.1899	0.0691	0.0003539	0.3536466
rs559606	8 C	0.0895	0.0906	0.000623	0.28604095
rs563634	15 G	0.1879	0.0691	0.0005296	0.41377425
rs563765	13 C	0.2646	-0.0661	9.81E-05	0.94269149

rs568998	15 C	0.3867	0.0519	0.0007828	0.36949186
rs570900	15 A	0.3865	0.0527	0.0006479	0.35925647
rs570956	15 T	0.8922	-0.0888	0.0002443	0.20682616
rs571877	17 A	0.7484	0.0611	0.0004493	0.75615791
rs574342	19 G	0.8666	-0.0762	0.0005993	0.57322474
rs577241	13 T	0.2646	-0.0661	9.81E-05	0.93803974
rs577774	5 G	0.0868	0.0976	0.0002597	0.2475703
rs590273	18 G	0.6581	0.0575	0.0002643	0.95770985
rs5996780	22 G	0.8982	0.1077	1.68E-05	0.64229648
rs6043648	20 C	0.4899	-0.0548	0.0002723	0.39628035
rs606568	13 T	0.8263	-0.0699	0.0005102	0.97382053
rs606590	18 C	0.6032	0.053	0.000973	0.14974508
rs6069957	20 G	0.9223	-0.0953	0.0006254	0.0678322
rs6071459	20 C	0.6794	0.066	4.53E-05	0.49865138
rs6072001	20 G	0.6833	0.0649	6.76E-05	0.5070496
rs6077681	20 T	0.9016	-0.0868	0.0008619	0.47776892
rs6090338	20 A	0.7435	-0.0573	0.0009174	0.38402347
rs6095640	20 G	0.9744	0.1669	0.0009443	NA
rs610232	18 T	0.0765	0.0996	0.0004026	0.68900117
rs6131753	20 T	0.7148	-0.0633	0.0006389	0.06963096
rs6135624	20 G	0.7401	-0.0624	0.0009826	0.1119337
rs6135626	20 G	0.8132	-0.0742	0.0001446	0.00626765
rs616104	8 C	0.0891	0.0904	0.0006627	0.34104969
rs617363	1 T	0.6179	-0.0563	0.0002925	0.02953663
rs619508	13 T	0.8243	-0.0691	0.0005606	0.74883675
rs621222	1 T	0.7305	-0.0774	2.85E-05	0.69276162
rs636234	6 C	0.4323	-0.0603	8.06E-05	0.05756305
rs637033	5 G	0.5058	0.0593	0.0001124	0.16748578
rs6430331	2 G	0.9197	-0.0935	0.0009488	0.77579536
rs6434799	2 C	0.263	-0.0703	4.97E-05	0.65850707
rs6434802	2 C	0.2659	-0.069	6.81E-05	0.69554224
rs6440716	3 G	0.9306	0.1253	9.61E-05	0.69303113
rs6454976	6 G	0.4476	-0.0534	0.0005084	0.63386992
rs6461718	7 G	0.2449	-0.0598	0.0006568	0.6443347
rs6475895	9 A	0.9183	0.0967	0.0004312	0.27599906
rs6496210	15 T	0.5487	-0.0629	9.83E-05	0.9657616
rs6502440	17 G	0.6764	0.0554	0.0006848	0.14978768
rs6512238	19 C	0.3729	0.0589	0.0001445	0.24546367
rs6543288	2 G	0.5895	-0.0534	0.0005319	0.52975588
rs6544389	2 T	0.5101	0.0605	8.47E-05	0.25937618
rs6548690	3 C	0.1278	-0.0841	0.0003419	0.33705332

rs6548843	3 T	0.4246	0.055	0.0003522	0.42362428
rs6548846	3 C	0.3581	0.0569	0.0003736	0.22738829
rs6563655	13 C	0.7744	-0.0608	0.0008288	0.77987772
rs6563658	13 G	0.7744	-0.0608	0.0008287	0.79851909
rs658853	9 G	0.6845	0.0532	0.000989	0.32891887
rs659991	13 G	0.826	-0.0695	0.0005218	0.89357749
rs6602301	10 C	0.5854	0.0517	0.0008526	0.83616199
rs662774	7 A	0.3858	-0.0553	0.0005892	0.88907281
rs6687999	1 G	0.933	-0.1098	0.0002955	0.74615757
rs6706771	2 G	0.2582	-0.0685	9.00E-05	0.64263609
rs6708730	2 C	0.6734	0.0563	0.0004898	0.68829571
rs6710605	2 T	0.5174	-0.062	4.97E-05	0.33536245
rs6713330	2 G	0.507	-0.0571	0.0001737	0.18030648
rs6723899	2 T	0.6737	0.0559	0.0005358	0.68743017
rs6725814	2 G	0.392	-0.0538	0.0005269	0.69931432
rs6730730	2 A	0.8821	0.08	0.0007431	0.47150725
rs673330	11 A	0.8436	-0.0771	0.0002384	0.55712007
rs673429	18 T	0.9352	0.1077	0.0005065	0.20936862
rs6738207	2 G	0.5999	-0.0579	0.0001811	0.61995661
rs6743998	2 T	0.2588	-0.0673	0.0001218	0.71322342
rs6744481	2 A	0.8929	0.0836	0.0005173	0.88973078
rs6753046	2 G	0.5895	-0.0535	0.0005026	0.50880671
rs6756374	2 C	0.2584	-0.0679	0.0001037	0.64276681
rs6764992	3 T	0.8825	-0.0896	0.0001724	0.08118536
rs6772446	3 A	0.9619	0.1304	0.0009635	0.14106033
rs6779450	3 T	0.2041	0.0691	0.0001992	0.76553594
rs6783510	3 A	0.4261	0.0536	0.0004789	0.43036049
rs679884	18 C	0.6578	0.0581	0.0002279	0.94114467
rs681422	5 T	0.0869	0.0987	0.0002266	0.18949816
rs6822371	4 C	0.6577	-0.0547	0.0006733	0.16840035
rs6824643	4 G	0.6152	0.0563	0.0003015	0.52915715
rs6825793	4 G	0.6596	-0.0574	0.0003416	0.43445725
rs6829701	4 G	0.6709	0.0648	5.28E-05	0.35238663
rs6834257	4 A	0.2179	0.062	0.0005473	0.96708594
rs6845983	4 G	0.9476	0.1254	0.0002457	0.0915363
rs6847325	4 G	0.8976	-0.083	0.0008291	0.81059767
rs6851312	4 A	0.6146	0.0563	0.000303	0.53184423
rs6863278	5 G	0.9349	-0.1163	0.0001811	0.95924208
rs6866246	5 G	0.8391	0.0757	0.0002619	0.95046778
rs6871146	5 G	0.8419	0.0729	0.0005057	0.10482614
rs6872312	5 G	0.8777	0.0963	3.89E-05	0.62098682

rs6873939	5 C	0.9371	-0.1174	0.0001991	0.93346896
rs6882823	5 T	0.32	-0.0591	0.0003328	0.59856652
rs6885417	5 G	0.8787	0.0946	5.27E-05	0.53790337
rs6887003	5 C	0.1904	-0.0645	0.0007535	0.69112468
rs689848	11 T	0.2054	-0.0701	0.0002662	0.55987248
rs6901785	6 T	0.4476	-0.0534	0.0005091	0.64372002
rs6927133	6 A	0.9325	-0.1087	0.0003707	0.74912782
rs6928545	6 A	0.6939	0.058	0.0005589	0.37258574
rs6940021	6 G	0.5268	0.0543	0.0003945	0.66999229
rs6947017	7 G	0.0929	-0.0991	0.0001477	0.54969549
rs6950574	7 A	0.7013	-0.0546	0.0008848	0.58634991
rs6950973	7 A	0.3224	0.0651	6.97E-05	0.43181416
rs6957022	7 T	0.622	0.054	0.0005842	0.3878271
rs6967408	7 A	0.3205	0.0656	6.26E-05	0.50235939
rs6967507	7 T	0.6962	0.056	0.0006909	0.74240753
rs697635	12 G	0.6729	-0.0553	0.00067	0.38779476
rs6987678	8 C	0.7185	-0.0602	0.0003078	0.71347119
rs6990230	8 A	0.8027	-0.0665	0.0005188	0.23116514
rs6998032	8 C	0.7751	-0.0642	0.0003616	0.70456834
rs7013730	8 T	0.7272	0.059	0.0004992	0.63890609
rs7030789	9 A	0.3176	0.062	0.0001491	0.61002705
rs7036586	9 T	0.9819	-0.1922	0.0007878	NA
rs7042444	9 A	0.6047	0.0543	0.0005159	0.56667438
rs7075197	10 T	0.7859	0.0645	0.0006257	0.40037056
rs7078039	10 C	0.2584	0.0708	4.18E-05	0.20486594
rs7082651	10 T	0.585	0.052	0.0007906	0.81717
rs7089898	10 C	0.7858	0.0632	0.0008317	0.3901759
rs7095016	10 G	0.7751	0.0618	0.0008957	0.98854763
rs711714	3 T	0.8706	0.0785	0.0006795	0.58784004
rs711715	3 A	0.7932	0.0646	0.0006745	0.71492074
rs711716	3 C	0.7932	0.0646	0.0006726	0.70967985
rs7120021	11 G	0.6214	0.0557	0.0002804	0.69741066
rs7121722	11 T	0.8114	0.068	0.0005548	0.74828111
rs7160649	14 C	0.68	-0.0559	0.0006618	0.2647391
rs716710	5 G	0.3396	-0.0565	0.0004859	0.18791213
rs716866	5 G	0.4391	0.0531	0.000528	0.33091971
rs7176006	15 T	0.597	0.0518	0.00089	0.73377252
rs7178681	15 G	0.8931	-0.0902	0.000326	0.16436384
rs7185798	16 C	0.2758	-0.06	0.0004901	0.42256841
rs7193972	16 A	0.4494	0.0579	0.0001153	0.52220507
rs7196364	16 G	0.8347	-0.0677	0.0009766	0.81066391

rs7198251	16 A	0.8287	-0.0699	0.0005384	0.86765651
rs720644	15 A	0.6052	0.052	0.0009358	0.67433076
rs7209407	17 G	0.6615	0.0611	0.000138	0.14305478
rs7209748	17 G	0.6652	0.0569	0.0004175	0.13865242
rs7213173	17 G	0.6756	0.0568	0.0004565	0.15162733
rs7213463	17 A	0.7896	0.0623	0.0007375	0.22731257
rs7215091	17 C	0.86	-0.0746	0.0006528	0.73938965
rs7221943	17 C	0.9471	0.1152	0.0006086	0.87200666
rs7237247	18 T	0.8716	0.0788	0.0004626	0.79132358
rs7250332	19 T	0.3714	0.0584	0.0001553	0.24723723
rs7252434	19 A	0.4568	0.0506	0.0008146	0.66420703
rs7260222	19 C	0.6585	-0.0621	0.0001313	0.02476796
rs727276	1 T	0.9682	-0.1728	8.43E-05	0.15682798
rs7276817	21 G	0.8009	0.0659	0.0005093	0.56347884
rs7278642	21 G	0.4667	-0.0519	0.0008235	0.54819819
rs7298683	12 G	0.0396	-0.1341	0.0006553	0.36952204
rs7303030	12 A	0.7735	-0.0638	0.0004715	0.16249066
rs7303111	12 G	0.7741	-0.0634	0.0005185	0.1536084
rs7313855	12 A	0.8723	-0.0797	0.0004861	0.524371
rs7314280	12 C	0.8346	-0.0815	5.60E-05	0.79549066
rs731703	11 G	0.6888	0.0544	0.0009747	0.82118004
rs731773	19 T	0.6833	0.0748	6.02E-06	0.20720926
rs7318687	13 G	0.3846	-0.0533	0.0007466	0.83369267
rs7318895	13 T	0.6864	0.0552	0.0006922	0.90256019
rs7321102	13 C	0.7654	0.0605	0.0007278	0.03204694
rs7323023	13 A	0.7744	-0.0608	0.0008297	0.8025763
rs7324010	13 A	0.4291	0.0531	0.0004484	0.67028714
rs7324069	13 C	0.6334	0.0538	0.0005425	0.34557195
rs7327483	13 C	0.7367	0.0595	0.0006367	0.58146195
rs7330236	13 T	0.7744	-0.0608	0.0008288	0.78416119
rs7336995	13 T	0.6864	0.0552	0.0006942	0.90167026
rs7349532	3 C	0.7816	-0.0667	0.0007695	0.6137732
rs736095	5 G	0.9611	-0.1417	0.0004106	0.16313107
rs737769	22 T	0.8982	0.1087	1.58E-05	0.50218543
rs7424415	2 T	0.2587	-0.0683	9.53E-05	0.66131031
rs744668	1 C	0.1638	-0.0701	0.0006539	0.68510081
rs746187	13 A	0.6102	0.0534	0.0007057	0.97108058
rs748328	1 C	0.1862	0.0686	0.000508	0.61348598
rs7504590	18 T	0.7166	0.0577	0.000537	0.62033555
rs755326	19 T	0.9508	0.1444	3.55E-05	0.11948748
rs755517	4 C	0.2944	-0.0555	0.0008306	0.56546336

rs7561156	2 A	0.9207	-0.0961	0.0005776	0.38134746
rs7562658	2 A	0.4942	0.0612	6.36E-05	0.28658641
rs7567189	2 G	0.5178	0.0608	5.55E-05	0.30943334
rs7580284	2 C	0.5574	0.0525	0.000657	0.30061732
rs7592750	2 C	0.8485	-0.0818	0.0003239	0.36494123
rs7596016	2 T	0.2658	-0.069	6.81E-05	0.65760664
rs7598263	2 T	0.6903	-0.0604	0.000217	0.45964803
rs7598800	2 T	0.4536	-0.0511	0.0006711	0.23921214
rs7598906	2 T	0.4538	-0.0514	0.0006276	0.23981893
rs7603001	2 A	0.4649	-0.0519	0.0006621	0.69131349
rs7603249	2 C	0.843	-0.0752	0.0002886	0.14500143
rs7605382	2 T	0.4917	0.0621	5.32E-05	0.28755048
rs7623750	3 G	0.6848	-0.0548	0.0007251	0.30066046
rs7627904	3 C	0.6849	-0.0537	0.000919	0.2843196
rs7634663	3 T	0.9331	0.1157	0.0001406	0.74878764
rs7639667	3 C	0.4231	0.0567	0.0002257	0.47094784
rs7639998	3 G	0.4232	0.057	0.0002098	0.45337753
rs7660477	4 C	0.5315	0.0547	0.0002815	0.13584781
rs766103	15 C	0.495	-0.0577	0.000118	0.31784308
rs7671181	4 T	0.7672	-0.0594	0.000834	0.62550866
rs7680473	4 T	0.8829	-0.0863	0.0004176	0.74237142
rs7691720	4 A	0.884	-0.0837	0.0004824	0.78269488
rs7720858	5 C	0.9827	-0.2075	0.0003143	NA
rs7726283	5 T	0.3389	0.0583	0.0002786	0.73356332
rs7726844	5 G	0.6011	0.0538	0.0006219	0.06778991
rs7736548	5 G	0.4438	0.0515	0.0007669	0.9597984
rs7742896	6 C	0.8581	-0.0726	0.0009298	0.49370409
rs7746249	6 C	0.4956	-0.051	0.0008269	0.68866129
rs7760665	6 G	0.6487	-0.0552	0.0005189	0.86908055
rs7770341	6 A	0.9595	-0.1373	0.0002952	0.90098361
rs7783688	7 C	0.0687	-0.0993	0.0008799	0.32711721
rs778554	4 T	0.5535	0.052	0.0006099	0.29955021
rs7791283	7 T	0.7491	-0.06	0.00058	0.49644085
rs7796934	7 G	0.6235	0.0535	0.000683	0.42424026
rs7799246	7 T	0.7723	-0.0597	0.0009112	0.57882384
rs7804751	7 A	0.6491	-0.0557	0.0005004	0.96465334
rs7809567	7 T	0.32	0.0663	5.22E-05	0.50460701
rs7810052	7 T	0.3201	0.0663	5.26E-05	0.50063616
rs7820543	8 A	0.616	-0.0537	0.0005151	0.86942502
rs7821860	8 G	0.5211	-0.0512	0.0007584	0.22160654
rs7829101	8 A	0.6273	-0.0527	0.0008248	0.86051612

rs7849719	9 G	0.7936	0.0635	0.0007145	0.1536448
rs7853148	9 T	0.3729	0.0531	0.000799	0.61702332
rs7862893	9 C	0.7017	-0.0607	0.0005005	0.84770977
rs7900830	10 G	0.7796	0.0628	0.0005062	0.03322488
rs790328	13 G	0.2657	-0.0705	3.25E-05	0.96875803
rs790330	13 C	0.3666	-0.0538	0.0005427	0.32327563
rs790346	11 T	0.7522	0.0581	0.0008413	0.75746857
rs7911801	10 A	0.8797	-0.0861	0.0002178	0.7408105
rs7926308	11 T	0.8189	-0.0709	0.0003593	0.12544033
rs7926428	11 C	0.8706	-0.1057	1.18E-05	0.79995289
rs7931324	11 C	0.9076	-0.0934	0.0003927	0.67534216
rs7937452	11 C	0.8676	-0.0832	0.0001805	0.66004845
rs7939737	11 G	0.9436	-0.1613	3.09E-06	0.3635564
rs794861	6 C	0.2466	0.0593	0.0006251	0.8705805
rs7949336	11 A	0.7395	-0.06	0.0005431	0.06510006
rs7955810	12 T	0.8345	-0.0815	5.71E-05	0.79549806
rs7966190	12 C	0.8345	-0.0816	5.48E-05	0.79549806
rs7969052	12 C	0.8458	-0.0813	9.15E-05	0.1890703
rs7981720	13 T	0.8198	0.0681	0.0004485	0.12995947
rs7982295	13 C	0.6327	0.0536	0.0005664	0.33020794
rs7984412	13 G	0.7744	-0.0608	0.0008317	0.77152958
rs7986033	13 C	0.7743	-0.0605	0.0008843	0.77141409
rs7993004	13 A	0.6799	0.0562	0.000717	0.23646447
rs7993465	13 A	0.609	0.0542	0.0004871	0.90635086
rs8002991	13 C	0.6877	0.0539	0.0009099	0.93560113
rs8003773	14 C	0.8115	-0.0675	0.0003805	0.52305878
rs8014186	14 T	0.0704	0.104	0.0005739	0.35350356
rs8020153	14 C	0.0717	0.1014	0.0006794	0.25508174
rs8024985	15 A	0.3464	0.0582	0.0002565	0.87638528
rs8033375	15 T	0.8708	-0.0995	1.75E-05	0.00928107
rs8046133	16 A	0.9228	0.0962	0.0006741	0.37024115
rs8054180	16 C	0.3685	0.0553	0.000531	0.24969059
rs8063973	16 G	0.7161	0.059	0.0004369	0.27309584
rs8064150	16 A	0.1902	-0.0726	0.0001483	0.59129742
rs8065820	17 G	0.9139	-0.0928	0.0008505	0.7800024
rs8068673	17 T	0.6627	0.0613	0.0001389	0.14210178
rs8072459	17 A	0.317	0.0568	0.0007635	0.59911012
rs8080801	17 T	0.9469	0.1141	0.0006379	0.82732608
rs8083213	18 A	0.2173	-0.063	0.0006777	0.2065998
rs8085058	18 T	0.6864	-0.0605	0.0002206	0.0720509
rs8092564	18 C	0.2629	0.0615	0.0006739	0.28238405

rs8097669	18 C	0.3438	0.0747	7.67E-06	0.91948511
rs8099053	18 A	0.6106	-0.0552	0.0004267	0.21221804
rs8099574	18 G	0.5561	0.0625	4.41E-05	0.5561676
rs8100988	19 C	0.2961	0.0664	6.30E-05	0.36174529
rs8123772	20 A	0.9467	-0.114	0.0008963	0.56673551
rs8130856	21 A	0.9435	-0.1263	0.000146	0.65226565
rs8139515	22 A	0.8392	0.0701	0.0007898	0.10119612
rs8139784	22 G	0.8409	0.0722	0.0005805	0.09391363
rs827423	6 G	0.4911	0.0547	0.0002657	0.75171313
rs830383	5 A	0.3818	-0.0671	1.89E-05	0.11186992
rs8339	18 G	0.8938	0.0836	0.0006651	0.69937928
rs842740	2 C	0.7593	0.0676	0.0001567	0.49328461
rs858027	21 A	0.0701	0.1091	0.0002625	0.26640337
rs860798	21 C	0.6096	-0.0519	0.000811	0.7050256
rs873116	2 C	0.674	0.0565	0.000503	0.66525889
rs881210	11 G	0.6074	-0.0525	0.0008025	0.44865777
rs885691	17 T	0.1947	0.0632	0.000963	0.84047114
rs894445	11 A	0.0883	0.1026	0.0002232	0.44828153
rs898614	11 C	0.3571	-0.0577	0.0002738	0.30743927
rs898935	2 C	0.7402	0.067	0.0001207	0.54435791
rs907141	2 C	0.3449	0.0553	0.0007203	0.78592049
rs909934	1 G	0.2024	0.064	0.0007428	0.09777298
rs911158	20 A	0.4964	0.0511	0.0007247	0.04715579
rs918042	12 A	0.7788	-0.0678	0.0002321	0.39102276
rs918043	12 C	0.7774	-0.0689	0.0001798	0.39100894
rs923307	4 A	0.1821	-0.0659	0.0007498	0.78518155
rs923345	3 A	0.5942	0.0562	0.0002322	0.81749142
rs928738	21 G	0.8578	0.077	0.0003314	0.21681755
rs9290607	3 A	0.8602	-0.0861	0.0003627	0.81057175
rs9292877	5 C	0.9701	-0.1658	0.0001651	0.34477287
rs9301973	13 G	0.6864	0.055	0.0007298	0.62167315
rs9305055	19 T	0.308	-0.0582	0.0003854	0.37573696
rs9305623	21 C	0.4063	0.0506	0.0009858	0.83716437
rs9309807	3 A	0.5665	0.0508	0.0009359	0.42215669
rs9315892	13 G	0.8411	-0.0719	0.0004651	0.6495423
rs9316890	13 G	0.6334	0.0538	0.0005425	0.40985133
rs9316891	13 C	0.6334	0.0538	0.0005424	0.33854416
rs9318385	13 A	0.4421	0.0538	0.0005862	0.49304897
rs9318386	13 C	0.4438	0.0515	0.0007919	0.50975763
rs9318387	13 C	0.4438	0.0514	0.0007936	0.51215684
rs9320692	6 A	0.8471	0.0694	0.000913	0.03540598

rs9325627	21 T	0.6734	0.0534	0.0008455	0.72412218
rs9345388	6 A	0.4466	-0.0538	0.0004715	0.64009631
rs9363105	6 A	0.4476	-0.0534	0.0005085	0.64421217
rs9363305	6 A	0.6493	-0.053	0.0008775	0.86908055
rs9367114	6 C	0.5663	-0.0658	1.54E-05	0.62311032
rs9372625	6 G	0.6196	-0.0521	0.0009771	0.40436674
rs9398235	6 G	0.8268	-0.0674	0.0009632	0.45987421
rs9405967	6 C	0.7209	0.0579	0.0007317	0.68580369
rs941650	14 T	0.2752	-0.0602	0.0004681	0.05492441
rs946440	6 G	0.8277	0.0663	0.0009519	0.55160495
rs9471684	6 T	0.6504	0.0648	4.41E-05	0.55504421
rs9471712	6 C	0.599	0.0668	1.20E-05	0.98887485
rs9507268	13 G	0.4446	0.053	0.000687	0.47597741
rs9511125	13 C	0.4449	0.0527	0.0007482	0.47487997
rs9511127	13 G	0.445	0.0524	0.0007854	0.48149988
rs9511130	13 T	0.4465	0.0519	0.0008752	0.50068791
rs9511137	13 G	0.4403	0.0524	0.0006683	0.49967262
rs9527585	13 A	0.6334	0.0538	0.0005428	0.32254957
rs9545827	13 A	0.7296	-0.0581	0.0007485	0.1424374
rs9545828	13 A	0.8399	-0.0695	0.0008792	0.506619
rs9553509	13 A	0.9407	0.1355	0.0001187	0.40851978
rs9553516	13 C	0.9439	0.1284	0.0004719	0.43757516
rs9561607	13 A	0.6865	0.0552	0.0007043	0.87871899
rs9561619	13 C	0.6866	0.0554	0.0006854	0.90681637
rs9563481	13 C	0.8271	0.074	0.0002113	0.56982154
rs9563483	13 T	0.8278	0.0711	0.000364	0.55716761
rs9563495	13 C	0.8209	0.0663	0.0006613	0.11595938
rs9563497	13 T	0.8191	0.0669	0.0005574	0.12991244
rs9563502	13 A	0.7176	0.056	0.0007989	0.02209747
rs9569579	13 G	0.8284	0.0792	7.27E-05	0.72865166
rs9569580	13 C	0.6333	0.0533	0.0006134	0.34820225
rs9569612	13 A	0.8305	0.0737	0.0002475	0.72382271
rs9569633	13 C	0.8262	0.0783	9.43E-05	0.59063131
rs9569670	13 C	0.8209	0.0663	0.0006613	0.12239702
rs9569676	13 T	0.7176	0.056	0.0007989	0.02194657
rs9572018	13 A	0.6796	0.0563	0.0006725	0.25815028
rs9572205	13 T	0.6882	0.0546	0.0008699	0.48927549
rs9574199	13 C	0.6919	-0.0565	0.0006431	0.72628739
rs9580831	13 C	0.9673	-0.1455	0.0008974	0.22029595
rs9590023	13 T	0.6446	-0.0547	0.0006141	0.11459351
rs9590679	13 T	0.8132	-0.0673	0.0006553	0.7244793

rs9594683	13 A	0.8411	-0.0721	0.0004591	0.63920835
rs9594685	13 G	0.8411	-0.0721	0.0004589	0.64977294
rs9594703	13 A	0.8397	-0.0748	0.0002767	0.61094758
rs9594709	13 C	0.8391	-0.0752	0.0002472	0.54474857
rs9603485	13 A	0.7744	-0.0608	0.0008287	0.77156614
rs961050	13 G	0.3835	-0.0517	0.0008333	0.31698373
rs9612797	22 A	0.8617	0.1028	2.53E-06	0.77302254
rs9624632	22 A	0.8981	0.1086	1.41E-05	0.64351519
rs963458	6 A	0.8441	0.0719	0.0005189	0.04078185
rs9635884	18 A	0.3437	0.0733	1.13E-05	0.91890373
rs9639128	7 G	0.8085	-0.0697	0.0003144	0.26634383
rs963964	2 G	0.6899	-0.0589	0.0002993	0.4378142
rs964039	11 C	0.2808	0.0661	0.0004211	0.82754609
rs9648158	7 G	0.8075	-0.0687	0.0003506	0.25028184
rs965561	5 A	0.5544	0.0523	0.0006883	0.11251866
rs9732147	10 A	0.7782	0.0631	0.0004632	0.03318826
rs973431	4 G	0.659	-0.0569	0.0003782	0.56759171
rs975809	10 G	0.4865	0.0568	0.0001384	0.43504989
rs9787810	11 C	0.6877	0.0551	0.0008094	0.80722498
rs9824693	3 C	0.5496	-0.0525	0.000633	0.03107895
rs9833515	3 T	0.9332	0.1166	0.0001375	0.75911447
rs987452	5 C	0.8602	0.0852	0.0001099	0.64386196
rs9882017	3 G	0.4449	-0.0563	0.0007599	0.3308538
rs9882192	3 A	0.5484	-0.0512	0.0008079	0.03490839
rs9883093	3 T	0.3592	0.0553	0.0005497	0.22537689
rs9883719	3 T	0.425	0.056	0.00027	0.43031612
rs989587	5 T	0.5549	0.0522	0.0006847	0.11734104
rs9898364	17 A	0.912	-0.1011	0.0001927	0.6792477
rs9905316	17 A	0.9121	-0.1008	0.0002063	0.67925899
rs9905797	17 C	0.6722	0.0592	0.0002574	0.14384811
rs9913386	17 T	0.8947	0.0849	0.0006529	0.48332526
rs9915163	17 C	0.9021	0.0932	0.0003045	0.6828899
rs9921866	16 T	0.4756	0.0571	0.0001429	0.58579076
rs9940714	16 A	0.7185	0.0605	0.0003352	0.55120741
rs9945379	18 A	0.4948	0.0536	0.000579	0.19909199
rs9947697	18 A	0.8506	0.0737	0.0005977	0.67788869
rs9949710	18 T	0.6802	-0.0818	8.37E-07	0.39278497
rs9959828	18 G	0.5558	0.0641	2.91E-05	0.5561676
rs9992816	4 C	0.8976	-0.0831	0.0008275	0.80732325

ts were the Virginia Twin Study on Adolescent Behavioral
Smokey Mountain Study (GSMS). Columns at_p, ct_p, and gt_p
nbined per Fisher's method.

ed t-statistic p-value			Fisher's method p-value		
CHDS	GSMS	All samples	VTSABD	CHDS	GSMS
0.44395769	0.41075024	0.02551075	0.00706533	0.00367685	0.00343196
0.28311329	0.57802182	0.00329811	0.00064632	0.00074578	0.00141969
0.34710712	0.53722833	0.00294281	0.00050143	0.00285986	0.00421292
0.72795194	0.35062087	0.0007741	7.84E-05	0.00052295	0.00026869
0.64165738	0.04076613	0.00081649	0.00067075	0.00072314	5.79E-05
0.72371057	0.44704036	0.01259242	0.00176645	0.00167378	0.00108546
0.96409585	0.05863197	0.00466501	0.00253495	0.00409142	0.0003293
0.49594078	0.26128524	0.00411551	0.00103842	0.00180394	0.001014
0.79626044	0.69401621	0.01804433	0.00171161	0.00523011	0.0046333
0.74635513	0.09017778	0.00565907	0.00272751	0.00336945	0.00050404
0.195339	0.7897574	0.02199434	0.00679797	0.00165389	0.00572109
0.04428453	0.94654356	0.00856636	0.00678106	0.000438	0.00678938
0.14206199	0.06605792	0.00032963	0.00060801	0.00022363	0.00011069
0.94973253	0.49860499	0.0126723	0.00126463	0.0060467	0.00342352
0.02745388	0.56180534	0.00079347	0.00104668	8.58E-05	0.0013459
0.45780288	0.75841315	0.00312257	0.00030539	0.00285568	0.00446731
0.69198505	0.26983479	0.00225365	0.00036524	0.00066437	0.0002819
0.42474781	0.02868251	0.00043589	0.0006573	0.00044135	3.70E-05
0.42461281	0.59327429	0.00217208	0.00026602	0.00103936	0.00140454
0.49739999	0.03395052	0.00054121	0.00062447	0.0004949	4.20E-05
0.70807449	0.27077593	0.00190296	0.00029208	0.0005382	0.00022393
0.48331109	0.1487964	0.00469378	0.00205963	0.00115179	0.00039606
0.51247566	0.73374675	0.00064038	4.39E-05	7.35E-05	0.00010238
0.51261641	0.72918224	0.00063866	4.40E-05	7.35E-05	0.00010179
0.84007726	0.89664126	0.03965447	0.00355863	0.00315902	0.00334717
0.86086732	0.29516427	0.00913325	0.00147916	0.00310179	0.00119042
0.60131108	0.45461602	0.00660412	0.00093384	0.00154539	0.00120189
0.34327134	0.89450682	0.0224621	0.0038057	0.00208006	0.00486908
0.84005879	0.88817654	0.03809489	0.00340573	0.00302432	0.00317776
0.86873715	NA	0.00642871	0.00145016	0.00438058	0.0005877
0.34048949	0.91928034	0.02510829	0.00430556	0.00218873	0.00528233
0.48557048	0.56951064	0.02642048	0.00512209	0.00346962	0.00399604
0.25245164	0.31179805	0.00779991	0.003479	0.00140212	0.00169465
0.5197146	0.70209011	0.00704078	0.00077742	0.00213044	0.00278587
0.91546948	0.30069929	0.00883612	0.00132203	0.00315832	0.00116645
0.62597696	0.46156699	0.00380822	0.00045777	0.00083231	0.00063163

0.52358507	0.7858203	0.0424004	0.006618	0.00377192	0.00539835
0.79224118	0.34011733	0.00347496	0.00043721	0.00512427	0.00242129
0.17322476	0.35741722	0.00293096	0.00135239	0.0004798	0.00092506
0.62913607	0.57314045	0.00595499	0.00064123	0.00061052	0.00056099
0.45541593	0.72263508	0.00806239	0.00100656	0.00108006	0.00163582
0.5142636	0.54807348	0.00508148	0.00066192	0.00156823	0.0016604
0.78118927	0.10430442	0.00997616	0.00453416	0.0041901	0.00068999
0.89874755	0.20276556	0.00047759	6.12E-05	0.00165528	0.00043093
0.39856162	0.44696638	0.00785612	0.0016939	0.00075404	0.00083643
0.0668996	0.60486936	0.00535479	0.00401331	0.00042856	0.00311089
0.97740277	0.48270446	0.03569273	0.00469519	0.00726587	0.00390462
0.00483807	0.3920271	0.00029751	0.0022882	2.89E-05	0.00161167
0.3278092	0.06737492	0.0003509	0.0002993	0.00035729	8.37E-05
0.95166127	0.35882199	0.01095567	0.00141753	0.00286326	0.00119582
0.99927469	0.9857907	0.06583003	0.00550273	0.00672587	0.00664625
0.98595039	0.99186249	0.06488232	0.00543072	0.00662687	0.00666169
0.85361892	0.59195679	0.04200286	0.00545785	0.00613114	0.00444159
0.90445216	0.34440745	0.01757785	0.002764	0.00339154	0.00143206
0.42784938	0.79891981	0.02938943	0.00486374	0.00354465	0.00615021
0.14638466	0.336577	0.00234464	0.00127931	0.00138405	0.00291392
0.85747242	0.89929636	0.02917233	0.00234081	0.00511514	0.00533423
0.57536079	0.16490887	0.00303999	0.00096103	0.00471251	0.00154932
0.00867558	0.49277188	0.00109093	0.00471426	0.00010279	0.00398532
0.55730693	0.22331928	0.01105522	0.00352917	0.00306132	0.00135157
0.05904291	0.24391392	0.00118212	0.00175272	0.00034341	0.00124231
0.30646056	0.09112029	0.00253077	0.00232546	0.00206152	0.00069181
0.30043586	0.09537557	0.00264322	0.00239007	0.00203717	0.00072531
0.75194202	0.3738342	0.00863802	0.00126199	0.00203429	0.00108621
0.52617949	0.35467795	0.00861478	0.00181685	0.00141559	0.00099242
0.98635768	0.78801562	0.05320772	0.00509756	0.00570633	0.00468248
0.27175958	0.03205182	0.00230125	0.00585159	0.00230315	0.00033405
0.15319903	0.15824964	0.00086801	0.00077061	0.00047475	0.00048896
0.64925332	0.21868488	0.01110853	0.0031582	0.00314558	0.00118828
0.66437054	0.5549212	0.01578436	0.00207973	0.00196703	0.00167418
0.73813592	0.82417269	0.01493627	0.00123871	0.00428035	0.00471804
0.30003855	0.47333032	0.0016313	0.00032062	0.00141741	0.00213253
0.48924652	0.51956621	0.00684059	0.00104057	0.0017838	0.00188246
0.51358714	0.33755727	0.00396811	0.00076436	0.00373317	0.00257118
0.51934351	0.39029956	0.01420396	0.00311013	0.00269788	0.00209098
0.89397979	0.06382565	0.00024508	8.33E-05	0.00532423	0.00050016
0.4632904	0.33882959	0.00383124	0.00080197	0.0035619	0.00269748

0.35402834	0.86258849	0.00595913	0.00074604	0.0012926	0.00286748
0.34399197	0.00586511	3.74E-05	0.00022085	0.00084226	2.00E-05
0.51852119	0.93656505	0.01840283	0.00196966	0.00401294	0.0067545
0.92546123	0.28474485	0.0078521	0.00119083	0.00276455	0.00096078
0.58242494	0.71890047	0.00266423	0.00021292	0.00204615	0.00246927
0.23525989	0.44656505	0.00262573	0.00073753	0.00132712	0.00235634
0.76307983	0.7831796	0.01421727	0.00118346	0.00239413	0.00245029
0.26488033	0.90237361	0.01067285	0.00189025	0.00171869	0.00510992
0.26466465	0.90272327	0.01232062	0.00225515	0.00206202	0.00611786
0.26441642	0.90460978	0.0109484	0.00194893	0.00178997	0.00533802
0.37514521	0.94641517	0.01867254	0.00265296	0.0032258	0.00729432
0.93477112	0.97123031	0.00391302	0.00016608	0.00153502	0.00158864
0.67423243	0.59163888	0.0147481	0.00178104	0.00504214	0.00449314
0.88428384	0.74426884	0.04107078	0.00419839	0.00686517	0.00590159
0.81280478	0.32491419	0.00311009	0.00039011	0.00488803	0.00216585
0.67817679	0.28003724	0.00056918	7.21E-05	0.00015277	6.76E-05
0.55953002	0.18645685	0.00408132	0.00124991	0.00119292	0.00044105
0.87750893	0.52528186	0.00826326	0.00076504	0.00201796	0.00127354
0.19084803	0.46175881	0.001764	0.00054256	0.00156052	0.00343313
0.92825911	0.299222	0.01394955	0.00229752	0.00659049	0.00242077
0.41837308	0.23568475	0.01216561	0.00487038	0.00349069	0.00209414
0.06899354	0.66962396	5.17E-05	1.75E-05	2.62E-06	2.20E-05
0.39768822	0.89422651	0.01066679	0.00132254	0.00103657	0.00214553
0.36379239	0.90820944	0.00506713	0.00057111	0.00053059	0.00121379
0.44330185	0.29781463	0.00149825	0.00031024	0.00032324	0.00022468
0.77111452	0.34855184	0.00111711	0.00011467	0.00013567	6.52E-05
0.03489295	0.70028504	0.00116356	0.00107024	0.00029974	0.00445496
0.08343446	0.47409349	0.0027602	0.00188437	0.00033498	0.00161433
0.5084285	0.27468178	0.00137196	0.00026589	0.00034219	0.00019484
0.84219663	0.32189111	0.01171584	0.00189345	0.00332216	0.00140708
0.04765926	0.96022837	0.00614221	0.00423202	0.00028862	0.00430987
0.43892503	0.00544167	4.29E-05	0.00021992	0.00094579	1.67E-05
0.94111567	0.043517	0.00234252	0.00150889	0.00697082	0.00044538
0.54731549	0.69185272	0.01378106	0.00171533	0.0013254	0.00163584
0.608855	0.35024706	0.01505191	0.00319343	0.00494594	0.00303152
0.6673961	0.48068306	0.02106215	0.0033764	0.00309621	0.00231157
0.67095792	0.10812112	0.00434959	0.0018675	0.00154282	0.00029516
0.13769789	0.1652422	0.00380128	0.00447196	0.00079353	0.00093571
0.22563945	0.1003965	0.00103329	0.00100013	0.00026052	0.00012393
0.77893283	0.30615114	0.02682861	0.00594887	0.00503158	0.00219687
0.14594335	0.30887218	0.00172398	0.00096936	0.00028	0.00055441

0.47418249	0.77085619	0.02415797	0.00357457	0.00241638	0.00372185
0.8978275	0.17050749	0.00244427	0.00048167	0.00112886	0.00024965
0.86674982	0.17350634	0.00241176	0.00048186	0.00109596	0.00025422
0.96722652	0.30477127	0.00094609	8.67E-05	0.00013147	4.53E-05
0.40868826	0.15172037	0.00552542	0.00285196	0.00227255	0.00093336
0.63967124	0.0900481	0.00392731	0.0020349	0.00338696	0.00058217
0.80342141	0.09230676	0.00498334	0.00215111	0.00402099	0.00057718
0.85013982	0.51763915	0.00340055	0.00027233	0.0008046	0.00051312
0.01733975	0.92137237	0.00234402	0.00349809	0.0001138	0.00414266
NA	0.97561748	0.00028788	4.28E-05	7.79E-06	9.72E-05
NA	0.9591509	0.0010524	0.00017852	1.92E-05	0.00021961
0.52512068	0.26821554	0.0063025	0.00160325	0.00160202	0.00087488
0.03589211	0.36962436	0.0016751	0.00280757	0.00014172	0.00118448
0.53785431	0.79315853	0.02145774	0.00268281	0.00363462	0.00512304
0.71859341	0.22723591	0.01925255	0.00548223	0.00588819	0.002122
0.42187636	0.42853842	0.00365969	0.00066824	0.00330229	0.00334854
0.41721119	0.44139827	0.00339745	0.00060151	0.00336011	0.00353234
0.17980578	0.38587269	0.00236101	0.00094736	0.00114444	0.00227004
0.70059635	0.7876549	0.02795341	0.00298546	0.00333566	0.00370074
0.69323669	0.79668745	0.02885721	0.00310726	0.00337234	0.00381485
0.47608561	0.02050998	0.00152674	0.00331685	0.00396581	0.00023266
0.23642983	0.38600271	0.00593659	0.00220083	0.00164672	0.00255233
0.85154881	0.84093469	0.02645765	0.00220596	0.00595956	0.00589425
0.9598421	0.98276051	0.01820715	0.00107047	0.00239296	0.00244385
0.57730203	0.36430364	0.01106592	0.00221525	0.00193959	0.00128331
0.20689654	0.86736721	0.01137002	0.00263803	0.00093901	0.00338897
0.00745459	0.2848727	5.21E-05	0.00030356	2.16E-05	0.00061768
0.24599689	0.44046786	0.00104904	0.00024535	0.00033511	0.00056947
0.24997802	0.43908177	0.00119955	0.00028336	0.00038457	0.00064178
0.47592086	0.3288639	0.0001066	1.27E-05	0.00011218	7.98E-05
0.53419194	0.36035739	0.02151	0.00544389	0.00431103	0.0030413
0.87939673	0.92183185	0.02585882	0.00191737	0.00238041	0.00248259
0.53726568	0.1868406	0.01243166	0.00492177	0.0039262	0.00153108
0.54633666	0.92935838	0.014244	0.00137358	0.00167556	0.0026935
0.47817091	0.33934732	0.01067186	0.00267085	0.0020777	0.00152818
0.29636392	0.87708453	0.02988947	0.00632264	0.00239353	0.00625368
0.97965337	0.4549034	0.00047226	2.64E-05	0.00373413	0.00188578
0.16150422	0.57095909	0.0099321	0.0040429	0.00087487	0.00271669
0.226631	0.56891675	0.01379224	0.00447875	0.00121503	0.00276986
0.22667071	0.56897914	0.01379508	0.00447875	0.00121522	0.00277013
0.98601583	0.09765763	0.01212653	0.00495397	0.00779399	0.00099718

0.92978015	0.12505881	0.01103431	0.00373975	0.00500342	0.00083315
0.35913538	0.22056359	0.00169968	0.00057237	0.00066151	0.00042479
0.04572898	0.23141064	0.00072766	0.00133197	0.00040513	0.00175411
0.80076477	0.96921049	0.03179438	0.00260069	0.00564602	0.00667635
0.08047944	0.67707181	0.00436193	0.00241973	0.00033591	0.0022997
0.70550427	0.77529563	0.02041744	0.00201847	0.0021674	0.00235783
0.61242176	0.28313563	0.01241581	0.00302891	0.00294671	0.00147875
0.93183086	0.33644514	0.01236625	0.00177674	0.00372162	0.00149991
0.15297199	0.87055293	0.00945844	0.00275032	0.00075037	0.00356652
0.38557701	0.36953546	0.00648132	0.00164094	0.00161238	0.00155207
0.05455044	0.28592402	0.00242528	0.00371609	0.000498	0.00221728
0.65008621	0.74906126	0.01523953	0.0015515	0.00438665	0.00497102
0.9157195	0.72284074	0.02777775	0.00251871	0.00276683	0.00224083
0.35696026	0.08247091	0.00039857	0.00026596	0.00030859	8.04E-05
0.10104023	0.76060544	0.01246158	0.00624362	0.00089366	0.00541624
0.45646543	0.16269488	0.00078784	0.00024888	0.00037501	0.00014585
0.35248543	0.08173864	0.00039667	0.00026978	0.00031667	8.28E-05
0.26408793	0.90487931	0.01092552	0.00194559	0.00179274	0.0053534
0.34970831	0.87211319	0.01552298	0.00241283	0.00307821	0.00689521
0.84353147	0.32179366	0.01109317	0.00176855	0.0031162	0.00131658
0.07650234	0.28054528	0.00210238	0.00237363	0.00076066	0.00244543
0.61764678	0.21616257	0.00110833	0.00021603	0.00259164	0.00101084
0.19335655	0.27645057	0.00255407	0.00131372	0.00142678	0.0019658
0.92221963	0.25435321	0.00347861	0.0004966	0.00140599	0.00043846
0.88148638	0.79970945	0.01854709	0.00142421	0.0060142	0.00552088
0.8156596	0.54249299	0.04370323	0.00645812	0.00576376	0.00402253
0.92083011	0.12991392	0.00122342	0.00026799	0.00056584	9.42E-05
0.7601951	0.46026018	0.00678402	0.00077186	0.00355292	0.00227354
0.9978806	0.2863599	0.0149407	0.00243869	0.00480911	0.00158336
0.24031254	0.78033542	0.00102857	0.000145	3.92E-05	0.00011652
0.23923456	0.77857322	0.00098893	0.00013937	3.75E-05	0.00011158
0.57610552	0.59806475	0.00210515	0.00019243	0.00020333	0.00021042
0.27521499	0.60227561	0.00647223	0.00143019	0.00176682	0.00355106
0.99278121	0.46802163	0.04926116	0.00723478	0.00720036	0.00371291
0.87713526	0.56466036	0.04096281	0.00537667	0.00575481	0.00390198
0.20158935	0.80176723	0.02261933	0.00675752	0.00172736	0.00588473
0.8284498	0.55933209	0.04626252	0.00667989	0.00665121	0.00470822
0.29882739	0.52898651	0.01717958	0.00490004	0.002324	0.00386116
0.73637633	0.88611485	0.02742013	0.00250903	0.00280983	0.00331227
0.90561415	0.77778184	0.02068712	0.00163636	0.00359056	0.00313702
0.43016095	0.07882582	0.00399694	0.00333055	0.00293415	0.00063869

0.49631824	0.91753729	0.01185121	0.00120558	0.00135687	0.00235265
0.84777606	0.40542364	0.0291703	0.00479425	0.00463251	0.00240724
0.36807072	0.3258543	0.00751123	0.00228585	0.0031287	0.00280751
0.16187168	0.45970314	0.00363047	0.00147457	0.00044636	0.00114868
0.57638735	0.43253065	0.0059115	0.00088765	0.00307208	0.00237905
0.39809013	0.73556953	0.00369511	0.0004362	0.00059851	0.00104303
0.38709845	0.78319834	0.0079698	0.00106872	0.00174274	0.0032676
0.88110995	0.75349398	0.00763161	0.00049845	0.00084668	0.00073493
0.83358599	0.8962229	0.02447054	0.00192215	0.0054991	0.00586083
0.40447243	0.94389531	0.0197349	0.00266551	0.00264306	0.00559669
0.96593322	0.74358533	0.00717994	0.00043059	0.00320925	0.00254288
0.11924694	0.6268261	0.00108069	0.00035651	8.54E-05	0.00039149
0.79333162	0.14307682	0.0018034	0.00044231	0.0005219	0.00010885
0.29156289	0.05684089	0.0015966	0.00217934	0.00252441	0.00057959
0.29298084	0.05667757	0.00162861	0.00222554	0.00253607	0.00057825
0.34299667	0.90062475	0.01075267	0.00151578	0.00065716	0.00156983
0.1524045	0.39914028	0.00039048	0.00013354	0.00013891	0.00033556
0.26530332	0.90141555	0.01136119	0.00203973	0.00182969	0.00542145
0.02644496	0.67847843	0.00137901	0.00171635	7.48E-05	0.00144332
0.56384621	0.46730082	0.01475558	0.00258142	0.00304912	0.00257983
0.9884288	0.27978201	0.00221817	0.0002504	0.00231509	0.00074425
0.93586879	0.25019833	0.00525629	0.00081544	0.00299556	0.00091812
0.44817124	0.84512195	0.02731069	0.00404651	0.00297676	0.0052184
0.52150927	0.39855193	0.00657893	0.00119005	0.00232534	0.00182851
0.15248839	0.8369463	0.00117481	0.00024094	0.0001151	0.00054641
0.0346483	0.49971647	0.00098222	0.00120257	5.59E-05	0.00064537
0.338303	0.43843789	0.02280763	0.00736087	0.00302456	0.00380686
0.16176009	0.47388224	0.00113369	0.00036828	0.00013076	0.00035004
0.76506724	0.58741669	0.00938991	0.00091563	0.00270419	0.0021364
0.77122731	0.42110628	0.01472221	0.00213604	0.00546636	0.00320159
0.87652522	0.0880144	0.00231017	0.00083912	0.00313861	0.00039604
0.12312906	0.1340583	0.00043671	0.00049997	9.05E-05	9.79E-05
0.00116709	0.29615993	2.50E-05	0.00071266	6.00E-06	0.00098863
0.80346542	0.89938064	0.03526745	0.0031695	0.00638717	0.00705074
0.17205953	0.03862013	0.00085801	0.00243373	0.00125119	0.00032286
0.58586961	0.26972113	0.01279825	0.00341369	0.00277691	0.00138748
0.33536022	0.04730649	0.00311383	0.00488053	0.00292827	0.00050262
0.32095948	0.35046964	0.001429	0.00033976	0.00022758	0.00024666
0.14999768	0.93706615	0.00973343	0.00271391	0.00056084	0.00291326
0.85062609	0.85467094	0.01302923	0.00088941	0.00079131	0.00079471
0.54221626	0.56308222	0.00679365	0.00087459	0.00050525	0.00052289

0.67289473	0.46618583	0.00492689	0.00057874	0.00228144	0.00164287
0.88569493	0.85457429	0.00879704	0.00052694	0.0004853	0.00046977
0.27703117	NA	0.00011863	5.28E-05	4.20E-05	1.11E-05
0.77098477	0.74760735	0.02135848	0.00203904	0.00580565	0.0056506
0.74481038	0.17227396	0.00166544	0.00036037	0.00139313	0.00037005
0.15663496	0.48649951	0.0003101	8.34E-05	0.00045462	0.00126789
0.99520925	0.85019483	0.01884411	0.00123312	0.00139934	0.00121453
0.20133894	0.6788373	0.00454791	0.00111474	0.00099824	0.00296603
0.86659425	0.78086522	0.03377668	0.00317699	0.00392333	0.00357752
0.01881082	0.69566713	0.00050813	0.00073259	3.02E-05	0.0008301
0.88246027	0.78325858	0.03248078	0.00296391	0.00369287	0.00332229
0.44424671	0.78856724	0.01987157	0.00290258	0.0022676	0.00377734
0.11791628	0.64833112	0.001495	0.00050907	0.00033146	0.00155116
0.33005354	0.09926586	0.00453927	0.00398465	0.0019826	0.00067192
0.49183665	0.85984411	0.00935346	0.00096269	0.00358582	0.00587119
0.39689692	0.05655885	0.00252336	0.0028153	0.00244918	0.00042265
0.13056198	0.95844113	0.0009145	0.00018335	0.00048563	0.00292073
0.95490653	0.54477205	0.01896716	0.00192382	0.00466465	0.00283671
0.89951805	0.84521609	0.00152882	6.36E-05	0.0035403	0.00335006
0.4691743	0.49103938	0.00255811	0.00035031	0.00288283	0.003002
0.96474339	0.53966318	0.01808681	0.00181085	0.00431238	0.00257527
0.27556591	0.82680198	0.0103386	0.00189774	0.00178731	0.00474804
0.35889868	0.49219572	0.01724842	0.00446449	0.0027015	0.00357661
0.05608575	0.69840306	0.00188158	0.00121767	0.00046151	0.00443963
0.88202002	0.25781741	0.00397095	0.00059825	0.00279546	0.00092773
0.05271824	0.54879946	0.00540157	0.00545151	0.00045288	0.00372012
0.20292332	0.70425695	0.0136627	0.00404238	0.0018756	0.00565977
0.52648762	0.70203071	0.01295463	0.00162364	0.00251096	0.00324353
0.55784212	0.8009821	0.01279104	0.00134794	0.00251102	0.00346381
0.07142339	0.27841768	0.00260496	0.00325295	0.00037136	0.00127373
0.01328217	0.17091232	0.00022749	0.0014486	3.36E-05	0.00035322
0.95169866	0.9947104	0.06289631	0.00535895	0.00644426	0.00669894
0.40415611	0.29642881	0.00020104	3.35E-05	0.00037127	0.00027976
0.1254676	0.7643423	0.00888278	0.00341321	0.00091787	0.00461334
NA	0.90771514	0.00572857	0.0007626	0.0007626	0.00572857
0.67600832	0.29853007	0.00937094	0.00187639	0.00410641	0.00198471
0.85803771	0.66812019	0.00783245	0.00058797	0.00379154	0.0030368
0.93249943	0.65642803	0.01346162	0.00108192	0.00137461	0.00100203
0.94536462	0.65645	0.01680296	0.00141024	0.00176623	0.00127304
0.52478167	0.53530617	0.00829914	0.0012026	0.00306763	0.00312224
0.76742739	0.58698289	0.00905972	0.0008744	0.00261979	0.00206244

0.01562552	0.9133479	0.0021328	0.00346914	0.00010701	0.00424878
0.1650126	0.44710129	0.001786	0.00064681	0.0002346	0.00058209
0.5848797	0.9865133	0.03056055	0.00321705	0.00275473	0.00437956
0.4520725	0.76507309	0.02958087	0.00485343	0.00356703	0.00567631
0.4074316	0.96322606	0.01263854	0.00149226	0.00104562	0.00226313
0.08997675	0.75838942	0.00273652	0.00114323	0.00014871	0.00103668
0.47900409	0.33433789	0.00778692	0.00184361	0.00150463	0.00108883
0.92090696	0.28031619	0.01306878	0.00226298	0.00567173	0.00197422
0.70717077	0.4093297	0.01069434	0.00159615	0.00253908	0.00155708
0.76506724	0.58741669	0.00938991	0.00091563	0.00270419	0.0021364
0.27405286	0.14351001	0.00373021	0.00269252	0.00143269	0.00079959
0.92772221	0.82899743	0.05732487	0.0056818	0.00633416	0.00573814
0.7238056	0.4469049	0.01179424	0.00162963	0.00154292	0.00099976
0.8018701	0.39981416	0.01856705	0.0028847	0.00346092	0.00186138
0.90368569	0.32224274	0.01463045	0.00233638	0.00440543	0.00175986
NA	0.77718324	0.00376336	0.0005533	0.0005533	0.00376336
0.80243144	0.18795839	0.00111948	0.00019546	0.00027341	7.20E-05
0.53354286	0.01973756	0.00105247	0.00203234	0.00157392	7.80E-05
0.51962079	0.58937175	0.03312398	0.00624005	0.0043153	0.00482285
0.81874391	0.67251561	0.01268812	0.00110576	0.00431481	0.00362529
0.13178444	0.62273006	0.00189871	0.00063076	0.00043982	0.00178859
0.49307922	0.62221873	0.01479591	0.00226137	0.00126165	0.00155495
0.15594613	0.82572388	0.00634274	0.00175075	0.00055393	0.00248396
0.83717153	0.99927417	0.05344408	0.00480588	0.00495163	0.00578649
0.43534116	0.51331652	0.00191831	0.00025632	0.00032018	0.00037211
0.48260683	0.62507045	0.01415336	0.00217286	0.0011586	0.00146207
0.83175524	0.78103404	0.05190631	0.00577658	0.00649747	0.00614846
0.45798441	0.38994627	0.01130993	0.00263232	0.00250201	0.0021675
0.45768501	0.60812997	0.02238032	0.00413232	0.00335112	0.00431019
0.39626611	0.47407949	0.00819617	0.00170022	0.00077655	0.0009132
0.2482566	0.73396124	0.00497236	0.00095689	0.00100385	0.00265333
0.82457001	0.53205225	0.00266621	0.00020419	0.00058853	0.00039513
0.72908076	0.4076836	0.01695553	0.00275521	0.00334388	0.00199214
0.84809944	0.89450691	0.0614236	0.00630645	0.00613052	0.00642396
0.60653553	0.18885678	0.00883718	0.00289679	0.0033353	0.00117484
0.82733247	0.54328143	0.00264356	0.00019768	0.00058447	0.00039871
0.8475115	0.55354289	0.01247823	0.00125114	0.00475458	0.00326126
0.20418406	0.97019584	0.02243307	0.00559406	0.00163938	0.00653601
0.37061493	0.26641638	0.00139022	0.00037058	0.00034618	0.00025606
0.54891271	0.29472273	0.01122791	0.00284908	0.00230098	0.00131802
0.52259273	0.27818045	0.00942398	0.00253245	0.00194918	0.0011065

0.98855323	0.79412061	0.0101274	0.00060664	0.00385672	0.00317594
0.66439515	0.19670763	0.00028598	4.62E-05	0.00058883	0.00019395
0.71695702	0.4359679	0.00323963	0.00035123	0.00585041	0.00377199
0.43957815	0.70075787	0.02286854	0.00388158	0.00326136	0.0049271
0.57142774	0.54583029	0.01561283	0.00238206	0.00157093	0.00150763
0.28258768	0.73796841	0.00633063	0.00113266	0.00187442	0.00440216
0.5033219	NA	0.00737313	0.00275408	0.00339805	0.0007614
0.13494865	0.48640801	0.0011516	0.00043197	0.00024702	0.00079339
0.50023022	0.0355756	0.00058886	0.00065533	0.00051145	4.51E-05
0.62329135	0.91315415	0.03442888	0.00379674	0.00454675	0.00636327
0.3224764	0.20022634	0.00171395	0.00069569	0.00183599	0.00119681
0.02876735	0.98010525	0.00579105	0.00605059	0.00030328	0.00717557
0.34653831	0.68878024	0.00790303	0.00131202	0.00189772	0.00349976
0.8099705	0.3112845	0.00099633	0.0001064	0.00224707	0.00095208
0.54265085	0.91413058	0.01282186	0.00123065	0.00144145	0.00229936
0.159226	0.2661955	0.00267247	0.00170584	0.00057737	0.00091949
0.11006742	0.32412736	0.00553718	0.00466621	0.00067749	0.00179302
0.11518263	0.61464043	0.00328069	0.0013686	0.00042205	0.00191499
0.26202274	0.38703004	0.00114261	0.00028786	0.00128517	0.00182392
0.57303723	0.79899059	0.01906408	0.00217033	0.00189847	0.00255463
0.42601811	0.86039908	0.00173213	0.00014435	0.0024189	0.00451401
0.44434057	0.77437009	0.00125098	0.00010429	5.32E-05	8.89E-05
0.40705784	0.77053004	0.00311551	0.00033418	0.00016426	0.00029469
0.40711705	0.7753723	0.00317346	0.00033962	0.00016569	0.00029892
0.77900045	0.34718355	0.00349264	0.00043838	0.00491031	0.0023977
0.00720564	0.38166914	0.00093283	0.00583727	7.46E-05	0.00275295
0.23287036	0.68928029	0.01474421	0.00400479	0.00135919	0.00358179
0.48235527	0.09506459	0.00574448	0.00390324	0.00277554	0.0006447
0.81578973	NA	0.00258777	0.0003458	0.00258777	0.0003458
0.12794764	0.95925144	0.00105191	0.00021959	0.00058004	0.00354018
0.23716246	0.92971117	0.01334736	0.0026731	0.00082635	0.0028157
0.89716694	0.07758071	0.00317039	0.00133488	0.00240847	0.00026336
0.947462	0.14927033	0.00597397	0.00149792	0.00280919	0.00053265
0.53129402	0.82077191	0.04298615	0.00640215	0.00447841	0.00656676
0.26577198	NA	0.00086792	0.0003143	0.00086792	0.0003143
0.55465086	0.04304511	0.00272414	0.00291188	0.00181013	0.00017799
0.92548917	0.34453908	0.01166481	0.00162843	0.0035238	0.0014587
0.9685615	0.9832812	0.0138135	0.00074952	0.00169239	0.00171543
0.81670091	0.85213567	0.02985265	0.00264223	0.003201	0.003324
0.53013629	0.43115204	0.01771195	0.00367321	0.00343102	0.00285552
0.89594892	0.36592479	0.0177461	0.00267252	0.00284411	0.00127631

0.35875296	0.88205081	0.01366841	0.00199402	0.00085059	0.00191062
0.5342653	0.95827353	0.03938181	0.00496171	0.00408373	0.00683051
0.09254339	0.52970767	0.00152	0.00077655	0.00018942	0.0009274
0.86567001	0.85418519	0.00861869	0.00052481	0.00047357	0.00046785
0.86769222	0.85440814	0.00652696	0.00037227	0.00033651	0.00033181
0.87204737	0.85455211	0.0071008	0.00041077	0.00037297	0.00036614
0.80346542	0.89930472	0.02820379	0.00237527	0.00480605	0.0053078
0.54908167	0.24870804	0.00626884	0.00163773	0.00427702	0.00211555
0.23031674	0.79661406	0.00390009	0.00071131	0.0002196	0.00068033
0.69372757	0.17043953	0.00167949	0.00039209	0.00136997	0.00038438
0.75182273	0.96212523	0.02498312	0.00203155	0.00249462	0.00310697
0.86265101	0.38654784	0.00910911	0.00115466	0.00546629	0.00268548
0.97318453	0.55002521	0.0401516	0.00489227	0.00486847	0.00293714
0.80160963	0.11005923	0.00500852	0.00185275	0.00153181	0.0002531
0.34758336	0.88048952	0.01028253	0.0014469	0.00058887	0.00136355
0.98859242	0.99102397	0.06505638	0.00544162	0.00664244	0.00665676
0.99262748	0.99020552	0.06531017	0.0054547	0.00666549	0.00665123
0.77483282	0.08912334	0.00184643	0.00071393	0.0007113	9.85E-05
0.60773815	0.81331618	0.03215618	0.00393942	0.00430543	0.00556659
0.89010818	0.2856107	0.00149998	0.0001705	0.00152922	0.00054782
0.82487393	0.29548541	0.0012456	0.00014251	0.00109645	0.00043257
0.7202957	0.47337361	0.02665275	0.00430524	0.00476135	0.00328393
0.04413915	0.92829409	0.00835645	0.00671692	0.00043238	0.00661118
0.26095502	0.33080547	0.00514404	0.00195011	0.0010311	0.00127671
0.46155099	0.39207837	0.0113909	0.0026243	0.00250838	0.00216857
0.79348074	0.67705241	0.03058389	0.00343089	0.00578747	0.00503309
0.85167571	0.03126826	0.00531817	0.00575794	0.00610539	0.00031445
0.97492882	0.46966939	0.04371446	0.0062692	0.00744201	0.0039134
0.43405056	0.36615641	0.00357263	0.00072979	0.00102188	0.0008764
0.85287839	0.54777217	0.03530263	0.00466942	0.00490594	0.00331597
0.42092387	0.80965767	0.02853421	0.0046967	0.00368199	0.0065545
0.00552258	0.10265936	0.00014165	0.00297962	4.02E-05	0.00058896
0.12673003	0.03576202	0.00033584	0.00119868	0.00058973	0.00018588
0.46058159	0.59844771	0.02244725	0.00418373	0.00339893	0.00428591
0.19455855	0.05461026	0.00302786	0.00672306	0.00183023	0.00058199
0.80178022	0.03953058	0.00100244	0.00071303	0.00070303	4.45E-05
0.95409602	0.46144523	0.00251428	0.00018979	0.00250671	0.00130799
0.93532185	0.36456705	0.03443272	0.00596679	0.00744122	0.00324298
0.99685678	0.03669293	0.00279902	0.00205419	0.00650527	0.00033669
0.16725083	0.89267421	0.00831488	0.00212501	0.00054095	0.00244409
0.09643086	0.7963908	0.01018833	0.00489993	0.00063595	0.00421903

0.24850333	0.27907063	0.00162491	0.00061281	0.00117282	0.00130189
0.62574128	0.40105372	5.68E-05	4.00E-06	9.22E-06	6.08E-06
0.24226482	0.00656213	9.12E-05	0.00072985	0.00061881	2.24E-05
0.0304999	0.46046211	0.00150362	0.00235888	0.0002024	0.00236382
0.73646634	0.53805249	0.02584251	0.00362436	0.00564636	0.00428132
0.25751994	0.1071835	0.00212676	0.0019212	0.00162487	0.00073745
0.30025455	0.5512276	0.00967062	0.00232769	0.00103968	0.00179492
0.75962348	0.79409181	0.00270997	0.00015545	0.00291306	0.00303029
0.68472614	0.65522899	0.01769585	0.00201281	0.00209646	0.00201554
0.52518182	0.21773555	0.00242393	0.00062165	0.00144149	0.00065117
0.13411387	0.61412629	0.00444526	0.00171029	0.00037234	0.00147587
0.64315958	0.31130003	0.00120003	0.00016345	0.00030866	0.0001588
0.97307456	0.36711351	0.01480445	0.00197527	0.00402445	0.0016889
0.57831731	0.37673329	0.01205704	0.00238442	0.00209562	0.00142733
0.2249196	0.81979013	0.01999467	0.00516277	0.00144594	0.00457636
0.24086027	0.10108376	0.00603267	0.00721865	0.00206147	0.00094483
0.90460644	0.19955243	0.01557607	0.00386165	0.00444225	0.00115288
0.43200594	0.08175226	0.00424352	0.00344542	0.00303946	0.00068167
0.42109699	0.07536783	0.00367196	0.00319893	0.00280095	0.00059626
0.61857634	0.29877933	0.01076889	0.00240476	0.00484506	0.00254138
0.48849712	0.03230335	0.00058545	0.00072595	0.00225664	0.00019269
0.31050912	0.06726389	0.00026497	0.00022927	0.00024672	6.04E-05
0.34743199	0.98605279	0.01886943	0.00277488	0.00183922	0.00465009
0.64428596	0.01508257	0.00038549	0.00070245	0.00056126	1.77E-05
0.59427569	0.08163912	0.00172609	0.0009084	0.00073804	0.00012043
0.40400474	0.28202352	0.00826403	0.00268449	0.00222234	0.00161102
0.40850391	0.75905432	0.00356617	0.00039682	0.00059109	0.0010354
0.87672869	0.7296785	0.01475078	0.00116552	0.00123519	0.00104689
0.57970377	0.43973743	0.01086283	0.00182336	0.00132973	0.00103678
0.4289784	0.87641034	0.00266996	0.0002356	0.00023555	0.00045215
0.26542512	0.55399126	0.00226216	0.00045606	0.00030336	0.00059282
0.08331432	0.554427	0.00068439	0.00032669	5.77E-05	0.00032941
0.58282401	0.22324855	0.00854746	0.00248405	0.00436642	0.00185952
0.78865522	0.60791128	0.0240799	0.00279771	0.00363803	0.00288731
0.1306752	0.48470727	0.0011436	0.00044264	0.00024887	0.00082027
0.99476186	0.51188092	0.00781506	0.00065292	0.00072169	0.00039466
0.12633273	0.59801692	0.00755757	0.00347423	0.00077586	0.00312959
0.95092579	NA	0.01436866	0.00331837	0.00408276	0.0004958
0.31300046	0.37323664	0.01363509	0.0048182	0.00199068	0.00232965
0.46238391	0.33433789	0.00678037	0.00161025	0.00140702	0.00105086
0.65466938	0.09395077	0.00860323	0.00486547	0.00338373	0.00059186

0.54924028	0.55582461	0.0067695	0.0008709	0.00270584	0.0027347
0.024285	0.5404107	0.00062637	0.00092587	0.00019031	0.00314523
0.09396952	0.44019169	0.00084116	0.00045776	0.00044747	0.00180507
0.30068559	0.48044739	0.01577932	0.00477765	0.0018941	0.00287752
0.41360913	0.02846457	0.00037366	0.00056989	0.00037312	3.17E-05
0.45512033	0.61977892	0.02195652	0.00398695	0.00323335	0.00425076
0.38072386	0.19755944	0.01001496	0.00488863	0.00223663	0.00124215
0.94612411	0.58394268	0.02079365	0.00204716	0.00665385	0.00435123
0.65255465	0.51663251	0.03182109	0.00544836	0.00392085	0.00318745
0.66918651	0.24813571	0.0015131	0.0002545	0.0039572	0.00163476
0.14460176	0.34149853	0.00438402	0.00265741	0.00085628	0.00185521
0.70261482	0.1882872	0.01536499	0.00499719	0.00478342	0.00148091
0.38009913	0.05954358	0.00258613	0.0028754	0.00235903	0.00044339
0.16792955	0.1086405	0.00160215	0.00200799	0.0007819	0.00052681
0.46529385	0.17091827	0.00592839	0.00248433	0.00219531	0.00089272
0.84774235	0.48761487	0.00571508	0.00053892	0.00123277	0.00074829
0.65368166	0.63912548	0.01121282	0.00121668	0.00212253	0.00208024
0.0545645	0.28661436	0.00242919	0.00371418	0.00049768	0.00222014
0.99047841	0.88377743	0.03975407	0.00312463	0.00401819	0.00363242
0.55354489	0.66289962	0.04095966	0.00699572	0.00422644	0.00495553
0.67164269	0.03428336	0.00026269	0.00020764	0.00535603	0.00037078
0.90055965	0.4906575	0.00393669	0.00032343	0.00101488	0.00058581
0.49887685	0.42609326	0.00015768	1.49E-05	0.00028011	0.00024248
0.19119685	0.74012387	0.01081001	0.0030643	0.00089232	0.00300286
0.66943311	0.88259141	0.01713078	0.00151006	0.00481399	0.00613978
0.0340652	0.59130288	0.00147008	0.00166495	9.18E-05	0.00123991
0.02584599	0.63535414	0.00091642	0.00116543	4.88E-05	0.00091625
0.50216927	0.68810081	0.01626111	0.00228685	0.00273756	0.00362145
0.89198481	0.96708935	0.00154228	5.71E-05	0.00340411	0.00365707
0.18908936	0.84444603	0.01142664	0.00294477	0.00168562	0.00636075
0.87182758	0.90134058	0.01485469	0.0009768	0.00575082	0.00592156
0.71008195	0.53590249	0.0363308	0.00580483	0.00430345	0.00335412
0.73700378	0.55913112	0.03641087	0.0054275	0.00421505	0.00330019
0.51683115	0.96302942	0.00432733	0.00032513	0.00157796	0.00275213
0.05608575	0.69843068	0.00174222	0.00111375	0.00046151	0.00443979
0.38449728	0.41375903	0.00711757	0.00166391	0.00140888	0.00150482
0.31498332	0.89730733	0.01530666	0.00253764	0.00282317	0.00711478
0.54988732	0.0368828	0.00221283	0.0026482	0.00160992	0.00013805
0.09523717	0.52067586	0.0018427	0.00096091	0.00012051	0.00056972
0.83688747	0.35417104	0.01264057	0.00191955	0.0032877	0.00152572
0.73271163	0.52635791	0.00696469	0.00072969	0.00116243	0.00086249

0.12745031	0.95903637	0.00104072	0.0002177	0.00057687	0.00353273
0.08457617	0.94230686	0.00062005	0.00017704	0.0003174	0.00279482
0.12954409	0.95834492	0.00086865	0.00017399	0.00047282	0.00286493
0.42925629	0.5129013	0.00863367	0.00157084	0.00179436	0.00210418
0.79353777	0.03425012	0.00256713	0.00242203	0.00354159	0.00020733
0.66309597	0.80066464	0.03709972	0.00444729	0.00396512	0.00468391
0.79805669	0.81099493	0.03714914	0.00373898	0.00593939	0.0060239
0.1409581	0.50312509	0.00128085	0.00045542	0.00026974	0.00085787
0.15036985	0.40757024	0.00034782	0.00011621	0.00011952	0.00029824
0.14938035	0.40741392	0.0003832	0.00013064	0.00013354	0.00033485
0.15236295	0.4016917	0.00037734	0.0001277	0.00013301	0.00032336
0.15419169	0.39713538	0.00036967	0.00012468	0.00013136	0.00031263
0.81324171	0.29067782	0.02854921	0.00648413	0.00564569	0.00226831
0.46919876	0.95526041	0.01312086	0.00138732	0.00222429	0.00418391
0.82837545	NA	0.00249107	0.0003263	0.00249107	0.0003263
0.81752505	0.67749988	0.01180904	0.00100612	0.00398991	0.00337804
0.04599455	0.43988972	0.00031024	0.00028209	8.12E-05	0.00064157
0.25025003	0.36049051	0.00224571	0.00070458	0.00041239	0.00057472
0.26598078	0.6159365	0.01959626	0.00558762	0.00203597	0.00429543
0.75269485	0.39949659	0.02112522	0.00358933	0.00346874	0.00197292
0.08365827	0.99931413	0.00532557	0.00209133	0.00052436	0.00484431
0.42933259	0.10112123	0.00043859	0.00020782	0.00227073	0.0006178
0.8051748	0.42748872	0.01248949	0.0016542	0.00142673	0.00080623
0.61411659	0.82253533	0.05354443	0.00750391	0.00495619	0.0064084
0.2740844	0.09937699	0.00434258	0.00445468	0.00147006	0.00058816
0.30726481	0.22337859	0.00062249	0.00020396	0.00135659	0.00101801
0.31050688	0.21835852	0.00068602	0.00023064	0.00149727	0.00109082
0.23123849	0.7610538	0.00197332	0.00032965	0.00032713	0.00096479
0.65176478	0.2335072	0.00194812	0.00037071	0.00066157	0.00025978
0.3016429	0.09932748	0.00104062	0.00078317	0.00138763	0.00050836
0.62225663	0.2987342	0.00886271	0.00188719	0.00380742	0.00198137
0.09417087	0.23354618	0.00015745	0.00012161	2.98E-05	6.91E-05
0.18993852	0.15934097	0.00015714	9.04E-05	4.15E-05	3.52E-05
0.23225193	0.05797304	0.00021959	0.00027727	0.00067515	0.00019045
0.20385796	0.52679615	0.00939055	0.00330108	0.00148991	0.00347677
0.87376214	0.24159446	0.01956411	0.00445969	0.00537058	0.00171361
0.58481908	0.17355269	0.00207018	0.00057554	0.00063647	0.00021026
0.7205025	0.27508645	0.00240324	0.00037319	0.00071563	0.00029804
0.85060575	0.29466607	0.00784152	0.00124372	0.00193075	0.00074348
0.71685356	0.61083817	0.00091409	5.78E-05	0.00029845	0.00025783
0.5272008	0.52181041	0.02296752	0.00431329	0.00409048	0.00405347

0.56939227	0.87076639	0.01801798	0.00188279	0.0041741	0.00606937
0.32345577	0.71012551	0.00623914	0.0010201	0.0007942	0.00161288
0.69096254	0.63136099	0.00111683	7.33E-05	0.00036568	0.00033679
0.05497313	0.07961449	0.00026949	0.00096793	0.00045334	0.00063465
0.67256234	0.91422476	0.03551645	0.00369115	0.00367788	0.00482456
0.41209055	0.93180384	0.03067873	0.00463637	0.00273621	0.00563295
0.45545304	0.31195682	0.01570227	0.00481915	0.00370699	0.00264863
0.28560269	0.20314265	0.00372179	0.00189789	0.00185867	0.00136923
0.19885751	0.05897627	0.00030604	0.00045677	0.00020767	6.79E-05
0.53773445	0.80669673	0.01489428	0.00167254	0.00300176	0.00430038
0.35386241	0.64396074	0.00509382	0.00080478	0.00032721	0.00056437
0.0699186	0.1703607	0.00076097	0.00125975	0.00029454	0.00066246
0.06996757	0.16980287	0.00077412	0.00128745	0.00029117	0.00065259
0.74869801	0.58141222	0.00129459	8.74E-05	0.00036342	0.00028851
0.75884837	0.59824289	0.00109098	6.88E-05	0.00037144	0.00029897
0.37629986	0.69572499	0.01978098	0.00373749	0.00234951	0.00405628
0.49522367	0.37820259	0.01695602	0.00415078	0.00405531	0.00319337
0.05608575	0.69803963	0.00187252	0.00121145	0.00046151	0.00443759
0.01272415	0.87659177	0.00279025	0.00586709	0.00011936	0.00545279
0.53871476	0.02841138	0.00043377	0.00053141	0.00104864	7.13E-05
0.49423013	0.09835904	0.00330073	0.00193108	0.00127227	0.00029422
0.08330092	0.17046148	0.00309636	0.00534664	0.00065607	0.00125268
0.8843659	0.76780535	0.03345073	0.00312783	0.00391278	0.00345221
0.40627501	0.16843171	0.00292911	0.00123507	0.00279565	0.00127132
0.6216866	0.04224686	0.00074349	0.00060045	0.00185461	0.00016153
0.20580827	0.86031755	0.01266383	0.00304607	0.00129995	0.00465224
0.25942432	0.93585886	0.01379291	0.00255461	0.00147278	0.00461764
0.8693161	0.85046035	0.01196457	0.00078775	0.00151314	0.00148364
0.61954939	0.48366138	0.01062216	0.00153457	0.00246671	0.00197735
0.00272071	0.95733928	0.00049651	0.00303985	1.76E-05	0.0037145
0.63069431	0.09985082	0.00533485	0.00269827	0.00479829	0.00092484
0.6381154	0.09982869	0.00516254	0.00256894	0.00462097	0.00088033
0.65649201	0.09981567	0.00534453	0.00261004	0.00481973	0.00089574
0.76155018	0.4494651	0.00592184	0.0006677	0.00152047	0.00094582
0.83883655	0.44451774	0.00761159	0.00083826	0.0022088	0.00124998
0.847152	0.44918158	0.01167548	0.00139103	0.00372063	0.00211558
0.70322592	0.65686283	0.00401544	0.00031807	0.00159881	0.00150389
0.69096254	0.64896885	0.00257709	0.00019219	0.00094543	0.00089338
0.69096254	0.64751526	0.00231817	0.00016978	0.00083676	0.00078903
0.69066787	0.6265467	0.00088451	5.62E-05	0.0002821	0.00025805
0.69354903	0.61645804	0.0009958	6.53E-05	0.00032769	0.00029426

0.70403014	0.61564865	0.00087979	5.58E-05	0.00028387	0.0002511
0.0315176	0.28055061	0.00059698	0.0012519	0.00030935	0.00223134
0.23263054	0.1151985	0.00564595	0.00614127	0.001766	0.00093854
0.39909796	0.73194199	0.00801271	0.00111237	0.00256935	0.0044009
0.43834771	0.68471275	0.00500814	0.00061439	0.0018501	0.00275495
0.51492728	0.84144835	0.00512917	0.00045299	0.00187225	0.00290189
0.6384043	0.87337422	0.00965326	0.00077954	0.00295794	0.00390608
0.43834771	0.68365107	0.00685282	0.00089885	0.00269263	0.00399499
0.43122841	0.77557756	0.00123848	0.0001058	5.25E-05	9.03E-05
0.93728643	0.33281416	0.00752662	0.0009715	0.0035936	0.0014261
0.6143735	0.5410263	0.01524436	0.00218474	0.0015255	0.00136087
0.71570242	0.13904485	0.00380188	0.00119904	0.00318391	0.00073192
0.70789579	0.67530815	0.0041716	0.00032275	0.00164341	0.00157539
0.69101218	0.63996415	0.00139819	9.43E-05	0.00046882	0.00043719
0.00374081	0.3103789	0.00024742	0.00289317	2.65E-05	0.00151388
0.77943694	0.67283016	0.02694214	0.00298007	0.00383938	0.00337009
0.88536165	0.46861557	0.01426401	0.00164949	0.00692941	0.00395724
0.87405178	0.48862449	0.01269981	0.00139141	0.00581831	0.00348169
0.74431053	0.60504832	0.01738898	0.00196255	0.00366256	0.00304751
0.55832422	0.70998437	0.01405372	0.00168689	0.00275017	0.00340491
0.56384104	0.71153418	0.0141843	0.00168811	0.00277708	0.00341486
0.27641525	0.44620428	0.00149545	0.0003294	0.0002501	0.00038728
0.33728174	0.37940127	0.00124891	0.00025811	0.00023407	0.00026068
0.88429805	0.93774161	0.0534045	0.00483851	0.00489461	0.0051544
0.61244957	0.46643545	0.01138651	0.00174449	0.00155767	0.00121948
0.60171355	0.49261427	0.0130055	0.00198809	0.00174686	0.00145989
0.56388561	0.58339328	0.01480524	0.00212645	0.0017655	0.00182011
0.46777898	0.63043251	0.00301761	0.00034031	0.00241545	0.00315033
0.17322123	0.03965301	0.00088302	0.00244062	0.0011895	0.00031228
0.68317524	0.38253055	0.00162705	0.00018292	0.00255746	0.0015224
0.79876663	0.38620341	0.00563619	0.00069109	0.00143982	0.00074762
0.23306516	0.76508971	0.00369564	0.00068456	0.00069192	0.00201764
0.23301991	0.76514298	0.00414482	0.00078496	0.00078567	0.00228771
0.78172368	0.82519102	0.00374918	0.00021578	0.00170264	0.00178722
0.96983548	0.3601341	0.02291202	0.003481	0.00724585	0.0030235
0.63344502	0.53735444	0.01412632	0.00194589	0.0016759	0.00144589
0.63344502	0.53735444	0.01412632	0.00194589	0.0016759	0.00144589
0.71309668	0.54475666	0.02936366	0.00433955	0.00439209	0.00346059
0.83707643	0.30208782	0.00882536	0.00142476	0.00260961	0.00104651
0.3901884	0.85721279	0.00839065	0.00104146	0.00200289	0.00403411
0.43303251	0.55505081	0.00715093	0.00115486	0.00271564	0.00338608

0.78265697	0.80496559	0.00051555	2.11E-05	0.00269787	0.00276623
0.01425994	0.00234588	1.85E-05	0.00417209	0.00012969	2.44E-05
0.38368944	0.74202609	0.00754382	0.0010579	0.00083829	0.00151866
0.82408961	0.96570626	0.00890499	0.00051109	0.00450251	0.00517838
0.12696274	0.63605359	0.00448437	0.00175894	0.00078455	0.00332733
0.83124201	0.54813726	0.00303294	0.00023004	0.00068545	0.00046967
0.26462084	0.30838562	0.00240204	0.00083486	0.00232889	0.00266935
0.72108968	0.77703381	0.00775375	0.00059292	0.00183228	0.001959
0.74966383	0.12373461	0.00353793	0.00117316	0.00172037	0.00033707
0.40848845	0.55625895	0.02413649	0.00543388	0.00341069	0.0044827
0.25515226	0.28595102	0.00188702	0.00069667	0.00156297	0.00173113
0.67622973	0.75337598	0.01258593	0.00117408	0.00331697	0.00365049
0.34723155	0.69042546	0.01955188	0.00398216	0.00218941	0.00403371
0.41209055	0.93182362	0.03158542	0.00481215	0.00284088	0.00584587
0.7547454	0.32485352	0.0024633	0.00031647	0.00215973	0.00101316
0.26202494	0.39511534	0.00126428	0.00031775	0.00139791	0.00202015
0.2620001	0.43088197	0.00214843	0.00054578	0.00213097	0.00331891
0.6460617	0.09412805	0.01017205	0.00600549	0.00413537	0.00073675
0.42607582	0.99039789	0.00280394	0.00022469	0.00013242	0.00028695
0.35429794	0.83981732	0.0217913	0.00376697	0.00151192	0.00326737
0.82667846	0.19061252	0.00156473	0.00027769	0.0003987	0.00010392
0.4072372	0.77976564	0.00323256	0.0003453	0.00016747	0.00030359
0.35767918	0.869108	0.01408106	0.00210196	0.00085838	0.00190772
0.32970319	0.89696056	0.01380279	0.00214418	0.00082178	0.00202157
0.35822794	0.88619747	0.0152211	0.00227196	0.00097023	0.00218844
0.5315523	0.94716972	0.03807342	0.00481965	0.0039433	0.00655992
0.64575585	0.87781651	0.02664199	0.0027413	0.00223252	0.00293504
0.70259447	0.61451114	0.01456445	0.00163343	0.00515379	0.00457958
0.72887315	0.21171394	0.01196107	0.00320972	0.00484019	0.0016112
0.90754154	0.44234856	0.02531625	0.00349046	0.00661328	0.00350897
0.22073234	0.21302154	0.00257775	0.00149012	0.00075272	0.00072887
0.77067726	0.58490474	0.03856292	0.00540137	0.00549342	0.00430739
0.76879399	0.58593377	0.0387342	0.00543573	0.00551482	0.00434033
0.83511437	0.61907077	0.01466072	0.00140094	0.00169933	0.00129882
0.95125251	0.66862119	0.0029303	0.00016259	0.00034711	0.00025152
0.81396652	0.55620152	0.00704026	0.00063938	0.00136284	0.00096712
0.72284036	0.2440796	0.01961834	0.0052421	0.00581711	0.00222249
0.59806443	0.4563143	0.00677415	0.00096451	0.00157762	0.00123718
0.26638908	0.34492984	0.01658252	0.00755503	0.00240248	0.00302398
0.02085804	0.13098313	0.00015238	0.00078718	0.00014914	0.00079693
0.98682728	0.28098316	0.0022064	0.00024822	0.00230519	0.000745

0.81047849	0.74160471	0.01810823	0.00159447	0.00313874	0.00290049
0.41923106	0.42717104	0.00308108	0.00054933	0.00272911	0.00277507
0.5599659	0.42001477	0.02655371	0.00594396	0.00396903	0.00307557
0.81058719	0.74276636	0.01856565	0.00164286	0.00325297	0.00301001
0.50066877	0.97791646	0.04042745	0.0053394	0.00302626	0.00547112
0.67924732	0.17106833	0.00165815	0.00039244	0.00134182	0.00038497
0.68360592	0.1708778	0.00166545	0.00039257	0.0013526	0.00038546
0.66294966	0.29325223	0.02264721	0.00575513	0.0041301	0.00199927
0.68640833	0.28414511	0.00812381	0.00162643	0.00191529	0.00086638
0.59474504	0.45770948	0.00676982	0.00096595	0.00157029	0.001241
0.58432638	0.22341789	0.00861315	0.00249969	0.00439939	0.0018707
0.54614865	0.65115626	0.00706206	0.00079864	0.00303911	0.00355258
0.42846795	0.12928285	0.00087309	0.00036621	0.00345388	0.00118327
0.43881932	0.93005104	0.01155626	0.00128971	0.00294261	0.00571784
0.82767912	0.21294325	0.02588539	0.00741329	0.0065881	0.00197848
0.94667783	0.22536542	0.00162386	0.0002198	0.00049715	0.00013379
0.24799017	0.46570879	0.00255994	0.00065698	0.00137521	0.00241783
0.11109192	0.50520817	0.00109171	0.00046829	0.00051418	0.00201542
0.81370259	0.54155515	0.00805437	0.00077224	0.00150477	0.00104318
0.91200913	0.16335617	0.00606956	0.00145703	0.00254287	0.00054068
0.85219198	0.69012792	0.01737211	0.0015432	0.00496083	0.00411783
0.26577198	NA	0.00086792	0.0003143	0.00086792	0.0003143
0.57065568	0.71086264	0.01139266	0.00127414	0.0021044	0.0025602
0.93061022	0.6789889	0.00010309	3.31E-06	0.00295298	0.0022298
0.62729755	0.6417708	0.00023728	1.31E-05	1.34E-05	1.37E-05
0.3943668	0.64606638	0.00281686	0.00035828	0.00015702	0.00024688
0.22956447	0.97515709	0.0172914	0.00363162	0.00209013	0.00751423
0.82356918	0.18990328	0.00128872	0.00022281	0.00031904	8.30E-05
0.85958689	0.77236887	0.02940958	0.00270294	0.00493546	0.00449087
0.71487669	0.77875312	0.02233547	0.00222596	0.00289378	0.00312253
0.92011289	0.38294904	0.02182307	0.00324841	0.00335238	0.00153296
0.94503218	0.22378602	0.00439584	0.00072153	0.00162348	0.00044157
0.24785154	0.07980608	0.00013572	0.00011347	0.00033147	0.00011729
0.65283568	0.63239852	0.00904933	0.00094472	0.00171054	0.00166246
NA	0.75034794	0.00831589	0.00220734	0.0003114	0.00218743
0.70095601	0.0768544	0.00113765	0.00050978	0.00122868	0.00016448
0.06907301	0.67675096	0.00230786	0.00131679	0.00045931	0.00357427
0.23031222	0.7604231	0.00343207	0.00063719	0.00020645	0.0006136
0.37555552	0.54565378	0.018302	0.004214	0.0029688	0.00413477
0.58992746	0.95060671	0.01073645	0.00088427	0.00252792	0.00386222
0.20807011	0.81538685	0.00427004	0.0008507	0.00097875	0.00332483

0.41489454	0.19196124	0.00243719	0.00086809	0.00065409	0.00032442
0.95169866	0.99462865	0.06289148	0.00535878	0.00644426	0.00669845
0.18920645	0.73087287	0.00436445	0.00105021	0.0009237	0.00310093
0.47537866	0.35835964	0.01605413	0.00421907	0.00397559	0.00309441
0.23929438	0.80073212	0.00345769	0.0005925	0.00028973	0.00086853
0.40543357	0.94267963	0.01968001	0.00265364	0.00263709	0.00556624
0.93172277	0.91309763	0.02017532	0.00133797	0.0067556	0.00663708
0.57983218	0.71402656	0.01451984	0.00168957	0.00285267	0.0034322
0.30156455	0.0970228	0.00262416	0.00232636	0.00193062	0.00069528
0.8966467	0.75197315	0.03069323	0.00281669	0.00594962	0.0050963
0.72937996	0.4646369	0.00588464	0.00066863	0.00295589	0.00197708
0.30945059	0.90073099	0.0154834	0.00260614	0.00277875	0.00713791
0.48757786	0.25674616	0.00812461	0.00241838	0.00230393	0.00129683
0.01237561	0.66321759	0.00072018	0.00165391	6.22E-05	0.00233478
0.42225487	0.43116183	0.00367195	0.00066667	0.00330426	0.00336604
0.77122731	0.42110628	0.01472221	0.00213604	0.00546636	0.00320159
0.17585371	0.66786262	0.00505302	0.00144868	0.00110861	0.0036551
0.15547888	0.85027952	0.00089194	0.00016936	7.86E-05	0.00037361
0.01191178	0.67197749	0.00070025	0.00163883	7.21E-05	0.00281814
0.45916607	0.99969819	0.01153274	0.00115732	0.00119904	0.00240808
0.80998666	0.11174657	0.00295738	0.00097077	0.00163936	0.00027243
0.73404505	0.40256028	0.01976419	0.0033535	0.00316778	0.00185391
0.03275082	0.00406321	4.59E-05	0.003213	0.0002244	3.27E-05
0.3971745	0.59374952	0.00470775	0.00070973	0.00080041	0.00115066
0.63841814	0.15367691	0.00013026	2.46E-05	2.10E-05	5.55E-06
0.3744599	0.61545045	0.00215644	0.00028611	0.00017812	0.00028077
0.88985664	0.59218545	0.02813046	0.00313556	0.00371129	0.00258453
0.06408188	0.93200659	0.00544016	0.00289485	0.00046914	0.00517281
0.35936822	0.59649597	0.00936968	0.0017774	0.00174142	0.00273818
0.42263256	0.3637211	0.01288589	0.00352761	0.0030021	0.00262669
0.36520882	0.42168311	0.01431042	0.00400467	0.00267612	0.00304131
0.71507736	0.45702014	0.00756073	0.00093667	0.00119164	0.00079557
0.78368522	0.44471798	0.00548507	0.00059872	0.00122511	0.00073457
0.42541068	0.16925637	0.0021444	0.00081862	0.00130508	0.0005674
0.41900848	0.17123435	0.00212517	0.00081265	0.0012874	0.00057342
0.89965437	0.74135421	0.03100201	0.00288098	0.00605615	0.00510813
0.8669261	0.9357705	0.0553432	0.00517275	0.00677398	0.00724281
0.73595859	0.27813337	0.00552117	0.00097685	0.00542112	0.00228784
0.31759232	0.49272053	0.01481966	0.00412163	0.00186325	0.00275763
0.38422867	0.83095068	0.00684828	0.00084815	0.0007932	0.00158928
0.37486507	0.82142687	0.00426089	0.00049427	0.00053595	0.00109006

0.4490498	0.0057439	4.92E-05	0.00023835	0.00103842	1.90E-05
0.30480468	0.05381105	0.00243277	0.00356671	0.00159934	0.00033277
0.19184357	0.69998655	0.01675571	0.00548554	0.00150162	0.00475401
0.27282738	0.70981206	0.00642886	0.00123345	0.00166565	0.00390485
0.53973676	0.57577836	0.01362861	0.00201923	0.00213811	0.00226518
0.98972767	0.59822602	0.05698094	0.00709047	0.00713719	0.00458461
0.74699706	0.75291738	0.01503835	0.0013407	0.0038532	0.00388022
0.49800532	0.96104303	0.04028887	0.00542311	0.00314068	0.00561593
0.67069359	0.75196284	0.01055805	0.00095326	0.0027319	0.00302448
0.43330874	0.1301419	0.00078147	0.00031711	0.00306215	0.00104283
0.5723432	0.49202518	0.00489992	0.00063406	0.00061341	0.00053473
0.63077444	0.17739561	0.00422701	0.00122347	0.00289504	0.00092835
0.16234549	0.48434236	0.00192698	0.00066712	0.00081601	0.00218004
0.57981669	0.79983627	0.0135751	0.00140353	0.00465467	0.00617827
0.94842571	0.03788883	0.00198566	0.00140059	0.00230781	0.00012411
0.59837635	0.33728081	0.01610413	0.0036453	0.00255085	0.00152751
0.77090148	0.98616657	0.02848881	0.00229947	0.00601441	0.00746336
0.19798754	0.85621832	0.00375613	0.00073065	0.00029124	0.00110038
0.50084225	0.32872607	0.00042151	5.82E-05	0.00051077	0.0003481
0.90883707	0.37020763	5.13E-05	2.70E-06	0.00018822	8.24E-05
0.91841559	0.3699854	5.10E-05	2.67E-06	0.00018973	8.22E-05
0.11427524	0.62137516	0.00013426	3.44E-05	8.33E-06	4.03E-05
0.22127375	NA	0.00136839	0.0006256	0.00136839	0.0006256
0.15027838	0.87052492	0.00924543	0.00271823	0.00072962	0.0035249
0.14793855	0.84084346	0.00586468	0.00164395	0.00047004	0.00225209
0.17748851	0.3548715	0.00322887	0.00149194	0.00055219	0.0010338
0.45358517	0.2642709	0.00700713	0.00210375	0.00303665	0.0018755
0.88416457	0.71620883	0.00683042	0.00045429	0.00167336	0.00138505
0.67584483	0.75292258	0.01098425	0.00099298	0.00286636	0.00315518
0.42908199	0.35144285	0.00395651	0.00086409	0.00213261	0.00178386
0.69465964	0.75247044	0.02025823	0.00208136	0.00220273	0.00236566
0.74796664	0.29151324	0.00092028	0.00011087	0.00209654	0.00089894
0.55387375	0.71150214	0.01749123	0.00222745	0.00222692	0.00278399
0.37040609	0.82787792	0.00395291	0.00045344	0.00111579	0.0022955
0.1281883	0.03641768	0.00071332	0.00270907	0.00049944	0.00015812
0.20615182	0.92448407	0.00288253	0.00047967	0.00049501	0.00191731
0.53550613	0.03944188	0.00037035	0.00033141	0.00391193	0.00037443
0.25642921	0.31075772	0.00332443	0.0012498	0.0009354	0.00111245
0.83245767	0.067753	0.00334416	0.00171656	0.00444165	0.00046739
0.20481047	0.17345154	0.00274992	0.00206553	0.00109867	0.00094572
0.3123826	0.63984641	0.00530576	0.00095146	0.00034914	0.00067012

0.30043586	0.09539936	0.00288589	0.00264603	0.00220016	0.0007843
0.30021533	0.09538418	0.00244033	0.00217993	0.0018566	0.00066074
0.20499597	0.91524081	0.00319805	0.0005504	0.00054597	0.00210305
0.69572397	0.46071132	0.01942681	0.00305337	0.00283537	0.00196292
0.54398305	0.62684021	0.02045832	0.00308363	0.0029434	0.00333847
0.31236199	0.64191419	0.00529702	0.00094688	0.00034899	0.00067184
0.09832669	0.90234562	0.00216398	0.00068486	0.00029558	0.00219312
0.42795179	0.50700365	0.01187671	0.00234939	0.00114094	0.00132898
0.77111452	0.34640325	0.00127268	0.00013435	0.00015892	7.61E-05
0.10171796	0.91740248	0.00334887	0.00109356	0.00031836	0.00232193
0.22548906	0.56850472	0.01322482	0.00427645	0.00115852	0.00265265
0.92059095	0.90612825	0.02099881	0.00143283	0.00718188	0.00708302
0.057578	0.49444458	0.00063912	0.00046952	0.00040445	0.00280821
0.89571432	0.74797043	0.0045642	0.0002643	0.00045098	0.0003827
0.94251059	0.75438756	0.00652839	0.00038683	0.00067953	0.00055526
0.6669724	0.8942555	0.03427678	0.00362168	0.00486414	0.00629566
0.80606513	NA	0.01207291	0.00315347	0.00607084	0.0009174
NA	0.81654137	0.00629782	0.0009443	0.0009443	0.00629782
0.61151242	0.66548444	0.01992891	0.00254925	0.00229192	0.00247155
0.23849576	0.85552529	0.00309357	0.00049026	0.00149162	0.00465251
0.57527837	0.5220283	0.00817931	0.00111253	0.00479247	0.00439868
0.39342434	0.65372775	0.00016935	1.35E-05	0.00061295	0.00097049
0.83723022	0.07436546	0.0043191	0.00212338	0.00471433	0.00053806
0.73695162	0.29096409	0.00089763	0.00010937	0.00203536	0.0008827
0.11211098	0.57812729	0.00708414	0.00368404	0.0006709	0.00292805
0.38975459	0.46861455	0.00151432	0.00023347	0.00013774	0.00016315
0.3657868	0.27867638	0.000301	6.16E-05	0.000337	0.00026285
0.30631337	0.7347473	0.00171806	0.00022365	0.00038825	0.00085903
0.73285333	0.44459734	0.03372146	0.00604625	0.00575117	0.00369986
0.58840231	0.13247907	0.00115565	0.00037085	0.00033467	8.52E-05
0.48734536	0.04711858	0.00058819	0.0005193	0.00037567	4.38E-05
0.23202414	0.53958359	0.00289804	0.00070688	0.00026105	0.00056334
0.4718851	0.09198293	0.00429955	0.00291328	0.00223959	0.00051302
0.29000636	0.89927874	0.01961283	0.00371047	0.00182209	0.00498168
0.2064587	0.9086423	0.0061127	0.00119443	0.00091932	0.00346543
0.07586899	0.86553152	0.00231725	0.00097407	9.55E-05	0.0008823
0.76932016	0.46698932	0.00886767	0.00104471	0.00450368	0.00289345
0.11557414	0.41081616	0.00083238	0.00039892	0.00020041	0.00063707
0.51678514	0.24314297	0.00860988	0.00258513	0.00252865	0.00128722
0.58084468	0.02740711	0.00023568	0.00025758	0.00053716	3.24E-05
0.6989847	0.77707953	0.01305943	0.00116028	0.00223189	0.00245311

0.83593855	0.30152809	0.0090013	0.00146369	0.00268818	0.00107793
0.76682103	0.58768698	0.00912023	0.00088125	0.00262357	0.00206911
0.96983232	0.99605728	0.06403655	0.00539335	0.00653179	0.00668638
0.99958547	0.90057256	0.06209655	0.00550605	0.00670643	0.00611998
0.83938013	0.35791872	0.0179878	0.00293771	0.00671913	0.00316681
0.1614922	0.57099799	0.00993205	0.0040429	0.00087482	0.00271686
0.03098939	0.99331717	0.00603451	0.00587878	0.00030494	0.00683783
0.8668289	0.71224482	0.04134519	0.00448111	0.00438194	0.00368292
0.07593012	0.67713842	0.00366551	0.00207694	0.00026262	0.00190424
0.49742092	0.03395746	0.00053967	0.00062233	0.00049317	4.19E-05
0.88321422	0.7795597	0.03297257	0.00303248	0.00378338	0.00338702
0.15078263	0.80074439	0.00095893	0.00020019	9.60E-05	0.00044333
0.05002453	0.46000591	0.0004228	0.00035614	0.00010995	0.00083376
0.88385685	0.77156046	0.03480769	0.0032805	0.00409885	0.00363425
0.04204891	0.74921198	0.00373213	0.00328164	0.00025961	0.00348858
0.51293982	0.46994939	0.01620619	0.00313815	0.00338181	0.00312894
0.56455532	0.23484097	0.00511568	0.00131842	0.00133423	0.00060411
0.67890373	0.75210444	0.01175477	0.00107653	0.00308628	0.00338004
0.57286568	0.38516315	0.00660628	0.00113336	0.00105547	0.00073733
0.59503711	0.03970398	0.00097331	0.00089921	0.00076333	6.40E-05
0.80619012	0.54064474	0.02981569	0.00399675	0.0036626	0.00256795
0.49312716	0.26618738	0.00827751	0.00237094	0.00230564	0.00132706
0.50126964	0.04435922	0.00075218	0.00070761	0.00056476	6.11E-05
0.93542738	0.97141175	0.00400036	0.00017043	0.00156953	0.00162358
0.74463579	0.33997999	0.00843	0.001346	0.0059117	0.00295593
0.03773659	0.08203948	0.00030061	0.00149268	9.62E-05	0.00019646
0.84177725	0.32179839	0.0120192	0.0019553	0.00355407	0.00150686
0.45410867	0.50420585	0.01094702	0.00202631	0.00105313	0.00115729
0.10605789	0.89388149	0.00166541	0.00047473	0.00027965	0.00192517
0.84820199	0.84661038	0.01578574	0.00114345	0.004836	0.004828
0.69162806	0.18379911	0.00568842	0.00155444	0.00197588	0.00059852
0.64148179	0.98428039	0.01745629	0.00145673	0.00206549	0.0030253
0.43515397	0.49488837	0.00164473	0.00022122	0.00026834	0.00030181
0.98867425	0.55424646	0.03839896	0.00452221	0.00461121	0.00276059
0.46608499	0.23992538	0.00114239	0.00026319	0.00115374	0.00063305
0.20416948	0.97050229	0.02239696	0.00558162	0.00163927	0.00653782
0.67344302	0.19082003	0.0057781	0.00156849	0.00193792	0.00062202
0.4703207	0.65230036	0.01161979	0.00167779	0.00088333	0.00118648
0.88064115	0.0573523	0.00396551	0.00231461	0.00216217	0.00018184
0.31608904	0.10636141	0.00087056	0.0005749	0.00155711	0.00058254
0.61118867	0.14797607	0.00102272	0.00028103	0.00027697	7.52E-05

0.5801068	0.60638655	0.01347727	0.00178244	0.00116264	0.00120996
0.47929682	0.33700785	0.00802246	0.00189665	0.00155417	0.00113229
0.57436595	0.14511303	0.00108743	0.00032512	0.00034517	9.77E-05
0.32071862	0.37760367	0.01313082	0.00445784	0.00225421	0.00260758
0.29121131	0.58318418	0.00671295	0.00146226	0.00081125	0.00151681
0.47889206	0.09149762	0.00438582	0.00295712	0.00227204	0.0005112
0.19347837	0.1796078	0.00324184	0.00255179	0.00075615	0.00070689
0.21192536	0.2767742	0.0038794	0.00197344	0.00118931	0.00151195
0.65958371	0.08285445	0.00440539	0.00244181	0.00240795	0.00037029
0.08454951	0.50320148	0.00146509	0.0008459	0.00015349	0.00078092
0.37681098	0.33042721	0.01336043	0.00444302	0.00300268	0.00267146
0.19020211	0.40374887	0.00106855	0.00034331	0.00016208	0.00032289
0.95585312	0.76991932	0.02621996	0.00212804	0.00474113	0.00391618
0.1620057	0.47388224	0.00110555	0.00035721	0.00012666	0.00033869
0.99826019	0.26204788	0.02251646	0.00439856	0.00571019	0.0017411
0.88739091	0.06592014	0.00457823	0.00240479	0.00501071	0.00048705
0.53456277	0.24936944	0.00747978	0.0020695	0.00159806	0.00080401
0.09136152	0.88951615	0.00326647	0.00120272	0.00051934	0.00400615
0.11814098	0.54193355	0.00482907	0.00236305	0.00047252	0.00186902
0.38001911	0.48116558	0.01240644	0.00288658	0.00181549	0.00224202
0.52852318	0.70754901	0.00835853	0.0009373	0.00082338	0.0010715
0.16105482	NA	0.00126527	0.0007878	0.00126527	0.0007878
0.53821863	0.4272943	0.01375275	0.00267134	0.00255151	0.00207653
0.86901647	0.74254962	0.02565894	0.00232776	0.00463108	0.0040302
0.92005783	0.19133196	0.0007628	0.00010855	0.0004297	0.00010193
0.02922324	0.97976464	0.00530869	0.00539108	0.00026975	0.0063232
0.90535179	0.73572503	0.03139341	0.00293136	0.00616802	0.00513933
0.98866514	0.96671028	0.07795454	0.00710959	0.00711033	0.00697188
0.06592167	0.27076515	0.00257024	0.00352522	0.00049333	0.00176638
0.29041212	0.71748817	0.01834664	0.00416494	0.00186833	0.00417816
0.28779091	0.71198407	0.0179978	0.00412762	0.00184855	0.00413947
0.13969428	0.3448399	0.00318263	0.00186552	0.00043665	0.00099052
0.33479743	0.51744958	0.01443811	0.00364784	0.00178151	0.00262844
0.47233983	0.1071354	0.00303836	0.00169064	0.00283542	0.00074832
0.30325796	0.9645262	0.00698673	0.00094057	0.0014474	0.00406126
0.52097295	0.59816807	0.01180249	0.0016865	0.00253026	0.00286154
0.32167637	0.049315	0.00342229	0.00544248	0.002622	0.00048428
0.21193571	0.9558939	0.00354638	0.00058053	0.00073099	0.00282757
0.9527695	0.13172523	0.00684699	0.00196379	0.00404814	0.00068742
0.33321091	0.15133775	0.00132442	0.00064531	0.00042903	0.00020863
0.635441	0.26471791	0.02239755	0.00644545	0.00520341	0.00239406

0.70375576	0.272795	0.01691748	0.00404963	0.00336398	0.00144316
0.32596514	0.05696838	0.00375903	0.00528062	0.00277434	0.00057786
0.56559457	0.42956261	0.00189194	0.0002336	0.00081628	0.00063626
0.71716403	0.46484106	0.00548024	0.0006227	0.00272878	0.00185285
0.70704962	0.48271549	0.00637638	0.0007322	0.00291736	0.00207584
0.3207961	0.68127016	0.00882983	0.00162508	0.0022119	0.00431897
0.23597401	0.05578528	0.00235191	0.00416845	0.00150628	0.00040861
0.22224212	0.66320094	0.01533772	0.0045329	0.00134017	0.00355796
0.96727178	0.80074682	0.03781107	0.00326264	0.00389824	0.0032971
0.12137668	0.39985468	0.00090182	0.00042879	0.00022392	0.00066362
0.18496238	0.99394711	0.01821549	0.00461093	0.00147663	0.00657361
0.96497895	0.20402525	0.0003844	4.43E-05	0.00126368	0.00030881
0.94838375	0.00039926	6.84E-06	0.0001617	0.00083402	6.13E-07
0.32846485	0.29641187	0.00722524	0.00262762	0.00162198	0.0014792
0.57605774	0.34887016	0.01705786	0.00392892	0.00410508	0.00263018
0.14861444	0.48399139	0.00507368	0.00225826	0.00099693	0.00287223
0.76779753	0.09531772	0.00213532	0.00080267	0.00323057	0.00049482
0.71585379	0.09531338	0.00208424	0.00083134	0.00330299	0.00053943
0.26079753	0.24323699	0.00479729	0.00236408	0.00126433	0.00118744
0.12325494	0.13538176	0.00043356	0.00049103	8.90E-05	9.70E-05
0.70059436	0.27390743	0.02475775	0.0065076	0.00566045	0.00246376
0.49937443	0.63596406	0.00026083	1.82E-05	4.12E-05	5.16E-05
0.05282492	0.54863126	0.00520939	0.00521717	0.00043938	0.00360468
0.08336396	0.16756484	0.00300181	0.00523427	0.00062091	0.00116708
0.25723601	0.90353254	0.00208027	0.0002721	0.00179414	0.00547571
0.99832413	0.86452768	0.06065515	0.00553652	0.0067061	0.00591055
0.48386193	0.3386902	0.01097065	0.00273803	0.00204722	0.00148717
0.50679381	0.66638211	0.01316793	0.00179634	0.00252913	0.00322657
0.7368355	0.01965718	0.00206282	0.00329546	0.00406494	0.0001538
0.98258719	0.99290435	0.06468219	0.00541941	0.00660705	0.00666783
0.08327007	0.17060207	0.00304519	0.00524303	0.0006219	0.0011892
0.51490067	0.14264938	0.00848112	0.00408911	0.00349999	0.00111054
0.88341575	0.25864261	0.00460228	0.00071075	0.00323623	0.00107794
0.767448	0.32593248	0.00094789	0.00010112	0.00014939	6.79E-05
0.41360376	0.02849915	0.00043304	0.00067226	0.00043894	3.75E-05
0.51605324	0.21613891	0.01108637	0.0039023	0.00303503	0.00139417
0.16369442	0.59587398	0.01369517	0.0056781	0.00116282	0.00368956
0.74514579	0.481098	0.01978323	0.0028278	0.00336108	0.00227698
0.2744526	0.2188096	0.00563024	0.00300042	0.00144765	0.00118077
0.69098101	0.62879655	0.00089438	5.67E-05	0.00028508	0.00026153
0.0217159	0.00382677	3.87E-05	0.00406901	0.00021506	4.34E-05

0.08314502	0.95989986	0.00510926	0.00207506	0.00052557	0.00471137
0.28787724	0.06788952	0.00023912	0.000217	0.0002179	5.76E-05
0.21837689	0.54283	0.00096751	0.00020571	0.0001494	0.00034392
0.64710432	0.29903571	0.00910882	0.00188218	0.0037256	0.00187331
0.16634506	0.61603996	0.00385494	0.00118714	0.00058344	0.00189948
0.58427305	0.10730606	0.00124517	0.00049303	0.00044275	9.37E-05
0.5260973	0.91296296	0.01075061	0.00101867	0.00115052	0.00188736
0.1803572	0.79731938	0.00626742	0.00156313	0.00121273	0.0045659
0.17398314	0.79660993	0.00580976	0.00147522	0.00110528	0.00430009
0.5802737	0.97918904	0.03564684	0.00397723	0.00340568	0.00540773
0.00044898	0.10112091	2.99E-06	0.00046373	2.18E-06	0.00033391
0.32516634	0.07036054	0.0002357	0.00018479	0.00020684	5.05E-05
0.26544294	0.90093673	0.01143515	0.00205604	0.00183918	0.00544403
0.30370414	0.89958138	0.01436071	0.0024169	0.00256327	0.00669478
0.28496302	0.63578458	0.00543247	0.00106952	0.00044573	0.00092274
0.88957389	0.4726403	0.01021757	0.0010788	0.00191005	0.00108229
0.89917998	0.43992464	0.00900463	0.00097595	0.00180642	0.00094977
0.62176096	0.03146154	0.00043565	0.00042721	0.0016891	0.0001119
0.18791707	0.57601502	0.00166185	0.00041972	0.00025981	0.00072024
0.85193529	0.75883425	0.04253255	0.00446473	0.0058614	0.0052941
0.77500993	0.47597408	0.02011302	0.00281459	0.00292441	0.00189293
0.73404505	0.40256028	0.01976419	0.0033535	0.00316778	0.00185391
0.26577198	NA	0.00086792	0.0003143	0.00086792	0.0003143
0.29621128	0.54150571	0.00813367	0.00194062	0.00085845	0.00147833
0.74011318	0.83857213	0.00688095	0.00046687	0.00399689	0.00446348
0.45271458	0.29344601	0.01799499	0.00604621	0.00311275	0.00211523
0.76769685	0.57004771	0.02984453	0.00398744	0.00588525	0.00452782
0.41489311	0.47459655	0.01983422	0.00482375	0.00307998	0.00347043
0.51227801	0.32544989	0.01490728	0.00392526	0.00245424	0.00163579
0.40548696	5.56E-05	7.98E-06	0.00245547	0.00120065	3.11E-07
0.34267913	0.29621512	0.00746886	0.00263455	0.00274587	0.00241154
0.56093727	0.75897931	0.01527564	0.00175528	0.00307232	0.00401706
0.98285477	0.81646179	0.03286892	0.00263541	0.00482824	0.00409868
0.87799486	0.31867337	0.01573718	0.00265025	0.0050487	0.00205304
0.09627631	0.30632598	0.00465899	0.00450816	0.00090721	0.00256344
0.84094031	0.88025565	0.04422344	0.00416875	0.00369188	0.00384435
0.16283931	0.47388224	0.00096518	0.00030382	0.00010765	0.00028687
0.16611671	0.48640812	0.00100127	0.00030396	0.00011049	0.00029606
0.70203409	0.19720599	0.0129698	0.00390117	0.00322741	0.00103558
0.51664677	0.94595525	0.01588543	0.00162876	0.00346557	0.00591138
0.75513772	0.72554527	0.04680936	0.00585589	0.00522014	0.0050395

0.34300824	0.02814412	0.00057584	0.00111064	0.00228265	0.00023757
0.76579926	0.0720082	0.00707969	0.00424721	0.00513912	0.00061925
0.65699169	0.043102	0.0038311	0.00371885	0.00296599	0.00025335
0.95907797	0.71216402	0.00370256	0.0002017	0.00418991	0.00321853
0.38819433	0.64621309	0.00277735	0.00035735	0.00015472	0.00024686
0.57185166	0.71409056	0.01439786	0.0016927	0.00281725	0.00343191
0.46936747	0.56347844	0.02641736	0.00532642	0.00348952	0.00410256
0.94635232	0.65639953	0.01831409	0.00157023	0.00195543	0.00140861
0.39123709	0.31946426	0.00214304	0.00049611	0.00138741	0.00115615
0.80762532	0.33365862	0.00115568	0.00011903	0.00012008	5.31E-05
0.924429	0.66109564	0.02570607	0.00244919	0.00323855	0.00240305
0.12137766	0.73996446	0.00350778	0.00119558	0.00025696	0.00132508
0.5616834	0.21123184	0.00010708	1.65E-05	2.48E-05	9.95E-06
0.8983703	0.92392491	0.05173297	0.00463451	0.0047648	0.00488414
0.28614037	0.14317955	0.00073859	0.00039775	0.00151821	0.00081352
0.12325494	0.13538176	0.00043996	0.00049923	9.05E-05	9.86E-05
0.12325494	0.13538176	0.00042609	0.00048146	8.72E-05	9.51E-05
0.09430598	0.20912522	0.00023109	0.00020707	0.00010929	0.00022711
0.1625256	0.48433936	0.00182785	0.00062659	0.00076731	0.00204944
0.60090119	0.71025924	0.01556282	0.00179254	0.00305823	0.00354754
0.95174732	0.99472991	0.06289922	0.00535895	0.00644455	0.00669905
0.95114538	0.99463608	0.06543069	0.00565529	0.00679675	0.0070682
0.8676802	0.2632727	0.00919838	0.0016416	0.00521489	0.00180744
0.1616043	0.55884818	0.00939692	0.00385211	0.00082257	0.00250681
0.07947102	0.13797098	0.00316039	0.00686895	0.00076176	0.00125325
0.44841159	0.44083019	0.00930497	0.00189512	0.00165094	0.00162588
0.63983884	0.62997857	0.01583516	0.00192791	0.00327163	0.00322683
0.94836496	0.5562506	0.0171513	0.00167418	0.00537834	0.00335622
0.66829922	0.37608324	0.01212386	0.00211313	0.00165786	0.00098842
0.92265332	0.37011613	5.19E-05	2.71E-06	0.00019471	8.40E-05
0.34876373	0.91185296	0.01549949	0.00232002	0.00219949	0.00515988
0.8730251	0.65005847	0.01491574	0.00131635	0.00402224	0.00309677
0.36239861	0.34126034	0.00447706	0.00119718	0.00154387	0.00146277
0.41506125	0.5512894	0.00564294	0.00090686	0.00065835	0.00085123
0.33627509	0.08377417	0.00534978	0.00551819	0.00261964	0.00075164
0.56569057	0.42935116	0.00189119	0.00023356	0.00082122	0.00063974
0.77350493	0.45342582	0.0255232	0.00397494	0.00498112	0.00310482
0.16775235	0.77045635	0.01389671	0.00451063	0.00108535	0.00423557
0.97374504	0.83353408	0.02002342	0.00138245	0.00549268	0.0047896
0.61403596	0.91100384	0.00304494	0.00019152	0.00134195	0.00191168
0.69648657	0.73894939	0.01801542	0.00182057	0.00406662	0.00428508

0.43258789	0.77225303	0.00108538	9.07E-05	4.52E-05	7.72E-05
0.86690202	0.67152866	0.01152761	0.00093357	0.00329301	0.00262404
0.83043535	0.19131652	0.0016102	0.00028502	0.00041088	0.00010705
0.6109901	0.43015013	0.00224685	0.00026636	0.00042971	0.00031203
0.8081162	0.62865804	0.03545779	0.00436093	0.00596132	0.00477898
0.68024774	0.90276567	0.01243151	0.00097699	0.00101473	0.00130936
0.44878721	0.52233671	0.00535994	0.00083397	0.00317055	0.00362755
0.4513107	0.52188791	0.00402951	0.00058971	0.00242264	0.00275748
0.27044928	0.11367791	0.00229073	0.00190114	0.00075745	0.00034456
0.56576194	0.07746593	7.94E-05	2.98E-05	0.00013315	2.11E-05
0.98530895	0.88721663	0.0482308	0.00403437	0.00545914	0.00497753
0.73223577	0.27741955	0.00469224	0.00080914	0.00115577	0.00048007
0.15258519	0.62528743	0.00244224	0.00073903	0.00044561	0.00159457
0.88061137	0.47900625	0.03385205	0.00484109	0.00588794	0.00343927
0.81264394	0.7701232	0.0307152	0.00301246	0.00359806	0.00343061
0.08075161	0.48763433	0.00434367	0.00321497	0.00068978	0.00346166
0.82863919	0.55901609	0.04567632	0.00657151	0.00649031	0.00459038
0.3802628	0.2917282	0.00360704	0.00102155	0.00088052	0.00069277
0.77387975	0.44947101	0.00748082	0.00087397	0.00200435	0.001231
0.63214592	0.2844684	0.00378269	0.00069846	0.00079969	0.00038728
0.72312169	0.06116795	0.00665922	0.00479867	0.00445861	0.00048597
0.94109188	NA	0.00386735	0.00076476	0.00577815	0.0007428
0.96635773	0.84946257	0.00724678	0.00038562	0.00578742	0.00516672
0.95870159	0.98281392	0.01635065	0.00093546	0.00209398	0.00214098
0.95668458	0.95805839	0.01333677	0.00074259	0.001663	0.00166514
0.16386782	0.83642818	0.0156844	0.00496743	0.00122922	0.00525199
0.02340956	0.63880323	0.00125634	0.00181648	7.13E-05	0.00145602
0.2354984	0.81146037	0.00423964	0.0007574	0.0008162	0.00247972
0.52494663	0.04956459	0.00271312	0.00268474	0.00182142	0.0002144
0.66523315	0.42737378	0.00480033	0.00061327	0.0011111	0.00074504
0.10989458	0.1688463	0.00292013	0.00394629	0.00083658	0.00123243
0.8801796	0.28706456	0.00882103	0.00142493	0.00304921	0.00111844
0.84646831	0.67683694	0.05332701	0.00668457	0.00674964	0.00554624
0.54434561	0.98737267	0.0310116	0.00349122	0.00437221	0.00738038
0.15163	0.87046424	0.00939737	0.00275056	0.00074469	0.00356756
0.54126889	0.59382077	0.01437219	0.00209255	0.00268185	0.00291238
0.51711406	0.6751926	0.01328823	0.00176329	0.00257455	0.00326389
0.94669861	0.28561295	0.01532763	0.00264429	0.00471524	0.00162319
0.95772243	0.29807024	0.02022224	0.00355837	0.00620712	0.00220735
0.95946216	0.2992992	0.02040592	0.00358001	0.00622873	0.00221972
0.86520831	0.21804651	0.00227859	0.00036656	0.00643288	0.00189557

0.8236366	0.99951547	0.05563224	0.00514187	0.00575883	0.00682501
0.47831349	0.09270694	0.00415796	0.00274816	0.00211927	0.00048248
0.47807528	0.09140327	0.00437537	0.00295602	0.0022662	0.00051017
0.51227801	0.33739436	0.02223593	0.00623727	0.00391415	0.00270156
0.40913294	0.7550565	0.00129846	0.00012032	8.17E-05	0.00014357
0.68696095	0.00901555	0.00111803	0.0034913	0.0055755	0.00011134
0.78120722	0.80617257	0.03739494	0.00386344	0.00616427	0.00633683
0.60380772	0.8234065	0.03464676	0.00431415	0.0038546	0.00506959
0.33288653	0.66680736	0.00216469	0.00029743	0.0015219	0.00283169
0.41609354	0.2800343	0.0128453	0.00449041	0.00349892	0.00246036
0.62179329	0.61432213	0.00316554	0.00028449	0.00031559	0.00031212
0.24079273	0.78127336	0.00103664	0.00014589	3.96E-05	0.00011746
0.94239477	0.28184728	0.01653387	0.00295133	0.00540115	0.00184907
0.93824425	0.28018731	0.0174161	0.00317733	0.00579959	0.00198528
0.94318965	0.28442863	0.01847309	0.00335821	0.00608019	0.00210134
0.94912289	0.29039164	0.02090534	0.00382674	0.00672286	0.0023579
0.96561686	0.32722503	0.01899616	0.00300691	0.0053857	0.00206173
0.57983218	0.71402656	0.01451984	0.00168957	0.00285267	0.0034322
0.85228749	0.18040083	0.00484706	0.00108174	0.00533141	0.00133815
0.74169983	0.1676348	0.01194903	0.0038825	0.00543548	0.00144768
0.78455692	0.3447851	0.00409517	0.00053021	0.00095749	0.00045443
0.88688956	0.12091285	0.00607526	0.00195863	0.00367412	0.0006146
0.0837715	0.1701716	0.00302691	0.00519093	0.00063354	0.00120202
0.08365672	0.16074471	0.00290402	0.0052105	0.00061734	0.00111424
0.06893375	0.61326939	0.0019812	0.001207	0.00017678	0.00128951
0.08664715	0.63498863	0.00362161	0.00192734	0.00035842	0.00216632
0.2002172	0.48887384	0.00267393	0.00080333	0.00131472	0.00292158
0.16234549	0.48433637	0.00216086	0.00076274	0.00093299	0.00248836
0.24432427	0.69636995	0.00131325	0.00021087	0.00186242	0.00472555
0.13652683	0.62058987	0.0017974	0.00057475	0.00012432	0.00049675
0.50172408	0.66435587	0.01433279	0.00201871	0.00279635	0.00358835
0.13371	0.61350398	0.0044632	0.0017247	0.00037449	0.00148694
0.08631612	0.6240118	0.00131232	0.00060145	0.00010356	0.00063221
0.19021941	0.47333954	0.00261399	0.00084355	0.00125552	0.00283885
0.24442604	0.69638703	0.00130667	0.00020955	0.00186311	0.00472565
0.86435459	0.24519083	0.00885725	0.00167681	0.00491197	0.00160113
0.20045777	0.77162803	0.01354533	0.00372927	0.0016835	0.00557557
0.53242211	0.55334474	0.02291977	0.00404909	0.0030746	0.0031817
0.32523413	0.01903312	0.00064588	0.00188378	0.00266742	0.00020458
0.32521835	0.20214669	0.00183965	0.00074325	0.00190102	0.00124065
0.20997539	0.24170581	0.0064709	0.00410789	0.001361	0.00154437

0.12592022	0.90631078	0.00826344	0.0026804	0.00062194	0.00365517
0.15029914	0.87052348	0.00924784	0.00271876	0.00072985	0.00352557
0.14545684	0.80625555	0.0055923	0.0016373	0.00044757	0.00209882
0.17322476	0.3530571	0.00287138	0.00133487	0.00047354	0.00090299
0.95187543	0.99169227	0.06263279	0.00534215	0.00642491	0.00665999
0.56321916	0.74159284	0.01960753	0.00244042	0.00406638	0.00518419
0.63422665	0.6615668	0.00046954	2.77E-05	2.30E-05	2.40E-05
0.77383887	0.3186262	0.00104416	0.00011472	0.00013593	6.00E-05
0.61414623	0.22306813	0.00127728	0.00024893	0.00288448	0.00116492
0.43273657	0.77047219	0.00147172	0.00012996	6.49E-05	0.00011051
0.71413451	0.29626599	0.00513924	0.00086986	0.00211087	0.00095767
0.54633666	0.92935838	0.01364913	0.00130252	0.00158917	0.00255552
0.7347376	0.98626335	0.03493525	0.00312305	0.00280961	0.00364916
0.81153104	0.35843627	0.00675509	0.00090741	0.00260757	0.0012544
0.68608658	0.68770736	0.00881263	0.00081055	0.00408861	0.00409716
0.88667605	0.71801453	0.0032769	0.00018575	0.00361326	0.00299612
0.63907822	0.98352238	0.02260474	0.0020278	0.00225453	0.00330929
0.55954379	0.92583989	0.00784003	0.00064532	0.0008105	0.00127655
0.73895471	0.27110314	0.0221265	0.00544476	0.00503712	0.00206802
0.43247944	0.10404413	0.00049864	0.00023285	0.00251948	0.00069996
0.28267925	0.63689109	0.00537198	0.00106126	0.00043359	0.00090577
0.64639275	0.04304263	0.00094185	0.00074696	0.00074962	6.27E-05
0.23845022	0.54107688	0.00807056	0.00233525	0.00174239	0.00361681
0.43019844	0.12969632	0.00078877	0.00032365	0.00311571	0.00106496
0.76734236	0.58542837	0.01199186	0.00123842	0.00369966	0.00290966
0.84447637	0.45440532	0.01019975	0.00116886	0.00214012	0.00122761
0.71426704	0.68776008	0.00932697	0.00083792	0.00421717	0.00407847
0.31754107	0.06949247	0.00127357	0.00130121	0.00065483	0.00016365
0.31744216	0.06915535	0.00133808	0.00138351	0.00069638	0.00017345
0.56985216	0.42921238	0.00308811	0.00041484	0.00144146	0.00111702
0.88666461	0.80014617	0.03216274	0.00285936	0.00489427	0.00447033
0.58215217	0.72820497	0.01671024	0.00197091	0.00170846	0.00208745
0.46696304	0.20656351	0.00282815	0.00086959	0.00070832	0.00033741
0.04239569	0.05363474	0.00027352	0.00177308	0.00017283	0.00021442
0.27280896	0.70729239	0.00609565	0.0011606	0.00154058	0.00360401
0.24890103	0.34196272	0.00844425	0.00357007	0.00145988	0.00194079
0.57114962	0.82144855	0.00012069	5.23E-06	7.43E-06	1.04E-05
0.8207566	0.18967062	0.00114523	0.00019497	0.00027841	7.24E-05
0.1789322	0.91553722	0.01949568	0.00555234	0.00145369	0.00620128

Supplementary Table 2. Enrichment scores across p-value thresholds and epigenetic features (some of those defined by the Roadmap Epigenomics Consortium (Roadmap Epigenomics Consortium et al., 2015) refers to DNase Hypersensitivity Sites. "Chromatin Marks" is based on chromatin marks assessed in relevant genomic regions; we limit our analyses to regions associated with transcriptional activity (see the "Chromatin Marks" column in corresponding worksheet). "Histone Marks" indicates that markers map to specific Roadmap Type column. Notation in the Roadmap Type column is taken directly from the Roadmap Consortium conventions. Binomial p-values are provided alongside q-values to account for multiple tests with correction. Derivation was based on all tests, but only those with 3 or more markers in the Marker Count column.

GWAS p-value	Roadmap EID	Marker Count	Enrichment S	Proportion	p-value	q-value
1.00E-05	E082	7	3.2476	0.0737	0.0015	0.2939
1.00E-05	E081	7	3.0431	0.0737	0.0022	0.2939
1.00E-05	E007	5	2.6031	0.0526	0.0129	0.5149
1.00E-05	E088	7	2.2289	0.0737	0.0136	0.5149
1.00E-05	E118	4	2.1409	0.0421	0.0399	0.7688
1.00E-05	E003	3	1.5673	0.0316	0.1258	0.7688
1.00E-05	E093	3	1.4691	0.0316	0.1486	0.7688
1.00E-05	E092	3	1.4570	0.0316	0.1517	0.7688
1.00E-04	E086	33	1.3221	0.0316	0.0468	0.7688
1.00E-05	E086	3	1.3196	0.0316	0.1935	0.7688
1.00E-04	E082	31	1.3100	0.0297	0.0567	0.7688
1.00E-04	E081	33	1.3067	0.0316	0.0533	0.7688
1.00E-05	E083	4	1.3005	0.0421	0.1950	0.7688
1.00E-04	E088	44	1.2761	0.0422	0.0457	0.7688
1.00E-04	E100	31	1.2618	0.0297	0.0826	0.7688
1.00E-05	E004	3	1.2489	0.0316	0.2201	0.7688
1.00E-04	E029	18	1.2394	0.0173	0.1469	0.7688
1.00E-04	E021	34	1.2133	0.0326	0.1099	0.7688
1.00E-04	E120	31	1.1935	0.0297	0.1371	0.7688
1.00E-05	E055	3	1.1887	0.0316	0.2461	0.7688
0.001	E124	206	1.1773	0.0221	0.0093	0.4954
1.00E-04	E089	34	1.1674	0.0326	0.1561	0.7688
1.00E-04	E007	24	1.1381	0.0230	0.2217	0.7688
1.00E-04	E017	23	1.1376	0.0221	0.2255	0.7688
1.00E-04	E125	28	1.1308	0.0268	0.2193	0.7688
1.00E-04	E128	27	1.1212	0.0259	0.2352	0.7688
1.00E-04	E005	18	1.1110	0.0173	0.2734	0.7688
1.00E-04	E097	24	1.0935	0.0230	0.2829	0.7688
0.001	E082	231	1.0928	0.0248	0.0824	0.7688
0.001	E046	168	1.0881	0.0180	0.1270	0.7688
1.00E-04	E055	30	1.0827	0.0288	0.2881	0.7688
1.00E-04	E121	34	1.0744	0.0326	0.2959	0.7688
0.001	E051	162	1.0652	0.0174	0.1962	0.7688
0.01	E033	1540	1.0617	0.0162	0.0091	0.4954

1.00E-04	E056	28	1.0583	0.0268	0.3343	0.8047
0.01	E032	2050	1.0545	0.0216	0.0077	0.4954
0.001	E032	201	1.0542	0.0216	0.2128	0.7688
0.01	E097	2092	1.0465	0.0220	0.0178	0.5897
1.00E-04	E090	34	1.0424	0.0326	0.3596	0.8286
0.01	E007	1997	1.0398	0.0210	0.0388	0.7688
1.00E-04	E091	31	1.0370	0.0297	0.3727	0.8442
1.00E-04	E083	35	1.0365	0.0336	0.3716	0.8442
0.01	E051	1606	1.0357	0.0169	0.0767	0.7688
0.001	E081	233	1.0328	0.0250	0.2945	0.7688
0.01	E034	1887	1.0321	0.0199	0.0815	0.7688
1.00E-04	E032	22	1.0307	0.0211	0.3877	0.8562
0.01	E046	1619	1.0285	0.0170	0.1250	0.7688
0.01	E086	2336	1.0276	0.0246	0.0899	0.7688
0.01	E114	1693	1.0224	0.0178	0.1751	0.7688
1.00E-04	E008	23	1.0218	0.0221	0.4039	0.8675
1.00E-04	E124	20	1.0210	0.0192	0.4040	0.8675
0.01	E089	2708	1.0209	0.0285	0.1358	0.7688
0.01	E082	2197	1.0194	0.0231	0.1784	0.7688
1.00E-04	E006	27	1.0182	0.0259	0.4116	0.8675
0.01	E119	2151	1.0178	0.0226	0.2003	0.7688
0.01	E081	2338	1.0165	0.0246	0.2085	0.7688
0.01	E100	2274	1.0163	0.0239	0.2142	0.7688
0.001	E100	223	1.0161	0.0239	0.3875	0.8562
0.01	E092	2091	1.0156	0.0220	0.2328	0.7688
0.01	E093	2070	1.0138	0.0218	0.2604	0.7688
0.001	E033	144	1.0121	0.0155	0.4203	0.8680
0.001	E050	189	1.0119	0.0203	0.4158	0.8675
0.01	E117	2213	1.0115	0.0233	0.2885	0.7688
0.001	E091	270	1.0111	0.0290	0.4111	0.8675
1.00E-05	E090	3	1.0098	0.0316	0.3461	0.8117
0.001	E029	131	1.0098	0.0141	0.4323	0.8745
0.01	E028	2238	1.0081	0.0236	0.3445	0.8117
0.01	E088	3165	1.0079	0.0333	0.3231	0.8003
0.01	E003	1929	1.0078	0.0203	0.3591	0.8286
0.01	E017	1853	1.0063	0.0195	0.3867	0.8562
0.001	E085	122	1.0050	0.0131	0.4539	0.8910
0.01	E008	2059	1.0043	0.0217	0.4157	0.8675
0.01	E123	2623	1.0043	0.0276	0.4069	0.8675
0.01	E094	1033	1.0032	0.0109	0.4510	0.8910
0.01	E090	2980	1.0032	0.0314	0.4259	0.8681
0.01	E083	3082	1.0021	0.0324	0.4479	0.8910
0.01	E050	1906	1.0009	0.0201	0.4780	0.9068

0.01	E109	1936	1.0008	0.0204	0.4791	0.9068
0.01	E022	2481	0.9999	0.0261	0.4973	0.9216
0.01	E006	2413	0.9992	0.0254	0.5112	0.9275
1.00E-04	E051	17	0.9985	0.0163	0.4384	0.8801
0.01	E098	1666	0.9973	0.0175	0.5376	0.9286
0.01	E126	2484	0.9971	0.0261	0.5540	0.9337
0.01	E056	2402	0.9968	0.0253	0.5574	0.9337
0.01	E122	1653	0.9957	0.0174	0.5645	0.9337
0.01	E124	1776	0.9955	0.0187	0.5697	0.9337
0.01	E118	1859	0.9951	0.0196	0.5789	0.9337
0.01	E055	2508	0.9938	0.0264	0.6184	0.9635
0.001	E088	306	0.9935	0.0328	0.5313	0.9286
0.01	E005	1465	0.9928	0.0154	0.6033	0.9609
0.001	E034	178	0.9926	0.0191	0.5199	0.9286
0.01	E120	2347	0.9921	0.0247	0.6463	0.9635
0.001	E017	179	0.9911	0.0192	0.5285	0.9286
0.001	E116	211	0.9902	0.0226	0.5396	0.9286
0.01	E021	2525	0.9894	0.0266	0.7030	0.9996
0.001	E122	161	0.9887	0.0173	0.5371	0.9286
0.01	E059	2668	0.9872	0.0281	0.7469	0.9996
0.001	E086	220	0.9867	0.0236	0.5621	0.9337
0.01	E091	2676	0.9829	0.0282	0.8144	0.9996
0.01	E116	2134	0.9822	0.0225	0.7956	0.9996
1.00E-04	E098	18	0.9814	0.0173	0.4700	0.9053
0.001	E021	245	0.9787	0.0263	0.6178	0.9635
0.01	E121	2820	0.9785	0.0297	0.8780	0.9996
0.01	E057	2793	0.9783	0.0294	0.8789	0.9996
1.00E-04	E059	29	0.9773	0.0278	0.5013	0.9225
0.01	E080	1914	0.9764	0.0201	0.8521	0.9996
1.00E-04	E080	21	0.9757	0.0201	0.4881	0.9109
1.00E-04	E118	20	0.9750	0.0192	0.4868	0.9109
0.001	E097	191	0.9742	0.0205	0.6252	0.9635
0.01	E004	2338	0.9734	0.0246	0.9057	0.9996
0.01	E125	2191	0.9716	0.0231	0.9127	0.9996
0.01	E084	1670	0.9710	0.0176	0.8854	0.9996
0.01	E029	1284	0.9708	0.0135	0.8548	0.9996
0.001	E118	177	0.9660	0.0190	0.6621	0.9801
0.01	E127	1961	0.9651	0.0206	0.9433	0.9996
0.01	E085	1190	0.9615	0.0125	0.9121	0.9996
0.001	E128	206	0.9577	0.0221	0.7213	0.9996
0.001	E080	184	0.9570	0.0197	0.7117	0.9996
0.01	E128	2092	0.9539	0.0220	0.9857	0.9996
1.00E-04	E003	20	0.9517	0.0192	0.5313	0.9286

0.001 E022	230	0.9450	0.0247	0.7976	0.9996
1.00E-04 E028	23	0.9436	0.0221	0.5586	0.9337
0.001 E114	152	0.9359	0.0163	0.7821	0.9996
0.001 E120	217	0.9352	0.0233	0.8328	0.9996
1.00E-04 E122	17	0.9326	0.0163	0.5536	0.9337
0.001 E117	200	0.9320	0.0215	0.8346	0.9996
1.00E-04 E092	21	0.9290	0.0201	0.5803	0.9337
0.001 E125	205	0.9268	0.0220	0.8574	0.9996
0.001 E005	132	0.9120	0.0142	0.8475	0.9996
0.001 E006	216	0.9119	0.0232	0.9114	0.9996
0.001 E055	225	0.9090	0.0241	0.9236	0.9996
1.00E-04 E050	19	0.9087	0.0182	0.6098	0.9619
0.001 E127	181	0.9082	0.0194	0.9000	0.9996
0.001 E090	264	0.9061	0.0283	0.9468	0.9996
0.001 E083	273	0.9050	0.0293	0.9520	0.9996
0.001 E126	221	0.9044	0.0237	0.9325	0.9996
0.001 E093	181	0.9038	0.0194	0.9116	0.9996
0.001 E098	147	0.8972	0.0158	0.9027	0.9996
1.00E-04 E127	20	0.8965	0.0192	0.6397	0.9635
0.001 E008	179	0.8902	0.0192	0.9400	0.9996
0.001 E028	193	0.8864	0.0207	0.9538	0.9996
0.001 E007	166	0.8812	0.0178	0.9485	0.9996
0.001 E094	89	0.8812	0.0096	0.8762	0.9996
1.00E-04 E114	16	0.8800	0.0153	0.6424	0.9635
0.001 E059	232	0.8752	0.0249	0.9804	0.9996
0.001 E089	227	0.8725	0.0244	0.9816	0.9996
1.00E-04 E004	23	0.8721	0.0221	0.7072	0.9996
0.001 E121	245	0.8667	0.0263	0.9889	0.9996
0.001 E057	241	0.8606	0.0259	0.9914	0.9996
0.001 E056	203	0.8589	0.0218	0.9863	0.9996
0.001 E004	201	0.8532	0.0216	0.9891	0.9996
0.001 E109	158	0.8328	0.0170	0.9905	0.9996
0.001 E084	140	0.8300	0.0150	0.9875	0.9996
0.001 E092	164	0.8121	0.0176	0.9969	0.9996
0.001 E003	152	0.8097	0.0163	0.9962	0.9996
1.00E-04 E085	11	0.8095	0.0105	0.7054	0.9996
0.001 E123	207	0.8081	0.0222	0.9993	0.9996
0.001 E119	167	0.8057	0.0179	0.9980	0.9996
1.00E-04 E126	22	0.8043	0.0211	0.8259	0.9996
1.00E-04 E022	21	0.7708	0.0201	0.8697	0.9996
1.00E-04 E123	22	0.7672	0.0211	0.8817	0.9996
1.00E-04 E046	13	0.7521	0.0125	0.8194	0.9996
1.00E-04 E057	23	0.7337	0.0221	0.9275	0.9996

1.00E-04 E094	8	0.7076	0.0077	0.7955	0.9996
1.00E-04 E119	16	0.6895	0.0153	0.9261	0.9996
1.00E-04 E084	13	0.6884	0.0125	0.8992	0.9996
1.00E-04 E109	14	0.6592	0.0134	0.9368	0.9996
1.00E-04 E034	13	0.6476	0.0125	0.9377	0.9996
1.00E-04 E033	10	0.6279	0.0096	0.9217	0.9996
1.00E-04 E093	14	0.6245	0.0134	0.9616	0.9996
1.00E-04 E117	13	0.5412	0.0125	0.9901	0.9996
1.00E-04 E116	9	0.3773	0.0086	0.9996	0.9996

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ee separate worksheets). Features are
 al., 2015; Nature 518:317-330). "DHS"
 d across epigenomes and functionally
 y rather than repression (see Roadmap
 ific histone marks, noted in the
 nap Epigenomics Consortium
 :hin epigenetic feature. Q-value
 lumn are presented.

Roadmap Gr Roadmap Epi Anatomy

Brain	Fetal Brain Fe	BRAIN
Brain	Fetal Brain M	BRAIN
ES-deriv	H1 Derived N	ESC_DERIVED
Other	Fetal Lung	LUNG
ENCODE2012	HepG2 Hepat	LIVER
ESC	H1 Cells	ESC
Thymus	Fetal Thymus	THYMUS
Digestive	Fetal Stomach	GI_STOMACH
Other	Fetal Kidney	KIDNEY
Other	Fetal Kidney	KIDNEY
Brain	Fetal Brain Fe	BRAIN
Brain	Fetal Brain M	BRAIN
Heart	Fetal Heart	HEART
Other	Fetal Lung	LUNG
Muscle	Psoas Muscle	MUSCLE
ES-deriv	H1 BMP4 Der	ESC_DERIVED
HSC & B-cell	Primary mon	BLOOD
iPSC	iPS DF 6.9 Cel	IPSC
ENCODE2012	HSMM Skelet	MUSCLE
Epithelial	Foreskin Fibr	SKIN
ENCODE2012	Monocytes-C	BLOOD
Muscle	Fetal Muscle	MUSCLE
ES-deriv	H1 Derived N	ESC_DERIVED
IMR90	IMR90 fetal l	LUNG
ENCODE2012	NH-A Astrocy	BRAIN
ENCODE2012	NHLF Lung Fil	LUNG
ES-deriv	H1 BMP4 Der	ESC_DERIVED
Other	Ovary	OVARY
Brain	Fetal Brain Fe	BRAIN
HSC & B-cell	Primary Natu	BLOOD
Epithelial	Foreskin Fibr	SKIN
ENCODE2012	HSMM cell de	MUSCLE
HSC & B-cell	Primary hem	BLOOD
Blood & T-cel	Primary T cell	BLOOD

Epithelial Foreskin Fibro SKIN
 HSC & B-cell Primary B cell BLOOD
 HSC & B-cell Primary B cell BLOOD
 Other Ovary OVARY
 Muscle Fetal Muscle MUSCLE_LEG
 ES-deriv H1 Derived N ESC_DERIVED
 Other Placenta PLACENTA
 Heart Fetal Heart HEART
 HSC & B-cell Primary hemato BLOOD
 Brain Fetal Brain M BRAIN
 Blood & T-cell Primary T cell BLOOD
 HSC & B-cell Primary B cell BLOOD
 HSC & B-cell Primary Natu BLOOD
 Other Fetal Kidney KIDNEY
 ENCODE2012 A549 EtOH 0. LUNG
 ESC H9 Cells ESC
 ENCODE2012 Monocytes-C BLOOD
 Muscle Fetal Muscle MUSCLE
 Brain Fetal Brain Fe BRAIN
 ES-deriv H1 Derived M ESC_DERIVED
 ENCODE2012 HMEC Mammary BREAST
 Brain Fetal Brain M BRAIN
 Muscle Psoas Muscle MUSCLE
 Muscle Psoas Muscle MUSCLE
 Digestive Fetal Stomach GI_STOMACH
 Thymus Fetal Thymus THYMUS
 Blood & T-cell Primary T cell BLOOD
 HSC & B-cell Primary hemato BLOOD
 ENCODE2012 HeLa-S3 Cervix CERVIX
 Other Placenta PLACENTA
 Muscle Fetal Muscle MUSCLE_LEG
 HSC & B-cell Primary mono BLOOD
 Epithelial Breast varian BREAST
 Other Fetal Lung LUNG
 ESC H1 Cells ESC
 IMR90 IMR90 fetal LUNG
 Digestive Fetal Intestine GI_INTESTINE
 ESC H9 Cells ESC
 ENCODE2012 K562 Leukemia BLOOD
 Digestive Gastric GI_STOMACH
 Muscle Fetal Muscle MUSCLE_LEG
 Heart Fetal Heart HEART
 HSC & B-cell Primary hemato BLOOD

Digestive Small Intestin GI_INTESTINE
 iPSC iPS DF 19.11 (IPSC
 ES-deriv H1 Derived M ESC_DERIVED
 HSC & B-cell Primary hemæ BLOOD
 Other Pancreas PANCREAS
 ENCODE2012 NHDF-Ad Adæ SKIN
 Epithelial Foreskin Fibræ SKIN
 ENCODE2012 HUVEC Umbil VASCULAR
 ENCODE2012 Monocytes-C BLOOD
 ENCODE2012 HepG2 Hepat LIVER
 Epithelial Foreskin Fibræ SKIN
 Other Fetal Lung LUNG
 ES-deriv H1 BMP4 Der ESC_DERIVED
 Blood & T-cel Primary T cell BLOOD
 ENCODE2012 HSMM Skelet MUSCLE
 IMR90 IMR90 fetal læ LUNG
 ENCODE2012 GM12878 Lyr BLOOD
 iPSC iPS DF 6.9 Cel IPSC
 ENCODE2012 HUVEC Umbil VASCULAR
 Epithelial Foreskin Melæ SKIN
 Other Fetal Kidney KIDNEY
 Other Placenta PLACENTA
 ENCODE2012 GM12878 Lyr BLOOD
 Other Pancreas PANCREAS
 iPSC iPS DF 6.9 Cel IPSC
 ENCODE2012 HSMM cell dæ MUSCLE
 Epithelial Foreskin Kera SKIN
 Epithelial Foreskin Melæ SKIN
 Other Fetal Adrenal ADRENAL
 Other Fetal Adrenal ADRENAL
 ENCODE2012 HepG2 Hepat LIVER
 Other Ovary OVARY
 ES-deriv H1 BMP4 Der ESC_DERIVED
 ENCODE2012 NH-A Astrocy BRAIN
 Digestive Fetal Intestin GI_INTESTINE
 HSC & B-cell Primary monæ BLOOD
 ENCODE2012 HepG2 Hepat LIVER
 ENCODE2012 NHEK-Epiderr SKIN
 Digestive Fetal Intestin GI_INTESTINE
 ENCODE2012 NHLF Lung Fil LUNG
 Other Fetal Adrenal ADRENAL
 ENCODE2012 NHLF Lung Fil LUNG
 ESC H1 Cells ESC

iPSC iPS DF 19.11 (IPSC
 Epithelial Breast varian BREAST
 ENCODE2012 A549 EtOH 0. LUNG
 ENCODE2012 HSMM Skelet MUSCLE
 ENCODE2012 HUVEC Umbil VASCULAR
 ENCODE2012 HeLa-S3 Cervi CERVIX
 Digestive Fetal Stomach GI_STOMACH
 ENCODE2012 NH-A Astrocy BRAIN
 ES-deriv H1 BMP4 Der ESC_DERIVED
 ES-deriv H1 Derived N ESC_DERIVED
 Epithelial Foreskin Fibr SKIN
 HSC & B-cell Primary hem BLOOD
 ENCODE2012 NHEK-Epiderr SKIN
 Muscle Fetal Muscle MUSCLE_LEG
 Heart Fetal Heart HEART
 ENCODE2012 NHDF-Ad Ad SKIN
 Thymus Fetal Thymus THYMUS
 Other Pancreas PANCREAS
 ENCODE2012 NHEK-Epiderr SKIN
 ESC H9 Cells ESC
 Epithelial Breast varian BREAST
 ES-deriv H1 Derived N ESC_DERIVED
 Digestive Gastric GI_STOMACH
 ENCODE2012 A549 EtOH 0. LUNG
 Epithelial Foreskin Mel SKIN
 Muscle Fetal Muscle MUSCLE
 ES-deriv H1 BMP4 Der ESC_DERIVED
 ENCODE2012 HSMM cell de MUSCLE
 Epithelial Foreskin Kera SKIN
 Epithelial Foreskin Fibr SKIN
 ES-deriv H1 BMP4 Der ESC_DERIVED
 Digestive Small Intestin GI_INTESTINE
 Digestive Fetal Intestin GI_INTESTINE
 Digestive Fetal Stomach GI_STOMACH
 ESC H1 Cells ESC
 Digestive Fetal Intestin GI_INTESTINE
 ENCODE2012 K562 Leukem BLOOD
 ENCODE2012 HMEC Mamr BREAST
 ENCODE2012 NHDF-Ad Ad SKIN
 iPSC iPS DF 19.11 (IPSC
 ENCODE2012 K562 Leukem BLOOD
 HSC & B-cell Primary Natu BLOOD
 Epithelial Foreskin Kera SKIN

Digestive Gastric GI_STOMACH
ENCODE2012 HMEC Mamr BREAST
Digestive Fetal Intestin GI_INTESTINE
Digestive Small Intestin GI_INTESTINE
Blood & T-cel Primary T cell BLOOD
Blood & T-cel Primary T cell BLOOD
Thymus Fetal Thymus THYMUS
ENCODE2012 HeLa-S3 Cervi CERVIX
ENCODE2012 GM12878 Lyr BLOOD

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GWAS p-value	Roadmap EID	Roadmap Ty	Marker Coun	Enrichment S	Proportion	p-value
1.00E-04	E097	10_TssBiv	3	21.9606	0.0029	0.0000
1.00E-04	E005	10_TssBiv	5	14.1634	0.0048	0.0000
1.00E-04	E033	12_EnhBiv	7	13.8871	0.0067	0.0000
1.00E-04	E035	10_TssBiv	3	13.3484	0.0029	0.0001
1.00E-04	E071	12_EnhBiv	11	11.6911	0.0105	0.0000
1.00E-04	E049	3_TxFlnk	7	11.1549	0.0067	0.0000
1.00E-04	E023	10_TssBiv	5	10.2585	0.0048	0.0000
1.00E-04	E052	10_TssBiv	5	9.4970	0.0048	0.0000
1.00E-04	E062	12_EnhBiv	6	8.9347	0.0058	0.0000
1.00E-04	E069	12_EnhBiv	6	8.6710	0.0058	0.0000
1.00E-04	E030	6_EnhG	24	8.0906	0.0230	0.0000
1.00E-04	E035	12_EnhBiv	8	7.8378	0.0077	0.0000
1.00E-04	E047	12_EnhBiv	8	7.5522	0.0077	0.0000
1.00E-05	E089	6_EnhG	5	7.3614	0.0526	0.0001
1.00E-04	E054	10_TssBiv	3	7.0750	0.0029	0.0010
1.00E-04	E129	10_TssBiv	5	6.9443	0.0048	0.0001
1.00E-04	E120	10_TssBiv	5	6.8682	0.0048	0.0001
1.00E-05	E090	12_EnhBiv	4	6.1864	0.0421	0.0005
1.00E-04	E031	12_EnhBiv	6	6.1212	0.0058	0.0001
1.00E-05	E090	6_EnhG	5	5.9842	0.0526	0.0002
1.00E-04	E050	12_EnhBiv	13	5.8457	0.0125	0.0000
0.001	E004	11_BivFlnk	3	5.7927	0.0003	0.0020
1.00E-04	E121	10_TssBiv	3	5.7007	0.0029	0.0021
1.00E-04	E125	10_TssBiv	3	5.5437	0.0029	0.0023
1.00E-04	E090	10_TssBiv	4	5.3480	0.0038	0.0010
1.00E-04	E067	10_TssBiv	3	5.0829	0.0029	0.0032
1.00E-04	E024	10_TssBiv	3	4.9424	0.0029	0.0035
0.001	E097	10_TssBiv	6	4.9168	0.0006	0.0003
1.00E-04	E017	10_TssBiv	3	4.7180	0.0029	0.0041
1.00E-05	E027	6_EnhG	3	4.5883	0.0316	0.0043
1.00E-04	E068	10_TssBiv	3	4.5753	0.0029	0.0046
1.00E-04	E032	12_EnhBiv	13	4.5746	0.0125	0.0000
1.00E-05	E082	7_Enh	7	4.5066	0.0737	0.0002
1.00E-05	E080	12_EnhBiv	3	4.5011	0.0316	0.0046
1.00E-04	E041	12_EnhBiv	8	4.4652	0.0077	0.0001
1.00E-04	E051	12_EnhBiv	10	4.4632	0.0096	0.0000
1.00E-04	E011	3_TxFlnk	5	4.4597	0.0048	0.0011
1.00E-04	E124	12_EnhBiv	7	4.4362	0.0067	0.0002
1.00E-04	E049	6_EnhG	20	4.3662	0.0192	0.0000
1.00E-04	E125	12_EnhBiv	3	4.1558	0.0029	0.0064
1.00E-04	E124	6_EnhG	13	4.1221	0.0125	0.0000
1.00E-04	E009	10_TssBiv	3	4.0665	0.0029	0.0069

1.00E-04	E111	6_EnhG	17	4.0433	0.0163	0.0000
1.00E-04	E106	2_TssAFlnk	3	3.9804	0.0029	0.0074
1.00E-04	E021	10_TssBiv	5	3.9111	0.0048	0.0020
1.00E-04	E108	10_TssBiv	3	3.8760	0.0029	0.0081
1.00E-04	E046	12_EnhBiv	10	3.8506	0.0096	0.0001
1.00E-04	E054	12_EnhBiv	3	3.7090	0.0029	0.0094
1.00E-04	E069	10_TssBiv	4	3.6328	0.0038	0.0054
1.00E-04	E017	12_EnhBiv	8	3.5014	0.0077	0.0006
1.00E-04	E029	12_EnhBiv	9	3.4946	0.0086	0.0003
0.001	E114	12_EnhBiv	8	3.4529	0.0009	0.0007
1.00E-04	E028	12_EnhBiv	3	3.4302	0.0029	0.0122
1.00E-04	E072	10_TssBiv	3	3.4019	0.0029	0.0125
1.00E-04	E027	12_EnhBiv	5	3.3952	0.0048	0.0040
1.00E-04	E100	10_TssBiv	3	3.3463	0.0029	0.0132
0.01	E094	11_BivFlnk	5	3.3413	0.0001	0.0044
1.00E-04	E002	10_TssBiv	5	3.3373	0.0048	0.0044
1.00E-04	E073	10_TssBiv	3	3.1719	0.0029	0.0158
1.00E-04	E113	12_EnhBiv	3	3.1512	0.0029	0.0161
1.00E-04	E012	11_BivFlnk	3	3.1135	0.0029	0.0168
1.00E-04	E108	6_EnhG	14	3.0527	0.0134	0.0001
0.01	E104	11_BivFlnk	3	2.9858	0.0000	0.0193
0.001	E119	10_TssBiv	4	2.9808	0.0004	0.0121
1.00E-05	E081	7_Enh	9	2.9695	0.0947	0.0009
1.00E-05	E101	7_Enh	4	2.9509	0.0421	0.0119
1.00E-04	E011	6_EnhG	7	2.8828	0.0067	0.0035
1.00E-05	E070	7_Enh	6	2.8709	0.0632	0.0051
1.00E-04	E025	10_TssBiv	3	2.8673	0.0029	0.0219
0.001	E071	12_EnhBiv	24	2.8555	0.0026	0.0000
0.01	E098	11_BivFlnk	3	2.7789	0.0000	0.0243
1.00E-04	E099	12_EnhBiv	3	2.6845	0.0029	0.0270
1.00E-04	E008	10_TssBiv	5	2.6788	0.0048	0.0121
1.00E-04	E066	6_EnhG	12	2.6575	0.0115	0.0008
1.00E-04	E029	6_EnhG	9	2.6172	0.0086	0.0029
0.01	E097	11_BivFlnk	25	2.6046	0.0003	0.0000
1.00E-05	E103	7_Enh	5	2.5957	0.0526	0.0130
1.00E-04	E034	12_EnhBiv	14	2.5847	0.0134	0.0005
1.00E-04	E022	11_BivFlnk	4	2.5834	0.0038	0.0209
0.001	E013	11_BivFlnk	4	2.5797	0.0004	0.0210
1.00E-04	E122	6_EnhG	8	2.5753	0.0077	0.0047
1.00E-04	E004	10_TssBiv	3	2.5598	0.0029	0.0313
0.001	E105	10_TssBiv	7	2.5543	0.0008	0.0072
0.001	E023	10_TssBiv	11	2.5265	0.0012	0.0018
1.00E-04	E120	2_TssAFlnk	10	2.5205	0.0096	0.0026

1.00E-04	E061	12_EnhBiv	4	2.5098	0.0038	0.0232
1.00E-04	E013	10_TssBiv	3	2.5093	0.0029	0.0333
1.00E-05	E002	7_Enh	3	2.4679	0.0316	0.0341
0.001	E017	10_TssBiv	14	2.4648	0.0015	0.0008
0.001	E033	12_EnhBiv	11	2.4429	0.0012	0.0024
0.001	E021	6_EnhG	10	2.3942	0.0011	0.0039
1.00E-04	E088	6_EnhG	5	2.3797	0.0048	0.0204
1.00E-05	E079	7_Enh	4	2.3541	0.0421	0.0282
1.00E-04	E083	12_EnhBiv	3	2.3512	0.0029	0.0406
1.00E-05	E111	7_Enh	4	2.3264	0.0421	0.0295
0.01	E094	12_EnhBiv	6	2.3196	0.0001	0.0167
1.00E-04	E056	6_EnhG	17	2.3065	0.0163	0.0006
1.00E-04	E030	12_EnhBiv	3	2.3054	0.0029	0.0431
1.00E-04	E099	2_TssAFlnk	3	2.3046	0.0029	0.0432
1.00E-04	E113	6_EnhG	15	2.2994	0.0144	0.0012
0.001	E072	3_TxFlnk	4	2.2888	0.0004	0.0327
1.00E-04	E020	6_EnhG	3	2.2585	0.0029	0.0459
1.00E-04	E092	2_TssAFlnk	5	2.2462	0.0048	0.0260
1.00E-04	E013	6_EnhG	10	2.2022	0.0096	0.0070
1.00E-05	E089	12_EnhBiv	3	2.2003	0.0316	0.0484
0.001	E114	11_BivFlnk	4	2.1840	0.0004	0.0387
0.01	E097	10_TssBiv	27	2.1701	0.0003	0.0001
0.001	E079	11_BivFlnk	6	2.1662	0.0006	0.0232
0.001	E074	12_EnhBiv	8	2.1654	0.0009	0.0136
0.001	E122	6_EnhG	59	2.1262	0.0063	0.0000
1.00E-04	E067	2_TssAFlnk	7	2.1022	0.0067	0.0205
1.00E-04	E050	6_EnhG	7	2.0975	0.0067	0.0208
1.00E-05	E122	7_Enh	6	2.0945	0.0632	0.0251
1.00E-04	E022	6_EnhG	18	2.0815	0.0173	0.0015
0.01	E117	11_BivFlnk	7	2.0790	0.0001	0.0219
0.001	E099	6_EnhG	16	2.0730	0.0017	0.0026
1.00E-04	E073	2_TssAFlnk	7	2.0380	0.0067	0.0241
1.00E-04	E086	7_Enh	35	2.0331	0.0336	0.0000
1.00E-05	E052	7_Enh	7	2.0300	0.0737	0.0224
0.001	E103	12_EnhBiv	3	2.0152	0.0003	0.0642
1.00E-04	E061	11_BivFlnk	3	2.0144	0.0029	0.0642
1.00E-04	E095	6_EnhG	9	2.0137	0.0086	0.0162
1.00E-04	E110	2_TssAFlnk	4	2.0106	0.0038	0.0515
1.00E-04	E089	12_EnhBiv	30	2.0041	0.0288	0.0002
1.00E-04	E105	7_Enh	50	2.0037	0.0479	0.0000
1.00E-04	E091	12_EnhBiv	9	2.0037	0.0086	0.0167
0.001	E062	12_EnhBiv	12	2.0004	0.0013	0.0088
0.001	E120	10_TssBiv	13	1.9991	0.0014	0.0071

1.00E-05	E055	7_Enh	6	1.9772	0.0632	0.0328
1.00E-04	E080	2_TssAFlnk	7	1.9762	0.0067	0.0282
1.00E-04	E036	12_EnhBiv	3	1.9589	0.0029	0.0695
1.00E-04	E080	6_EnhG	15	1.9482	0.0144	0.0057
0.001	E069	12_EnhBiv	12	1.9414	0.0013	0.0110
0.001	E007	2_TssAFlnk	13	1.9406	0.0014	0.0090
1.00E-04	E091	6_EnhG	10	1.9397	0.0096	0.0165
1.00E-04	E108	12_EnhBiv	4	1.9278	0.0038	0.0595
0.001	E100	12_EnhBiv	4	1.9202	0.0004	0.0604
1.00E-04	E092	6_EnhG	13	1.9160	0.0125	0.0098
0.001	E105	3_TxFlnk	4	1.9125	0.0004	0.0613
1.00E-04	E071	6_EnhG	6	1.9124	0.0058	0.0407
1.00E-04	E058	11_BivFlnk	3	1.9116	0.0029	0.0745
1.00E-04	E111	12_EnhBiv	3	1.9110	0.0029	0.0746
1.00E-04	E056	11_BivFlnk	4	1.9049	0.0038	0.0619
0.001	E005	10_TssBiv	6	1.9026	0.0006	0.0418
0.001	E097	6_EnhG	23	1.8952	0.0025	0.0017
0.01	E004	11_BivFlnk	10	1.8939	0.0001	0.0195
0.01	E066	11_BivFlnk	31	1.8784	0.0003	0.0005
1.00E-05	E120	7_Enh	5	1.8762	0.0526	0.0514
1.00E-04	E117	6_EnhG	4	1.8675	0.0038	0.0662
1.00E-04	E056	7_Enh	39	1.8664	0.0374	0.0001
0.01	E117	10_TssBiv	14	1.8658	0.0001	0.0103
0.001	E035	12_EnhBiv	17	1.8645	0.0018	0.0060
0.001	E125	10_TssBiv	9	1.8618	0.0010	0.0262
0.01	E053	10_TssBiv	41	1.8611	0.0004	0.0001
0.001	E125	12_EnhBiv	12	1.8609	0.0013	0.0151
0.001	E066	11_BivFlnk	3	1.8534	0.0003	0.0814
1.00E-04	E003	11_BivFlnk	3	1.8370	0.0029	0.0833
1.00E-04	E083	2_TssAFlnk	7	1.8355	0.0067	0.0405
1.00E-05	E108	7_Enh	6	1.8272	0.0632	0.0468
1.00E-05	E063	7_Enh	6	1.8187	0.0632	0.0478
1.00E-04	E087	7_Enh	25	1.8175	0.0240	0.0019
1.00E-04	E005	6_EnhG	10	1.8150	0.0096	0.0252
1.00E-05	E022	7_Enh	5	1.8124	0.0526	0.0588
1.00E-04	E104	2_TssAFlnk	3	1.8124	0.0029	0.0865
0.01	E079	11_BivFlnk	51	1.8060	0.0005	0.0000
0.001	E054	12_EnhBiv	13	1.7992	0.0014	0.0163
1.00E-05	E078	7_Enh	3	1.7952	0.0316	0.0872
0.001	E065	2_TssAFlnk	6	1.7851	0.0006	0.0551
0.001	E106	2_TssAFlnk	12	1.7824	0.0013	0.0206
1.00E-04	E078	6_EnhG	3	1.7787	0.0029	0.0910
1.00E-04	E104	7_Enh	48	1.7747	0.0460	0.0001

1.00E-04	E019	10_TssBiv	6	1.7618	0.0058	0.0579
1.00E-04	E073	6_EnhG	4	1.7591	0.0038	0.0805
0.001	E066	3_TxFlnk	4	1.7575	0.0004	0.0809
0.001	E021	10_TssBiv	20	1.7513	0.0021	0.0069
1.00E-04	E084	6_EnhG	7	1.7501	0.0067	0.0508
0.01	E041	10_TssBiv	35	1.7483	0.0004	0.0008
1.00E-05	E102	7_Enh	4	1.7451	0.0421	0.0804
1.00E-05	E076	7_Enh	5	1.7430	0.0526	0.0682
1.00E-04	E067	6_EnhG	3	1.7362	0.0029	0.0972
1.00E-04	E061	7_Enh	66	1.7354	0.0633	0.0000
1.00E-04	E091	2_TssAFlnk	6	1.7269	0.0058	0.0630
0.01	E104	10_TssBiv	8	1.7245	0.0001	0.0470
1.00E-04	E011	10_TssBiv	3	1.7196	0.0029	0.0998
1.00E-04	E076	2_TssAFlnk	7	1.7062	0.0067	0.0571
0.001	E121	10_TssBiv	8	1.7018	0.0009	0.0503
0.001	E052	10_TssBiv	8	1.7010	0.0009	0.0504
0.01	E097	3_TxFlnk	9	1.7010	0.0001	0.0436
1.00E-04	E072	6_EnhG	5	1.6992	0.0048	0.0779
0.001	E030	6_EnhG	45	1.6982	0.0048	0.0004
0.001	E125	3_TxFlnk	6	1.6868	0.0006	0.0697
1.00E-05	E088	7_Enh	6	1.6804	0.0632	0.0671
0.001	E033	11_BivFlnk	9	1.6734	0.0010	0.0477
0.01	E128	11_BivFlnk	23	1.6681	0.0002	0.0079
0.01	E040	11_BivFlnk	34	1.6671	0.0004	0.0020
1.00E-04	E063	12_EnhBiv	3	1.6610	0.0029	0.1095
1.00E-04	E103	2_TssAFlnk	7	1.6486	0.0067	0.0668
0.01	E031	11_BivFlnk	78	1.6406	0.0008	0.0000
1.00E-04	E090	2_TssAFlnk	6	1.6395	0.0058	0.0779
0.001	E012	11_BivFlnk	14	1.6266	0.0015	0.0300
0.001	E083	6_EnhG	18	1.6248	0.0019	0.0188
0.001	E117	6_EnhG	31	1.6202	0.0033	0.0044
1.00E-04	E066	7_Enh	58	1.6192	0.0556	0.0002
0.001	E005	11_BivFlnk	12	1.6158	0.0013	0.0400
1.00E-04	E080	7_Enh	60	1.6156	0.0575	0.0002
0.01	E046	11_BivFlnk	86	1.6127	0.0009	0.0000
1.00E-04	E092	12_EnhBiv	10	1.6117	0.0096	0.0511
0.001	E071	11_BivFlnk	13	1.6100	0.0014	0.0364
1.00E-04	E089	6_EnhG	12	1.6092	0.0115	0.0405
1.00E-04	E034	6_EnhG	12	1.5980	0.0115	0.0424
1.00E-04	E051	11_BivFlnk	4	1.5971	0.0038	0.1092
1.00E-04	E115	7_Enh	31	1.5963	0.0297	0.0050
1.00E-04	E014	10_TssBiv	5	1.5919	0.0048	0.0985
1.00E-04	E111	7_Enh	30	1.5893	0.0288	0.0060

0.001	E047	12_EnhBiv	15	1.5852	0.0016	0.0324
0.001	E091	6_EnhG	73	1.5851	0.0078	0.0001
1.00E-04	E074	2_TssAFlnk	6	1.5842	0.0058	0.0893
0.001	E054	10_TssBiv	6	1.5840	0.0006	0.0897
0.01	E035	3_TxFlnk	14	1.5781	0.0001	0.0374
1.00E-04	E043	6_EnhG	9	1.5643	0.0086	0.0674
0.001	E105	11_BivFlnk	5	1.5632	0.0005	0.1052
0.01	E120	11_BivFlnk	16	1.5625	0.0002	0.0326
1.00E-04	E107	6_EnhG	8	1.5617	0.0077	0.0759
0.01	E007	10_TssBiv	70	1.5596	0.0007	0.0002
0.001	E128	10_TssBiv	8	1.5554	0.0009	0.0778
0.01	E038	3_TxFlnk	46	1.5553	0.0005	0.0019
1.00E-04	E044	2_TssAFlnk	11	1.5533	0.0105	0.0565
0.01	E077	3_TxFlnk	64	1.5532	0.0007	0.0004
1.00E-04	E070	2_TssAFlnk	7	1.5510	0.0067	0.0872
1.00E-04	E090	12_EnhBiv	11	1.5496	0.0105	0.0573
1.00E-04	E053	2_TssAFlnk	8	1.5457	0.0077	0.0797
1.00E-04	E101	7_Enh	23	1.5455	0.0221	0.0172
1.00E-04	E105	6_EnhG	6	1.5448	0.0058	0.0985
0.01	E043	3_TxFlnk	44	1.5446	0.0005	0.0026
0.001	E073	12_EnhBiv	7	1.5385	0.0008	0.0907
1.00E-05	E058	7_Enh	5	1.5352	0.0526	0.1084
1.00E-04	E027	6_EnhG	11	1.5324	0.0105	0.0612
1.00E-04	E001	10_TssBiv	6	1.5278	0.0058	0.1028
0.01	E069	3_TxFlnk	24	1.5264	0.0003	0.0186
0.01	E122	11_BivFlnk	76	1.5235	0.0008	0.0002
0.001	E072	10_TssBiv	12	1.5233	0.0013	0.0580
1.00E-04	E051	6_EnhG	6	1.5197	0.0058	0.1050
0.01	E059	11_BivFlnk	159	1.5196	0.0017	0.0000
0.001	E129	6_EnhG	59	1.5186	0.0063	0.0010
0.001	E097	12_EnhBiv	3	1.5181	0.0003	0.1386
0.01	E063	3_TxFlnk	44	1.5129	0.0005	0.0037
0.001	E050	12_EnhBiv	30	1.5101	0.0032	0.0123
1.00E-04	E083	7_Enh	80	1.5065	0.0767	0.0001
1.00E-04	E095	7_Enh	48	1.5051	0.0460	0.0025
0.001	E061	11_BivFlnk	20	1.5033	0.0021	0.0307
0.001	E088	11_BivFlnk	7	1.5005	0.0008	0.1008
0.001	E040	11_BivFlnk	3	1.4998	0.0003	0.1429
0.01	E050	3_TxFlnk	31	1.4973	0.0003	0.0127
0.001	E115	11_BivFlnk	6	1.4966	0.0006	0.1116
0.001	E117	3_TxFlnk	10	1.4958	0.0011	0.0776
0.001	E125	6_EnhG	29	1.4957	0.0031	0.0151
0.001	E086	6_EnhG	8	1.4954	0.0009	0.0933

0.001	E035	10_TssBiv	3	1.4943	0.0003	0.1442
0.01	E008	11_BivFlnk	18	1.4942	0.0002	0.0386
1.00E-04	E026	1_TssA	12	1.4900	0.0115	0.0656
0.001	E047	11_BivFlnk	3	1.4896	0.0003	0.1454
0.001	E129	12_EnhBiv	8	1.4895	0.0009	0.0949
0.001	E006	3_TxFlnk	5	1.4890	0.0005	0.1242
1.00E-04	E072	7_Enh	39	1.4880	0.0374	0.0066
0.01	E006	11_BivFlnk	75	1.4853	0.0008	0.0005
1.00E-05	E013	7_Enh	4	1.4844	0.0421	0.1335
0.001	E119	3_TxFlnk	6	1.4827	0.0006	0.1156
1.00E-04	E068	7_Enh	42	1.4824	0.0403	0.0055
1.00E-04	E016	10_TssBiv	6	1.4816	0.0058	0.1155
1.00E-04	E020	10_TssBiv	6	1.4789	0.0058	0.1163
0.001	E096	6_EnhG	55	1.4764	0.0059	0.0024
0.01	E095	11_BivFlnk	38	1.4758	0.0004	0.0089
0.001	E007	12_EnhBiv	5	1.4729	0.0005	0.1287
0.001	E096	12_EnhBiv	9	1.4702	0.0010	0.0925
1.00E-04	E120	7_Enh	43	1.4696	0.0412	0.0058
1.00E-04	E072	2_TssAFlnk	7	1.4695	0.0067	0.1094
0.01	E065	3_TxFlnk	9	1.4669	0.0001	0.0935
0.001	E119	11_BivFlnk	7	1.4646	0.0008	0.1113
0.01	E113	11_BivFlnk	19	1.4630	0.0002	0.0423
1.00E-04	E057	10_TssBiv	3	1.4614	0.0029	0.1523
0.001	E073	11_BivFlnk	4	1.4579	0.0004	0.1436
1.00E-05	E099	7_Enh	3	1.4556	0.0316	0.1521
1.00E-04	E081	2_TssAFlnk	4	1.4552	0.0038	0.1442
0.01	E061	11_BivFlnk	197	1.4524	0.0021	0.0000
0.001	E066	12_EnhBiv	12	1.4520	0.0013	0.0773
1.00E-04	E027	7_Enh	67	1.4500	0.0642	0.0012
0.001	E026	6_EnhG	45	1.4496	0.0048	0.0070
0.01	E120	10_TssBiv	96	1.4479	0.0010	0.0002
1.00E-04	E077	7_Enh	35	1.4466	0.0336	0.0137
1.00E-04	E048	2_TssAFlnk	7	1.4444	0.0067	0.1173
1.00E-04	E044	6_EnhG	6	1.4442	0.0058	0.1270
0.01	E115	11_BivFlnk	59	1.4435	0.0006	0.0030
1.00E-04	E049	1_TssA	9	1.4416	0.0086	0.1010
1.00E-04	E055	7_Enh	48	1.4407	0.0460	0.0057
1.00E-04	E062	6_EnhG	4	1.4400	0.0038	0.1486
0.01	E005	11_BivFlnk	109	1.4395	0.0011	0.0001
0.01	E032	11_BivFlnk	92	1.4393	0.0010	0.0004
0.001	E128	6_EnhG	50	1.4387	0.0054	0.0057
0.001	E003	6_EnhG	14	1.4385	0.0015	0.0701
0.001	E088	6_EnhG	27	1.4385	0.0029	0.0273

0.001	E049	11_BivFlnk	8	1.4333	0.0009	0.1126
0.01	E090	3_TxFlnk	60	1.4331	0.0006	0.0032
0.01	E101	11_BivFlnk	71	1.4316	0.0007	0.0016
0.001	E122	11_BivFlnk	7	1.4307	0.0008	0.1224
1.00E-04	E109	7_Enh	21	1.4259	0.0201	0.0442
1.00E-04	E002	7_Enh	19	1.4237	0.0182	0.0517
1.00E-04	E038	2_TssAFlnk	8	1.4225	0.0077	0.1159
0.01	E030	11_BivFlnk	122	1.4218	0.0013	0.0001
0.001	E120	12_EnhBiv	3	1.4215	0.0003	0.1633
0.01	E047	10_TssBiv	19	1.4209	0.0002	0.0536
1.00E-04	E041	6_EnhG	9	1.4198	0.0086	0.1086
0.01	E103	11_BivFlnk	30	1.4182	0.0003	0.0262
1.00E-04	E055	11_BivFlnk	3	1.4152	0.0029	0.1650
0.001	E006	11_BivFlnk	7	1.4134	0.0008	0.1284
1.00E-04	E078	2_TssAFlnk	5	1.4115	0.0048	0.1477
0.001	E113	12_EnhBiv	12	1.4110	0.0013	0.0911
1.00E-04	E097	7_Enh	38	1.4087	0.0364	0.0160
0.01	E035	11_BivFlnk	80	1.4085	0.0008	0.0014
0.01	E009	11_BivFlnk	63	1.4050	0.0007	0.0041
0.001	E083	12_EnhBiv	16	1.4038	0.0017	0.0717
0.01	E037	11_BivFlnk	21	1.4003	0.0002	0.0530
0.001	E086	2_TssAFlnk	22	1.3996	0.0024	0.0498
0.001	E129	10_TssBiv	9	1.3993	0.0010	0.1168
0.001	E051	12_EnhBiv	28	1.3990	0.0030	0.0344
0.01	E114	12_EnhBiv	33	1.3970	0.0003	0.0260
0.01	E033	12_EnhBiv	64	1.3941	0.0007	0.0045
0.01	E114	11_BivFlnk	26	1.3924	0.0003	0.0410
1.00E-04	E096	7_Enh	30	1.3886	0.0288	0.0318
0.001	E053	10_TssBiv	3	1.3884	0.0003	0.1730
0.01	E107	3_TxFlnk	145	1.3879	0.0015	0.0001
0.001	E025	6_EnhG	70	1.3875	0.0075	0.0036
0.01	E103	12_EnhBiv	21	1.3836	0.0002	0.0586
1.00E-04	E105	2_TssAFlnk	4	1.3833	0.0038	0.1666
0.01	E100	11_BivFlnk	47	1.3819	0.0005	0.0136
0.01	E084	3_TxFlnk	38	1.3806	0.0004	0.0226
0.01	E129	11_BivFlnk	50	1.3799	0.0005	0.0118
0.001	E106	12_EnhBiv	13	1.3786	0.0014	0.0975
1.00E-04	E113	7_Enh	36	1.3779	0.0345	0.0244
1.00E-05	E067	7_Enh	3	1.3705	0.0316	0.1766
0.001	E071	3_TxFlnk	3	1.3705	0.0003	0.1785
1.00E-04	E122	7_Enh	43	1.3672	0.0412	0.0182
0.01	E121	11_BivFlnk	9	1.3669	0.0001	0.1300
1.00E-04	E080	12_EnhBiv	10	1.3666	0.0096	0.1218

1.00E-04	E048	7_Enh	33	1.3662	0.0316	0.0321
1.00E-04	E129	7_Enh	49	1.3651	0.0470	0.0134
0.01	E126	10_TssBiv	54	1.3650	0.0006	0.0116
0.001	E068	12_EnhBiv	4	1.3578	0.0004	0.1757
0.01	E062	3_TxFlnk	35	1.3570	0.0004	0.0330
0.01	E022	3_TxFlnk	176	1.3517	0.0019	0.0001
0.01	E125	3_TxFlnk	49	1.3511	0.0005	0.0175
0.01	E089	3_TxFlnk	35	1.3503	0.0004	0.0350
0.001	E124	12_EnhBiv	19	1.3480	0.0020	0.0803
0.01	E091	11_BivFlnk	98	1.3448	0.0010	0.0021
0.01	E071	3_TxFlnk	30	1.3442	0.0003	0.0471
0.01	E099	11_BivFlnk	33	1.3394	0.0003	0.0424
1.00E-04	E125	7_Enh	40	1.3389	0.0384	0.0287
0.01	E085	11_BivFlnk	115	1.3378	0.0012	0.0012
1.00E-04	E073	7_Enh	27	1.3374	0.0259	0.0556
0.01	E034	11_BivFlnk	185	1.3344	0.0019	0.0001
1.00E-04	E098	2_TssAFlnk	4	1.3342	0.0038	0.1842
0.01	E033	11_BivFlnk	73	1.3313	0.0008	0.0078
0.01	E076	10_TssBiv	91	1.3309	0.0010	0.0037
0.01	E095	10_TssBiv	56	1.3280	0.0006	0.0169
0.01	E032	3_TxFlnk	49	1.3280	0.0005	0.0229
0.001	E121	6_EnhG	27	1.3278	0.0029	0.0613
0.01	E028	11_BivFlnk	10	1.3270	0.0001	0.1408
1.00E-04	E128	7_Enh	35	1.3256	0.0336	0.0414
0.001	E069	10_TssBiv	13	1.3217	0.0014	0.1237
1.00E-04	E052	7_Enh	50	1.3207	0.0479	0.0218
0.001	E005	6_EnhG	65	1.3207	0.0070	0.0127
1.00E-05	E105	7_Enh	3	1.3199	0.0316	0.1934
0.001	E049	6_EnhG	54	1.3197	0.0058	0.0202
0.01	E036	11_BivFlnk	109	1.3194	0.0011	0.0023
0.01	E071	12_EnhBiv	113	1.3187	0.0012	0.0020
1.00E-04	E121	6_EnhG	3	1.3179	0.0029	0.1957
0.01	E119	10_TssBiv	18	1.3156	0.0002	0.1005
1.00E-04	E070	10_TssBiv	3	1.3145	0.0029	0.1969
1.00E-04	E053	12_EnhBiv	3	1.3141	0.0029	0.1970
0.01	E105	3_TxFlnk	28	1.3131	0.0003	0.0653
0.01	E043	11_BivFlnk	102	1.3128	0.0011	0.0035
1.00E-05	E084	7_Enh	4	1.3128	0.0421	0.1900
1.00E-04	E094	7_Enh	22	1.3120	0.0211	0.0839
0.01	E039	3_TxFlnk	209	1.3102	0.0022	0.0001
1.00E-04	E107	7_Enh	44	1.3079	0.0422	0.0328
1.00E-04	E045	7_Enh	18	1.3069	0.0173	0.1037
0.01	E122	3_TxFlnk	47	1.3063	0.0005	0.0317

0.01	E005	10_TssBiv	42	1.3063	0.0004	0.0386
0.001	E027	11_BivFlnk	7	1.3054	0.0008	0.1738
1.00E-04	E069	2_TssAFlnk	6	1.3050	0.0058	0.1813
1.00E-05	E118	7_Enh	5	1.3028	0.0526	0.1864
0.001	E099	12_EnhBiv	13	1.3023	0.0014	0.1342
0.001	E108	10_TssBiv	9	1.3017	0.0010	0.1608
0.01	E074	12_EnhBiv	49	1.3009	0.0005	0.0311
1.00E-04	E065	1_TssA	12	1.3003	0.0115	0.1405
1.00E-04	E108	2_TssAFlnk	11	1.2999	0.0105	0.1473
0.001	E014	11_BivFlnk	13	1.2980	0.0014	0.1365
0.01	E045	11_BivFlnk	59	1.2979	0.0006	0.0222
1.00E-04	E063	7_Enh	47	1.2976	0.0451	0.0323
0.01	E044	11_BivFlnk	151	1.2963	0.0016	0.0009
0.001	E052	11_BivFlnk	6	1.2951	0.0006	0.1863
1.00E-04	E075	2_TssAFlnk	5	1.2949	0.0048	0.1933
1.00E-04	E006	12_EnhBiv	3	1.2931	0.0029	0.2046
0.01	E079	3_TxFlnk	25	1.2922	0.0003	0.0854
0.01	E029	11_BivFlnk	102	1.2918	0.0011	0.0054
1.00E-04	E121	7_Enh	41	1.2916	0.0393	0.0438
1.00E-04	E003	10_TssBiv	3	1.2915	0.0029	0.2052
0.01	E075	10_TssBiv	102	1.2911	0.0011	0.0055
1.00E-04	E107	2_TssAFlnk	11	1.2893	0.0105	0.1532
0.01	E045	3_TxFlnk	28	1.2892	0.0003	0.0775
0.001	E126	10_TssBiv	5	1.2887	0.0005	0.1964
0.001	E101	6_EnhG	22	1.2851	0.0024	0.1003
0.01	E023	11_BivFlnk	24	1.2845	0.0003	0.0933
0.001	E025	10_TssBiv	12	1.2839	0.0013	0.1507
0.001	E008	2_TssAFlnk	7	1.2823	0.0008	0.1854
0.01	E122	12_EnhBiv	85	1.2814	0.0009	0.0115
0.01	E027	11_BivFlnk	70	1.2803	0.0007	0.0192
0.01	E038	11_BivFlnk	23	1.2801	0.0002	0.0997
0.01	E105	2_TssAFlnk	336	1.2758	0.0035	0.0000
0.01	E037	3_TxFlnk	20	1.2755	0.0002	0.1147
0.01	E096	2_TssAFlnk	162	1.2751	0.0017	0.0012
0.001	E011	11_BivFlnk	5	1.2732	0.0005	0.2036
0.01	E121	10_TssBiv	61	1.2727	0.0006	0.0287
0.001	E063	11_BivFlnk	14	1.2710	0.0015	0.1469
0.01	E052	11_BivFlnk	60	1.2703	0.0006	0.0305
0.01	E035	10_TssBiv	26	1.2702	0.0003	0.0951
1.00E-04	E107	12_EnhBiv	5	1.2690	0.0048	0.2053
0.001	E059	11_BivFlnk	13	1.2667	0.0014	0.1553
0.001	E110	10_TssBiv	4	1.2667	0.0004	0.2119
0.01	E007	11_BivFlnk	16	1.2664	0.0002	0.1393

0.01	E108	3_TxFlnk	59	1.2663	0.0006	0.0332
0.01	E039	11_BivFlnk	71	1.2660	0.0007	0.0230
0.01	E013	11_BivFlnk	20	1.2651	0.0002	0.1214
0.001	E031	7_Enh	272	1.2649	0.0292	0.0001
0.01	E079	10_TssBiv	37	1.2647	0.0004	0.0681
0.001	E078	2_TssAFlnk	40	1.2641	0.0043	0.0618
0.001	E081	2_TssAFlnk	31	1.2625	0.0033	0.0844
0.001	E046	2_TssAFlnk	52	1.2609	0.0056	0.0436
0.01	E119	3_TxFlnk	52	1.2603	0.0005	0.0442
1.00E-04	E061	2_TssAFlnk	5	1.2578	0.0048	0.2107
0.001	E092	2_TssAFlnk	25	1.2573	0.0027	0.1069
0.01	E087	3_TxFlnk	7	1.2570	0.0001	0.1991
0.001	E035	11_BivFlnk	7	1.2565	0.0008	0.1993
0.01	E047	12_EnhBiv	121	1.2542	0.0013	0.0068
1.00E-04	E033	2_TssAFlnk	9	1.2515	0.0086	0.1888
0.001	E111	6_EnhG	47	1.2514	0.0050	0.0563
0.01	E040	3_TxFlnk	21	1.2514	0.0002	0.1266
0.01	E073	11_BivFlnk	35	1.2512	0.0004	0.0813
0.01	E117	6_EnhG	244	1.2508	0.0026	0.0003
0.001	E049	3_TxFlnk	7	1.2487	0.0008	0.2037
1.00E-04	E108	7_Enh	45	1.2482	0.0431	0.0587
0.01	E069	11_BivFlnk	53	1.2471	0.0006	0.0498
0.001	E052	6_EnhG	45	1.2464	0.0048	0.0627
0.01	E074	3_TxFlnk	16	1.2464	0.0002	0.1530
1.00E-04	E059	7_Enh	24	1.2452	0.0230	0.1172
0.01	E042	11_BivFlnk	44	1.2452	0.0005	0.0657
1.00E-04	E085	6_EnhG	11	1.2445	0.0105	0.1808
0.001	E067	2_TssAFlnk	37	1.2439	0.0040	0.0811
0.001	E092	11_BivFlnk	19	1.2428	0.0020	0.1413
0.001	E099	11_BivFlnk	3	1.2415	0.0003	0.2247
0.01	E106	3_TxFlnk	10	1.2392	0.0001	0.1911
0.001	E073	2_TssAFlnk	38	1.2385	0.0041	0.0825
0.01	E002	2_TssAFlnk	19	1.2379	0.0002	0.1451
0.01	E051	11_BivFlnk	282	1.2363	0.0030	0.0002
0.01	E045	12_EnhBiv	82	1.2328	0.0009	0.0281
1.00E-04	E055	2_TssAFlnk	9	1.2325	0.0086	0.2008
0.01	E024	11_BivFlnk	118	1.2324	0.0012	0.0120
0.001	E089	10_TssBiv	7	1.2317	0.0008	0.2136
0.001	E084	6_EnhG	44	1.2315	0.0047	0.0746
0.01	E098	2_TssAFlnk	336	1.2306	0.0035	0.0001
0.001	E059	6_EnhG	49	1.2304	0.0053	0.0661
1.00E-04	E082	2_TssAFlnk	5	1.2294	0.0048	0.2252
0.001	E022	11_BivFlnk	17	1.2291	0.0018	0.1608

0.001	E100	2_TssAFlnk	15	1.2285	0.0016	0.1711
1.00E-04	E066	2_TssAFlnk	9	1.2273	0.0086	0.2042
0.001	E126	12_EnhBiv	6	1.2266	0.0006	0.2221
0.01	E125	11_BivFlnk	53	1.2258	0.0006	0.0631
1.00E-04	E036	7_Enh	41	1.2240	0.0393	0.0834
0.01	E112	12_EnhBiv	63	1.2233	0.0007	0.0509
0.01	E093	11_BivFlnk	129	1.2225	0.0014	0.0116
1.00E-05	E127	7_Enh	4	1.2225	0.0421	0.2300
0.01	E056	3_TxFlnk	488	1.2213	0.0051	0.0000
0.001	E032	12_EnhBiv	31	1.2212	0.0033	0.1145
0.01	E082	11_BivFlnk	95	1.2210	0.0010	0.0252
0.01	E128	10_TssBiv	64	1.2205	0.0007	0.0516
0.01	E029	10_TssBiv	19	1.2200	0.0002	0.1591
1.00E-04	E050	7_Enh	47	1.2200	0.0451	0.0739
0.001	E011	10_TssBiv	19	1.2192	0.0020	0.1597
0.01	E076	11_BivFlnk	31	1.2191	0.0003	0.1165
1.00E-04	E069	6_EnhG	3	1.2188	0.0029	0.2341
1.00E-05	E104	7_Enh	3	1.2178	0.0316	0.2331
0.01	E117	3_TxFlnk	83	1.2177	0.0009	0.0348
0.01	E038	12_EnhBiv	73	1.2176	0.0008	0.0436
0.01	E125	10_TssBiv	60	1.2174	0.0006	0.0588
0.01	E050	11_BivFlnk	197	1.2173	0.0021	0.0032
0.01	E069	10_TssBiv	122	1.2166	0.0013	0.0154
0.01	E021	3_TxFlnk	10	1.2150	0.0001	0.2076
0.001	E058	11_BivFlnk	17	1.2127	0.0018	0.1740
0.01	E104	3_TxFlnk	142	1.2116	0.0015	0.0114
1.00E-04	E090	7_Enh	53	1.2105	0.0508	0.0702
0.01	E031	10_TssBiv	27	1.2080	0.0003	0.1389
0.01	E050	10_TssBiv	11	1.2079	0.0001	0.2075
0.01	E100	6_EnhG	52	1.2078	0.0005	0.0784
0.001	E124	6_EnhG	34	1.2069	0.0036	0.1183
0.01	E029	12_EnhBiv	283	1.2065	0.0030	0.0009
1.00E-04	E031	7_Enh	29	1.2047	0.0278	0.1328
0.001	E030	12_EnhBiv	14	1.2044	0.0015	0.1950
0.01	E058	11_BivFlnk	172	1.2034	0.0018	0.0080
1.00E-04	E014	1_TssA	10	1.2031	0.0096	0.2155
0.001	E076	11_BivFlnk	3	1.2028	0.0003	0.2411
1.00E-04	E081	7_Enh	40	1.2021	0.0384	0.1041
1.00E-04	E126	7_Enh	50	1.2018	0.0479	0.0827
0.01	E127	11_BivFlnk	74	1.2017	0.0008	0.0532
0.01	E092	3_TxFlnk	51	1.2006	0.0005	0.0862
0.01	E067	12_EnhBiv	29	1.2005	0.0003	0.1393
0.01	E044	6_EnhG	454	1.1999	0.0048	0.0001

0.001	E100	11_BivFlnk	4	1.1991	0.0004	0.2440
1.00E-04	E096	6_EnhG	5	1.1989	0.0048	0.2418
0.01	E088	11_BivFlnk	57	1.1984	0.0006	0.0781
0.001	E011	3_TxFlnk	12	1.1982	0.0013	0.2098
0.01	E124	12_EnhBiv	172	1.1969	0.0018	0.0096
1.00E-04	E100	7_Enh	27	1.1960	0.0259	0.1476
0.01	E068	11_BivFlnk	30	1.1954	0.0003	0.1411
0.01	E072	10_TssBiv	96	1.1953	0.0010	0.0385
0.001	E068	10_TssBiv	7	1.1951	0.0008	0.2366
0.01	E049	11_BivFlnk	68	1.1949	0.0007	0.0655
0.01	E046	10_TssBiv	10	1.1948	0.0001	0.2224
1.00E-05	E039	7_Enh	3	1.1948	0.0316	0.2433
0.01	E115	10_TssBiv	8	1.1937	0.0001	0.2329
0.01	E092	11_BivFlnk	186	1.1933	0.0020	0.0083
0.01	E110	11_BivFlnk	36	1.1931	0.0004	0.1263
0.01	E118	3_TxFlnk	67	1.1930	0.0007	0.0683
1.00E-04	E071	2_TssAFlnk	7	1.1924	0.0067	0.2380
0.01	E075	3_TxFlnk	28	1.1923	0.0003	0.1504
0.01	E110	2_TssAFlnk	216	1.1921	0.0023	0.0053
0.01	E080	11_BivFlnk	241	1.1917	0.0025	0.0035
0.001	E038	12_EnhBiv	7	1.1904	0.0008	0.2397
1.00E-04	E027	2_TssAFlnk	5	1.1898	0.0048	0.2470
0.01	E077	11_BivFlnk	90	1.1896	0.0009	0.0470
0.001	E030	11_BivFlnk	10	1.1882	0.0011	0.2274
1.00E-05	E027	7_Enh	5	1.1881	0.0526	0.2453
0.001	E095	11_BivFlnk	3	1.1879	0.0003	0.2479
0.001	E112	12_EnhBiv	6	1.1879	0.0006	0.2453
0.01	E112	10_TssBiv	171	1.1876	0.0018	0.0125
0.01	E129	12_EnhBiv	65	1.1870	0.0007	0.0764
0.01	E088	6_EnhG	227	1.1862	0.0024	0.0054
1.00E-04	E035	7_Enh	34	1.1857	0.0326	0.1360
0.01	E062	11_BivFlnk	85	1.1857	0.0009	0.0545
1.00E-04	E093	12_EnhBiv	3	1.1845	0.0029	0.2493
0.01	E103	10_TssBiv	128	1.1839	0.0013	0.0274
1.00E-04	E126	1_TssA	10	1.1828	0.0096	0.2309
0.01	E105	10_TssBiv	33	1.1811	0.0003	0.1468
0.01	E011	6_EnhG	261	1.1802	0.0027	0.0040
1.00E-04	E005	1_TssA	6	1.1800	0.0058	0.2499
1.00E-04	E079	7_Enh	22	1.1793	0.0211	0.1822
0.01	E007	3_TxFlnk	6	1.1793	0.0001	0.2508
0.01	E072	3_TxFlnk	21	1.1786	0.0002	0.1886
1.00E-04	E018	10_TssBiv	5	1.1784	0.0048	0.2536
0.001	E048	7_Enh	254	1.1772	0.0273	0.0046

0.001	E034	11_BivFlnk	16	1.1766	0.0017	0.2102
0.01	E084	11_BivFlnk	88	1.1760	0.0009	0.0600
0.001	E017	12_EnhBiv	24	1.1759	0.0026	0.1803
1.00E-04	E037	2_TssAFlnk	6	1.1755	0.0058	0.2529
0.01	E109	12_EnhBiv	53	1.1753	0.0006	0.1075
0.001	E056	3_TxFlnk	46	1.1738	0.0049	0.1226
0.01	E012	11_BivFlnk	103	1.1737	0.0011	0.0493
0.001	E029	12_EnhBiv	27	1.1736	0.0029	0.1727
1.00E-04	E088	7_Enh	46	1.1735	0.0441	0.1190
0.01	E085	3_TxFlnk	105	1.1732	0.0011	0.0482
1.00E-04	E112	2_TssAFlnk	4	1.1722	0.0038	0.2579
0.01	E111	11_BivFlnk	150	1.1717	0.0016	0.0257
0.001	E032	2_TssAFlnk	48	1.1713	0.0052	0.1211
0.01	E097	2_TssAFlnk	187	1.1710	0.0020	0.0156
0.001	E086	7_Enh	180	1.1705	0.0193	0.0167
0.01	E017	11_BivFlnk	71	1.1692	0.0007	0.0859
1.00E-04	E127	7_Enh	42	1.1692	0.0403	0.1331
1.00E-04	E068	2_TssAFlnk	6	1.1686	0.0058	0.2574
0.01	E095	3_TxFlnk	17	1.1686	0.0002	0.2140
0.01	E003	10_TssBiv	247	1.1676	0.0026	0.0078
0.01	E020	12_EnhBiv	220	1.1673	0.0023	0.0112
1.00E-04	E046	6_EnhG	7	1.1671	0.0067	0.2553
0.01	E078	11_BivFlnk	92	1.1663	0.0010	0.0654
0.01	E124	11_BivFlnk	211	1.1659	0.0022	0.0131
0.01	E026	6_EnhG	369	1.1659	0.0039	0.0018
0.01	E062	10_TssBiv	80	1.1658	0.0008	0.0785
0.001	E022	6_EnhG	90	1.1651	0.0097	0.0678
1.00E-05	E001	7_Enh	4	1.1649	0.0421	0.2601
1.00E-04	E006	1_TssA	6	1.1647	0.0058	0.2599
0.01	E073	12_EnhBiv	54	1.1641	0.0006	0.1185
0.001	E046	12_EnhBiv	27	1.1639	0.0029	0.1835
1.00E-05	E068	7_Enh	3	1.1625	0.0316	0.2585
0.01	E070	3_TxFlnk	31	1.1624	0.0003	0.1734
0.001	E030	2_TssAFlnk	99	1.1621	0.0106	0.0625
0.01	E004	10_TssBiv	124	1.1617	0.0013	0.0454
0.001	E075	10_TssBiv	9	1.1615	0.0010	0.2526
0.01	E092	10_TssBiv	160	1.1605	0.0017	0.0292
0.01	E057	11_BivFlnk	138	1.1600	0.0015	0.0391
0.01	E090	10_TssBiv	79	1.1597	0.0008	0.0864
0.001	E093	11_BivFlnk	12	1.1595	0.0013	0.2426
0.01	E042	3_TxFlnk	361	1.1582	0.0038	0.0028
0.01	E017	10_TssBiv	67	1.1569	0.0007	0.1058
0.01	E007	2_TssAFlnk	79	1.1566	0.0008	0.0900

0.001	E022	10_TssBiv	4	1.1565	0.0004	0.2667
0.01	E099	6_EnhG	91	1.1564	0.0010	0.0769
0.01	E089	10_TssBiv	67	1.1563	0.0007	0.1066
1.00E-04	E088	1_TssA	7	1.1551	0.0067	0.2640
1.00E-05	E061	7_Enh	4	1.1547	0.0421	0.2659
0.01	E025	10_TssBiv	110	1.1544	0.0012	0.0622
0.001	E056	6_EnhG	76	1.1543	0.0082	0.0959
0.01	E071	11_BivFlnk	95	1.1540	0.0010	0.0757
0.001	E074	2_TssAFlnk	39	1.1528	0.0042	0.1639
0.01	E001	10_TssBiv	412	1.1519	0.0043	0.0022
1.00E-04	E065	7_Enh	12	1.1511	0.0115	0.2495
0.01	E106	2_TssAFlnk	79	1.1509	0.0008	0.0971
1.00E-04	E012	10_TssBiv	3	1.1506	0.0029	0.2655
1.00E-04	E031	6_EnhG	4	1.1501	0.0038	0.2702
0.001	E104	2_TssAFlnk	17	1.1497	0.0018	0.2332
0.01	E108	6_EnhG	480	1.1492	0.0051	0.0013
0.001	E112	2_TssAFlnk	35	1.1482	0.0038	0.1797
0.01	E091	3_TxFlnk	20	1.1465	0.0002	0.2264
0.001	E053	2_TssAFlnk	53	1.1463	0.0057	0.1426
0.001	E032	7_Enh	322	1.1447	0.0346	0.0072
0.001	E071	2_TssAFlnk	60	1.1441	0.0064	0.1332
0.001	E113	7_Enh	267	1.1440	0.0287	0.0132
0.01	E016	3_TxFlnk	61	1.1432	0.0006	0.1334
0.01	E053	1_TssA	484	1.1431	0.0051	0.0018
0.01	E126	12_EnhBiv	57	1.1429	0.0006	0.1407
0.001	E126	6_EnhG	35	1.1428	0.0038	0.1868
0.01	E021	10_TssBiv	133	1.1423	0.0014	0.0592
0.001	E031	12_EnhBiv	10	1.1421	0.0011	0.2654
0.01	E094	2_TssAFlnk	113	1.1406	0.0012	0.0759
0.01	E040	12_EnhBiv	153	1.1402	0.0016	0.0500
0.001	E008	10_TssBiv	19	1.1395	0.0020	0.2375
1.00E-04	E039	2_TssAFlnk	8	1.1385	0.0077	0.2740
0.01	E030	10_TssBiv	27	1.1384	0.0003	0.2146
0.01	E019	10_TssBiv	353	1.1381	0.0037	0.0078
1.00E-04	E051	7_Enh	41	1.1380	0.0393	0.1756
0.001	E067	10_TssBiv	6	1.1380	0.0006	0.2786
0.01	E075	11_BivFlnk	115	1.1376	0.0012	0.0782
1.00E-04	E054	2_TssAFlnk	7	1.1371	0.0067	0.2774
1.00E-04	E125	2_TssAFlnk	7	1.1361	0.0067	0.2782
0.01	E070	11_BivFlnk	164	1.1354	0.0017	0.0498
0.001	E006	7_Enh	292	1.1346	0.0313	0.0145
1.00E-04	E069	7_Enh	32	1.1337	0.0307	0.2044
1.00E-04	E015	10_TssBiv	4	1.1333	0.0038	0.2800

0.01	E113	12_EnhBiv	98	1.1302	0.0010	0.1043
0.001	E037	12_EnhBiv	7	1.1292	0.0008	0.2838
0.01	E089	1_TssA	550	1.1286	0.0058	0.0024
0.001	E075	6_EnhG	13	1.1283	0.0014	0.2690
0.01	E062	12_EnhBiv	69	1.1282	0.0007	0.1435
0.001	E059	10_TssBiv	7	1.1275	0.0008	0.2851
0.001	E101	12_EnhBiv	7	1.1271	0.0008	0.2854
0.01	E088	1_TssA	622	1.1269	0.0065	0.0015
0.01	E100	10_TssBiv	92	1.1267	0.0010	0.1162
0.01	E052	10_TssBiv	54	1.1262	0.0006	0.1712
0.001	E129	11_BivFlnk	4	1.1255	0.0004	0.2848
0.01	E114	10_TssBiv	78	1.1254	0.0008	0.1354
0.01	E129	3_TxFlnk	68	1.1250	0.0007	0.1502
0.001	E041	12_EnhBiv	18	1.1247	0.0019	0.2579
0.001	E030	7_Enh	273	1.1246	0.0293	0.0244
1.00E-04	E039	7_Enh	31	1.1246	0.0297	0.2199
0.01	E056	11_BivFlnk	215	1.1242	0.0023	0.0416
0.001	E105	6_EnhG	39	1.1241	0.0042	0.2041
0.01	E029	6_EnhG	352	1.1239	0.0037	0.0143
0.001	E034	7_Enh	243	1.1239	0.0261	0.0320
0.001	E013	10_TssBiv	12	1.1236	0.0013	0.2767
0.01	E097	6_EnhG	139	1.1234	0.0015	0.0801
0.01	E086	2_TssAFlnk	180	1.1232	0.0019	0.0569
0.001	E041	2_TssAFlnk	86	1.1224	0.0092	0.1294
0.001	E026	3_TxFlnk	8	1.1222	0.0009	0.2878
0.01	E109	10_TssBiv	43	1.1222	0.0005	0.1989
1.00E-04	E089	1_TssA	6	1.1213	0.0058	0.2905
0.01	E084	10_TssBiv	142	1.1213	0.0015	0.0812
0.01	E108	11_BivFlnk	120	1.1210	0.0013	0.0984
0.001	E101	7_Enh	149	1.1208	0.0160	0.0761
0.001	E002	10_TssBiv	15	1.1208	0.0016	0.2712
0.01	E018	1_TssA	955	1.1206	0.0101	0.0002
0.01	E073	3_TxFlnk	18	1.1204	0.0002	0.2631
0.001	E043	7_Enh	287	1.1202	0.0308	0.0253
0.001	E080	6_EnhG	77	1.1196	0.0083	0.1459
0.01	E093	3_TxFlnk	57	1.1191	0.0006	0.1776
1.00E-04	E002	1_TssA	9	1.1185	0.0086	0.2887
0.01	E101	1_TssA	1067	1.1183	0.0112	0.0001
0.001	E099	2_TssAFlnk	13	1.1179	0.0014	0.2798
0.001	E025	12_EnhBiv	14	1.1167	0.0015	0.2785
0.01	E015	1_TssA	924	1.1165	0.0097	0.0004
0.001	E111	11_BivFlnk	14	1.1150	0.0015	0.2804
0.01	E046	3_TxFlnk	34	1.1145	0.0004	0.2303

1.00E-04	E082	7_Enh	19	1.1142	0.0182	0.2667
0.01	E008	2_TssAFlnk	62	1.1140	0.0007	0.1784
0.001	E014	12_EnhBiv	22	1.1137	0.0024	0.2605
0.01	E037	1_TssA	525	1.1137	0.0055	0.0069
0.01	E102	11_BivFlnk	45	1.1123	0.0005	0.2110
0.001	E001	10_TssBiv	39	1.1117	0.0042	0.2236
1.00E-04	E032	7_Enh	35	1.1114	0.0336	0.2299
0.01	E030	6_EnhG	300	1.1104	0.0032	0.0340
1.00E-04	E066	1_TssA	6	1.1090	0.0058	0.2997
0.001	E039	7_Enh	273	1.1086	0.0293	0.0409
1.00E-04	E019	1_TssA	8	1.1082	0.0077	0.2995
0.01	E090	11_BivFlnk	205	1.1078	0.0022	0.0680
0.01	E118	10_TssBiv	373	1.1078	0.0039	0.0237
0.01	E044	1_TssA	410	1.1078	0.0043	0.0190
0.01	E080	1_TssA	467	1.1072	0.0049	0.0139
0.01	E010	1_TssA	564	1.1072	0.0059	0.0079
0.001	E024	10_TssBiv	6	1.1066	0.0006	0.3018
0.01	E016	10_TssBiv	408	1.1062	0.0043	0.0205
1.00E-04	E025	1_TssA	11	1.1056	0.0105	0.2969
0.01	E027	2_TssAFlnk	423	1.1052	0.0045	0.0196
0.01	E068	10_TssBiv	66	1.1052	0.0007	0.1886
0.01	E104	12_EnhBiv	3	1.1050	0.0000	0.2892
1.00E-04	E047	7_Enh	32	1.1045	0.0307	0.2478
0.01	E002	1_TssA	809	1.1039	0.0085	0.0025
0.01	E086	1_TssA	859	1.1038	0.0090	0.0020
0.01	E024	2_TssAFlnk	185	1.1030	0.0019	0.0865
0.01	E102	1_TssA	685	1.1027	0.0072	0.0054
0.01	E015	3_TxFlnk	85	1.1026	0.0009	0.1684
0.01	E106	12_EnhBiv	106	1.1025	0.0011	0.1457
1.00E-05	E125	7_Enh	3	1.1025	0.0316	0.2897
0.01	E039	1_TssA	409	1.1023	0.0043	0.0240
0.01	E129	1_TssA	694	1.1018	0.0073	0.0054
0.01	E044	3_TxFlnk	112	1.1017	0.0012	0.1415
0.001	E118	1_TssA	45	1.1013	0.0048	0.2297
0.001	E082	2_TssAFlnk	40	1.1010	0.0043	0.2397
0.01	E055	3_TxFlnk	309	1.1002	0.0033	0.0451
0.01	E054	1_TssA	735	1.1002	0.0077	0.0049
0.01	E108	1_TssA	578	1.0998	0.0061	0.0111
0.001	E043	2_TssAFlnk	78	1.0998	0.0084	0.1822
0.01	E096	3_TxFlnk	14	1.0997	0.0001	0.2976
0.01	E033	1_TssA	560	1.0990	0.0059	0.0127
0.01	E042	12_EnhBiv	109	1.0988	0.0011	0.1506
0.01	E068	12_EnhBiv	33	1.0987	0.0003	0.2576

0.01	E041	3_TxFlnk	149	1.0986	0.0016	0.1177
0.01	E028	1_TssA	635	1.0982	0.0067	0.0092
0.01	E045	10_TssBiv	30	1.0981	0.0003	0.2648
0.01	E113	1_TssA	456	1.0976	0.0048	0.0230
0.01	E023	1_TssA	931	1.0976	0.0098	0.0023
0.01	E127	12_EnhBiv	88	1.0976	0.0009	0.1754
0.01	E107	1_TssA	575	1.0975	0.0061	0.0128
1.00E-04	E122	2_TssAFlnk	8	1.0974	0.0077	0.3090
0.01	E078	2_TssAFlnk	354	1.0973	0.0037	0.0393
0.01	E111	10_TssBiv	104	1.0964	0.0011	0.1606
0.001	E031	2_TssAFlnk	85	1.0963	0.0091	0.1809
0.01	E003	11_BivFlnk	163	1.0959	0.0017	0.1139
0.001	E069	2_TssAFlnk	45	1.0956	0.0048	0.2401
0.001	E091	2_TssAFlnk	34	1.0955	0.0036	0.2607
0.01	E011	10_TssBiv	174	1.0951	0.0018	0.1088
0.001	E061	6_EnhG	66	1.0940	0.0071	0.2103
0.01	E003	1_TssA	752	1.0935	0.0079	0.0072
0.01	E013	10_TssBiv	119	1.0929	0.0013	0.1544
0.01	E087	2_TssAFlnk	152	1.0927	0.0016	0.1286
0.01	E023	3_TxFlnk	60	1.0923	0.0006	0.2231
0.01	E037	6_EnhG	220	1.0921	0.0023	0.0910
0.01	E022	11_BivFlnk	154	1.0921	0.0016	0.1287
0.01	E058	10_TssBiv	110	1.0920	0.0012	0.1648
1.00E-04	E030	1_TssA	3	1.0920	0.0029	0.2963
0.01	E097	12_EnhBiv	22	1.0919	0.0002	0.2909
0.01	E119	1_TssA	609	1.0918	0.0064	0.0150
0.01	E008	3_TxFlnk	20	1.0917	0.0002	0.2953
0.01	E001	12_EnhBiv	208	1.0916	0.0022	0.0977
0.01	E057	10_TssBiv	204	1.0912	0.0021	0.1008
0.001	E039	12_EnhBiv	9	1.0910	0.0010	0.3148
0.01	E052	3_TxFlnk	83	1.0909	0.0009	0.1959
0.001	E057	10_TssBiv	20	1.0907	0.0021	0.2965
0.01	E038	1_TssA	562	1.0906	0.0059	0.0196
0.01	E019	1_TssA	717	1.0905	0.0075	0.0101
1.00E-04	E124	2_TssAFlnk	17	1.0905	0.0163	0.3019
0.001	E078	12_EnhBiv	8	1.0904	0.0009	0.3157
1.00E-04	E010	2_TssAFlnk	6	1.0904	0.0058	0.3141
0.01	E025	1_TssA	988	1.0903	0.0104	0.0033
1.00E-04	E090	6_EnhG	10	1.0901	0.0096	0.3143
0.01	E127	1_TssA	606	1.0901	0.0064	0.0167
0.01	E091	1_TssA	494	1.0889	0.0052	0.0286
0.01	E074	1_TssA	833	1.0882	0.0088	0.0074
0.01	E036	1_TssA	372	1.0867	0.0039	0.0526

0.01	E128	6_EnhG	385	1.0866	0.0041	0.0500
0.01	E035	1_TssA	315	1.0863	0.0033	0.0681
0.01	E124	6_EnhG	312	1.0862	0.0033	0.0692
1.00E-04	E089	2_TssAFlnk	3	1.0859	0.0029	0.2997
0.01	E008	1_TssA	1063	1.0851	0.0112	0.0039
0.01	E052	1_TssA	626	1.0850	0.0066	0.0203
0.01	E048	1_TssA	549	1.0843	0.0058	0.0284
0.01	E012	2_TssAFlnk	129	1.0842	0.0014	0.1668
0.01	E017	1_TssA	664	1.0842	0.0070	0.0184
0.001	E017	6_EnhG	92	1.0842	0.0099	0.2007
0.001	E015	1_TssA	88	1.0841	0.0094	0.2053
0.001	E036	2_TssAFlnk	77	1.0840	0.0083	0.2182
0.001	E105	2_TssAFlnk	28	1.0840	0.0030	0.2913
0.01	E117	2_TssAFlnk	831	1.0837	0.0087	0.0102
0.01	E063	1_TssA	487	1.0837	0.0051	0.0371
0.01	E013	1_TssA	843	1.0836	0.0089	0.0098
0.01	E100	12_EnhBiv	23	1.0829	0.0002	0.3022
0.001	E038	7_Enh	245	1.0828	0.0263	0.0988
0.01	E114	1_TssA	931	1.0828	0.0098	0.0076
0.01	E009	1_TssA	683	1.0826	0.0072	0.0187
0.01	E001	1_TssA	1017	1.0825	0.0107	0.0057
0.01	E045	1_TssA	631	1.0822	0.0066	0.0232
0.01	E070	1_TssA	586	1.0820	0.0062	0.0276
1.00E-04	E118	10_TssBiv	4	1.0820	0.0038	0.3121
0.001	E020	12_EnhBiv	20	1.0819	0.0021	0.3089
0.01	E117	12_EnhBiv	10	1.0816	0.0001	0.3235
0.01	E023	10_TssBiv	48	1.0813	0.0005	0.2635
0.01	E067	1_TssA	928	1.0809	0.0098	0.0088
0.01	E120	3_TxFlnk	64	1.0806	0.0007	0.2429
0.01	E107	11_BivFlnk	188	1.0802	0.0020	0.1367
0.01	E004	1_TssA	694	1.0802	0.0073	0.0208
0.01	E066	12_EnhBiv	91	1.0800	0.0010	0.2130
0.01	E128	1_TssA	836	1.0800	0.0088	0.0129
0.01	E055	10_TssBiv	105	1.0796	0.0011	0.2000
0.01	E015	10_TssBiv	347	1.0795	0.0037	0.0741
0.01	E056	10_TssBiv	146	1.0794	0.0015	0.1663
1.00E-04	E088	2_TssAFlnk	4	1.0794	0.0038	0.3138
0.01	E033	3_TxFlnk	53	1.0793	0.0006	0.2605
0.01	E021	1_TssA	787	1.0789	0.0083	0.0164
0.001	E042	7_Enh	229	1.0785	0.0246	0.1174
0.001	E066	7_Enh	345	1.0782	0.0370	0.0746
0.01	E065	1_TssA	906	1.0780	0.0095	0.0118
0.01	E129	6_EnhG	427	1.0779	0.0045	0.0585

0.01	E014	1_TssA	816	1.0779	0.0086	0.0158
0.01	E063	11_BivFlnk	121	1.0774	0.0013	0.1916
0.01	E090	1_TssA	498	1.0772	0.0052	0.0471
0.001	E095	6_EnhG	43	1.0770	0.0046	0.2793
0.01	E017	3_TxFlnk	68	1.0770	0.0007	0.2462
0.01	E072	12_EnhBiv	49	1.0769	0.0005	0.2713
0.01	E006	1_TssA	505	1.0764	0.0053	0.0476
1.00E-04	E006	7_Enh	31	1.0760	0.0297	0.2980
0.01	E027	1_TssA	860	1.0758	0.0091	0.0158
0.001	E026	10_TssBiv	6	1.0758	0.0006	0.3261
0.01	E059	2_TssAFlnk	274	1.0755	0.0029	0.1089
0.01	E089	11_BivFlnk	238	1.0752	0.0025	0.1251
0.001	E014	3_TxFlnk	5	1.0746	0.0005	0.3233
0.001	E087	7_Enh	132	1.0742	0.0142	0.1901
0.01	E048	12_EnhBiv	65	1.0738	0.0007	0.2573
0.01	E029	1_TssA	348	1.0738	0.0037	0.0883
1.00E-04	E023	1_TssA	10	1.0737	0.0096	0.3314
1.00E-04	E091	7_Enh	42	1.0734	0.0403	0.2855
0.01	E113	2_TssAFlnk	140	1.0732	0.0015	0.1885
0.01	E118	1_TssA	447	1.0730	0.0047	0.0658
0.01	E016	11_BivFlnk	93	1.0730	0.0010	0.2291
0.001	E045	12_EnhBiv	7	1.0730	0.0008	0.3307
0.001	E045	7_Enh	132	1.0729	0.0142	0.1939
0.01	E083	11_BivFlnk	12	1.0723	0.0001	0.3324
0.001	E031	11_BivFlnk	5	1.0722	0.0005	0.3252
0.01	E087	1_TssA	1171	1.0718	0.0123	0.0086
0.01	E047	11_BivFlnk	22	1.0714	0.0002	0.3214
0.01	E012	1_TssA	632	1.0698	0.0067	0.0437
0.01	E034	10_TssBiv	22	1.0698	0.0002	0.3240
0.001	E110	2_TssAFlnk	19	1.0691	0.0020	0.3289
0.01	E007	12_EnhBiv	37	1.0691	0.0004	0.3041
0.01	E094	1_TssA	630	1.0687	0.0066	0.0463
0.01	E016	1_TssA	806	1.0685	0.0085	0.0293
0.01	E036	12_EnhBiv	149	1.0683	0.0016	0.1967
0.01	E123	2_TssAFlnk	680	1.0682	0.0072	0.0414
0.001	E085	11_BivFlnk	9	1.0675	0.0010	0.3381
0.01	E030	1_TssA	267	1.0671	0.0028	0.1373
0.01	E059	3_TxFlnk	75	1.0670	0.0008	0.2631
0.01	E006	10_TssBiv	19	1.0670	0.0002	0.3321
0.01	E099	1_TssA	532	1.0666	0.0056	0.0661
0.01	E110	1_TssA	490	1.0664	0.0052	0.0747
1.00E-04	E044	7_Enh	17	1.0661	0.0163	0.3348
0.01	E007	1_TssA	667	1.0657	0.0070	0.0488

1.00E-04	E119	7_Enh	44	1.0644	0.0422	0.3015
0.01	E083	1_TssA	397	1.0644	0.0042	0.1026
0.01	E084	2_TssAFlnk	256	1.0642	0.0027	0.1517
0.01	E049	1_TssA	605	1.0640	0.0064	0.0614
1.00E-04	E058	7_Enh	38	1.0628	0.0364	0.3130
0.01	E015	12_EnhBiv	240	1.0627	0.0025	0.1642
0.01	E002	10_TssBiv	145	1.0626	0.0015	0.2174
0.01	E100	1_TssA	867	1.0625	0.0091	0.0362
0.01	E116	1_TssA	892	1.0625	0.0094	0.0342
0.001	E009	10_TssBiv	7	1.0622	0.0008	0.3404
0.001	E078	6_EnhG	16	1.0620	0.0017	0.3422
0.01	E091	2_TssAFlnk	336	1.0618	0.0035	0.1297
0.01	E069	6_EnhG	238	1.0616	0.0025	0.1690
0.01	E082	1_TssA	795	1.0610	0.0084	0.0461
0.01	E020	10_TssBiv	392	1.0609	0.0041	0.1160
0.01	E047	1_TssA	485	1.0609	0.0051	0.0930
0.01	E047	6_EnhG	186	1.0607	0.0020	0.1988
0.001	E013	6_EnhG	43	1.0601	0.0046	0.3148
0.01	E117	1_TssA	688	1.0599	0.0072	0.0616
0.001	E081	11_BivFlnk	4	1.0598	0.0004	0.3271
0.01	E126	1_TssA	816	1.0598	0.0086	0.0472
0.01	E111	1_TssA	805	1.0593	0.0085	0.0497
0.001	E044	2_TssAFlnk	67	1.0591	0.0072	0.2912
0.01	E097	1_TssA	885	1.0591	0.0093	0.0425
0.01	E120	1_TssA	789	1.0591	0.0083	0.0518
0.01	E062	1_TssA	236	1.0588	0.0025	0.1802
0.01	E034	6_EnhG	724	1.0586	0.0076	0.0607
0.01	E055	2_TssAFlnk	703	1.0571	0.0074	0.0683
0.01	E009	10_TssBiv	71	1.0567	0.0007	0.2944
0.01	E073	10_TssBiv	91	1.0564	0.0010	0.2777
0.001	E091	1_TssA	47	1.0562	0.0050	0.3188
0.01	E005	1_TssA	489	1.0560	0.0051	0.1099
0.01	E115	1_TssA	312	1.0556	0.0033	0.1618
0.01	E104	6_EnhG	39	1.0555	0.0004	0.3293
0.01	E055	1_TssA	714	1.0554	0.0075	0.0724
0.01	E073	1_TssA	921	1.0550	0.0097	0.0505
0.01	E125	1_TssA	611	1.0548	0.0064	0.0903
0.001	E019	1_TssA	68	1.0545	0.0073	0.3026
0.01	E047	3_TxFlnk	12	1.0542	0.0001	0.3539
0.001	E037	7_Enh	296	1.0537	0.0318	0.1721
0.01	E025	11_BivFlnk	33	1.0537	0.0003	0.3390
0.01	E066	1_TssA	519	1.0533	0.0055	0.1141
0.01	E109	1_TssA	535	1.0532	0.0056	0.1110

0.01	E008	10_TssBiv	179	1.0530	0.0019	0.2309
0.01	E058	2_TssAFlnk	553	1.0527	0.0058	0.1095
0.01	E105	1_TssA	871	1.0526	0.0092	0.0631
0.01	E071	1_TssA	820	1.0523	0.0086	0.0698
0.001	E076	12_EnhBiv	4	1.0520	0.0004	0.3326
0.001	E019	10_TssBiv	32	1.0519	0.0034	0.3434
0.01	E068	1_TssA	1015	1.0515	0.0107	0.0529
1.00E-05	E023	7_Enh	4	1.0513	0.0421	0.3322
0.01	E019	2_TssAFlnk	331	1.0513	0.0035	0.1733
0.01	E040	1_TssA	404	1.0502	0.0043	0.1556
0.01	E103	1_TssA	968	1.0502	0.0102	0.0617
0.01	E077	1_TssA	808	1.0500	0.0085	0.0801
0.001	E047	2_TssAFlnk	42	1.0498	0.0045	0.3385
0.01	E108	10_TssBiv	74	1.0498	0.0008	0.3111
0.01	E078	1_TssA	875	1.0496	0.0092	0.0734
0.001	E045	2_TssAFlnk	40	1.0496	0.0043	0.3406
0.01	E125	12_EnhBiv	69	1.0495	0.0007	0.3159
0.01	E048	11_BivFlnk	18	1.0492	0.0002	0.3592
0.01	E102	12_EnhBiv	60	1.0488	0.0006	0.3251
0.01	E032	10_TssBiv	9	1.0486	0.0001	0.3578
0.01	E071	10_TssBiv	106	1.0483	0.0011	0.2920
0.01	E018	10_TssBiv	405	1.0481	0.0043	0.1654
0.01	E092	1_TssA	534	1.0480	0.0056	0.1339
0.01	E095	2_TssAFlnk	154	1.0478	0.0016	0.2646
0.001	E090	10_TssBiv	7	1.0477	0.0008	0.3539
0.001	E108	11_BivFlnk	11	1.0477	0.0012	0.3612
0.01	E080	10_TssBiv	74	1.0474	0.0008	0.3179
0.01	E123	11_BivFlnk	9	1.0473	0.0001	0.3592
0.01	E125	6_EnhG	207	1.0472	0.0022	0.2403
0.01	E075	6_EnhG	123	1.0471	0.0013	0.2852
1.00E-04	E121	2_TssAFlnk	4	1.0470	0.0038	0.3361
1.00E-04	E006	6_EnhG	11	1.0465	0.0105	0.3623
1.00E-04	E084	7_Enh	35	1.0463	0.0336	0.3506
0.001	E044	7_Enh	149	1.0461	0.0160	0.2726
0.001	E089	1_TssA	50	1.0460	0.0054	0.3403
0.001	E077	7_Enh	226	1.0457	0.0243	0.2359
0.01	E069	1_TssA	808	1.0456	0.0085	0.0990
0.001	E079	10_TssBiv	3	1.0455	0.0003	0.3235
1.00E-04	E026	7_Enh	36	1.0454	0.0345	0.3516
0.01	E014	10_TssBiv	299	1.0452	0.0031	0.2121
0.01	E081	7_Enh	3167	1.0450	0.0333	0.0060
0.01	E020	11_BivFlnk	128	1.0448	0.0013	0.2906
1.00E-04	E092	7_Enh	27	1.0446	0.0259	0.3605

0.001	E027	3_TxFlnk	7	1.0446	0.0008	0.3568
0.01	E121	1_TssA	771	1.0445	0.0081	0.1094
0.01	E081	1_TssA	378	1.0443	0.0040	0.1915
0.01	E112	11_BivFlnk	80	1.0442	0.0008	0.3231
0.01	E092	12_EnhBiv	590	1.0441	0.0062	0.1422
0.001	E120	2_TssAFlnk	37	1.0440	0.0040	0.3553
0.01	E115	3_TxFlnk	213	1.0440	0.0022	0.2513
0.01	E043	1_TssA	329	1.0438	0.0035	0.2089
0.001	E076	10_TssBiv	7	1.0438	0.0008	0.3576
0.01	E035	12_EnhBiv	97	1.0435	0.0010	0.3140
0.001	E096	2_TssAFlnk	13	1.0433	0.0014	0.3679
0.01	E096	1_TssA	583	1.0433	0.0061	0.1477
0.01	E122	1_TssA	444	1.0432	0.0047	0.1790
0.001	E001	2_TssAFlnk	22	1.0430	0.0024	0.3671
0.01	E076	1_TssA	759	1.0426	0.0080	0.1212
0.01	E042	6_EnhG	342	1.0425	0.0036	0.2111
0.01	E050	2_TssAFlnk	948	1.0421	0.0100	0.0988
0.01	E085	1_TssA	630	1.0420	0.0066	0.1457
0.001	E061	2_TssAFlnk	37	1.0420	0.0040	0.3597
0.01	E121	12_EnhBiv	47	1.0417	0.0005	0.3533
1.00E-04	E111	2_TssAFlnk	10	1.0416	0.0096	0.3669
0.01	E005	2_TssAFlnk	168	1.0412	0.0018	0.2835
0.01	E084	12_EnhBiv	143	1.0410	0.0015	0.2968
0.001	E011	2_TssAFlnk	27	1.0408	0.0029	0.3685
1.00E-04	E058	2_TssAFlnk	6	1.0402	0.0058	0.3564
0.001	E124	7_Enh	244	1.0395	0.0262	0.2571
0.01	E109	6_EnhG	20	1.0389	0.0002	0.3746
0.001	E027	2_TssAFlnk	39	1.0389	0.0042	0.3651
0.01	E041	1_TssA	479	1.0388	0.0050	0.1946
0.01	E018	12_EnhBiv	242	1.0388	0.0025	0.2638
0.01	E123	1_TssA	729	1.0386	0.0077	0.1479
0.001	E037	1_TssA	48	1.0382	0.0052	0.3611
0.01	E109	2_TssAFlnk	30	1.0380	0.0003	0.3725
0.01	E075	2_TssAFlnk	365	1.0379	0.0038	0.2288
1.00E-05	E121	7_Enh	3	1.0376	0.0316	0.3280
0.01	E026	10_TssBiv	59	1.0376	0.0006	0.3561
0.01	E057	12_EnhBiv	136	1.0373	0.0014	0.3147
0.001	E079	2_TssAFlnk	16	1.0372	0.0017	0.3773
0.01	E046	2_TssAFlnk	436	1.0369	0.0046	0.2160
0.001	E056	12_EnhBiv	34	1.0368	0.0036	0.3726
0.01	E024	1_TssA	662	1.0367	0.0070	0.1705
0.01	E035	2_TssAFlnk	754	1.0367	0.0079	0.1559
0.01	E079	2_TssAFlnk	163	1.0363	0.0017	0.3064

0.01	E026	1_TssA	760	1.0362	0.0080	0.1582
0.01	E088	10_TssBiv	57	1.0361	0.0006	0.3613
0.01	E032	1_TssA	344	1.0361	0.0036	0.2449
0.01	E020	1_TssA	791	1.0359	0.0083	0.1553
0.01	E055	11_BivFlnk	200	1.0359	0.0021	0.2933
0.01	E122	6_EnhG	293	1.0356	0.0031	0.2624
0.01	E124	1_TssA	381	1.0356	0.0040	0.2373
1.00E-04	E075	7_Enh	12	1.0354	0.0115	0.3770
0.01	E107	6_EnhG	483	1.0353	0.0051	0.2149
0.01	E025	2_TssAFlnk	762	1.0352	0.0080	0.1645
0.001	E038	2_TssAFlnk	52	1.0351	0.0056	0.3665
0.01	E120	2_TssAFlnk	374	1.0351	0.0039	0.2424
0.01	E082	10_TssBiv	172	1.0350	0.0018	0.3086
1.00E-04	E053	6_EnhG	3	1.0348	0.0029	0.3301
0.01	E126	6_EnhG	323	1.0344	0.0034	0.2600
1.00E-04	E040	7_Enh	28	1.0341	0.0268	0.3799
0.001	E072	2_TssAFlnk	44	1.0340	0.0047	0.3736
0.001	E078	11_BivFlnk	8	1.0340	0.0009	0.3708
1.00E-05	E083	7_Enh	5	1.0338	0.0526	0.3546
0.001	E109	7_Enh	136	1.0337	0.0146	0.3282
0.01	E104	1_TssA	1011	1.0337	0.0106	0.1412
0.01	E068	6_EnhG	240	1.0333	0.0025	0.2914
0.01	E021	6_EnhG	44	1.0333	0.0005	0.3757
0.01	E106	1_TssA	545	1.0332	0.0057	0.2152
1.00E-04	E011	2_TssAFlnk	3	1.0330	0.0029	0.3313
1.00E-04	E119	2_TssAFlnk	6	1.0326	0.0058	0.3632
0.01	E049	3_TxFlnk	59	1.0323	0.0006	0.3705
0.01	E026	3_TxFlnk	75	1.0319	0.0008	0.3640
0.01	E051	1_TssA	305	1.0318	0.0032	0.2796
0.01	E121	2_TssAFlnk	359	1.0317	0.0038	0.2659
0.01	E052	12_EnhBiv	86	1.0317	0.0009	0.3595
0.01	E024	10_TssBiv	57	1.0311	0.0006	0.3750
0.01	E057	3_TxFlnk	118	1.0311	0.0012	0.3473
0.01	E102	2_TssAFlnk	554	1.0307	0.0058	0.2297
0.01	E081	12_EnhBiv	339	1.0298	0.0036	0.2823
1.00E-04	E093	2_TssAFlnk	4	1.0296	0.0038	0.3486
0.01	E070	10_TssBiv	214	1.0295	0.0023	0.3192
0.01	E056	12_EnhBiv	344	1.0289	0.0036	0.2866
0.01	E079	1_TssA	661	1.0287	0.0070	0.2259
0.01	E082	2_TssAFlnk	381	1.0286	0.0040	0.2801
0.001	E088	12_EnhBiv	19	1.0286	0.0020	0.3914
0.01	E011	3_TxFlnk	105	1.0283	0.0011	0.3631
0.001	E003	11_BivFlnk	15	1.0282	0.0016	0.3898

0.01	E095	1_TssA	740	1.0282	0.0078	0.2177
0.01	E074	10_TssBiv	40	1.0278	0.0004	0.3903
0.001	E042	12_EnhBiv	10	1.0278	0.0011	0.3832
0.01	E006	2_TssAFlnk	226	1.0275	0.0024	0.3260
0.001	E088	2_TssAFlnk	34	1.0271	0.0036	0.3934
0.01	E021	11_BivFlnk	31	1.0270	0.0003	0.3944
0.01	E052	6_EnhG	378	1.0269	0.0040	0.2912
0.01	E063	10_TssBiv	32	1.0267	0.0003	0.3949
0.001	E104	7_Enh	248	1.0265	0.0266	0.3235
0.01	E022	1_TssA	597	1.0262	0.0063	0.2549
0.001	E081	7_Enh	305	1.0261	0.0327	0.3107
0.01	E009	2_TssAFlnk	286	1.0261	0.0030	0.3178
0.01	E020	3_TxFlnk	71	1.0260	0.0007	0.3839
0.01	E011	1_TssA	935	1.0260	0.0098	0.2097
1.00E-04	E115	2_TssAFlnk	8	1.0248	0.0077	0.3804
1.00E-04	E028	7_Enh	43	1.0247	0.0412	0.3957
0.01	E036	2_TssAFlnk	742	1.0245	0.0078	0.2468
0.01	E054	11_BivFlnk	79	1.0244	0.0008	0.3864
0.01	E066	2_TssAFlnk	684	1.0242	0.0072	0.2579
0.001	E028	12_EnhBiv	8	1.0240	0.0009	0.3813
1.00E-04	E032	6_EnhG	7	1.0240	0.0067	0.3768
0.01	E093	1_TssA	394	1.0239	0.0041	0.3080
0.001	E117	2_TssAFlnk	77	1.0238	0.0083	0.3886
0.01	E050	1_TssA	256	1.0237	0.0027	0.3386
0.01	E016	12_EnhBiv	195	1.0236	0.0021	0.3547
0.01	E041	12_EnhBiv	167	1.0234	0.0018	0.3630
0.001	E042	2_TssAFlnk	57	1.0232	0.0061	0.3967
0.01	E001	2_TssAFlnk	220	1.0230	0.0023	0.3512
0.001	E092	6_EnhG	62	1.0230	0.0067	0.3960
0.01	E117	7_Enh	2591	1.0228	0.0273	0.1207
0.01	E014	2_TssAFlnk	318	1.0224	0.0033	0.3331
0.01	E072	1_TssA	881	1.0218	0.0093	0.2531
0.01	E010	2_TssAFlnk	512	1.0217	0.0054	0.3036
1.00E-04	E026	2_TssAFlnk	8	1.0216	0.0077	0.3837
0.001	E097	7_Enh	246	1.0209	0.0264	0.3555
1.00E-04	E118	7_Enh	43	1.0205	0.0412	0.4061
0.01	E031	1_TssA	284	1.0202	0.0030	0.3532
0.01	E100	2_TssAFlnk	127	1.0201	0.0013	0.3884
0.01	E027	10_TssBiv	40	1.0197	0.0004	0.4096
1.00E-04	E129	2_TssAFlnk	8	1.0196	0.0077	0.3859
0.01	E063	2_TssAFlnk	839	1.0194	0.0088	0.2811
0.01	E051	12_EnhBiv	208	1.0193	0.0022	0.3738
1.00E-04	E007	1_TssA	7	1.0186	0.0067	0.3822

0.01	E046	1_TssA	346	1.0178	0.0036	0.3579
0.01	E056	1_TssA	749	1.0177	0.0079	0.3072
0.001	E082	7_Enh	155	1.0175	0.0166	0.3933
0.01	E124	3_TxFlnk	73	1.0174	0.0008	0.4110
0.001	E127	12_EnhBiv	8	1.0173	0.0009	0.3884
0.001	E070	2_TssAFlnk	41	1.0170	0.0044	0.4161
0.01	E010	11_BivFlnk	65	1.0169	0.0007	0.4138
0.001	E018	1_TssA	85	1.0169	0.0091	0.4101
0.001	E016	12_EnhBiv	19	1.0169	0.0020	0.4107
1.00E-04	E102	2_TssAFlnk	6	1.0167	0.0058	0.3778
0.001	E113	2_TssAFlnk	13	1.0160	0.0014	0.4045
1.00E-04	E011	7_Enh	31	1.0159	0.0297	0.4173
0.01	E107	10_TssBiv	91	1.0156	0.0010	0.4140
0.01	E083	12_EnhBiv	118	1.0154	0.0012	0.4100
0.01	E043	6_EnhG	532	1.0153	0.0056	0.3522
0.01	E061	3_TxFlnk	58	1.0148	0.0006	0.4209
0.01	E108	2_TssAFlnk	782	1.0146	0.0082	0.3333
0.001	E115	7_Enh	176	1.0145	0.0189	0.4039
0.01	E080	7_Enh	3430	1.0141	0.0361	0.1996
0.001	E110	11_BivFlnk	3	1.0137	0.0003	0.3437
0.01	E112	2_TssAFlnk	315	1.0136	0.0033	0.3908
0.01	E081	11_BivFlnk	39	1.0135	0.0004	0.4244
0.01	E073	2_TssAFlnk	317	1.0133	0.0033	0.3923
0.001	E106	7_Enh	165	1.0133	0.0177	0.4118
0.01	E082	7_Enh	1573	1.0128	0.0166	0.3002
0.01	E067	2_TssAFlnk	307	1.0123	0.0032	0.4002
0.01	E032	12_EnhBiv	262	1.0123	0.0028	0.4056
0.01	E007	7_Enh	1881	1.0116	0.0198	0.3013
0.001	E053	1_TssA	42	1.0114	0.0045	0.4301
0.01	E025	3_TxFlnk	73	1.0112	0.0008	0.4313
0.01	E061	2_TssAFlnk	366	1.0109	0.0039	0.4039
1.00E-04	E101	2_TssAFlnk	6	1.0108	0.0058	0.3834
0.001	E048	12_EnhBiv	6	1.0106	0.0006	0.3836
0.001	E107	2_TssAFlnk	77	1.0104	0.0083	0.4338
0.01	E027	3_TxFlnk	69	1.0099	0.0007	0.4356
0.01	E007	6_EnhG	36	1.0099	0.0004	0.4324
0.01	E072	2_TssAFlnk	438	1.0096	0.0046	0.4083
0.01	E085	2_TssAFlnk	245	1.0096	0.0026	0.4240
0.01	E043	2_TssAFlnk	730	1.0095	0.0077	0.3891
0.001	E090	2_TssAFlnk	33	1.0094	0.0035	0.4325
0.01	E028	2_TssAFlnk	164	1.0091	0.0017	0.4333
0.001	E040	7_Enh	244	1.0088	0.0262	0.4278
0.001	E047	7_Enh	261	1.0085	0.0280	0.4287

0.01	E112	1_TssA	563	1.0084	0.0059	0.4105
0.001	E080	11_BivFlnk	20	1.0083	0.0021	0.4263
0.001	E107	7_Enh	303	1.0083	0.0325	0.4270
0.001	E098	2_TssAFlnk	27	1.0082	0.0029	0.4323
1.00E-04	E110	7_Enh	35	1.0081	0.0336	0.4360
1.00E-04	E017	7_Enh	36	1.0078	0.0345	0.4369
0.01	E114	7_Enh	2467	1.0077	0.0260	0.3442
1.00E-04	E043	2_TssAFlnk	8	1.0076	0.0077	0.3990
1.00E-04	E040	2_TssAFlnk	5	1.0074	0.0048	0.3776
0.01	E062	2_TssAFlnk	513	1.0073	0.0054	0.4228
0.01	E102	10_TssBiv	67	1.0073	0.0007	0.4440
0.001	E058	6_EnhG	61	1.0071	0.0065	0.4440
0.01	E057	1_TssA	606	1.0070	0.0064	0.4214
0.01	E016	2_TssAFlnk	231	1.0068	0.0024	0.4414
0.01	E099	10_TssBiv	13	1.0068	0.0001	0.4173
0.01	E040	2_TssAFlnk	455	1.0066	0.0048	0.4320
0.001	E018	12_EnhBiv	23	1.0065	0.0025	0.4324
0.01	E087	10_TssBiv	44	1.0065	0.0005	0.4430
0.001	E043	12_EnhBiv	14	1.0063	0.0015	0.4203
0.001	E029	7_Enh	361	1.0062	0.0387	0.4387
1.00E-04	E036	2_TssAFlnk	8	1.0060	0.0077	0.4007
0.01	E093	12_EnhBiv	232	1.0057	0.0024	0.4478
0.001	E105	7_Enh	224	1.0049	0.0240	0.4529
1.00E-04	E114	7_Enh	27	1.0045	0.0259	0.4397
1.00E-04	E091	1_TssA	5	1.0038	0.0048	0.3807
0.01	E075	1_TssA	689	1.0037	0.0073	0.4512
0.01	E042	2_TssAFlnk	570	1.0036	0.0060	0.4545
0.001	E068	7_Enh	254	1.0036	0.0273	0.4602
0.01	E110	7_Enh	3172	1.0031	0.0334	0.4241
0.01	E061	10_TssBiv	66	1.0030	0.0007	0.4575
0.001	E068	2_TssAFlnk	46	1.0030	0.0049	0.4528
0.001	E044	3_TxFlnk	10	1.0029	0.0011	0.4133
0.01	E084	1_TssA	641	1.0028	0.0067	0.4610
0.01	E089	12_EnhBiv	1367	1.0027	0.0144	0.4532
0.01	E078	12_EnhBiv	75	1.0027	0.0008	0.4601
0.001	E111	7_Enh	169	1.0022	0.0181	0.4679
0.01	E041	11_BivFlnk	82	1.0022	0.0009	0.4629
0.01	E058	1_TssA	609	1.0021	0.0064	0.4683
0.001	E089	12_EnhBiv	134	1.0021	0.0144	0.4673
0.01	E090	2_TssAFlnk	334	1.0021	0.0035	0.4703
0.001	E056	7_Enh	187	1.0018	0.0201	0.4707
0.01	E104	2_TssAFlnk	151	1.0016	0.0016	0.4704
0.01	E086	7_Enh	1570	1.0014	0.0165	0.4715

0.01	E115	12_EnhBiv	40	1.0011	0.0004	0.4552
0.001	E062	2_TssAFlnk	50	1.0010	0.0054	0.4597
0.001	E093	3_TxFlnk	5	1.0009	0.0005	0.3832
0.01	E006	7_Enh	2626	1.0008	0.0276	0.4785
0.01	E059	1_TssA	718	1.0006	0.0076	0.4831
1.00E-04	E087	1_TssA	12	1.0004	0.0115	0.4235
0.01	E034	1_TssA	349	1.0000	0.0037	0.4860
0.001	E101	2_TssAFlnk	53	0.9995	0.0057	0.4650
0.01	E119	6_EnhG	274	0.9994	0.0029	0.4877
0.001	E100	10_TssBiv	8	0.9989	0.0009	0.4086
0.01	E086	10_TssBiv	76	0.9986	0.0008	0.4743
1.00E-04	E067	7_Enh	24	0.9986	0.0230	0.4487
0.01	E055	7_Enh	3028	0.9979	0.0319	0.5422
1.00E-04	E084	1_TssA	7	0.9974	0.0067	0.4040
0.01	E052	2_TssAFlnk	737	0.9970	0.0078	0.5225
0.01	E037	12_EnhBiv	63	0.9968	0.0007	0.4767
0.01	E072	7_Enh	2379	0.9966	0.0250	0.5609
0.01	E048	7_Enh	2192	0.9964	0.0231	0.5615
1.00E-04	E063	2_TssAFlnk	9	0.9959	0.0086	0.4175
0.01	E115	7_Enh	1761	0.9956	0.0185	0.5671
0.01	E053	12_EnhBiv	207	0.9956	0.0022	0.5070
0.01	E118	12_EnhBiv	433	0.9955	0.0046	0.5246
0.001	E069	7_Enh	251	0.9955	0.0269	0.5124
0.01	E018	2_TssAFlnk	232	0.9954	0.0024	0.5108
0.01	E096	6_EnhG	378	0.9952	0.0040	0.5238
0.01	E049	2_TssAFlnk	912	0.9951	0.0096	0.5501
0.01	E040	6_EnhG	182	0.9950	0.0019	0.5071
0.01	E069	7_Enh	2558	0.9950	0.0269	0.5955
0.001	E094	7_Enh	149	0.9947	0.0160	0.5042
0.01	E017	2_TssAFlnk	293	0.9945	0.0031	0.5226
0.01	E068	2_TssAFlnk	465	0.9944	0.0049	0.5358
0.01	E097	7_Enh	2443	0.9944	0.0257	0.6054
0.001	E127	7_Enh	319	0.9941	0.0342	0.5280
0.01	E015	2_TssAFlnk	354	0.9940	0.0037	0.5310
0.001	E041	7_Enh	263	0.9938	0.0282	0.5245
0.01	E084	6_EnhG	362	0.9938	0.0038	0.5336
1.00E-04	E030	7_Enh	27	0.9936	0.0259	0.4626
0.001	E090	12_EnhBiv	63	0.9935	0.0068	0.4873
1.00E-04	E074	7_Enh	31	0.9934	0.0297	0.4674
0.001	E004	12_EnhBiv	4	0.9933	0.0004	0.3764
0.001	E003	1_TssA	67	0.9933	0.0072	0.4896
0.01	E032	2_TssAFlnk	415	0.9933	0.0044	0.5417
0.01	E014	12_EnhBiv	200	0.9931	0.0021	0.5206

0.01	E070	7_Enh	2075	0.9929	0.0218	0.6228
0.01	E040	7_Enh	2448	0.9927	0.0258	0.6378
0.01	E077	2_TssAFlnk	631	0.9925	0.0066	0.5646
0.01	E099	12_EnhBiv	101	0.9924	0.0011	0.5044
0.01	E031	3_TxFlnk	41	0.9919	0.0004	0.4793
0.01	E106	6_EnhG	196	0.9918	0.0021	0.5269
0.01	E111	2_TssAFlnk	867	0.9916	0.0091	0.5904
0.01	E129	10_TssBiv	65	0.9912	0.0007	0.4955
0.01	E116	3_TxFlnk	207	0.9909	0.0022	0.5344
0.01	E053	2_TssAFlnk	467	0.9907	0.0049	0.5683
0.001	E074	6_EnhG	18	0.9906	0.0019	0.4537
1.00E-04	E071	7_Enh	33	0.9906	0.0316	0.4760
0.001	E006	6_EnhG	93	0.9905	0.0100	0.5095
0.01	E046	6_EnhG	541	0.9904	0.0057	0.5782
0.01	E109	7_Enh	1328	0.9900	0.0140	0.6368
0.01	E091	12_EnhBiv	405	0.9900	0.0043	0.5675
1.00E-04	E056	1_TssA	8	0.9899	0.0077	0.4188
0.01	E123	12_EnhBiv	52	0.9896	0.0005	0.4933
0.01	E045	7_Enh	1241	0.9894	0.0131	0.6411
0.01	E031	2_TssAFlnk	782	0.9892	0.0082	0.6108
0.01	E074	7_Enh	2811	0.9890	0.0296	0.7197
1.00E-05	E071	7_Enh	3	0.9887	0.0316	0.3606
0.001	E114	6_EnhG	51	0.9882	0.0055	0.4969
0.01	E054	2_TssAFlnk	554	0.9881	0.0058	0.6007
0.01	E089	7_Enh	2091	0.9879	0.0220	0.7083
0.01	E125	7_Enh	2688	0.9879	0.0283	0.7356
0.01	E067	7_Enh	2162	0.9878	0.0228	0.7145
0.001	E002	1_TssA	71	0.9877	0.0076	0.5102
0.01	E059	6_EnhG	401	0.9876	0.0042	0.5859
0.01	E068	3_TxFlnk	19	0.9875	0.0002	0.4612
1.00E-04	E106	7_Enh	18	0.9875	0.0173	0.4593
0.01	E050	12_EnhBiv	200	0.9875	0.0021	0.5525
0.01	E034	12_EnhBiv	487	0.9872	0.0051	0.6009
0.01	E030	7_Enh	2443	0.9871	0.0257	0.7384
0.001	E037	2_TssAFlnk	45	0.9869	0.0048	0.4959
0.01	E079	12_EnhBiv	65	0.9869	0.0007	0.5097
0.01	E090	7_Enh	3935	0.9868	0.0414	0.7998
0.001	E080	7_Enh	327	0.9857	0.0351	0.5908
0.01	E012	10_TssBiv	234	0.9854	0.0025	0.5725
0.001	E075	7_Enh	102	0.9852	0.0109	0.5341
0.01	E103	2_TssAFlnk	381	0.9852	0.0040	0.6018
0.01	E123	7_Enh	2519	0.9852	0.0265	0.7729
0.01	E119	11_BivFlnk	48	0.9850	0.0005	0.5036

0.01	E115	2_TssAFlnk	700	0.9845	0.0074	0.6518
0.01	E053	7_Enh	3263	0.9843	0.0344	0.8185
0.001	E120	6_EnhG	44	0.9842	0.0047	0.5025
0.01	E037	7_Enh	2818	0.9839	0.0297	0.8057
0.01	E123	6_EnhG	423	0.9839	0.0045	0.6189
0.01	E051	2_TssAFlnk	1395	0.9839	0.0147	0.7245
0.001	E124	2_TssAFlnk	137	0.9838	0.0147	0.5542
0.01	E042	7_Enh	2129	0.9835	0.0224	0.7781
0.01	E039	7_Enh	2469	0.9834	0.0260	0.7970
0.01	E014	6_EnhG	126	0.9834	0.0013	0.5514
0.01	E071	6_EnhG	281	0.9834	0.0030	0.5957
0.001	E061	12_EnhBiv	14	0.9834	0.0015	0.4547
0.001	E102	7_Enh	221	0.9831	0.0237	0.5841
0.001	E110	6_EnhG	7	0.9831	0.0008	0.4192
0.01	E054	7_Enh	2383	0.9829	0.0251	0.8001
0.01	E110	12_EnhBiv	196	0.9826	0.0021	0.5791
0.001	E036	7_Enh	294	0.9825	0.0316	0.6063
0.001	E072	7_Enh	230	0.9824	0.0247	0.5910
0.01	E073	7_Enh	1806	0.9823	0.0190	0.7749
1.00E-04	E118	6_EnhG	6	0.9821	0.0058	0.4113
0.01	E048	6_EnhG	160	0.9816	0.0017	0.5729
0.01	E047	7_Enh	2590	0.9816	0.0273	0.8290
0.01	E126	7_Enh	3717	0.9810	0.0391	0.8825
0.01	E041	2_TssAFlnk	766	0.9806	0.0081	0.6994
0.001	E058	7_Enh	313	0.9799	0.0336	0.6287
0.001	E056	10_TssBiv	13	0.9799	0.0014	0.4562
0.01	E036	7_Enh	2989	0.9797	0.0315	0.8707
0.01	E114	2_TssAFlnk	733	0.9796	0.0077	0.7043
0.001	E095	7_Enh	279	0.9793	0.0299	0.6239
0.01	E057	2_TssAFlnk	481	0.9790	0.0051	0.6697
0.01	E030	12_EnhBiv	116	0.9788	0.0012	0.5677
0.001	E050	1_TssA	24	0.9785	0.0026	0.4887
0.01	E099	2_TssAFlnk	116	0.9784	0.0012	0.5693
0.01	E034	2_TssAFlnk	480	0.9782	0.0051	0.6759
0.001	E030	1_TssA	24	0.9779	0.0026	0.4899
1.00E-04	E096	1_TssA	6	0.9779	0.0058	0.4156
0.01	E085	6_EnhG	787	0.9777	0.0083	0.7309
0.01	E107	7_Enh	2995	0.9775	0.0315	0.8957
0.01	E031	7_Enh	2142	0.9770	0.0225	0.8597
0.01	E061	1_TssA	505	0.9769	0.0053	0.6908
0.01	E051	7_Enh	3205	0.9768	0.0337	0.9110
0.001	E116	7_Enh	233	0.9766	0.0250	0.6272
0.001	E055	6_EnhG	80	0.9766	0.0086	0.5555

0.001	E035	7_Enh	250	0.9760	0.0268	0.6366
0.01	E009	12_EnhBiv	160	0.9759	0.0017	0.6015
0.001	E070	7_Enh	200	0.9758	0.0215	0.6200
0.01	E023	2_TssAFlnk	829	0.9757	0.0087	0.7551
0.01	E113	3_TxFlnk	19	0.9756	0.0002	0.4826
0.01	E033	2_TssAFlnk	639	0.9756	0.0067	0.7266
0.01	E112	7_Enh	1311	0.9755	0.0138	0.8130
0.01	E045	2_TssAFlnk	379	0.9754	0.0040	0.6748
0.001	E028	6_EnhG	32	0.9753	0.0034	0.5100
0.001	E085	6_EnhG	77	0.9752	0.0083	0.5582
0.01	E030	2_TssAFlnk	847	0.9751	0.0089	0.7631
0.01	E056	2_TssAFlnk	453	0.9749	0.0048	0.6960
0.01	E044	10_TssBiv	39	0.9745	0.0004	0.5222
0.01	E026	2_TssAFlnk	695	0.9745	0.0073	0.7458
0.01	E092	7_Enh	2294	0.9745	0.0241	0.8933
0.01	E071	2_TssAFlnk	521	0.9744	0.0055	0.7145
0.01	E108	12_EnhBiv	184	0.9737	0.0019	0.6237
0.01	E123	3_TxFlnk	132	0.9735	0.0014	0.5998
0.001	E016	1_TssA	72	0.9731	0.0077	0.5615
0.01	E043	12_EnhBiv	138	0.9729	0.0015	0.6059
0.001	E066	1_TssA	47	0.9725	0.0050	0.5383
0.01	E050	7_Enh	3412	0.9724	0.0359	0.9516
0.001	E101	1_TssA	91	0.9724	0.0098	0.5793
0.01	E080	12_EnhBiv	648	0.9723	0.0068	0.7564
0.01	E044	2_TssAFlnk	627	0.9722	0.0066	0.7538
0.01	E034	3_TxFlnk	46	0.9719	0.0005	0.5385
1.00E-04	E029	7_Enh	39	0.9710	0.0374	0.5328
0.01	E047	2_TssAFlnk	396	0.9708	0.0042	0.7125
0.01	E081	2_TssAFlnk	243	0.9706	0.0026	0.6646
0.01	E025	6_EnhG	499	0.9702	0.0053	0.7430
0.01	E036	3_TxFlnk	79	0.9701	0.0008	0.5781
0.001	E040	2_TssAFlnk	43	0.9699	0.0046	0.5403
0.01	E129	7_Enh	3170	0.9697	0.0334	0.9609
0.01	E111	7_Enh	1667	0.9696	0.0175	0.8964
0.01	E053	6_EnhG	256	0.9696	0.0027	0.6759
0.001	E038	1_TssA	49	0.9695	0.0053	0.5493
0.01	E057	6_EnhG	524	0.9695	0.0055	0.7539
0.01	E104	7_Enh	2388	0.9695	0.0251	0.9370
0.01	E119	2_TssAFlnk	513	0.9694	0.0054	0.7518
0.01	E101	2_TssAFlnk	524	0.9692	0.0055	0.7556
0.01	E114	6_EnhG	510	0.9692	0.0054	0.7525
0.01	E107	2_TssAFlnk	753	0.9691	0.0079	0.8010
0.01	E076	2_TssAFlnk	362	0.9688	0.0038	0.7164

0.01	E098	1_TssA	568	0.9681	0.0060	0.7739
0.01	E118	2_TssAFlnk	820	0.9680	0.0086	0.8206
0.01	E010	6_EnhG	209	0.9677	0.0022	0.6669
0.01	E003	6_EnhG	96	0.9675	0.0010	0.6018
0.001	E102	2_TssAFlnk	51	0.9674	0.0055	0.5579
0.01	E122	7_Enh	2771	0.9674	0.0292	0.9615
0.001	E116	11_BivFlnk	3	0.9674	0.0003	0.3754
0.001	E046	7_Enh	240	0.9673	0.0258	0.6853
0.01	E025	7_Enh	4810	0.9672	0.0506	0.9913
0.001	E095	10_TssBiv	4	0.9672	0.0004	0.3977
0.01	E091	6_EnhG	454	0.9669	0.0048	0.7554
0.001	E119	6_EnhG	26	0.9669	0.0028	0.5172
0.01	E062	7_Enh	804	0.9667	0.0085	0.8279
0.001	E048	1_TssA	48	0.9665	0.0052	0.5566
0.001	E114	7_Enh	232	0.9662	0.0249	0.6878
0.001	E082	1_TssA	71	0.9661	0.0076	0.5851
0.01	E095	7_Enh	2806	0.9661	0.0295	0.9682
0.01	E101	3_TxFlnk	45	0.9660	0.0005	0.5535
0.01	E061	7_Enh	3346	0.9660	0.0352	0.9793
0.01	E120	7_Enh	2574	0.9659	0.0271	0.9625
1.00E-04	E016	1_TssA	8	0.9659	0.0077	0.4470
0.001	E115	1_TssA	28	0.9659	0.0030	0.5240
0.001	E051	1_TssA	28	0.9658	0.0030	0.5242
0.01	E073	6_EnhG	200	0.9657	0.0021	0.6735
0.01	E043	7_Enh	2521	0.9651	0.0265	0.9646
0.01	E098	7_Enh	2618	0.9640	0.0276	0.9715
0.01	E115	6_EnhG	444	0.9639	0.0047	0.7731
0.01	E037	2_TssAFlnk	448	0.9637	0.0047	0.7758
0.01	E070	2_TssAFlnk	396	0.9634	0.0042	0.7627
0.01	E063	6_EnhG	362	0.9632	0.0038	0.7531
0.01	E100	7_Enh	1979	0.9625	0.0208	0.9566
0.01	E088	7_Enh	3436	0.9624	0.0362	0.9890
0.01	E025	12_EnhBiv	123	0.9622	0.0013	0.6444
0.01	E127	2_TssAFlnk	671	0.9622	0.0071	0.8370
0.01	E022	7_Enh	2654	0.9621	0.0279	0.9782
0.01	E017	7_Enh	3129	0.9618	0.0329	0.9867
0.01	E056	7_Enh	1830	0.9616	0.0193	0.9544
0.01	E049	12_EnhBiv	81	0.9616	0.0009	0.6110
0.01	E107	12_EnhBiv	345	0.9614	0.0036	0.7584
0.001	E007	1_TssA	59	0.9611	0.0063	0.5878
0.01	E053	11_BivFlnk	110	0.9610	0.0012	0.6396
0.01	E006	12_EnhBiv	203	0.9607	0.0021	0.7015
0.01	E094	6_EnhG	298	0.9607	0.0031	0.7454

0.01	E038	7_Enh	2216	0.9606	0.0233	0.9721
0.01	E038	6_EnhG	211	0.9605	0.0022	0.7072
0.01	E011	2_TssAFlnk	254	0.9603	0.0027	0.7287
0.01	E010	7_Enh	2936	0.9599	0.0309	0.9880
0.01	E076	7_Enh	2753	0.9598	0.0290	0.9857
0.01	E039	6_EnhG	332	0.9597	0.0035	0.7643
0.001	E069	11_BivFlnk	4	0.9596	0.0004	0.4040
0.01	E087	7_Enh	1202	0.9595	0.0127	0.9244
0.01	E057	7_Enh	3019	0.9591	0.0318	0.9904
0.01	E128	3_TxFlnk	64	0.9588	0.0007	0.6013
0.01	E120	6_EnhG	437	0.9587	0.0046	0.8045
0.01	E020	2_TssAFlnk	378	0.9587	0.0040	0.7861
0.001	E039	3_TxFlnk	15	0.9587	0.0016	0.4978
0.001	E123	1_TssA	66	0.9587	0.0071	0.6045
0.01	E091	7_Enh	3416	0.9585	0.0360	0.9943
0.001	E024	11_BivFlnk	9	0.9583	0.0010	0.4640
0.01	E080	6_EnhG	672	0.9583	0.0071	0.8621
0.01	E106	11_BivFlnk	11	0.9582	0.0001	0.4778
0.01	E092	6_EnhG	592	0.9580	0.0062	0.8478
0.01	E128	7_Enh	2303	0.9577	0.0242	0.9822
0.001	E097	2_TssAFlnk	15	0.9577	0.0016	0.4995
1.00E-04	E022	7_Enh	29	0.9575	0.0278	0.5464
0.01	E113	7_Enh	2278	0.9573	0.0240	0.9826
0.01	E034	7_Enh	2110	0.9572	0.0222	0.9791
0.01	E118	7_Enh	3673	0.9571	0.0387	0.9967
0.001	E113	1_TssA	39	0.9571	0.0042	0.5678
0.001	E032	11_BivFlnk	6	0.9570	0.0006	0.4369
0.01	E088	2_TssAFlnk	323	0.9570	0.0034	0.7762
0.01	E041	7_Enh	2582	0.9569	0.0272	0.9885
0.01	E066	10_TssBiv	5	0.9566	0.0001	0.4238
0.01	E059	7_Enh	1679	0.9565	0.0177	0.9669
0.01	E052	7_Enh	3298	0.9565	0.0347	0.9955
1.00E-05	E026	7_Enh	3	0.9564	0.0316	0.3838
0.01	E083	6_EnhG	108	0.9562	0.0011	0.6576
0.01	E129	2_TssAFlnk	683	0.9558	0.0072	0.8788
0.001	E034	2_TssAFlnk	46	0.9558	0.0049	0.5843
0.001	E125	7_Enh	255	0.9555	0.0274	0.7586
0.01	E068	7_Enh	2465	0.9553	0.0259	0.9895
0.001	E076	2_TssAFlnk	35	0.9550	0.0038	0.5649
0.01	E103	7_Enh	1839	0.9548	0.0194	0.9775
0.01	E009	7_Enh	2277	0.9547	0.0240	0.9876
1.00E-04	E009	7_Enh	25	0.9547	0.0240	0.5418
1.00E-04	E020	1_TssA	8	0.9542	0.0077	0.4611

0.01	E071	7_Enh	2894	0.9538	0.0305	0.9952
0.001	E019	12_EnhBiv	24	0.9537	0.0026	0.5399
0.01	E017	6_EnhG	825	0.9536	0.0087	0.9131
0.01	E033	6_EnhG	349	0.9532	0.0037	0.8078
0.01	E077	7_Enh	2100	0.9530	0.0221	0.9873
1.00E-05	E057	7_Enh	3	0.9529	0.0316	0.3865
0.01	E023	7_Enh	3625	0.9529	0.0382	0.9986
0.01	E032	7_Enh	2732	0.9526	0.0288	0.9952
0.01	E010	12_EnhBiv	170	0.9525	0.0018	0.7221
0.01	E084	7_Enh	2902	0.9525	0.0305	0.9962
0.01	E122	2_TssAFlnk	632	0.9519	0.0067	0.8900
0.01	E039	2_TssAFlnk	609	0.9516	0.0064	0.8872
1.00E-04	E124	7_Enh	25	0.9514	0.0240	0.5488
0.01	E111	12_EnhBiv	136	0.9512	0.0014	0.7026
0.001	E110	7_Enh	295	0.9512	0.0317	0.8004
0.01	E019	12_EnhBiv	244	0.9510	0.0026	0.7737
0.01	E038	2_TssAFlnk	487	0.9508	0.0051	0.8633
0.01	E085	12_EnhBiv	135	0.9502	0.0014	0.7062
0.01	E011	12_EnhBiv	138	0.9502	0.0015	0.7089
0.01	E096	7_Enh	1869	0.9498	0.0197	0.9878
0.001	E117	7_Enh	236	0.9498	0.0253	0.7780
0.001	E098	7_Enh	253	0.9498	0.0272	0.7873
0.001	E033	2_TssAFlnk	61	0.9495	0.0065	0.6274
1.00E-04	E004	7_Enh	18	0.9493	0.0173	0.5278
0.01	E108	7_Enh	3116	0.9490	0.0328	0.9986
0.01	E111	3_TxFlnk	85	0.9490	0.0009	0.6613
0.001	E042	3_TxFlnk	29	0.9486	0.0031	0.5654
0.01	E002	7_Enh	1153	0.9486	0.0121	0.9641
0.01	E119	7_Enh	3571	0.9485	0.0376	0.9994
0.01	E125	2_TssAFlnk	532	0.9480	0.0056	0.8883
0.01	E028	7_Enh	3623	0.9479	0.0381	0.9995
0.01	E102	7_Enh	2172	0.9477	0.0229	0.9945
0.01	E026	7_Enh	2972	0.9476	0.0313	0.9986
1.00E-04	E038	7_Enh	24	0.9475	0.0230	0.5538
0.01	E041	6_EnhG	547	0.9475	0.0058	0.8942
1.00E-04	E052	1_TssA	6	0.9471	0.0058	0.4475
0.01	E046	12_EnhBiv	224	0.9471	0.0024	0.7818
0.01	E044	7_Enh	1375	0.9468	0.0145	0.9795
0.01	E058	3_TxFlnk	108	0.9466	0.0011	0.6958
0.01	E124	7_Enh	2265	0.9464	0.0238	0.9961
0.001	E054	2_TssAFlnk	52	0.9456	0.0056	0.6244
0.01	E127	7_Enh	3093	0.9454	0.0326	0.9993
0.01	E012	7_Enh	2485	0.9451	0.0262	0.9979

0.001	E062	7_Enh	77	0.9440	0.0083	0.6694
0.001	E056	2_TssAFlnk	43	0.9435	0.0046	0.6124
0.001	E026	2_TssAFlnk	66	0.9435	0.0071	0.6546
0.001	E055	10_TssBiv	9	0.9435	0.0010	0.4833
0.01	E027	7_Enh	3969	0.9432	0.0418	0.9999
0.01	E063	7_Enh	3111	0.9431	0.0328	0.9996
0.001	E096	7_Enh	182	0.9430	0.0195	0.7760
0.001	E073	7_Enh	170	0.9427	0.0182	0.7686
0.001	E063	7_Enh	305	0.9426	0.0327	0.8467
1.00E-04	E055	1_TssA	7	0.9423	0.0067	0.4651
0.01	E090	12_EnhBiv	609	0.9420	0.0064	0.9291
0.01	E083	7_Enh	4554	0.9416	0.0479	1.0000
1.00E-04	E043	7_Enh	27	0.9414	0.0259	0.5773
0.01	E024	7_Enh	3237	0.9413	0.0341	0.9998
1.00E-04	E128	1_TssA	8	0.9412	0.0077	0.4771
0.01	E027	6_EnhG	615	0.9407	0.0065	0.9346
0.01	E013	2_TssAFlnk	85	0.9405	0.0009	0.6914
0.01	E078	10_TssBiv	140	0.9401	0.0015	0.7527
0.01	E029	7_Enh	3439	0.9401	0.0362	0.9999
1.00E-04	E022	1_TssA	6	0.9393	0.0058	0.4559
0.01	E048	3_TxFlnk	20	0.9393	0.0002	0.5542
1.00E-04	E098	7_Enh	28	0.9390	0.0268	0.5861
0.01	E126	2_TssAFlnk	386	0.9389	0.0041	0.8891
0.001	E106	10_TssBiv	3	0.9388	0.0003	0.3965
0.001	E004	7_Enh	159	0.9387	0.0171	0.7766
0.01	E033	7_Enh	1868	0.9387	0.0197	0.9973
0.001	E051	11_BivFlnk	21	0.9387	0.0023	0.5597
0.01	E056	6_EnhG	630	0.9385	0.0066	0.9439
0.01	E095	6_EnhG	382	0.9385	0.0040	0.8894
0.01	E090	6_EnhG	784	0.9384	0.0083	0.9628
0.001	E090	7_Enh	367	0.9384	0.0394	0.8894
0.001	E020	10_TssBiv	34	0.9382	0.0036	0.6042
0.001	E086	10_TssBiv	7	0.9378	0.0008	0.4702
0.01	E035	7_Enh	2449	0.9377	0.0258	0.9994
1.00E-04	E045	2_TssAFlnk	4	0.9376	0.0038	0.4231
0.001	E009	1_TssA	58	0.9374	0.0062	0.6603
0.01	E049	7_Enh	3399	0.9372	0.0358	0.9999
0.01	E078	7_Enh	1566	0.9372	0.0165	0.9954
0.01	E021	2_TssAFlnk	48	0.9371	0.0005	0.6406
0.01	E013	7_Enh	2525	0.9371	0.0266	0.9996
0.01	E101	7_Enh	1270	0.9370	0.0134	0.9904
0.01	E105	7_Enh	2129	0.9368	0.0224	0.9989
0.01	E072	6_EnhG	251	0.9366	0.0026	0.8435

1.00E-04	E013	1_TssA	8	0.9366	0.0077	0.4830
0.001	E023	2_TssAFlnk	78	0.9360	0.0084	0.6981
0.01	E121	7_Enh	2705	0.9356	0.0285	0.9998
0.01	E093	2_TssAFlnk	331	0.9355	0.0035	0.8835
0.01	E127	3_TxFlnk	96	0.9347	0.0010	0.7266
0.001	E119	7_Enh	345	0.9343	0.0370	0.8974
0.001	E122	1_TssA	39	0.9343	0.0042	0.6275
0.01	E089	2_TssAFlnk	235	0.9339	0.0025	0.8457
0.01	E022	12_EnhBiv	147	0.9339	0.0015	0.7838
0.01	E006	6_EnhG	894	0.9339	0.0094	0.9802
0.01	E074	6_EnhG	173	0.9338	0.0018	0.8056
0.01	E022	2_TssAFlnk	203	0.9336	0.0021	0.8276
0.01	E044	12_EnhBiv	83	0.9331	0.0009	0.7145
0.01	E020	7_Enh	2365	0.9328	0.0249	0.9997
1.00E-04	E041	2_TssAFlnk	8	0.9327	0.0077	0.4878
0.01	E049	6_EnhG	389	0.9324	0.0041	0.9139
0.01	E119	12_EnhBiv	53	0.9324	0.0006	0.6648
0.01	E077	12_EnhBiv	82	0.9324	0.0009	0.7154
0.001	E074	1_TssA	70	0.9323	0.0075	0.6975
0.001	E100	7_Enh	188	0.9323	0.0202	0.8252
0.01	E059	10_TssBiv	59	0.9321	0.0006	0.6777
0.001	E115	2_TssAFlnk	65	0.9321	0.0070	0.6895
0.01	E027	12_EnhBiv	125	0.9320	0.0013	0.7700
0.01	E003	2_TssAFlnk	142	0.9316	0.0015	0.7883
0.01	E066	7_Enh	3039	0.9315	0.0320	1.0000
0.01	E069	2_TssAFlnk	390	0.9313	0.0041	0.9180
0.01	E011	7_Enh	2587	0.9309	0.0272	0.9999
0.01	E093	6_EnhG	499	0.9308	0.0053	0.9448
0.01	E113	6_EnhG	553	0.9308	0.0058	0.9540
0.01	E012	12_EnhBiv	212	0.9306	0.0022	0.8450
0.01	E005	7_Enh	2699	0.9304	0.0284	0.9999
0.01	E059	12_EnhBiv	216	0.9297	0.0023	0.8511
0.01	E128	2_TssAFlnk	295	0.9293	0.0031	0.8923
1.00E-04	E049	7_Enh	37	0.9292	0.0355	0.6381
0.001	E103	1_TssA	84	0.9291	0.0090	0.7303
0.01	E118	6_EnhG	517	0.9291	0.0054	0.9524
0.001	E074	7_Enh	259	0.9291	0.0278	0.8801
0.01	E099	7_Enh	1914	0.9288	0.0201	0.9995
0.01	E076	12_EnhBiv	36	0.9286	0.0004	0.6334
0.01	E058	7_Enh	3023	0.9283	0.0318	1.0000
0.01	E022	6_EnhG	731	0.9281	0.0077	0.9786
1.00E-04	E034	2_TssAFlnk	5	0.9280	0.0048	0.4520
0.001	E055	7_Enh	276	0.9274	0.0296	0.8943

0.001	E006	2_TssAFlnk	20	0.9271	0.0021	0.5781
0.01	E018	3_TxFlnk	26	0.9270	0.0003	0.6037
1.00E-04	E094	1_TssA	6	0.9270	0.0058	0.4694
0.001	E050	7_Enh	319	0.9269	0.0342	0.9133
0.001	E126	1_TssA	70	0.9269	0.0075	0.7148
0.001	E092	7_Enh	214	0.9269	0.0230	0.8631
0.01	E013	3_TxFlnk	57	0.9268	0.0006	0.6896
0.001	E045	1_TssA	53	0.9268	0.0057	0.6817
0.001	E010	7_Enh	278	0.9267	0.0298	0.8975
0.001	E088	10_TssBiv	5	0.9266	0.0005	0.4532
0.001	E090	1_TssA	42	0.9262	0.0045	0.6566
0.01	E014	7_Enh	2992	0.9262	0.0315	1.0000
0.001	E094	2_TssAFlnk	9	0.9262	0.0010	0.5063
0.01	E051	6_EnhG	333	0.9261	0.0035	0.9172
0.001	E108	2_TssAFlnk	70	0.9260	0.0075	0.7176
0.01	E015	11_BivFlnk	143	0.9259	0.0015	0.8103
1.00E-04	E057	7_Enh	32	0.9258	0.0307	0.6305
0.01	E077	6_EnhG	255	0.9256	0.0027	0.8871
1.00E-04	E042	7_Enh	22	0.9256	0.0211	0.5918
0.001	E035	2_TssAFlnk	66	0.9252	0.0071	0.7129
0.01	E116	2_TssAFlnk	1011	0.9252	0.0106	0.9938
0.01	E116	7_Enh	2250	0.9250	0.0237	0.9999
0.01	E070	12_EnhBiv	102	0.9250	0.0011	0.7685
0.001	E005	1_TssA	42	0.9247	0.0045	0.6606
0.01	E058	6_EnhG	571	0.9246	0.0060	0.9696
1.00E-04	E051	1_TssA	3	0.9244	0.0029	0.4077
0.01	E085	7_Enh	2555	0.9241	0.0269	1.0000
0.001	E039	2_TssAFlnk	58	0.9240	0.0062	0.7005
0.01	E088	12_EnhBiv	174	0.9239	0.0018	0.8437
0.01	E118	11_BivFlnk	202	0.9236	0.0021	0.8644
0.001	E051	7_Enh	297	0.9229	0.0319	0.9175
0.01	E017	12_EnhBiv	192	0.9227	0.0020	0.8608
0.01	E092	2_TssAFlnk	187	0.9224	0.0020	0.8584
0.001	E103	6_EnhG	10	0.9223	0.0011	0.5212
0.01	E093	7_Enh	2559	0.9222	0.0269	1.0000
0.001	E091	12_EnhBiv	37	0.9221	0.0040	0.6530
0.001	E120	7_Enh	241	0.9221	0.0259	0.8948
0.01	E028	10_TssBiv	25	0.9219	0.0003	0.6108
0.01	E019	11_BivFlnk	134	0.9213	0.0014	0.8175
0.01	E013	6_EnhG	381	0.9212	0.0040	0.9444
0.001	E127	2_TssAFlnk	63	0.9211	0.0068	0.7195
0.01	E058	12_EnhBiv	133	0.9210	0.0014	0.8175
0.01	E001	6_EnhG	69	0.9209	0.0007	0.7309

0.01	E106	10_TssBiv	30	0.9208	0.0003	0.6326
0.01	E094	7_Enh	1406	0.9207	0.0148	0.9992
0.001	E033	1_TssA	46	0.9204	0.0049	0.6827
0.001	E057	7_Enh	284	0.9198	0.0305	0.9211
1.00E-05	E066	7_Enh	3	0.9195	0.0316	0.4124
0.001	E013	7_Enh	243	0.9195	0.0261	0.9039
0.001	E017	7_Enh	293	0.9183	0.0314	0.9289
1.00E-05	E129	7_Enh	3	0.9176	0.0316	0.4139
0.001	E070	11_BivFlnk	13	0.9176	0.0014	0.5533
0.001	E126	2_TssAFlnk	37	0.9176	0.0040	0.6644
0.01	E001	7_Enh	3148	0.9168	0.0331	1.0000
0.001	E080	2_TssAFlnk	29	0.9165	0.0031	0.6390
0.001	E044	6_EnhG	34	0.9162	0.0036	0.6580
0.01	E122	10_TssBiv	23	0.9160	0.0002	0.6143
0.01	E106	7_Enh	1520	0.9156	0.0160	0.9998
0.01	E039	12_EnhBiv	77	0.9155	0.0008	0.7619
0.01	E003	7_Enh	2529	0.9155	0.0266	1.0000
0.01	E079	7_Enh	1555	0.9153	0.0164	0.9998
0.01	E046	7_Enh	2315	0.9151	0.0244	1.0000
0.01	E067	6_EnhG	144	0.9150	0.0015	0.8480
0.001	E126	7_Enh	340	0.9149	0.0365	0.9519
0.001	E047	1_TssA	41	0.9144	0.0044	0.6848
0.001	E077	2_TssAFlnk	57	0.9141	0.0061	0.7270
0.001	E088	7_Enh	320	0.9138	0.0343	0.9485
0.01	E029	2_TssAFlnk	390	0.9135	0.0041	0.9629
0.01	E105	6_EnhG	323	0.9131	0.0034	0.9479
1.00E-04	E099	1_TssA	5	0.9130	0.0048	0.4673
1.00E-04	E013	7_Enh	27	0.9126	0.0259	0.6419
0.001	E029	1_TssA	29	0.9123	0.0031	0.6485
0.001	E016	10_TssBiv	33	0.9123	0.0035	0.6639
0.001	E040	12_EnhBiv	12	0.9118	0.0013	0.5546
1.00E-04	E056	3_TxFlnk	4	0.9117	0.0038	0.4465
0.01	E121	6_EnhG	189	0.9116	0.0020	0.8935
0.01	E089	6_EnhG	619	0.9114	0.0065	0.9900
0.001	E085	3_TxFlnk	8	0.9114	0.0009	0.5148
0.01	E014	11_BivFlnk	93	0.9108	0.0010	0.8018
0.001	E129	7_Enh	292	0.9107	0.0313	0.9467
0.001	E009	7_Enh	213	0.9105	0.0229	0.9134
0.01	E127	6_EnhG	410	0.9105	0.0043	0.9714
0.01	E045	6_EnhG	121	0.9104	0.0013	0.8389
0.01	E065	7_Enh	864	0.9100	0.0091	0.9975
0.001	E108	7_Enh	293	0.9098	0.0314	0.9488
0.001	E061	7_Enh	309	0.9095	0.0332	0.9542

0.001	E009	11_BivFlnk	4	0.9095	0.0004	0.4484
0.01	E124	2_TssAFlnk	1291	0.9093	0.0136	0.9997
0.01	E093	10_TssBiv	55	0.9090	0.0006	0.7362
0.01	E016	7_Enh	2862	0.9087	0.0301	1.0000
0.001	E125	2_TssAFlnk	50	0.9084	0.0054	0.7258
0.001	E068	1_TssA	86	0.9084	0.0092	0.7994
1.00E-04	E123	1_TssA	7	0.9083	0.0067	0.5058
0.01	E050	6_EnhG	276	0.9081	0.0029	0.9443
1.00E-04	E057	1_TssA	6	0.9080	0.0058	0.4907
0.01	E008	7_Enh	1423	0.9076	0.0150	0.9999
0.001	E055	3_TxFlnk	25	0.9076	0.0027	0.6418
0.001	E071	10_TssBiv	9	0.9075	0.0010	0.5318
0.01	E018	7_Enh	2819	0.9070	0.0297	1.0000
0.001	E091	7_Enh	317	0.9069	0.0340	0.9612
0.01	E014	3_TxFlnk	43	0.9065	0.0005	0.7107
0.001	E059	7_Enh	156	0.9061	0.0167	0.8871
0.001	E127	6_EnhG	40	0.9057	0.0043	0.7039
0.001	E088	1_TssA	49	0.9051	0.0053	0.7318
0.01	E004	7_Enh	1563	0.9051	0.0165	1.0000
1.00E-05	E053	7_Enh	3	0.9049	0.0316	0.4243
0.01	E078	6_EnhG	139	0.9049	0.0015	0.8736
0.01	E096	10_TssBiv	5	0.9048	0.0001	0.4755
0.001	E004	1_TssA	57	0.9045	0.0061	0.7539
0.001	E027	6_EnhG	58	0.9045	0.0062	0.7563
0.01	E069	12_EnhBiv	57	0.9045	0.0006	0.7533
0.001	E055	1_TssA	60	0.9042	0.0064	0.7617
0.001	E027	7_Enh	373	0.9037	0.0400	0.9772
0.01	E112	3_TxFlnk	39	0.9034	0.0004	0.7059
0.001	E128	12_EnhBiv	3	0.9033	0.0003	0.4244
0.01	E015	7_Enh	3062	0.9032	0.0322	1.0000
0.01	E035	6_EnhG	127	0.9015	0.0013	0.8712
0.01	E020	6_EnhG	109	0.9010	0.0011	0.8522
0.001	E089	7_Enh	187	0.9008	0.0201	0.9225
0.001	E054	1_TssA	59	0.9005	0.0063	0.7696
0.01	E028	6_EnhG	301	0.8998	0.0032	0.9663
0.01	E042	1_TssA	241	0.8996	0.0025	0.9487
0.01	E102	3_TxFlnk	21	0.8996	0.0002	0.6375
1.00E-04	E011	1_TssA	9	0.8995	0.0086	0.5434
0.001	E094	1_TssA	52	0.8994	0.0056	0.7551
0.01	E005	12_EnhBiv	91	0.8992	0.0010	0.8325
0.01	E011	11_BivFlnk	36	0.8991	0.0004	0.7059
0.001	E017	1_TssA	54	0.8990	0.0058	0.7613
0.01	E116	6_EnhG	360	0.8989	0.0038	0.9787

0.001	E051	2_TssAFlnk	125	0.8988	0.0134	0.8779
0.001	E011	7_Enh	245	0.8988	0.0263	0.9538
0.01	E077	10_TssBiv	78	0.8986	0.0008	0.8128
1.00E-04	E116	7_Enh	24	0.8986	0.0230	0.6581
1.00E-04	E103	7_Enh	19	0.8984	0.0182	0.6297
0.01	E061	6_EnhG	552	0.8975	0.0058	0.9949
0.001	E119	12_EnhBiv	5	0.8968	0.0005	0.4840
0.01	E005	6_EnhG	450	0.8968	0.0047	0.9901
0.001	E049	1_TssA	50	0.8966	0.0054	0.7570
1.00E-04	E109	1_TssA	5	0.8965	0.0048	0.4846
0.001	E072	12_EnhBiv	4	0.8963	0.0004	0.4609
0.01	E054	12_EnhBiv	66	0.8959	0.0007	0.7966
0.01	E111	6_EnhG	343	0.8957	0.0036	0.9796
0.01	E021	7_Enh	1322	0.8955	0.0139	1.0000
0.001	E011	1_TssA	80	0.8950	0.0086	0.8270
0.01	E019	7_Enh	2911	0.8949	0.0306	1.0000
0.01	E003	12_EnhBiv	258	0.8945	0.0027	0.9630
0.001	E034	6_EnhG	60	0.8945	0.0064	0.7879
1.00E-04	E062	2_TssAFlnk	5	0.8942	0.0048	0.4870
0.001	E086	12_EnhBiv	4	0.8940	0.0004	0.4631
0.01	E075	7_Enh	943	0.8934	0.0099	0.9998
0.01	E116	12_EnhBiv	44	0.8933	0.0005	0.7469
0.001	E084	1_TssA	56	0.8932	0.0060	0.7814
1.00E-04	E047	2_TssAFlnk	4	0.8931	0.0038	0.4641
0.001	E113	6_EnhG	52	0.8923	0.0056	0.7733
1.00E-04	E017	1_TssA	6	0.8923	0.0058	0.5088
0.001	E076	7_Enh	251	0.8922	0.0269	0.9663
0.01	E015	6_EnhG	171	0.8922	0.0018	0.9296
0.001	E089	2_TssAFlnk	22	0.8914	0.0024	0.6598
0.01	E055	6_EnhG	744	0.8908	0.0078	0.9993
0.01	E051	10_TssBiv	17	0.8905	0.0002	0.6294
1.00E-04	E037	7_Enh	28	0.8904	0.0268	0.6960
0.001	E023	1_TssA	74	0.8895	0.0079	0.8306
0.01	E105	11_BivFlnk	29	0.8893	0.0003	0.6999
0.001	E055	2_TssAFlnk	58	0.8892	0.0062	0.7968
0.001	E025	1_TssA	79	0.8889	0.0085	0.8413
0.01	E028	3_TxFlnk	13	0.8884	0.0001	0.6009
0.001	E028	7_Enh	333	0.8883	0.0357	0.9866
0.01	E032	6_EnhG	553	0.8882	0.0058	0.9976
0.001	E079	7_Enh	148	0.8881	0.0159	0.9239
0.001	E015	10_TssBiv	28	0.8881	0.0030	0.6981
0.01	E102	6_EnhG	165	0.8878	0.0017	0.9345
0.01	E054	3_TxFlnk	23	0.8873	0.0002	0.6735

1.00E-05	E080	7_Enh	3	0.8869	0.0316	0.4394
0.01	E009	6_EnhG	167	0.8868	0.0018	0.9377
0.001	E056	1_TssA	64	0.8866	0.0069	0.8174
0.001	E025	2_TssAFlnk	64	0.8864	0.0069	0.8177
1.00E-04	E023	7_Enh	37	0.8858	0.0355	0.7458
0.001	E065	1_TssA	73	0.8855	0.0078	0.8386
0.001	E121	7_Enh	251	0.8852	0.0269	0.9751
0.001	E067	7_Enh	190	0.8850	0.0204	0.9546
0.01	E031	12_EnhBiv	79	0.8849	0.0008	0.8500
1.00E-05	E015	7_Enh	3	0.8848	0.0316	0.4411
0.001	E008	1_TssA	85	0.8846	0.0091	0.8620
0.001	E092	12_EnhBiv	49	0.8841	0.0053	0.7854
0.01	E019	6_EnhG	79	0.8837	0.0008	0.8531
0.001	E029	2_TssAFlnk	37	0.8836	0.0040	0.7466
0.01	E101	6_EnhG	154	0.8823	0.0016	0.9377
0.01	E048	2_TssAFlnk	389	0.8813	0.0041	0.9941
1.00E-04	E036	6_EnhG	5	0.8808	0.0048	0.5014
0.001	E107	12_EnhBiv	31	0.8808	0.0033	0.7281
0.01	E054	10_TssBiv	34	0.8804	0.0004	0.7414
1.00E-04	E015	1_TssA	8	0.8804	0.0077	0.5564
0.001	E125	1_TssA	50	0.8801	0.0054	0.7979
0.01	E016	6_EnhG	115	0.8799	0.0012	0.9102
1.00E-04	E102	1_TssA	6	0.8796	0.0058	0.5237
0.001	E039	1_TssA	32	0.8793	0.0034	0.7357
0.001	E001	1_TssA	81	0.8790	0.0087	0.8685
0.001	E121	2_TssAFlnk	30	0.8790	0.0032	0.7273
0.001	E054	7_Enh	209	0.8789	0.0224	0.9704
0.001	E067	1_TssA	74	0.8788	0.0079	0.8568
0.001	E107	11_BivFlnk	15	0.8788	0.0016	0.6350
0.001	E095	1_TssA	62	0.8783	0.0067	0.8330
0.001	E024	1_TssA	55	0.8782	0.0059	0.8161
0.001	E087	1_TssA	94	0.8772	0.0101	0.8923
0.001	E036	12_EnhBiv	12	0.8772	0.0013	0.6095
0.01	E065	10_TssBiv	12	0.8771	0.0001	0.6095
1.00E-04	E113	1_TssA	4	0.8769	0.0038	0.4798
0.001	E085	1_TssA	52	0.8769	0.0056	0.8111
0.001	E118	7_Enh	330	0.8768	0.0354	0.9930
0.01	E018	11_BivFlnk	103	0.8764	0.0011	0.9042
0.001	E011	6_EnhG	19	0.8759	0.0020	0.6710
0.001	E104	1_TssA	84	0.8757	0.0090	0.8810
0.01	E112	6_EnhG	209	0.8755	0.0022	0.9727
0.001	E014	1_TssA	65	0.8754	0.0070	0.8463
0.001	E108	3_TxFlnk	4	0.8753	0.0004	0.4811

0.001	E044	11_BivFlnk	10	0.8753	0.0011	0.5899
0.01	E094	3_TxFlnk	10	0.8752	0.0001	0.5899
0.001	E010	2_TssAFlnk	43	0.8748	0.0046	0.7883
0.001	E040	1_TssA	33	0.8746	0.0035	0.7505
0.01	E067	10_TssBiv	47	0.8744	0.0005	0.8016
0.001	E019	2_TssAFlnk	27	0.8743	0.0029	0.7226
1.00E-04	E102	7_Enh	22	0.8742	0.0211	0.6966
0.001	E050	2_TssAFlnk	78	0.8742	0.0084	0.8743
0.001	E129	1_TssA	54	0.8740	0.0058	0.8231
1.00E-04	E021	1_TssA	7	0.8740	0.0067	0.5489
0.01	E123	10_TssBiv	9	0.8735	0.0001	0.5795
0.001	E058	2_TssAFlnk	45	0.8734	0.0048	0.7982
0.001	E112	7_Enh	115	0.8725	0.0123	0.9261
1.00E-05	E024	7_Enh	3	0.8723	0.0316	0.4520
0.001	E114	2_TssAFlnk	64	0.8721	0.0069	0.8518
1.00E-04	E032	2_TssAFlnk	4	0.8720	0.0038	0.4846
0.01	E085	10_TssBiv	104	0.8716	0.0011	0.9149
0.01	E127	10_TssBiv	68	0.8710	0.0007	0.8616
0.001	E059	3_TxFlnk	6	0.8703	0.0006	0.5344
0.001	E104	3_TxFlnk	10	0.8699	0.0011	0.5979
0.001	E075	2_TssAFlnk	30	0.8698	0.0032	0.7473
0.001	E052	7_Enh	294	0.8693	0.0316	0.9931
0.001	E128	1_TssA	66	0.8693	0.0071	0.8622
0.001	E006	1_TssA	40	0.8693	0.0043	0.7902
0.01	E098	6_EnhG	285	0.8682	0.0030	0.9920
1.00E-04	E034	7_Enh	21	0.8676	0.0201	0.7031
0.01	E078	3_TxFlnk	26	0.8675	0.0003	0.7310
0.001	E003	10_TssBiv	18	0.8675	0.0019	0.6795
0.01	E074	2_TssAFlnk	299	0.8668	0.0031	0.9938
1.00E-04	E009	1_TssA	6	0.8662	0.0058	0.5398
0.01	E002	12_EnhBiv	88	0.8662	0.0009	0.9053
1.00E-04	E025	2_TssAFlnk	7	0.8661	0.0067	0.5591
0.001	E042	11_BivFlnk	3	0.8656	0.0003	0.4560
0.001	E028	1_TssA	49	0.8640	0.0053	0.8313
0.001	E108	12_EnhBiv	16	0.8632	0.0017	0.6710
0.001	E109	1_TssA	43	0.8631	0.0046	0.8144
1.00E-04	E052	2_TssAFlnk	7	0.8625	0.0067	0.5637
0.001	E116	1_TssA	71	0.8622	0.0076	0.8868
0.001	E075	1_TssA	58	0.8614	0.0062	0.8609
1.00E-04	E025	7_Enh	47	0.8608	0.0451	0.8383
1.00E-04	E128	2_TssAFlnk	3	0.8607	0.0029	0.4604
0.001	E010	1_TssA	43	0.8606	0.0046	0.8195
0.001	E084	7_Enh	257	0.8600	0.0276	0.9934

0.001	E111	10_TssBiv	8	0.8599	0.0009	0.5837
0.001	E032	1_TssA	28	0.8598	0.0030	0.7579
0.001	E093	7_Enh	234	0.8598	0.0251	0.9909
0.001	E004	10_TssBiv	9	0.8597	0.0010	0.5993
1.00E-04	E023	2_TssAFlnk	8	0.8576	0.0077	0.5876
1.00E-04	E076	7_Enh	27	0.8573	0.0259	0.7609
0.01	E063	12_EnhBiv	141	0.8571	0.0015	0.9661
0.001	E079	1_TssA	54	0.8568	0.0058	0.8603
0.001	E080	12_EnhBiv	56	0.8567	0.0060	0.8656
0.001	E107	1_TssA	44	0.8562	0.0047	0.8321
0.01	E043	10_TssBiv	11	0.8562	0.0001	0.6312
0.001	E052	12_EnhBiv	7	0.8561	0.0008	0.5714
0.001	E089	6_EnhG	57	0.8557	0.0061	0.8701
0.001	E002	7_Enh	102	0.8556	0.0109	0.9410
0.001	E014	10_TssBiv	24	0.8554	0.0026	0.7439
0.01	E033	10_TssBiv	82	0.8552	0.0009	0.9169
0.001	E052	2_TssAFlnk	62	0.8552	0.0067	0.8826
0.001	E063	2_TssAFlnk	69	0.8547	0.0074	0.8974
0.001	E108	6_EnhG	35	0.8543	0.0038	0.8022
0.001	E122	7_Enh	240	0.8543	0.0258	0.9938
0.001	E083	7_Enh	405	0.8538	0.0435	0.9995
0.01	E028	12_EnhBiv	68	0.8537	0.0007	0.8965
1.00E-04	E029	2_TssAFlnk	4	0.8533	0.0038	0.5034
0.01	E004	12_EnhBiv	35	0.8525	0.0004	0.8055
0.01	E065	12_EnhBiv	4	0.8524	0.0000	0.5040
0.01	E083	2_TssAFlnk	296	0.8522	0.0031	0.9974
0.01	E055	12_EnhBiv	303	0.8516	0.0032	0.9978
0.001	E111	2_TssAFlnk	73	0.8512	0.0078	0.9107
0.001	E015	6_EnhG	16	0.8511	0.0017	0.6925
0.001	E024	2_TssAFlnk	14	0.8510	0.0015	0.6734
1.00E-04	E004	1_TssA	6	0.8505	0.0058	0.5589
1.00E-04	E079	1_TssA	6	0.8504	0.0058	0.5590
0.001	E122	3_TxFlnk	3	0.8501	0.0003	0.4696
0.01	E096	12_EnhBiv	53	0.8492	0.0006	0.8719
0.001	E004	2_TssAFlnk	3	0.8491	0.0003	0.4705
0.001	E025	7_Enh	414	0.8488	0.0444	0.9998
0.001	E052	1_TssA	48	0.8482	0.0052	0.8606
0.01	E079	6_EnhG	232	0.8475	0.0024	0.9947
0.001	E049	12_EnhBiv	7	0.8472	0.0008	0.5831
0.001	E070	1_TssA	45	0.8472	0.0048	0.8535
0.01	E006	3_TxFlnk	29	0.8471	0.0003	0.7882
0.001	E022	7_Enh	229	0.8464	0.0246	0.9952
0.001	E029	6_EnhG	26	0.8464	0.0028	0.7734

0.01	E065	2_TssAFlnk	29	0.8463	0.0003	0.7897
0.01	E008	12_EnhBiv	34	0.8462	0.0004	0.8137
0.001	E080	1_TssA	35	0.8461	0.0038	0.8188
0.01	E001	3_TxFlnk	23	0.8452	0.0002	0.7569
0.01	E101	10_TssBiv	75	0.8435	0.0008	0.9256
0.01	E086	6_EnhG	46	0.8433	0.0005	0.8632
0.001	E110	1_TssA	38	0.8432	0.0041	0.8366
0.01	E023	6_EnhG	291	0.8429	0.0031	0.9985
0.001	E078	7_Enh	138	0.8420	0.0148	0.9794
0.01	E114	3_TxFlnk	128	0.8420	0.0013	0.9743
0.001	E026	7_Enh	259	0.8419	0.0278	0.9979
0.01	E103	6_EnhG	93	0.8413	0.0010	0.9505
0.001	E073	1_TssA	72	0.8409	0.0077	0.9258
0.001	E059	2_TssAFlnk	21	0.8404	0.0023	0.7524
0.001	E085	2_TssAFlnk	20	0.8403	0.0021	0.7451
0.001	E041	1_TssA	38	0.8402	0.0041	0.8422
0.01	E067	11_BivFlnk	12	0.8397	0.0001	0.6696
1.00E-04	E099	7_Enh	19	0.8397	0.0182	0.7408
0.001	E066	2_TssAFlnk	55	0.8396	0.0059	0.8949
0.001	E091	11_BivFlnk	6	0.8394	0.0006	0.5721
0.001	E013	1_TssA	64	0.8388	0.0069	0.9154
0.01	E110	10_TssBiv	27	0.8387	0.0003	0.7935
0.001	E021	1_TssA	60	0.8386	0.0064	0.9077
0.001	E086	1_TssA	64	0.8385	0.0069	0.9158
1.00E-04	E104	1_TssA	9	0.8381	0.0086	0.6315
0.01	E080	2_TssAFlnk	270	0.8369	0.0028	0.9986
0.001	E071	7_Enh	249	0.8367	0.0267	0.9982
1.00E-04	E008	1_TssA	9	0.8367	0.0086	0.6335
0.01	E120	12_EnhBiv	18	0.8366	0.0002	0.7355
0.001	E053	7_Enh	272	0.8366	0.0292	0.9988
0.001	E081	12_EnhBiv	27	0.8363	0.0029	0.7984
0.01	E082	12_EnhBiv	52	0.8360	0.0005	0.8930
0.001	E093	2_TssAFlnk	29	0.8357	0.0031	0.8104
0.001	E128	2_TssAFlnk	26	0.8351	0.0028	0.7949
0.001	E120	1_TssA	61	0.8348	0.0065	0.9158
0.01	E086	12_EnhBiv	38	0.8330	0.0004	0.8550
1.00E-04	E042	6_EnhG	3	0.8329	0.0029	0.4854
0.001	E123	2_TssAFlnk	52	0.8329	0.0056	0.8990
0.001	E117	1_TssA	53	0.8324	0.0057	0.9021
0.001	E124	1_TssA	30	0.8314	0.0032	0.8234
0.001	E018	2_TssAFlnk	19	0.8311	0.0020	0.7537
0.01	E010	10_TssBiv	32	0.8305	0.0003	0.8344
0.001	E057	6_EnhG	44	0.8300	0.0047	0.8816

0.001	E090	6_EnhG	68	0.8298	0.0073	0.9353
0.01	E030	3_TxFlnk	39	0.8292	0.0004	0.8654
0.001	E032	3_TxFlnk	3	0.8290	0.0003	0.4888
0.01	E051	3_TxFlnk	43	0.8290	0.0005	0.8795
0.001	E013	3_TxFlnk	5	0.8289	0.0005	0.5596
0.001	E121	1_TssA	60	0.8287	0.0064	0.9229
0.001	E073	10_TssBiv	7	0.8285	0.0008	0.6078
0.001	E127	11_BivFlnk	5	0.8279	0.0005	0.5607
0.001	E020	1_TssA	62	0.8278	0.0067	0.9280
0.001	E104	6_EnhG	3	0.8278	0.0003	0.4899
0.001	E020	2_TssAFlnk	32	0.8275	0.0034	0.8402
0.01	E024	12_EnhBiv	157	0.8274	0.0017	0.9919
1.00E-05	E049	7_Enh	3	0.8271	0.0316	0.4931
0.001	E023	6_EnhG	28	0.8269	0.0030	0.8211
0.001	E123	7_Enh	207	0.8254	0.0222	0.9978
0.001	E022	1_TssA	47	0.8237	0.0050	0.9005
1.00E-04	E085	7_Enh	25	0.8235	0.0240	0.8132
0.01	E022	10_TssBiv	29	0.8224	0.0003	0.8340
0.01	E062	6_EnhG	208	0.8222	0.0022	0.9980
0.001	E005	2_TssAFlnk	13	0.8215	0.0014	0.7112
0.001	E071	6_EnhG	23	0.8207	0.0025	0.8019
0.001	E102	1_TssA	50	0.8206	0.0054	0.9130
0.001	E006	12_EnhBiv	17	0.8203	0.0018	0.7552
0.01	E061	12_EnhBiv	119	0.8198	0.0013	0.9855
0.01	E009	3_TxFlnk	54	0.8196	0.0006	0.9230
1.00E-04	E086	1_TssA	7	0.8192	0.0067	0.6210
1.00E-04	E127	1_TssA	5	0.8192	0.0048	0.5714
0.001	E050	11_BivFlnk	13	0.8190	0.0014	0.7152
0.001	E111	1_TssA	61	0.8184	0.0065	0.9387
0.001	E012	7_Enh	211	0.8182	0.0226	0.9987
0.001	E066	6_EnhG	33	0.8181	0.0035	0.8609
0.001	E015	7_Enh	272	0.8180	0.0292	0.9997
0.001	E034	1_TssA	28	0.8180	0.0030	0.8368
0.001	E084	11_BivFlnk	6	0.8175	0.0006	0.5997
1.00E-04	E056	12_EnhBiv	3	0.8172	0.0029	0.5000
0.001	E020	7_Enh	203	0.8164	0.0218	0.9986
0.001	E049	7_Enh	290	0.8153	0.0311	0.9999
0.001	E077	6_EnhG	22	0.8142	0.0024	0.8062
0.001	E128	7_Enh	192	0.8140	0.0206	0.9984
0.001	E122	2_TssAFlnk	53	0.8139	0.0057	0.9292
0.01	E065	6_EnhG	55	0.8138	0.0006	0.9328
1.00E-04	E112	7_Enh	12	0.8132	0.0115	0.7134
0.01	E024	3_TxFlnk	11	0.8129	0.0001	0.6985

0.001	E012	1_TssA	47	0.8111	0.0050	0.9190
0.001	E077	11_BivFlnk	6	0.8086	0.0006	0.6110
0.001	E107	6_EnhG	37	0.8086	0.0040	0.8922
0.001	E048	2_TssAFlnk	35	0.8085	0.0038	0.8848
0.001	E017	3_TxFlnk	5	0.8074	0.0005	0.5848
0.01	E082	6_EnhG	95	0.8070	0.0010	0.9823
0.01	E019	3_TxFlnk	32	0.8067	0.0003	0.8745
0.001	E099	7_Enh	163	0.8064	0.0175	0.9977
0.001	E034	12_EnhBiv	39	0.8060	0.0042	0.9029
0.001	E031	1_TssA	22	0.8058	0.0024	0.8203
0.001	E084	2_TssAFlnk	19	0.8053	0.0020	0.7980
0.001	E097	1_TssA	66	0.8053	0.0071	0.9603
0.001	E084	10_TssBiv	10	0.8051	0.0011	0.6955
0.01	E054	6_EnhG	141	0.8050	0.0015	0.9956
0.001	E009	2_TssAFlnk	22	0.8047	0.0024	0.8221
0.001	E052	3_TxFlnk	6	0.8040	0.0006	0.6168
0.001	E085	7_Enh	218	0.8039	0.0234	0.9996
0.01	E066	6_EnhG	330	0.8024	0.0035	1.0000
0.001	E116	2_TssAFlnk	86	0.8024	0.0092	0.9804
0.001	E057	3_TxFlnk	9	0.8018	0.0010	0.6835
0.001	E100	1_TssA	64	0.7996	0.0069	0.9630
0.001	E109	10_TssBiv	3	0.7982	0.0003	0.5180
0.001	E071	1_TssA	61	0.7981	0.0065	0.9604
0.001	E022	2_TssAFlnk	17	0.7971	0.0018	0.7936
0.01	E036	6_EnhG	412	0.7969	0.0043	1.0000
1.00E-05	E119	7_Enh	3	0.7968	0.0316	0.5225
0.001	E021	2_TssAFlnk	4	0.7962	0.0004	0.5637
0.001	E093	12_EnhBiv	18	0.7956	0.0019	0.8052
1.00E-04	E003	1_TssA	6	0.7946	0.0058	0.6295
1.00E-04	E024	7_Enh	30	0.7945	0.0288	0.8882
0.001	E033	7_Enh	155	0.7941	0.0166	0.9985
0.01	E080	3_TxFlnk	21	0.7938	0.0002	0.8321
0.001	E010	10_TssBiv	3	0.7938	0.0003	0.5223
1.00E-04	E110	1_TssA	4	0.7928	0.0038	0.5678
0.001	E001	7_Enh	267	0.7928	0.0287	1.0000
0.001	E083	1_TssA	29	0.7927	0.0031	0.8822
0.001	E015	11_BivFlnk	12	0.7921	0.0013	0.7448
0.001	E055	11_BivFlnk	15	0.7921	0.0016	0.7813
0.01	E067	3_TxFlnk	7	0.7919	0.0001	0.6570
0.01	E116	11_BivFlnk	25	0.7907	0.0003	0.8634
0.01	E042	10_TssBiv	11	0.7898	0.0001	0.7338
1.00E-04	E039	6_EnhG	3	0.7898	0.0029	0.5265
0.001	E013	2_TssAFlnk	7	0.7897	0.0008	0.6600

0.01	E101	12_EnhBiv	50	0.7896	0.0005	0.9505
0.01	E072	11_BivFlnk	29	0.7894	0.0003	0.8866
0.01	E049	10_TssBiv	41	0.7889	0.0004	0.9308
0.001	E124	11_BivFlnk	14	0.7887	0.0015	0.7753
0.001	E103	7_Enh	149	0.7887	0.0160	0.9986
1.00E-04	E028	1_TssA	5	0.7876	0.0048	0.6092
0.001	E005	7_Enh	224	0.7873	0.0240	0.9999
0.001	E118	10_TssBiv	26	0.7873	0.0028	0.8745
0.001	E014	2_TssAFlnk	24	0.7867	0.0026	0.8637
0.001	E074	10_TssBiv	3	0.7859	0.0003	0.5300
1.00E-05	E028	7_Enh	3	0.7849	0.0316	0.5345
0.001	E070	10_TssBiv	16	0.7848	0.0017	0.8033
0.001	E053	12_EnhBiv	16	0.7846	0.0017	0.8036
0.001	E096	1_TssA	43	0.7845	0.0046	0.9414
1.00E-04	E070	7_Enh	18	0.7845	0.0173	0.8253
0.001	E076	1_TssA	56	0.7843	0.0060	0.9654
1.00E-04	E056	2_TssAFlnk	4	0.7840	0.0038	0.5776
0.001	E022	3_TxFlnk	10	0.7830	0.0011	0.7283
0.001	E089	11_BivFlnk	17	0.7830	0.0018	0.8158
0.001	E024	7_Enh	264	0.7827	0.0283	1.0000
0.001	E021	7_Enh	113	0.7804	0.0121	0.9966
0.001	E023	7_Enh	291	0.7799	0.0312	1.0000
0.001	E046	1_TssA	26	0.7798	0.0028	0.8852
0.001	E014	7_Enh	247	0.7795	0.0265	1.0000
0.01	E010	3_TxFlnk	36	0.7789	0.0004	0.9278
0.001	E013	12_EnhBiv	3	0.7784	0.0003	0.5375
0.001	E069	1_TssA	59	0.7784	0.0063	0.9734
0.001	E026	1_TssA	56	0.7784	0.0060	0.9699
0.001	E108	1_TssA	40	0.7760	0.0043	0.9429
0.01	E124	10_TssBiv	28	0.7759	0.0003	0.9002
0.01	E066	3_TxFlnk	18	0.7757	0.0002	0.8357
1.00E-04	E001	1_TssA	8	0.7755	0.0077	0.7028
0.001	E029	11_BivFlnk	6	0.7748	0.0006	0.6545
1.00E-04	E010	7_Enh	26	0.7742	0.0249	0.8962
0.001	E106	6_EnhG	15	0.7739	0.0016	0.8093
0.001	E065	7_Enh	72	0.7732	0.0077	0.9867
0.01	E070	6_EnhG	95	0.7721	0.0010	0.9949
0.001	E058	1_TssA	46	0.7717	0.0049	0.9599
0.001	E090	11_BivFlnk	14	0.7714	0.0015	0.8018
0.001	E012	2_TssAFlnk	9	0.7712	0.0010	0.7277
0.001	E129	2_TssAFlnk	54	0.7705	0.0058	0.9728
0.01	E024	6_EnhG	164	0.7692	0.0017	0.9997
0.001	E072	1_TssA	65	0.7687	0.0070	0.9842

1.00E-04	E055	12_EnhBiv	3	0.7679	0.0029	0.5484
0.01	E008	6_EnhG	31	0.7677	0.0003	0.9232
0.001	E112	1_TssA	42	0.7670	0.0045	0.9561
1.00E-04	E062	7_Enh	7	0.7666	0.0067	0.6924
0.001	E102	10_TssBiv	5	0.7664	0.0005	0.6345
0.01	E100	3_TxFlnk	5	0.7656	0.0001	0.6354
0.001	E027	1_TssA	60	0.7653	0.0064	0.9820
0.001	E046	6_EnhG	41	0.7652	0.0044	0.9554
0.001	E016	3_TxFlnk	4	0.7643	0.0004	0.5995
0.001	E044	10_TssBiv	3	0.7643	0.0003	0.5518
0.01	E088	3_TxFlnk	22	0.7637	0.0002	0.8830
0.01	E018	6_EnhG	41	0.7632	0.0004	0.9568
1.00E-04	E078	7_Enh	14	0.7631	0.0134	0.8161
0.001	E057	1_TssA	45	0.7624	0.0048	0.9655
1.00E-04	E059	1_TssA	6	0.7616	0.0058	0.6725
0.001	E017	2_TssAFlnk	22	0.7613	0.0024	0.8865
0.001	E092	1_TssA	38	0.7604	0.0041	0.9527
0.001	E027	12_EnhBiv	10	0.7602	0.0011	0.7616
0.01	E121	3_TxFlnk	15	0.7598	0.0002	0.8298
1.00E-04	E095	1_TssA	6	0.7593	0.0058	0.6755
0.001	E018	6_EnhG	4	0.7591	0.0004	0.6055
0.001	E020	6_EnhG	9	0.7585	0.0010	0.7458
0.001	E019	7_Enh	242	0.7585	0.0260	1.0000
0.01	E039	10_TssBiv	16	0.7583	0.0002	0.8422
0.001	E078	1_TssA	62	0.7583	0.0067	0.9866
0.01	E075	12_EnhBiv	59	0.7580	0.0006	0.9842
0.01	E023	12_EnhBiv	42	0.7571	0.0004	0.9636
0.001	E099	1_TssA	37	0.7563	0.0040	0.9538
0.001	E016	2_TssAFlnk	17	0.7554	0.0018	0.8560
0.001	E077	1_TssA	57	0.7552	0.0061	0.9842
1.00E-04	E081	1_TssA	3	0.7548	0.0029	0.5619
0.001	E018	7_Enh	230	0.7545	0.0247	1.0000
0.001	E103	10_TssBiv	8	0.7544	0.0009	0.7311
0.001	E106	1_TssA	39	0.7538	0.0042	0.9605
1.00E-04	E005	7_Enh	24	0.7535	0.0230	0.9112
0.001	E028	2_TssAFlnk	12	0.7528	0.0013	0.8031
0.001	E127	1_TssA	41	0.7520	0.0044	0.9659
0.001	E041	3_TxFlnk	10	0.7517	0.0011	0.7736
1.00E-04	E035	2_TssAFlnk	6	0.7513	0.0058	0.6858
0.001	E119	1_TssA	41	0.7494	0.0044	0.9677
1.00E-04	E018	1_TssA	7	0.7481	0.0067	0.7174
0.001	E114	1_TssA	63	0.7471	0.0068	0.9910
0.01	E053	3_TxFlnk	9	0.7465	0.0001	0.7626

0.01	E029	3_TxFlnk	13	0.7462	0.0001	0.8256
0.001	E059	12_EnhBiv	17	0.7460	0.0018	0.8686
0.01	E086	11_BivFlnk	15	0.7453	0.0002	0.8500
0.001	E055	12_EnhBiv	26	0.7450	0.0028	0.9276
0.01	E110	6_EnhG	54	0.7438	0.0006	0.9862
0.001	E044	1_TssA	27	0.7438	0.0029	0.9333
0.001	E010	12_EnhBiv	13	0.7427	0.0014	0.8307
1.00E-04	E041	7_Enh	22	0.7426	0.0211	0.9123
0.01	E099	3_TxFlnk	3	0.7425	0.0000	0.5744
1.00E-04	E052	6_EnhG	3	0.7423	0.0029	0.5750
0.001	E084	12_EnhBiv	10	0.7422	0.0011	0.7870
0.001	E093	1_TssA	28	0.7419	0.0030	0.9392
0.001	E003	7_Enh	201	0.7418	0.0216	1.0000
1.00E-04	E114	1_TssA	7	0.7415	0.0067	0.7263
0.001	E008	7_Enh	114	0.7413	0.0122	0.9996
0.001	E036	11_BivFlnk	6	0.7405	0.0006	0.6991
1.00E-04	E121	1_TssA	6	0.7403	0.0058	0.7002
0.01	E095	12_EnhBiv	51	0.7396	0.0005	0.9854
0.001	E092	10_TssBiv	10	0.7395	0.0011	0.7907
0.001	E105	1_TssA	60	0.7393	0.0064	0.9916
0.001	E059	1_TssA	52	0.7389	0.0056	0.9868
0.001	E050	6_EnhG	22	0.7380	0.0024	0.9147
1.00E-04	E058	6_EnhG	5	0.7374	0.0048	0.6712
0.001	E114	10_TssBiv	5	0.7355	0.0005	0.6728
0.01	E040	10_TssBiv	4	0.7352	0.0000	0.6332
0.01	E001	11_BivFlnk	33	0.7346	0.0003	0.9608
0.01	E082	3_TxFlnk	22	0.7343	0.0002	0.9184
0.01	E091	10_TssBiv	14	0.7342	0.0001	0.8538
1.00E-04	E030	2_TssAFlnk	7	0.7340	0.0067	0.7364
0.001	E083	2_TssAFlnk	25	0.7339	0.0027	0.9344
1.00E-04	E120	1_TssA	6	0.7335	0.0058	0.7091
0.01	E031	6_EnhG	232	0.7324	0.0024	1.0000
0.001	E081	1_TssA	26	0.7323	0.0028	0.9402
1.00E-04	E089	7_Enh	17	0.7315	0.0163	0.8894
0.001	E090	3_TxFlnk	3	0.7306	0.0003	0.5871
0.01	E081	6_EnhG	20	0.7303	0.0002	0.9105
0.001	E012	10_TssBiv	17	0.7299	0.0018	0.8890
0.001	E098	1_TssA	42	0.7298	0.0045	0.9805
1.00E-04	E082	1_TssA	6	0.7293	0.0058	0.7146
0.01	E048	10_TssBiv	8	0.7288	0.0001	0.7660
0.001	E039	11_BivFlnk	4	0.7272	0.0004	0.6427
0.001	E057	2_TssAFlnk	35	0.7263	0.0038	0.9712
1.00E-04	E015	7_Enh	27	0.7253	0.0259	0.9528

1.00E-04	E003	7_Enh	22	0.7253	0.0211	0.9306
0.001	E035	6_EnhG	10	0.7237	0.0011	0.8121
0.01	E021	12_EnhBiv	60	0.7232	0.0006	0.9950
0.001	E042	1_TssA	19	0.7231	0.0020	0.9120
0.01	E002	11_BivFlnk	5	0.7230	0.0001	0.6884
0.01	E004	2_TssAFlnk	26	0.7218	0.0003	0.9491
0.01	E081	3_TxFlnk	3	0.7215	0.0000	0.5968
0.001	E032	6_EnhG	44	0.7205	0.0047	0.9865
0.001	E092	3_TxFlnk	3	0.7201	0.0003	0.5984
0.001	E016	7_Enh	222	0.7186	0.0238	1.0000
0.001	E007	7_Enh	131	0.7183	0.0141	1.0000
1.00E-04	E077	2_TssAFlnk	5	0.7163	0.0048	0.6976
0.001	E036	1_TssA	24	0.7148	0.0026	0.9472
1.00E-04	E074	1_TssA	6	0.7138	0.0058	0.7347
0.001	E102	6_EnhG	13	0.7132	0.0014	0.8689
1.00E-04	E024	1_TssA	5	0.7132	0.0048	0.7016
0.01	E013	12_EnhBiv	28	0.7126	0.0003	0.9627
0.001	E103	2_TssAFlnk	27	0.7118	0.0029	0.9605
0.001	E062	11_BivFlnk	5	0.7111	0.0005	0.7034
0.001	E124	3_TxFlnk	5	0.7105	0.0005	0.7042
0.001	E100	6_EnhG	3	0.7104	0.0003	0.6089
1.00E-04	E040	1_TssA	3	0.7103	0.0029	0.6094
1.00E-04	E093	1_TssA	3	0.7100	0.0029	0.6097
0.001	E079	6_EnhG	19	0.7077	0.0020	0.9278
0.001	E039	6_EnhG	24	0.7073	0.0026	0.9532
1.00E-04	E069	1_TssA	6	0.7071	0.0058	0.7433
0.001	E003	12_EnhBiv	20	0.7070	0.0021	0.9345
1.00E-04	E051	2_TssAFlnk	11	0.7066	0.0105	0.8520
0.001	E041	6_EnhG	40	0.7064	0.0043	0.9875
0.01	E005	3_TxFlnk	18	0.7064	0.0002	0.9222
0.001	E075	11_BivFlnk	7	0.7060	0.0008	0.7722
0.001	E118	12_EnhBiv	30	0.7032	0.0032	0.9738
0.01	E012	3_TxFlnk	7	0.7019	0.0001	0.7773
1.00E-04	E050	2_TssAFlnk	7	0.7008	0.0067	0.7800
0.001	E118	11_BivFlnk	15	0.6992	0.0016	0.9059
0.001	E033	6_EnhG	25	0.6961	0.0027	0.9647
0.001	E001	12_EnhBiv	13	0.6956	0.0014	0.8895
0.001	E077	12_EnhBiv	6	0.6956	0.0006	0.7571
0.001	E095	2_TssAFlnk	10	0.6937	0.0011	0.8505
0.001	E056	11_BivFlnk	13	0.6931	0.0014	0.8923
1.00E-04	E031	2_TssAFlnk	6	0.6913	0.0058	0.7636
0.001	E049	2_TssAFlnk	62	0.6898	0.0067	0.9989
0.001	E120	3_TxFlnk	4	0.6886	0.0004	0.6886

0.001	E116	6_EnhG	27	0.6874	0.0029	0.9752
0.001	E015	2_TssAFlnk	24	0.6871	0.0026	0.9670
1.00E-04	E007	7_Enh	14	0.6857	0.0134	0.9124
0.001	E062	6_EnhG	17	0.6851	0.0018	0.9354
0.01	E126	3_TxFlnk	26	0.6837	0.0003	0.9744
0.001	E085	10_TssBiv	8	0.6836	0.0009	0.8247
0.001	E107	3_TxFlnk	7	0.6831	0.0008	0.8013
1.00E-04	E117	7_Enh	19	0.6831	0.0182	0.9510
0.001	E043	1_TssA	21	0.6793	0.0023	0.9611
0.001	E109	12_EnhBiv	3	0.6783	0.0003	0.6446
0.001	E121	12_EnhBiv	3	0.6779	0.0003	0.6450
0.001	E015	12_EnhBiv	15	0.6772	0.0016	0.9277
0.001	E123	3_TxFlnk	9	0.6767	0.0010	0.8533
0.01	E076	6_EnhG	128	0.6758	0.0013	1.0000
0.001	E129	3_TxFlnk	4	0.6747	0.0004	0.7053
0.001	E119	2_TssAFlnk	35	0.6743	0.0038	0.9918
1.00E-04	E018	7_Enh	23	0.6740	0.0221	0.9731
0.001	E093	10_TssBiv	4	0.6740	0.0004	0.7062
1.00E-04	E059	6_EnhG	3	0.6729	0.0029	0.6511
0.001	E045	11_BivFlnk	3	0.6728	0.0003	0.6508
0.01	E074	11_BivFlnk	12	0.6719	0.0001	0.9031
1.00E-04	E101	1_TssA	7	0.6682	0.0067	0.8210
0.001	E093	6_EnhG	35	0.6656	0.0038	0.9935
0.001	E112	11_BivFlnk	5	0.6654	0.0005	0.7603
1.00E-04	E075	1_TssA	5	0.6634	0.0048	0.7636
0.001	E010	3_TxFlnk	3	0.6618	0.0003	0.6633
0.001	E043	6_EnhG	34	0.6616	0.0036	0.9936
0.001	E015	3_TxFlnk	5	0.6613	0.0005	0.7653
0.01	E096	11_BivFlnk	7	0.6608	0.0001	0.8285
0.001	E087	2_TssAFlnk	9	0.6597	0.0010	0.8728
0.001	E063	1_TssA	29	0.6579	0.0031	0.9897
0.001	E094	6_EnhG	20	0.6574	0.0021	0.9702
0.001	E053	6_EnhG	17	0.6564	0.0018	0.9574
1.00E-04	E093	7_Enh	20	0.6564	0.0192	0.9723
0.001	E043	11_BivFlnk	5	0.6561	0.0005	0.7716
1.00E-04	E118	1_TssA	3	0.6559	0.0029	0.6706
0.001	E082	11_BivFlnk	5	0.6552	0.0005	0.7727
0.001	E075	12_EnhBiv	5	0.6549	0.0005	0.7730
1.00E-04	E119	1_TssA	4	0.6531	0.0038	0.7320
1.00E-04	E127	2_TssAFlnk	5	0.6530	0.0048	0.7763
0.001	E127	10_TssBiv	5	0.6530	0.0005	0.7754
0.001	E051	6_EnhG	23	0.6521	0.0025	0.9814
0.01	E081	10_TssBiv	18	0.6512	0.0002	0.9654

0.001	E061	1_TssA	33	0.6509	0.0035	0.9947
1.00E-04	E046	2_TssAFlnk	3	0.6498	0.0029	0.6776
0.01	E128	12_EnhBiv	22	0.6497	0.0002	0.9798
1.00E-04	E046	7_Enh	18	0.6480	0.0173	0.9689
1.00E-04	E080	1_TssA	3	0.6478	0.0029	0.6799
1.00E-04	E053	1_TssA	3	0.6453	0.0029	0.6828
1.00E-04	E122	1_TssA	3	0.6420	0.0029	0.6867
0.001	E111	12_EnhBiv	9	0.6418	0.0010	0.8919
0.001	E062	1_TssA	14	0.6404	0.0015	0.9497
0.001	E073	6_EnhG	13	0.6400	0.0014	0.9421
1.00E-04	E001	7_Enh	24	0.6366	0.0230	0.9895
1.00E-04	E123	6_EnhG	3	0.6355	0.0029	0.6941
0.01	E012	6_EnhG	25	0.6351	0.0003	0.9902
1.00E-04	E017	6_EnhG	6	0.6316	0.0058	0.8362
0.01	E105	12_EnhBiv	25	0.6282	0.0003	0.9918
1.00E-04	E118	12_EnhBiv	3	0.6282	0.0029	0.7027
1.00E-04	E012	7_Enh	18	0.6235	0.0173	0.9803
0.001	E118	6_EnhG	34	0.6230	0.0036	0.9981
0.001	E033	3_TxFlnk	3	0.6229	0.0003	0.7083
0.001	E098	6_EnhG	20	0.6212	0.0021	0.9854
0.001	E116	12_EnhBiv	3	0.6210	0.0003	0.7105
1.00E-04	E014	7_Enh	22	0.6202	0.0211	0.9904
0.001	E061	10_TssBiv	4	0.6198	0.0004	0.7712
0.001	E063	12_EnhBiv	10	0.6198	0.0011	0.9272
0.001	E101	11_BivFlnk	3	0.6167	0.0003	0.7155
1.00E-04	E012	1_TssA	4	0.6167	0.0038	0.7757
0.001	E123	6_EnhG	26	0.6166	0.0028	0.9949
1.00E-04	E019	7_Enh	22	0.6159	0.0211	0.9914
0.01	E103	3_TxFlnk	14	0.6158	0.0001	0.9651
0.001	E122	12_EnhBiv	4	0.6148	0.0004	0.7771
0.001	E045	6_EnhG	8	0.6137	0.0009	0.9020
0.001	E110	12_EnhBiv	12	0.6133	0.0013	0.9528
0.001	E128	3_TxFlnk	4	0.6110	0.0004	0.7816
1.00E-04	E063	1_TssA	3	0.6080	0.0029	0.7263
1.00E-04	E085	1_TssA	4	0.6025	0.0038	0.7923
0.001	E003	2_TssAFlnk	9	0.6020	0.0010	0.9287
1.00E-04	E054	7_Enh	16	0.6010	0.0153	0.9822
1.00E-04	E058	1_TssA	4	0.5995	0.0038	0.7959
1.00E-04	E111	1_TssA	5	0.5992	0.0048	0.8394
0.001	E112	6_EnhG	14	0.5980	0.0015	0.9743
0.001	E127	3_TxFlnk	6	0.5956	0.0006	0.8746
0.001	E009	6_EnhG	11	0.5955	0.0012	0.9558
0.001	E062	10_TssBiv	4	0.5943	0.0004	0.8011

0.001	E036	6_EnhG	30	0.5916	0.0032	0.9989
0.001	E095	12_EnhBiv	4	0.5914	0.0004	0.8044
0.001	E118	2_TssAFlnk	49	0.5897	0.0053	1.0000
0.001	E049	10_TssBiv	3	0.5886	0.0003	0.7484
1.00E-04	E071	1_TssA	5	0.5844	0.0048	0.8556
0.001	E022	12_EnhBiv	9	0.5830	0.0010	0.9433
0.001	E012	12_EnhBiv	13	0.5818	0.0014	0.9764
0.001	E018	10_TssBiv	22	0.5804	0.0024	0.9964
0.001	E031	6_EnhG	18	0.5794	0.0019	0.9921
1.00E-04	E129	1_TssA	4	0.5784	0.0038	0.8201
0.01	E098	3_TxFlnk	7	0.5755	0.0001	0.9174
0.001	E024	6_EnhG	12	0.5739	0.0013	0.9745
0.001	E046	11_BivFlnk	3	0.5736	0.0003	0.7659
0.01	E003	3_TxFlnk	15	0.5735	0.0002	0.9868
0.001	E044	12_EnhBiv	5	0.5731	0.0005	0.8666
1.00E-04	E123	2_TssAFlnk	4	0.5723	0.0038	0.8270
0.001	E068	6_EnhG	13	0.5707	0.0014	0.9808
0.001	E019	6_EnhG	5	0.5702	0.0005	0.8696
0.001	E063	6_EnhG	21	0.5697	0.0023	0.9967
1.00E-04	E027	1_TssA	5	0.5697	0.0048	0.8711
0.001	E058	12_EnhBiv	8	0.5648	0.0009	0.9429
0.001	E035	1_TssA	16	0.5626	0.0017	0.9918
0.001	E011	12_EnhBiv	8	0.5616	0.0009	0.9452
0.001	E042	6_EnhG	18	0.5594	0.0019	0.9953
1.00E-04	E100	1_TssA	5	0.5580	0.0048	0.8829
0.001	E038	6_EnhG	12	0.5569	0.0013	0.9812
0.001	E023	3_TxFlnk	3	0.5568	0.0003	0.7853
0.001	E037	6_EnhG	11	0.5567	0.0012	0.9760
1.00E-04	E057	2_TssAFlnk	3	0.5561	0.0029	0.7868
0.001	E082	10_TssBiv	9	0.5521	0.0010	0.9628
0.001	E023	12_EnhBiv	3	0.5514	0.0003	0.7916
1.00E-04	E053	7_Enh	20	0.5495	0.0192	0.9981
0.001	E078	10_TssBiv	8	0.5477	0.0009	0.9543
0.01	E026	11_BivFlnk	10	0.5462	0.0001	0.9740
1.00E-04	E054	1_TssA	4	0.5453	0.0038	0.8564
1.00E-04	E055	6_EnhG	5	0.5452	0.0048	0.8953
1.00E-04	E097	1_TssA	5	0.5450	0.0048	0.8956
0.001	E118	3_TxFlnk	3	0.5446	0.0003	0.7993
0.001	E057	12_EnhBiv	7	0.5444	0.0008	0.9420
0.001	E001	6_EnhG	4	0.5443	0.0004	0.8566
1.00E-04	E116	1_TssA	5	0.5424	0.0048	0.8980
0.01	E026	12_EnhBiv	16	0.5381	0.0002	0.9956
1.00E-04	E118	2_TssAFlnk	5	0.5376	0.0048	0.9024

0.001	E102	12_EnhBiv	3	0.5347	0.0003	0.8106
0.01	E110	3_TxFlnk	3	0.5316	0.0000	0.8141
1.00E-04	E025	6_EnhG	3	0.5312	0.0029	0.8152
0.01	E116	10_TssBiv	14	0.5292	0.0001	0.9939
1.00E-04	E061	1_TssA	3	0.5286	0.0029	0.8182
0.001	E047	6_EnhG	9	0.5233	0.0010	0.9765
0.01	E038	10_TssBiv	5	0.5227	0.0001	0.9146
0.001	E067	6_EnhG	8	0.5183	0.0009	0.9703
1.00E-04	E106	1_TssA	3	0.5180	0.0029	0.8300
0.001	E057	11_BivFlnk	6	0.5142	0.0006	0.9451
1.00E-04	E020	7_Enh	14	0.5029	0.0134	0.9973
0.001	E085	12_EnhBiv	7	0.5023	0.0008	0.9673
0.01	E076	3_TxFlnk	10	0.5006	0.0001	0.9891
1.00E-04	E076	1_TssA	4	0.5004	0.0038	0.9009
1.00E-04	E116	2_TssAFlnk	6	0.5001	0.0058	0.9550
0.001	E020	11_BivFlnk	6	0.4993	0.0006	0.9547
0.001	E070	6_EnhG	6	0.4972	0.0006	0.9560
1.00E-04	E049	2_TssAFlnk	5	0.4969	0.0048	0.9361
0.001	E112	10_TssBiv	7	0.4957	0.0008	0.9705
0.001	E072	6_EnhG	13	0.4946	0.0014	0.9967
1.00E-04	E103	1_TssA	5	0.4940	0.0048	0.9382
0.01	E126	11_BivFlnk	6	0.4937	0.0001	0.9579
0.001	E021	12_EnhBiv	4	0.4916	0.0004	0.9081
0.001	E019	11_BivFlnk	7	0.4907	0.0008	0.9728
1.00E-04	E112	1_TssA	3	0.4894	0.0029	0.8608
0.001	E116	3_TxFlnk	10	0.4880	0.0011	0.9918
0.001	E115	6_EnhG	22	0.4870	0.0024	0.9999
1.00E-04	E114	2_TssAFlnk	4	0.4869	0.0038	0.9129
0.001	E024	12_EnhBiv	9	0.4836	0.0010	0.9891
1.00E-04	E042	2_TssAFlnk	3	0.4811	0.0029	0.8694
0.001	E010	11_BivFlnk	3	0.4785	0.0003	0.8713
1.00E-04	E117	2_TssAFlnk	4	0.4751	0.0038	0.9228
1.00E-04	E077	1_TssA	4	0.4734	0.0038	0.9242
0.01	E036	10_TssBiv	5	0.4725	0.0001	0.9520
0.001	E010	6_EnhG	10	0.4721	0.0011	0.9944
1.00E-04	E068	1_TssA	5	0.4718	0.0048	0.9532
0.001	E016	11_BivFlnk	4	0.4705	0.0004	0.9258
0.001	E114	3_TxFlnk	7	0.4695	0.0008	0.9811
1.00E-04	E045	1_TssA	3	0.4686	0.0029	0.8820
0.001	E016	6_EnhG	6	0.4681	0.0006	0.9713
1.00E-04	E098	1_TssA	3	0.4657	0.0029	0.8849
0.001	E054	6_EnhG	8	0.4657	0.0009	0.9887
0.001	E079	12_EnhBiv	3	0.4644	0.0003	0.8855

1.00E-04	E016	7_Enh	16	0.4627	0.0153	0.9997
0.001	E111	3_TxFlnk	4	0.4553	0.0004	0.9374
0.001	E107	10_TssBiv	4	0.4551	0.0004	0.9376
0.001	E065	6_EnhG	3	0.4526	0.0003	0.8968
0.001	E040	6_EnhG	8	0.4459	0.0009	0.9927
0.01	E087	6_EnhG	3	0.4455	0.0000	0.9033
0.001	E053	11_BivFlnk	5	0.4454	0.0005	0.9673
0.001	E020	3_TxFlnk	3	0.4420	0.0003	0.9065
1.00E-04	E105	1_TssA	4	0.4403	0.0038	0.9486
0.001	E048	6_EnhG	7	0.4378	0.0008	0.9900
1.00E-04	E078	1_TssA	4	0.4370	0.0038	0.9507
0.001	E018	11_BivFlnk	5	0.4338	0.0005	0.9728
0.001	E082	6_EnhG	5	0.4331	0.0005	0.9731
1.00E-04	E021	7_Enh	7	0.4319	0.0067	0.9916
0.001	E076	6_EnhG	8	0.4307	0.0009	0.9950
1.00E-04	E123	7_Enh	12	0.4274	0.0115	0.9995
1.00E-04	E067	1_TssA	4	0.4243	0.0038	0.9585
1.00E-04	E072	1_TssA	4	0.4225	0.0038	0.9595
1.00E-04	E117	1_TssA	3	0.4209	0.0029	0.9253
1.00E-04	E073	1_TssA	4	0.4173	0.0038	0.9625
0.01	E083	3_TxFlnk	3	0.4085	0.0000	0.9345
0.001	E058	10_TssBiv	4	0.4049	0.0004	0.9685
0.001	E005	12_EnhBiv	4	0.4030	0.0004	0.9694
0.001	E002	12_EnhBiv	4	0.4014	0.0004	0.9701
0.001	E115	3_TxFlnk	8	0.3998	0.0009	0.9979
0.001	E014	6_EnhG	5	0.3979	0.0005	0.9858
0.001	E054	11_BivFlnk	3	0.3966	0.0003	0.9434
0.001	E041	11_BivFlnk	3	0.3738	0.0003	0.9584
0.001	E070	12_EnhBiv	4	0.3698	0.0004	0.9830
0.001	E069	6_EnhG	8	0.3638	0.0009	0.9994
0.001	E058	3_TxFlnk	4	0.3575	0.0004	0.9868
0.001	E077	10_TssBiv	3	0.3524	0.0003	0.9702
1.00E-04	E008	7_Enh	6	0.3485	0.0058	0.9983
0.001	E033	10_TssBiv	3	0.3190	0.0003	0.9841
1.00E-04	E033	7_Enh	6	0.2746	0.0058	0.9999
0.001	E009	12_EnhBiv	4	0.2488	0.0004	0.9996

q-value	Roadmap Gr	Roadmap Epi	Anatomy
0.0024	Other	Ovary	OVARY
0.0007	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0001	Blood & T-cel	Primary T cell	BLOOD
0.0092	HSC & B-cell	Primary hem	BLOOD
0.0000	Brain	Brain Hippoc	BRAIN
0.0002	Mesench	Mesenchyma	STROMAL_CONNECTIVE
0.0024	Mesench	Mesenchyma	FAT
0.0032	Myosat	Muscle Satell	MUSCLE
0.0018	Blood & T-cel	Primary mon	BLOOD
0.0018	Brain	Brain Cingula	BRAIN
0.0000	HSC & B-cell	Primary neut	BLOOD
0.0006	HSC & B-cell	Primary hem	BLOOD
0.0007	Blood & T-cel	Primary T CD	BLOOD
0.0085	Muscle	Fetal Muscle	MUSCLE
0.0344	Neurosph	Ganglion Emi	BRAIN
0.0094	ENCODE2012	Osteoblast Pr	BONE
0.0094	ENCODE2012	HSMM Skelet	MUSCLE
0.0254	Muscle	Fetal Muscle	MUSCLE_LEG
0.0085	HSC & B-cell	Primary B cell	BLOOD
0.0140	Muscle	Fetal Muscle	MUSCLE_LEG
0.0001	HSC & B-cell	Primary hem	BLOOD
0.0459	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0465	ENCODE2012	HSMM cell de	MUSCLE
0.0484	ENCODE2012	NH-A Astrocy	BRAIN
0.0363	Muscle	Fetal Muscle	MUSCLE_LEG
0.0535	Brain	Brain Angular	BRAIN
0.0548	ESC	ES-UCSF4 Cel	ESC
0.0170	Other	Ovary	OVARY
0.0579	IMR90	IMR90 fetal l	LUNG
0.0600	Epithelial	Breast Myoe	BREAST
0.0607	Brain	Brain Anterio	BRAIN
0.0007	HSC & B-cell	Primary B cell	BLOOD
0.0126	Brain	Fetal Brain Fe	BRAIN
0.0610	Other	Fetal Adrenal	ADRENAL
0.0094	Blood & T-cel	Primary T hel	BLOOD
0.0036	HSC & B-cell	Primary hem	BLOOD
0.0363	ES-deriv	hESC Derived	ESC_DERIVED
0.0151	ENCODE2012	Monocytes-C	BLOOD
0.0000	Mesench	Mesenchyma	STROMAL_CONNECTIVE
0.0661	ENCODE2012	NH-A Astrocy	BRAIN
0.0016	ENCODE2012	Monocytes-C	BLOOD
0.0679	ES-deriv	H9 Derived N	ESC_DERIVED

0.0002	Sm. Muscle	Stomach Smo	GI_STOMACH
0.0691	Digestive	Sigmoid Coloi	GI_COLON
0.0462	iPSC	iPS DF 6.9 Cel	IPSC
0.0713	Muscle	Skeletal Musc	MUSCLE
0.0092	HSC & B-cell	Primary Natu	BLOOD
0.0760	Neurosph	Ganglion Emi	BRAIN
0.0628	Brain	Brain Cingula	BRAIN
0.0288	IMR90	IMR90 fetal lu	LUNG
0.0198	HSC & B-cell	Primary monc	BLOOD
0.0306	ENCODE2012	A549 EtOH 0.	LUNG
0.0852	Epithelial	Breast varian	BREAST
0.0865	Brain	Brain Inferior	BRAIN
0.0578	Epithelial	Breast Myoe	BREAST
0.0881	Muscle	Psoas Muscle	MUSCLE
0.0602	Digestive	Gastric	GI_STOMACH
0.0602	ESC	ES-WA7 Cells	ESC
0.0973	Brain	Brain_Dorsol	BRAIN
0.0982	Other	Spleen	SPLEEN
0.1000	ES-deriv	hESC Derived	ESC_DERIVED
0.0092	Muscle	Skeletal Musc	MUSCLE
0.1072	Heart	Right Atrium	HEART
0.0848	ENCODE2012	HMEC Mamr	BREAST
0.0344	Brain	Fetal Brain M	BRAIN
0.0848	Digestive	Rectal Mucos	GI_RECTUM
0.0548	ES-deriv	hESC Derived	ESC_DERIVED
0.0627	Brain	Brain Germin	BRAIN
0.1146	Mesench	Adipose Deriv	FAT
0.0008	Brain	Brain Hippoca	BRAIN
0.1211	Other	Pancreas	PANCREAS
0.1276	Other	Placenta Amr	PLACENTA
0.0849	ESC	H9 Cells	ESC
0.0330	Other	Liver	LIVER
0.0508	HSC & B-cell	Primary monc	BLOOD
0.0018	Other	Ovary	OVARY
0.0874	Sm. Muscle	Rectal Smoot	GI_RECTUM
0.0253	Blood & T-cel	Primary T cell	BLOOD
0.1110	iPSC	iPS DF 19.11	IPSC
0.1115	ES-deriv	hESC Derived	ESC_DERIVED
0.0610	ENCODE2012	HUVEC Umbil	VASCULAR
0.1389	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0681	Heart	Right Ventricl	HEART
0.0451	Mesench	Mesenchyma	FAT
0.0486	ENCODE2012	HSMM Skelet	MUSCLE

0.1183 Epithelial Foreskin Mel; SKIN
 0.1441 ES-deriv hESC Derived ESC_DERIVED
 0.1460 ESC ES-WA7 Cells ESC
 0.0330 IMR90 IMR90 fetal L LUNG
 0.0486 Blood & T-cel Primary T cell BLOOD
 0.0567 iPSC iPS DF 6.9 Cell IPSC
 0.1099 Other Fetal Lung LUNG
 0.1306 Digestive Esophagus GI_ESOPHAGUS
 0.1605 Heart Fetal Heart HEART
 0.1334 Sm. Muscle Stomach Smo GI_STOMACH
 0.1000 Digestive Gastric GI_STOMACH
 0.0293 Epithelial Foreskin Fibro SKIN
 0.1656 HSC & B-cell Primary neutro BLOOD
 0.1656 Other Placenta Amr PLACENTA
 0.0375 Other Spleen SPLEEN
 0.1428 Brain Brain Inferior BRAIN
 0.1695 iPSC iPS-20b Cells IPSC
 0.1251 Digestive Fetal Stomach GI_STOMACH
 0.0679 ES-deriv hESC Derived ESC_DERIVED
 0.1737 Muscle Fetal Muscle MUSCLE
 0.1579 ENCODE2012 A549 EtOH 0. LUNG
 0.0094 Other Ovary OVARY
 0.1183 Digestive Esophagus GI_ESOPHAGUS
 0.0892 Brain Brain Substar BRAIN
 0.0001 ENCODE2012 HUVEC Umbil VASCULAR
 0.1100 Brain Brain Angular BRAIN
 0.1108 HSC & B-cell Primary hem; BLOOD
 0.1236 ENCODE2012 HUVEC Umbil VASCULAR
 0.0422 iPSC iPS DF 19.11 IPSC
 0.1146 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.0486 Other Placenta Amr PLACENTA
 0.1205 Brain Brain_Dorsol; BRAIN
 0.0065 Other Fetal Kidney KIDNEY
 0.1164 Myosat Muscle Satell MUSCLE
 0.2003 Sm. Muscle Rectal Smoot GI_RECTUM
 0.2003 Epithelial Foreskin Mel; SKIN
 0.0983 Heart Left Ventricle HEART
 0.1788 Digestive Stomach Muc GI_STOMACH
 0.0124 Muscle Fetal Muscle MUSCLE
 0.0008 Heart Right Ventricle HEART
 0.0997 Other Placenta PLACENTA
 0.0737 Blood & T-cel Primary mono BLOOD
 0.0681 ENCODE2012 HSMM Skelet MUSCLE

0.1428	Epithelial	Foreskin Fibr	SKIN
0.1303	Other	Fetal Adrenal	ADRENAL
0.2077	HSC & B-cell	Primary hem	BLOOD
0.0635	Other	Fetal Adrenal	ADRENAL
0.0818	Brain	Brain Cingula	BRAIN
0.0745	ES-deriv	H1 Derived N	ESC_DERIVED
0.0991	Other	Placenta	PLACENTA
0.1931	Muscle	Skeletal Musc	MUSCLE
0.1951	Muscle	Psoas Muscle	MUSCLE
0.0770	Digestive	Fetal Stomac	GI_STOMACH
0.1963	Heart	Right Ventricl	HEART
0.1605	Brain	Brain Hippoc	BRAIN
0.2166	Epithelial	Foreskin Kera	SKIN
0.2166	Sm. Muscle	Stomach Smo	GI_STOMACH
0.1968	Epithelial	Foreskin Fibr	SKIN
0.1628	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0435	Other	Ovary	OVARY
0.1080	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0242	Other	Liver	LIVER
0.1788	ENCODE2012	HSMM Skelet	MUSCLE
0.2025	ENCODE2012	HeLa-S3 Cervi	CERVIX
0.0094	Epithelial	Foreskin Fibr	SKIN
0.0787	ENCODE2012	HeLa-S3 Cervi	CERVIX
0.0643	HSC & B-cell	Primary hem	BLOOD
0.1253	ENCODE2012	NH-A Astrocy	BRAIN
0.0094	Neurosph	Cortex derive	BRAIN
0.0947	ENCODE2012	NH-A Astrocy	BRAIN
0.2250	Other	Liver	LIVER
0.2283	ESC	H1 Cells	ESC
0.1605	Heart	Fetal Heart	HEART
0.1712	Muscle	Skeletal Musc	MUSCLE
0.1724	Adipose	Adipose Nucl	FAT
0.0459	Other	Pancreatic Isl	PANCREAS
0.1236	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.1915	iPSC	iPS DF 19.11	(IPSC
0.2336	Heart	Right Atrium	HEART
0.0060	Digestive	Esophagus	GI_ESOPHAGUS
0.0987	Neurosph	Ganglion Emi	BRAIN
0.2351	Sm. Muscle	Duodenum Sr	GI_DUODENUM
0.1861	Heart	Aorta	VASCULAR
0.1101	Digestive	Sigmoid Color	GI_COLON
0.2415	Sm. Muscle	Duodenum Sr	GI_DUODENUM
0.0085	Heart	Right Atrium	HEART

0.1902 iPSC iPSC-18 Cells IPSC
 0.2243 Brain Brain_Dorsol B BRAIN
 0.2247 Other Liver LIVER
 0.0679 iPSC iPSC DF 6.9 Cell IPSC
 0.1776 Digestive Fetal Intestine GI_INTESTINE
 0.0330 Blood & T-cell Primary T cell BLOOD
 0.2243 Digestive Rectal Mucosa GI_RECTUM
 0.2056 Sm. Muscle Colon Smooth GI_COLON
 0.2506 Brain Brain Angular BRAIN
 0.0018 Epithelial Foreskin Mel SKIN
 0.1985 Other Placenta PLACENTA
 0.1715 Heart Right Atrium HEART
 0.2547 ES-deriv hESC Derived ESC_DERIVED
 0.1892 Sm. Muscle Colon Smooth GI_COLON
 0.1774 ENCODE2012 HSMM cell de MUSCLE
 0.1776 Myosat Muscle Satell MUSCLE
 0.1664 Other Ovary OVARY
 0.2211 Brain Brain Inferior BRAIN
 0.0206 HSC & B-cell Primary neut BLOOD
 0.2079 ENCODE2012 NH-A Astrocyte BRAIN
 0.2040 Other Fetal Lung LUNG
 0.1724 Blood & T-cell Primary T cell BLOOD
 0.0707 ENCODE2012 NHLF Lung Fil LUNG
 0.0462 Blood & T-cell Primary T cell BLOOD
 0.2705 Adipose Adipose Nucl FAT
 0.2034 Sm. Muscle Rectal Smooth GI_RECTUM
 0.0032 HSC & B-cell Primary B cell BLOOD
 0.2211 Muscle Fetal Muscle MUSCLE_LEG
 0.1347 ES-deriv hESC Derived ESC_DERIVED
 0.1059 Heart Fetal Heart HEART
 0.0601 ENCODE2012 HeLa-S3 Cervix CERVIX
 0.0128 Other Liver LIVER
 0.1596 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.0115 Other Fetal Adrenal ADRENAL
 0.0026 HSC & B-cell Primary Natu BLOOD
 0.1784 Digestive Fetal Stomach GI_STOMACH
 0.1520 Brain Brain Hippoc BRAIN
 0.1605 Muscle Fetal Muscle MUSCLE
 0.1641 Blood & T-cell Primary T cell BLOOD
 0.2703 HSC & B-cell Primary hem BLOOD
 0.0627 ENCODE2012 Dnd41 TCell L BLOOD
 0.2529 ESC HUES48 Cells ESC
 0.0643 Sm. Muscle Stomach Smooth GI_STOMACH

0.1419 Blood & T-cell Primary T CD8 BLOOD
 0.0092 Other Placenta PLACENTA
 0.2391 Brain Brain Substar BRAIN
 0.2397 Neurosph Ganglion Emi BRAIN
 0.1554 HSC & B-cell Primary hemæ BLOOD
 0.2049 Blood & T-cell Primary T hel BLOOD
 0.2629 Heart Right Ventricle HEART
 0.1426 ENCODE2012 HSMM Skelet MUSCLE
 0.2183 Muscle Skeletal Musc MUSCLE
 0.0132 ES-deriv H1 Derived N ESC_DERIVED
 0.2211 ENCODE2012 NHLF Lung Fil LUNG
 0.0456 Blood & T-cell Primary T hel BLOOD
 0.1883 Blood & T-cell Primary T reg BLOOD
 0.0209 Digestive Duodenum M GI_DUODENUM
 0.2351 Brain Brain Germin BRAIN
 0.1895 Muscle Fetal Muscle MUSCLE_LEG
 0.2234 Neurosph Cortex derive BRAIN
 0.1014 Digestive Rectal Mucos GI_RECTUM
 0.2530 Heart Right Ventricle HEART
 0.0486 Blood & T-cell Primary T hel BLOOD
 0.2410 Brain Brain_Dorsolæ BRAIN
 0.2692 Epithelial Foreskin Kera SKIN
 0.1963 Epithelial Breast Myoeç BREAST
 0.2590 ESC ES-I3 Cells ESC
 0.1054 Brain Brain Cingulaæ BRAIN
 0.0145 ENCODE2012 HUVEC Umbil VASCULAR
 0.1902 Brain Brain Inferior BRAIN
 0.2625 HSC & B-cell Primary hemæ BLOOD
 0.0002 Epithelial Foreskin Melæ SKIN
 0.0344 ENCODE2012 Osteoblast Pr BONE
 0.3199 Other Ovary OVARY
 0.0558 Adipose Adipose Nuclæ FAT
 0.0858 HSC & B-cell Primary hemæ BLOOD
 0.0114 Heart Fetal Heart HEART
 0.0486 Heart Left Ventricle HEART
 0.1372 Epithelial Foreskin Melæ SKIN
 0.2558 Other Fetal Lung LUNG
 0.3267 Blood & T-cell Primary T hel BLOOD
 0.0865 HSC & B-cell Primary hemæ BLOOD
 0.2735 ENCODE2012 Dnd41 TCell L BLOOD
 0.2209 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.0946 ENCODE2012 NH-A Astrocy BRAIN
 0.2449 Other Fetal Kidney KIDNEY

0.3288 HSC & B-cell Primary hemæ BLOOD
 0.1579 ESC H9 Cells ESC
 0.2024 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.3306 Blood & T-cel Primary T CD8 BLOOD
 0.2475 ENCODE2012 Osteoblast Pr BONE
 0.2954 ES-deriv H1 Derived M ESC_DERIVED
 0.0671 Brain Brain Inferior BRAIN
 0.0252 ES-deriv H1 Derived M ESC_DERIVED
 0.3108 ES-deriv hESC Derived ESC_DERIVED
 0.2805 ENCODE2012 HMEC Mamr BREAST
 0.0630 Brain Brain Anterio BRAIN
 0.2805 ESC HUES64 Cells ESC
 0.2815 iPSC iPS-20b Cells IPSC
 0.0486 Other Lung LUNG
 0.0737 Heart Left Ventricle HEART
 0.3033 ES-deriv H1 Derived N ESC_DERIVED
 0.2439 Other Lung LUNG
 0.0641 ENCODE2012 HSMM Skelet MUSCLE
 0.2705 Brain Brain Inferior BRAIN
 0.2451 Heart Aorta VASCULAR
 0.2731 ENCODE2012 HMEC Mamr BREAST
 0.1641 Other Spleen SPLEEN
 0.3402 Epithelial Foreskin Kera SKIN
 0.3278 Brain Brain_Dorsol: BRAIN
 0.3398 Other Placenta Amr PLACENTA
 0.3288 Brain Fetal Brain M BRAIN
 0.0002 Epithelial Foreskin Mel: SKIN
 0.2205 Other Liver LIVER
 0.0386 Epithelial Breast Myoe: BREAST
 0.0679 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.0151 ENCODE2012 HSMM Skelet MUSCLE
 0.0894 Digestive Duodenum M GI_DUODENUM
 0.2829 Blood & T-cel Primary T CD4 BLOOD
 0.3000 Blood & T-cel Primary T reg BLOOD
 0.0517 ENCODE2012 Dnd41 TCell L BLOOD
 0.2560 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.0635 Epithelial Foreskin Fibr: SKIN
 0.3345 Blood & T-cel Primary mon: BLOOD
 0.0105 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.0210 HSC & B-cell Primary B cell BLOOD
 0.0635 ENCODE2012 NHLF Lung Fil LUNG
 0.2086 ESC H1 Cells ESC
 0.1285 Other Fetal Lung LUNG

0.2752 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.0538 Muscle Fetal Muscle MUSCLE_LEG
 0.0432 Digestive Rectal Mucos GI_RECTUM
 0.2919 ENCODE2012 HUVEC Umbil VASCULAR
 0.1668 Digestive Small Intestin GI_INTESTINE
 0.1790 ESC ES-WA7 Cells ESC
 0.2808 Blood & T-cel Primary T hel BLOOD
 0.0094 HSC & B-cell Primary neut BLOOD
 0.3596 ENCODE2012 HSMM Skelet MUSCLE
 0.1825 Blood & T-cel Primary T CD8 BLOOD
 0.2696 Blood & T-cel Primary T hel BLOOD
 0.1255 Sm. Muscle Rectal Smoot GI_RECTUM
 0.3623 Epithelial Foreskin Fibro SKIN
 0.3031 ES-deriv H1 Derived M ESC_DERIVED
 0.3331 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.2415 Other Spleen SPLEEN
 0.0979 Other Ovary OVARY
 0.0414 HSC & B-cell Primary hem BLOOD
 0.0579 ES-deriv H9 Derived N ESC_DERIVED
 0.2115 Heart Fetal Heart HEART
 0.1815 Blood & T-cel Primary T hel BLOOD
 0.1769 Other Fetal Kidney KIDNEY
 0.2821 ENCODE2012 Osteoblast Pr BONE
 0.1470 HSC & B-cell Primary hem BLOOD
 0.1251 ENCODE2012 A549 EtOH 0. LUNG
 0.0607 Blood & T-cel Primary T cell BLOOD
 0.1613 ENCODE2012 A549 EtOH 0. LUNG
 0.1401 Other Lung LUNG
 0.3743 Neurosph Cortex derive BRAIN
 0.0085 Muscle Skeletal Musc MUSCLE
 0.0548 Mesench Adipose Deriv FAT
 0.1915 Sm. Muscle Rectal Smoot GI_RECTUM
 0.3647 Heart Right Ventricl HEART
 0.0892 Muscle Psoas Muscle MUSCLE
 0.1170 Digestive Fetal Intestin GI_INTESTINE
 0.0847 ENCODE2012 Osteoblast Pr BONE
 0.2510 Digestive Sigmoid Coloi GI_COLON
 0.1213 Other Spleen SPLEEN
 0.3794 Brain Brain Angular BRAIN
 0.3819 Brain Brain Hippoc BRAIN
 0.1041 ENCODE2012 HUVEC Umbil VASCULAR
 0.3049 ENCODE2012 HSMM cell de MUSCLE
 0.2910 Other Fetal Adrenal ADRENAL

0.1410 Blood & T-cel Primary T CD8 BLOOD
 0.0888 ENCODE2012 Osteoblast Pr BONE
 0.0834 ENCODE2012 NHDF-Ad Adu SKIN
 0.3778 Brain Brain Anterio BRAIN
 0.1432 Blood & T-cel Primary mono BLOOD
 0.0079 iPSC iPS DF 19.11 (IPSC
 0.1024 ENCODE2012 NH-A Astrocy BRAIN
 0.1485 Muscle Fetal Muscle MUSCLE
 0.2243 ENCODE2012 Monocytes-C BLOOD
 0.0465 Other Placenta PLACENTA
 0.1716 Brain Brain Hippoc BRAIN
 0.1641 Other Placenta Amr PLACENTA
 0.1314 ENCODE2012 NH-A Astrocy BRAIN
 0.0375 Digestive Fetal Intestine GI_INTESTINE
 0.1867 Brain Brain_Dorsol BRAIN
 0.0085 Blood & T-cel Primary T cell BLOOD
 0.3896 Other Pancreas PANCREAS
 0.0706 Blood & T-cel Primary T cell BLOOD
 0.0558 Sm. Muscle Colon Smooth GI_COLON
 0.1005 Heart Left Ventricle HEART
 0.1181 HSC & B-cell Primary B cell BLOOD
 0.1963 ENCODE2012 HSMM cell de MUSCLE
 0.3237 Epithelial Breast varian BREAST
 0.1621 ENCODE2012 NHLF Lung Fil LUNG
 0.2949 Brain Brain Cingula BRAIN
 0.1144 Myosat Muscle Satell MUSCLE
 0.0865 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.4028 Heart Right Ventricle HEART
 0.1099 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.0484 HSC & B-cell Primary hem BLOOD
 0.0459 Brain Brain Hippoc BRAIN
 0.4059 ENCODE2012 HSMM cell de MUSCLE
 0.2555 ENCODE2012 HMEC Mamr BREAST
 0.4074 Brain Brain Germin BRAIN
 0.4074 Neurosph Cortex derive BRAIN
 0.2020 Heart Right Ventricle HEART
 0.0548 Blood & T-cel Primary T hel BLOOD
 0.3987 Digestive Fetal Intestine GI_INTESTINE
 0.2295 Digestive Gastric GI_STOMACH
 0.0085 Blood & T-cel Primary T hel BLOOD
 0.1428 Muscle Skeletal Musc MUSCLE
 0.2605 Blood & T-cel Primary T cell BLOOD
 0.1399 ENCODE2012 HUVEC Umbil VASCULAR

0.1579 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.3752 Epithelial Breast Myoe ξ BREAST
 0.3853 Brain Brain Cingula ξ BRAIN
 0.3933 ENCODE2012 HepG2 Hepat LIVER
 0.3119 Other Placenta Amr PLACENTA
 0.3547 Muscle Skeletal Musc MUSCLE
 0.1384 Brain Brain Substar BRAIN
 0.3233 Heart Aorta VASCULAR
 0.3331 Muscle Skeletal Musc MUSCLE
 0.3162 ESC HUES48 Cells ESC
 0.1152 Blood & T-cel Primary T cell BLOOD
 0.1415 Adipose Adipose Nucl ξ FAT
 0.0344 Blood & T-cel Primary T reg BLOOD
 0.3931 Myosat Muscle Satell MUSCLE
 0.4027 Digestive Colonic Muco GI_COLON
 0.4172 ES-deriv H1 Derived M ESC_DERIVED
 0.2324 Digestive Esophagus GI_ESOPHAGUS
 0.0628 HSC & B-cell Primary mon ξ BLOOD
 0.1664 ENCODE2012 HSMM cell de MUSCLE
 0.4180 ESC H1 Cells ESC
 0.0628 Digestive Colonic Muco GI_COLON
 0.3417 Muscle Skeletal Musc MUSCLE
 0.2207 Blood & T-cel Primary T cell BLOOD
 0.4070 ENCODE2012 NHDF-Ad Ad ξ SKIN
 0.2554 Digestive Rectal Mucos GI_RECTUM
 0.2449 Mesench Mesenchyma FAT
 0.3376 Mesench Adipose Deriv FAT
 0.3916 ESC H9 Cells ESC
 0.0833 ENCODE2012 HUVEC Umbil VASCULAR
 0.1071 Epithelial Breast Myoe ξ BREAST
 0.2545 Blood & T-cel Primary T hel BLOOD
 0.0018 Heart Right Ventricl HEART
 0.2788 Blood & T-cel Primary T hel BLOOD
 0.0385 Other Lung LUNG
 0.4163 ES-deriv hESC Derived ESC_DERIVED
 0.1314 ENCODE2012 HSMM cell de MUSCLE
 0.3328 Adipose Adipose Nucl ξ FAT
 0.1366 Myosat Muscle Satell MUSCLE
 0.2476 HSC & B-cell Primary hem ξ BLOOD
 0.4180 Muscle Skeletal Musc MUSCLE
 0.3455 Epithelial Foreskin Mel ξ SKIN
 0.4263 Digestive Stomach Muc GI_STOMACH
 0.3211 ES-deriv H1 Derived N ESC_DERIVED

0.1438 Muscle Skeletal Musc MUSCLE
0.1183 Blood & T-cel Primary T hel BLOOD
0.2901 ES-deriv hESC Derived ESC_DERIVED
0.0085 HSC & B-cell Primary B cell BLOOD
0.2056 Digestive Esophagus GI_ESOPHAGUS
0.1968 Sm. Muscle Duodenum Sr GI_DUODENUM
0.2304 Brain Fetal Brain M BRAIN
0.1664 HSC & B-cell Primary Natu BLOOD
0.1668 ENCODE2012 HMEC Mamr BREAST
0.4251 Epithelial Foreskin Mel: SKIN
0.2663 Digestive Fetal Stomac GI_STOMACH
0.4098 Other Pancreatic Isl: PANCREAS
0.4100 HSC & B-cell Primary hem: BLOOD
0.0679 Blood & T-cel Primary T CD: BLOOD
0.3966 Blood & T-cel Primary T cell BLOOD
0.1880 Sm. Muscle Stomach Smo GI_STOMACH
0.2997 Blood & T-cel Primary T hel BLOOD
0.2249 Brain Brain_Dorsol: BRAIN
0.0189 ENCODE2012 HeLa-S3 Cervi CERVIX
0.4164 Mesench Mesenchyma STROMAL_CONNECTIVE
0.1915 Muscle Skeletal Musc MUSCLE
0.1769 Brain Brain Cingula: BRAIN
0.1980 Myosat Muscle Satell MUSCLE
0.3415 Brain Brain Substar BRAIN
0.2827 Epithelial Foreskin Mel: SKIN
0.2025 Blood & T-cel Primary T hel BLOOD
0.3850 Digestive Fetal Intestin: GI_INTESTINE
0.2248 Brain Brain Angular BRAIN
0.3242 Digestive Fetal Stomac GI_STOMACH
0.4452 Other Placenta Amr PLACENTA
0.3997 Digestive Sigmoid Color GI_COLON
0.2271 Brain Brain_Dorsol: BRAIN
0.3303 ESC ES-WA7 Cells ESC
0.0152 HSC & B-cell Primary hem: BLOOD
0.1303 Blood & T-cel Primary T cell BLOOD
0.4117 Epithelial Foreskin Fibrc SKIN
0.0848 ESC ES-UCSF4 Cel ESC
0.4289 Muscle Fetal Muscle : MUSCLE
0.2166 Digestive Fetal Intestin: GI_INTESTINE
0.0094 Other Pancreas PANCREAS
0.2025 Epithelial Foreskin Mel: SKIN
0.4456 Brain Fetal Brain Fe BRAIN
0.3547 iPSC iPS DF 19.11 (IPSC

0.3720 Muscle Psoas Muscle MUSCLE
 0.4167 Other Liver LIVER
 0.4413 ENCODE2012 NHDF-Ad Adu SKIN
 0.1985 ENCODE2012 NH-A Astrocy BRAIN
 0.2284 HSC & B-cell Primary hemæ BLOOD
 0.1780 Thymus Thymus THYMUS
 0.0834 Thymus Fetal Thymus THYMUS
 0.4524 ENCODE2012 NHEK-Epiderr SKIN
 0.0018 Epithelial Foreskin Fibrc SKIN
 0.2786 HSC & B-cell Primary B cell BLOOD
 0.1236 Brain Fetal Brain Fe BRAIN
 0.1788 ENCODE2012 NHLF Lung Fil LUNG
 0.3521 HSC & B-cell Primary monç BLOOD
 0.2155 HSC & B-cell Primary hemæ BLOOD
 0.3529 ES-deriv hESC Derived ESC_DERIVED
 0.2818 Sm. Muscle Colon Smoothf GI_COLON
 0.4577 Brain Brain Cingulaç BRAIN
 0.4562 Heart Right Atrium HEART
 0.1481 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.1664 Blood & T-cel Primary T helç BLOOD
 0.1915 ENCODE2012 NH-A Astrocy BRAIN
 0.0538 HSC & B-cell Primary hemæ BLOOD
 0.0959 Brain Brain Cingulaç BRAIN
 0.4214 iPSC iPS DF 6.9 Cel IPSC
 0.3755 Epithelial Foreskin Kera SKIN
 0.0826 Heart Right Atrium HEART
 0.2086 Muscle Fetal Muscle MUSCLE_LEG
 0.3204 HSC & B-cell Primary B cell BLOOD
 0.4214 HSC & B-cell Primary hemæ BLOOD
 0.2215 Muscle Psoas Muscle MUSCLE
 0.2844 ENCODE2012 Monocytes-C BLOOD
 0.0344 HSC & B-cell Primary monç BLOOD
 0.3101 HSC & B-cell Primary B cell BLOOD
 0.4048 HSC & B-cell Primary neutç BLOOD
 0.0708 Epithelial Foreskin Kera SKIN
 0.4312 ESC HUES48 Cells ESC
 0.4676 Sm. Muscle Colon Smoothf GI_COLON
 0.2611 Brain Fetal Brain M BRAIN
 0.2274 ENCODE2012 NHDF-Ad Adu SKIN
 0.1819 ENCODE2012 NHEK-Epiderr SKIN
 0.2336 Digestive Fetal Stomacç GI_STOMACH
 0.3211 Brain Brain Angular BRAIN
 0.0085 Blood & T-cel Primary T reg BLOOD

0.4709 Muscle Psoas Muscle MUSCLE
 0.4682 Other Lung LUNG
 0.2213 Other Fetal Lung LUNG
 0.4241 ES-deriv hESC Derived ESC_DERIVED
 0.0761 ENCODE2012 Monocytes-C BLOOD
 0.3331 Muscle Psoas Muscle MUSCLE
 0.3241 Brain Brain Anterio BRAIN
 0.1579 Brain Brain Inferior BRAIN
 0.4617 Brain Brain Anterio BRAIN
 0.2021 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.4416 HSC & B-cell Primary Natu BLOOD
 0.4703 Blood & T-cel Primary T hel BLOOD
 0.4562 ENCODE2012 Dnd41 TCell L BLOOD
 0.0722 Digestive Fetal Stomacl GI_STOMACH
 0.2992 Digestive Stomach Muc GI_STOMACH
 0.2056 ENCODE2012 HepG2 Hepat LIVER
 0.4634 Brain Brain Hippocæ BRAIN
 0.3374 Digestive Colonic Muco GI_COLON
 0.0628 Digestive Stomach Muc GI_STOMACH
 0.0548 Other Fetal Adrenal ADRENAL
 0.4659 Blood & T-cel Primary T hel BLOOD
 0.4738 Epithelial Breast Myoeç BREAST
 0.1715 Digestive Duodenum V GI_DUODENUM
 0.4490 HSC & B-cell Primary neutç BLOOD
 0.4722 Epithelial Breast Myoeç BREAST
 0.4748 Heart Left Ventricle HEART
 0.4722 Thymus Thymus THYMUS
 0.0865 Thymus Thymus THYMUS
 0.2191 ENCODE2012 Osteoblast Pr BONE
 0.0628 Other Fetal Lung LUNG
 0.3153 HSC & B-cell Primary hemæ BLOOD
 0.1847 Blood & T-cel Primary monç BLOOD
 0.4771 Thymus Fetal Thymus THYMUS
 0.1286 Sm. Muscle Rectal Smoot GI_RECTUM
 0.4535 ENCODE2012 NHDF-Ad Adç SKIN
 0.3326 Heart Right Ventricle HEART
 0.0578 ES-deriv hESC Derived ESC_DERIVED
 0.4776 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.3867 Digestive Esophagus GI_ESOPHAGUS
 0.4787 ES-deriv H1 Derived N ESC_DERIVED
 0.3966 Brain Brain Inferior BRAIN
 0.4824 iPSC iPS-15b Cells IPSC
 0.0607 Blood & T-cel Primary T CDç BLOOD

0.4246 Blood & T-cel Primary T cell BLOOD
 0.1943 Digestive Fetal Intestine GI_INTESTINE
 0.3842 IMR90 IMR90 fetal lu LUNG
 0.4813 Blood & T-cel Primary T hel BLOOD
 0.2676 Digestive Small Intestine GI_INTESTINE
 0.2922 Epithelial Foreskin Fibro SKIN
 0.1759 ES-deriv hESC Derived ESC_DERIVED
 0.3740 HSC & B-cell Primary mono BLOOD
 0.2856 Other Fetal Lung LUNG
 0.1732 Digestive Fetal Intestine GI_INTESTINE
 0.4871 Thymus Thymus THYMUS
 0.1245 Sm. Muscle Stomach Smooth GI_STOMACH
 0.2899 HSC & B-cell Primary B cell BLOOD
 0.0965 Other Ovary OVARY
 0.0997 Other Fetal Kidney KIDNEY
 0.2332 IMR90 IMR90 fetal lu LUNG
 0.3106 ENCODE2012 NHEK-Epidermal SKIN
 0.4871 Brain Brain Anterior BRAIN
 0.4295 Heart Left Ventricle HEART
 0.0705 ESC H1 Cells ESC
 0.0821 iPSC iPSC-20b Cells IPSC
 0.4849 HSC & B-cell Primary Natural BLOOD
 0.2021 Sm. Muscle Duodenum Superior GI_DUODENUM
 0.0875 ENCODE2012 Monocytes-C BLOOD
 0.0443 Mesenchymal Bone Marrow STROMAL_CONNECTIVE
 0.2215 Blood & T-cel Primary mono BLOOD
 0.2056 iPSC iPSC DF 19.11 IPSC
 0.4898 ESC ES-13 Cells ESC
 0.4898 ES-deriv H1 Derived M ESC_DERIVED
 0.2846 Brain Brain_Dorsolateral BRAIN
 0.3886 HSC & B-cell Primary Natural BLOOD
 0.4878 Brain Brain Anterior BRAIN
 0.3748 Brain Brain Germinal BRAIN
 0.1975 HSC & B-cell Primary neutrophil BLOOD
 0.1689 ES-deriv H1 BMP4 Derived ESC_DERIVED
 0.4810 Digestive Colonic Mucosa GI_COLON
 0.1328 Digestive Fetal Stomach GI_STOMACH
 0.1579 Epithelial Foreskin Keratin SKIN
 0.2336 Muscle Fetal Muscle MUSCLE_LEG
 0.4695 Thymus Fetal Thymus THYMUS
 0.0505 Blood & T-cel Primary T hel BLOOD
 0.2642 IMR90 IMR90 fetal lu LUNG
 0.2401 ES-deriv H1 Derived N ESC_DERIVED

0.4964	iPSC	iPS DF 19.11 (IPSC
0.2199	Other	Placenta Amr PLACENTA
0.2658	Muscle	Fetal Muscle MUSCLE
0.4939	Other	Fetal Lung LUNG
0.4956	Epithelial	Foreskin Mel:SKIN
0.1972	Mesench	Adipose Deriv FAT
0.2491	Epithelial	Foreskin Fibr:SKIN
0.2183	Brain	Brain Hippoc: BRAIN
0.3605	Brain	Brain Substar BRAIN
0.0483	ESC	ES-13 Cells ESC
0.4772	Heart	Aorta VASCULAR
0.2506	Digestive	Sigmoid Color GI_COLON
0.4953	ES-deriv	hESC Derived ESC_DERIVED
0.5005	HSC & B-cell	Primary B cell BLOOD
0.4562	Heart	Right Atrium HEART
0.0394	Muscle	Skeletal Musc MUSCLE
0.3836	Thymus	Thymus THYMUS
0.4475	Other	Placenta PLACENTA
0.3261	Neurosph	Cortex derive BRAIN
0.0681	HSC & B-cell	Primary B cell BLOOD
0.3106	Brain	Brain Hippoc: BRAIN
0.0879	Other	Spleen SPLEEN
0.3107	ESC	HUES64 Cells ESC
0.0443	Neurosph	Cortex derive BRAIN
0.3235	ENCODE2012	NHDF-Ad Ad: SKIN
0.3940	ENCODE2012	NHDF-Ad Ad: SKIN
0.1926	iPSC	iPS DF 6.9 Cel IPSC
0.4953	HSC & B-cell	Primary B cell BLOOD
0.2183	Digestive	Gastric GI_STOMACH
0.1772	Blood & T-cel	Primary T hel: BLOOD
0.4626	ESC	H9 Cells ESC
0.5047	Blood & T-cel	Primary T hel: BLOOD
0.4301	HSC & B-cell	Primary neut: BLOOD
0.0705	iPSC	iPS-18 Cells IPSC
0.3778	HSC & B-cell	Primary hem: BLOOD
0.5094	Brain	Brain Angular BRAIN
0.2213	Digestive	Colonic Muco GI_COLON
0.5086	Neurosph	Ganglion Emi BRAIN
0.5093	ENCODE2012	NH-A Astrocy BRAIN
0.1769	Brain	Brain Germin BRAIN
0.0929	ES-deriv	H1 Derived M ESC_DERIVED
0.4170	Brain	Brain Cingula: BRAIN
0.5108	ESC	HUES6 Cells ESC

0.2615	Other	Spleen	SPLEEN
0.5149	Blood & T-cel	Primary T hel	BLOOD
0.0486	Muscle	Fetal Muscle	MUSCLE
0.4988	Digestive	Colonic Muco	GI_COLON
0.3277	Blood & T-cel	Primary mon	BLOOD
0.5154	Epithelial	Foreskin Mel	SKIN
0.5154	Digestive	Rectal Mucos	GI_RECTUM
0.0425	Other	Fetal Lung	LUNG
0.2815	Muscle	Psoas Muscle	MUSCLE
0.3722	Myosat	Muscle Satell	MUSCLE
0.5152	ENCODE2012	Osteoblast Pr	BONE
0.3142	ENCODE2012	A549 EtOH 0.	LUNG
0.3372	ENCODE2012	Osteoblast Pr	BONE
0.4871	Blood & T-cel	Primary T hel	BLOOD
0.1212	HSC & B-cell	Primary neut	BLOOD
0.4380	Blood & T-cel	Primary T hel	BLOOD
0.1624	Epithelial	Foreskin Fibr	SKIN
0.4167	Heart	Right Ventricl	HEART
0.0922	HSC & B-cell	Primary mon	BLOOD
0.1409	Blood & T-cel	Primary T cell	BLOOD
0.5083	ES-deriv	hESC Derived	ESC_DERIVED
0.2240	Other	Ovary	OVARY
0.1888	Other	Fetal Kidney	KIDNEY
0.3046	Blood & T-cel	Primary T hel	BLOOD
0.5185	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.4095	Digestive	Small Intestin	GI_INTESTINE
0.5216	Muscle	Fetal Muscle	MUSCLE
0.2249	Digestive	Fetal Intestin	GI_INTESTINE
0.2528	Muscle	Skeletal Musc	MUSCLE
0.2184	Digestive	Rectal Mucos	GI_RECTUM
0.5011	ESC	ES-WA7 Cells	ESC
0.0151	iPSC	iPS-15b Cells	IPSC
0.4931	Brain	Brain_Dorsol	BRAIN
0.1236	Blood & T-cel	Primary T hel	BLOOD
0.3308	Other	Fetal Adrenal	ADRENAL
0.3807	Thymus	Fetal Thymus	THYMUS
0.5198	ESC	ES-WA7 Cells	ESC
0.0113	Digestive	Rectal Mucos	GI_RECTUM
0.5108	Other	Placenta Amr	PLACENTA
0.5094	Mesench	Adipose Deriv	FAT
0.0233	ESC	HUES6 Cells	ESC
0.5108	Sm. Muscle	Stomach Smo	GI_STOMACH
0.4527	HSC & B-cell	Primary Natu	BLOOD

0.4964 Brain Fetal Brain Fe BRAIN
 0.3818 ESC H9 Cells ESC
 0.4901 ESC HUES48 Cells ESC
 0.0679 Blood & T-cel Primary T hel BLOOD
 0.4251 Digestive Rectal Mucos GI_RECTUM
 0.4436 ESC ES-13 Cells ESC
 0.4524 HSC & B-cell Primary B cell BLOOD
 0.1459 HSC & B-cell Primary neutri BLOOD
 0.5306 Other Liver LIVER
 0.1612 Blood & T-cel Primary T hel BLOOD
 0.5306 iPSC iPS-18 Cells IPSC
 0.2056 Muscle Fetal Muscle MUSCLE_LEG
 0.1195 ENCODE2012 HepG2 Hepat LIVER
 0.1064 Blood & T-cel Primary T reg BLOOD
 0.0901 Other Fetal Adrenal ADRENAL
 0.0708 ES-deriv H9 Derived N ESC_DERIVED
 0.5325 ESC ES-UCSF4 Cel ESC
 0.1100 ESC HUES64 Cells ESC
 0.5284 Mesench Adipose Deriv FAT
 0.1083 Epithelial Breast Myoeç BREAST
 0.3966 Brain Brain Anterio BRAIN
 0.5203 Heart Right Atrium HEART
 0.4748 Blood & T-cel Primary T CD8 BLOOD
 0.0486 ESC ES-WA7 Cells ESC
 0.0459 Other Fetal Kidney KIDNEY
 0.2336 ESC ES-UCSF4 Cel ESC
 0.0628 Digestive Rectal Mucos GI_RECTUM
 0.3676 ESC HUES6 Cells ESC
 0.3306 Digestive Sigmoid Color GI_COLON
 0.5207 ENCODE2012 NH-A Astrocy BRAIN
 0.1203 Blood & T-cel Primary T hel BLOOD
 0.0628 ENCODE2012 Osteoblast Pr BONE
 0.3244 Blood & T-cel Primary T reg BLOOD
 0.4523 ENCODE2012 HepG2 Hepat LIVER
 0.4659 Brain Fetal Brain Fe BRAIN
 0.1684 Epithelial Foreskin Fibrc SKIN
 0.0624 Neurosph Ganglion Emi BRAIN
 0.0821 Muscle Skeletal Musc MUSCLE
 0.3867 Blood & T-cel Primary T hel BLOOD
 0.5292 Other Lung LUNG
 0.0865 Blood & T-cel Primary T cell BLOOD
 0.3376 Blood & T-cel Primary T hel BLOOD
 0.4871 Brain Brain Anterio BRAIN

0.2834 Blood & T-cel Primary T hel BLOOD
 0.0749 Epithelial Breast varian BREAST
 0.4948 Blood & T-cel Primary T cell BLOOD
 0.1183 Other Spleen SPLEEN
 0.0484 Mesench Mesenchyma FAT
 0.3776 ENCODE2012 NHEK-Epiderr SKIN
 0.0865 Muscle Skeletal Musc MUSCLE
 0.5408 ENCODE2012 HUVEC Umbil VASCULAR
 0.1579 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.3547 Sm. Muscle Stomach Smo GI_STOMACH
 0.3850 HSC & B-cell Primary B cell BLOOD
 0.2779 ESC H1 Cells ESC
 0.4663 Brain Brain Cingula BRAIN
 0.4904 Other Placenta PLACENTA
 0.2697 ES-deriv hESC Derived ESC_DERIVED
 0.4247 Epithelial Foreskin Mel SKIN
 0.0681 ESC H1 Cells ESC
 0.3441 ES-deriv hESC Derived ESC_DERIVED
 0.3033 Other Pancreatic Isl PANCREAS
 0.4427 Mesench Mesenchyma FAT
 0.2415 Blood & T-cel Primary T hel BLOOD
 0.3033 iPSC iPS DF 19.11 (IPSC
 0.3620 Epithelial Foreskin Kera SKIN
 0.5283 HSC & B-cell Primary neut BLOOD
 0.5219 Other Ovary OVARY
 0.0942 ENCODE2012 HMEC Mamr BREAST
 0.5267 ESC H9 Cells ESC
 0.2513 ESC ES-13 Cells ESC
 0.2558 Epithelial Foreskin Kera SKIN
 0.5461 Blood & T-cel Primary T hel BLOOD
 0.4062 Myosat Muscle Satell MUSCLE
 0.5284 Epithelial Foreskin Kera SKIN
 0.1083 Blood & T-cel Primary T hel BLOOD
 0.0783 iPSC iPS-18 Cells IPSC
 0.5325 ENCODE2012 Monocytes-C BLOOD
 0.5473 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.5460 ES-deriv H9 Derived N ESC_DERIVED
 0.0542 Mesench Adipose Deriv FAT
 0.5461 Muscle Fetal Muscle MUSCLE_LEG
 0.0997 ENCODE2012 NHEK-Epiderr SKIN
 0.1314 Other Placenta PLACENTA
 0.0691 Brain Brain Substar BRAIN
 0.1806 HSC & B-cell Primary hem BLOOD

0.1772 ENCODE2012 NHLF Lung Fil LUNG
 0.2056 HSC & B-cell Primary hem; BLOOD
 0.2073 ENCODE2012 Monocytes-C BLOOD
 0.5306 Muscle Fetal Muscle MUSCLE
 0.0567 ESC H9 Cells ESC
 0.1099 Myosat Muscle Satell MUSCLE
 0.1310 Blood & T-cel Primary T CD; BLOOD
 0.3650 ES-deriv hESC Derived ESC_DERIVED
 0.1046 IMR90 IMR90 fetal l; LUNG
 0.4117 IMR90 IMR90 fetal l; LUNG
 0.4180 ESC HUES6 Cells ESC
 0.4351 HSC & B-cell Primary hem; BLOOD
 0.5220 Heart Right Ventricl HEART
 0.0783 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.1542 Adipose Adipose Nucl; FAT
 0.0770 ES-deriv hESC Derived ESC_DERIVED
 0.5326 Muscle Psoas Muscle MUSCLE
 0.2534 Blood & T-cel Primary T hel; BLOOD
 0.0698 ENCODE2012 A549 EtOH 0. LUNG
 0.1057 ES-deriv H9 Derived N ESC_DERIVED
 0.0636 ESC ES-13 Cells ESC
 0.1183 Blood & T-cel Primary T cell BLOOD
 0.1288 Brain Brain Germin BRAIN
 0.5437 ENCODE2012 HepG2 Hepat LIVER
 0.5408 iPSC iPS-20b Cells IPSC
 0.5562 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.4936 Mesench Mesenchyma FAT
 0.0737 Brain Brain Angular BRAIN
 0.4699 ENCODE2012 HSMM Skelet MUSCLE
 0.3163 Muscle Skeletal Musc MUSCLE
 0.1108 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.4278 Other Liver LIVER
 0.0866 ENCODE2012 NHLF Lung Fil LUNG
 0.4109 Epithelial Foreskin Fibr; SKIN
 0.2160 ESC HUES6 Cells ESC
 0.3642 Epithelial Foreskin Fibr; SKIN
 0.5458 Other Fetal Lung LUNG
 0.4901 Blood & T-cel Primary T cell BLOOD
 0.0987 iPSC iPS DF 6.9 Cel IPSC
 0.2830 Blood & T-cel Primary T hel; BLOOD
 0.2166 Other Liver LIVER
 0.0843 Heart Aorta VASCULAR
 0.1914 ENCODE2012 Osteoblast Pr BONE

0.0973	ESC	HUES48 Cells	ESC
0.4002	Adipose	Adipose Nucl	FAT
0.1716	Muscle	Fetal Muscle	MUSCLE_LEG
0.5104	Heart	Left Ventricle	HEART
0.4732	IMR90	IMR90 fetal lu	LUNG
0.5012	Brain	Brain Inferior	BRAIN
0.1724	ES-deriv	H1 Derived M	ESC_DERIVED
0.5293	ES-deriv	H1 Derived M	ESC_DERIVED
0.0973	Epithelial	Breast Myoe	BREAST
0.5588	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.2700	Epithelial	Foreskin Mel	SKIN
0.2970	Muscle	Fetal Muscle	MUSCLE
0.5562	ESC	HUES48 Cells	ESC
0.3987	Other	Pancreatic Isl	PANCREAS
0.4871	Blood & T-cel	Primary T CD	BLOOD
0.2372	HSC & B-cell	Primary mon	BLOOD
0.5641	Mesench	Mesenchyma	FAT
0.5154	Other	Placenta	PLACENTA
0.3966	Other	Spleen	SPLEEN
0.2025	ENCODE2012	HepG2 Hepat	LIVER
0.4516	ESC	HUES64 Cells	ESC
0.5634	Blood & T-cel	Primary T cell	BLOOD
0.4036	Blood & T-cel	Primary T cell	BLOOD
0.5647	Heart	Fetal Heart	HEART
0.5577	HSC & B-cell	Primary B cell	BLOOD
0.0729	Other	Pancreatic Isl	PANCREAS
0.5546	Blood & T-cel	Primary T CD	BLOOD
0.1664	ES-deriv	hESC Derived	ESC_DERIVED
0.5564	Blood & T-cel	Primary T cell	BLOOD
0.5612	Digestive	Stomach Muc	GI_STOMACH
0.5352	ES-deriv	H1 Derived N	ESC_DERIVED
0.1700	Digestive	Gastric	GI_STOMACH
0.1329	ESC	HUES64 Cells	ESC
0.4074	HSC & B-cell	Primary hem	BLOOD
0.1621	ENCODE2012	K562 Leukem	BLOOD
0.5709	Digestive	Fetal Intestin	GI_INTESTINE
0.3175	HSC & B-cell	Primary neut	BLOOD
0.4931	Epithelial	Foreskin Mel	SKIN
0.5647	ES-deriv	H1 Derived M	ESC_DERIVED
0.2025	Other	Placenta Amr	PLACENTA
0.2167	Digestive	Stomach Muc	GI_STOMACH
0.5669	Blood & T-cel	Primary T reg	BLOOD
0.1745	ES-deriv	H1 Derived N	ESC_DERIVED

0.5321 ENCODE2012 HMEC Mamr BREAST
 0.2586 Heart Fetal Heart HEART
 0.3393 Digestive Fetal Intestine GI_INTESTINE
 0.1964 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.5450 Epithelial Foreskin Kera SKIN
 0.3612 ESC HUES6 Cells ESC
 0.4344 ESC ES-WA7 Cells ESC
 0.1515 Muscle Psoas Muscle MUSCLE
 0.1463 ENCODE2012 GM12878 Lyr BLOOD
 0.5737 ES-deriv H9 Derived N ESC_DERIVED
 0.5746 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.3046 Other Placenta PLACENTA
 0.3686 Brain Brain Cingula BRAIN
 0.1699 Brain Fetal Brain Fe BRAIN
 0.2809 iPSC iPS-20b Cells IPSC
 0.2445 Blood & T-cel Primary T CD8 BLOOD
 0.4095 Blood & T-cel Primary T CD4 BLOOD
 0.5461 ES-deriv hESC Derived ESC_DERIVED
 0.1965 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.5595 Brain Fetal Brain M BRAIN
 0.1716 ENCODE2012 NHDF-Ad Adu SKIN
 0.1767 Sm. Muscle Stomach Smo GI_STOMACH
 0.5220 Blood & T-cel Primary T reg BLOOD
 0.1642 Other Ovary OVARY
 0.1792 ENCODE2012 HSMM Skelet MUSCLE
 0.3842 Blood & T-cel Primary monc BLOOD
 0.1953 Blood & T-cel Primary T cell BLOOD
 0.2056 Epithelial Foreskin Fibrc SKIN
 0.5255 ES-deriv H9 Derived N ESC_DERIVED
 0.5089 Brain Brain_Dorsolc BRAIN
 0.5511 Other Placenta PLACENTA
 0.2709 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.3565 ENCODE2012 Dnd41 TCell L BLOOD
 0.5617 Heart Right Atrium HEART
 0.2127 Epithelial Foreskin Fibrc SKIN
 0.1776 Brain Brain_Dorsolc BRAIN
 0.2405 ENCODE2012 NH-A Astrocy BRAIN
 0.5332 iPSC iPS-18 Cells IPSC
 0.5866 Blood & T-cel Primary T CD8 BLOOD
 0.3731 Blood & T-cel Primary T hel BLOOD
 0.5720 Mesench Adipose Deriv FAT
 0.2779 Other Liver LIVER
 0.2726 Digestive Small Intestine GI_INTESTINE

0.4535	ESC	H9 Cells	ESC
0.2705	Epithelial	Foreskin Kera	SKIN
0.1985	Heart	Right Ventricle	HEART
0.2079	Brain	Brain Hippocampus	BRAIN
0.5647	Sm. Muscle	Colon Smooth	GI_COLON
0.5756	iPSC	iPS-18 Cells	IPSC
0.1815	Brain	Brain Anterior	BRAIN
0.5647	Mesench	Mesenchyma	FAT
0.3748	iPSC	iPS-18 Cells	IPSC
0.3460	Blood & T-cell	Primary T helper	BLOOD
0.1967	Sm. Muscle	Rectal Smooth	GI_RECTUM
0.2240	Digestive	Duodenum IV	GI_DUODENUM
0.5714	Blood & T-cell	Primary T CD4	BLOOD
0.5425	Muscle	Skeletal Muscle	MUSCLE
0.2146	Sm. Muscle	Duodenum Sr	GI_DUODENUM
0.5737	Blood & T-cell	Primary T cell	BLOOD
0.5475	ENCODE2012 NH-A	Astrocyte	BRAIN
0.5904	Blood & T-cell	Primary T CD4	BLOOD
0.5577	Digestive	Rectal Mucosa	GI_RECTUM
0.5894	HSC & B-cell	Primary B cell	BLOOD
0.5227	Brain	Brain Hippocampus	BRAIN
0.3627	iPSC	iPS-15b Cells	IPSC
0.3116	Digestive	Fetal Stomach	GI_STOMACH
0.4948	Heart	Left Ventricle	HEART
0.5866	Muscle	Fetal Muscle	MUSCLE_LEG
0.5922	Muscle	Skeletal Muscle	MUSCLE
0.5503	Other	Fetal Adrenal	ADRENAL
0.5904	ENCODE2012 K562	Leukemia	BLOOD
0.4664	ENCODE2012 NH-A	Astrocyte	BRAIN
0.5154	Digestive	Colonic Mucosa	GI_COLON
0.5684	ENCODE2012 HSMM	cell derived	MUSCLE
0.5935	ES-deriv	H1 Derived M	ESC_DERIVED
0.5836	Digestive	Fetal Intestine	GI_INTESTINE
0.5024	Blood & T-cell	Primary T reg	BLOOD
0.5737	Muscle	Fetal Muscle	MUSCLE
0.4606	Digestive	Duodenum IV	GI_DUODENUM
0.2539	Brain	Brain Cingulate	BRAIN
0.5562	Digestive	Esophagus	GI_ESOPHAGUS
0.5845	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.4265	ESC	HUES48 Cells	ESC
0.0643	Brain	Fetal Brain M	BRAIN
0.5216	iPSC	iPS-20b Cells	IPSC
0.5916	Digestive	Fetal Stomach	GI_STOMACH

0.5891 Epithelial Breast Myoep BREAST
 0.2705 ENCODE2012 HSMM cell de MUSCLE
 0.4001 Brain Fetal Brain M BRAIN
 0.5562 Thymus Thymus THYMUS
 0.3255 Digestive Fetal Stomach GI_STOMACH
 0.5879 ENCODE2012 HSMM Skelet MUSCLE
 0.4794 ENCODE2012 Dnd41 TCell L BLOOD
 0.4231 Blood & T-cell Primary T hel BLOOD
 0.5894 Sm. Muscle Colon Smooth GI_COLON
 0.5459 HSC & B-cell Primary hem BLOOD
 0.5990 Other Lung LUNG
 0.3331 Other Lung LUNG
 0.3828 ENCODE2012 HUVEC Umbil VASCULAR
 0.5981 ESC ES-13 Cells ESC
 0.2899 Sm. Muscle Colon Smooth GI_COLON
 0.4252 Blood & T-cell Primary T hel BLOOD
 0.2534 HSC & B-cell Primary hem BLOOD
 0.3306 Digestive Fetal Intestine GI_INTESTINE
 0.5906 Epithelial Foreskin Mel SKIN
 0.5861 ENCODE2012 HSMM cell de MUSCLE
 0.5980 Sm. Muscle Stomach Smooth GI_STOMACH
 0.5145 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.5284 Digestive Fetal Intestine GI_INTESTINE
 0.5994 ES-deriv hESC Derived ESC_DERIVED
 0.5887 Epithelial Foreskin Kera SKIN
 0.4871 ENCODE2012 Monocytes-C BLOOD
 0.6055 Digestive Small Intestine GI_INTESTINE
 0.5958 Epithelial Breast Myoep BREAST
 0.4046 Blood & T-cell Primary T hel BLOOD
 0.4938 iPSC iPS-15b Cells IPSC
 0.3333 ENCODE2012 K562 Leukem BLOOD
 0.5922 Blood & T-cell Primary T hel BLOOD
 0.6033 Digestive Small Intestine GI_INTESTINE
 0.4513 Digestive Colonic Mucosa GI_COLON
 0.5605 ENCODE2012 HSMM cell de MUSCLE
 0.5884 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.5461 Epithelial Foreskin Kera SKIN
 0.6075 Digestive Esophagus GI_ESOPHAGUS
 0.4316 HSC & B-cell Primary Natu BLOOD
 0.6033 Epithelial Foreskin Fibro SKIN
 0.3711 ESC ES-UCSF4 Cell ESC
 0.3465 HSC & B-cell Primary hem BLOOD
 0.5385 Digestive Esophagus GI_ESOPHAGUS

0.3506	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.5923	Other	Fetal Lung	LUNG
0.4721	HSC & B-cell	Primary B cell	BLOOD
0.3455	iPSC	iPS-20b Cells	IPSC
0.5242	Epithelial	Foreskin Fibrc	SKIN
0.4925	ENCODE2012	HUVEC Umbil	VASCULAR
0.4625	ENCODE2012	Monocytes-C	BLOOD
0.6071	Digestive	Colonic Muco	GI_COLON
0.4305	Muscle	Skeletal Musc	MUSCLE
0.3615	Mesench	Adipose Deriv	FAT
0.5977	Blood & T-cel	Primary T hel	BLOOD
0.4693	ENCODE2012	HSMM Skelet	MUSCLE
0.5406	Brain	Fetal Brain Fe	BRAIN
0.5630	Neurosph	Cortex derive	BRAIN
0.4898	ENCODE2012	NHDF-Ad Adu	SKIN
0.6107	Blood & T-cel	Primary T hel	BLOOD
0.6044	Brain	Brain Inferior	BRAIN
0.6014	Sm. Muscle	Duodenum Sr	GI_DUODENUM
0.5873	Heart	Fetal Heart	HEART
0.5606	Digestive	Small Intestin	GI_INTESTINE
0.3241	Heart	Right Atrium	HEART
0.5220	Brain	Brain Anterio	BRAIN
0.6064	iPSC	iPS DF 6.9 Cel	IPSC
0.4306	Digestive	Sigmoid Color	GI_COLON
0.5641	ES-deriv	hESC Derived	ESC_DERIVED
0.5941	ENCODE2012	HMEC Mamr	BREAST
0.6014	Mesench	Mesenchyma	STROMAL_CONNECTIVE
0.5945	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.5106	HSC & B-cell	Primary hemz	BLOOD
0.4956	ENCODE2012	HSMM cell de	MUSCLE
0.5906	Myosat	Muscle Satell	MUSCLE
0.6059	ESC	ES-UCSF4 Cel	ESC
0.5794	Epithelial	Foreskin Kera	SKIN
0.4523	Digestive	Rectal Mucos	GI_RECTUM
0.5128	Brain	Fetal Brain M	BRAIN
0.5811	Thymus	Fetal Thymus	THYMUS
0.5516	Brain	Brain Germin	BRAIN
0.5169	Epithelial	Foreskin Fibrc	SKIN
0.4469	Digestive	Esophagus	GI_ESOPHAGUS
0.5108	Brain	Fetal Brain Fe	BRAIN
0.6213	Other	Fetal Lung	LUNG
0.5941	ES-deriv	hESC Derived	ESC_DERIVED
0.6203	ESC	H1 Cells	ESC

0.4345 Heart Left Ventricle HEART
 0.6204 Brain Brain Substar BRAIN
 0.6147 Blood & T-cel Primary T hel BLOOD
 0.5588 ES-deriv H1 Derived M ESC_DERIVED
 0.6232 Other Fetal Lung LUNG
 0.6239 iPSC iPS DF 6.9 Cell IPSC
 0.5220 Myosat Muscle Satell MUSCLE
 0.6245 Adipose Adipose Nucl FAT
 0.5562 Heart Right Atrium HEART
 0.4845 iPSC iPS DF 19.11 (IPSC
 0.5423 Brain Fetal Brain M BRAIN
 0.5503 ES-deriv H9 Derived N ESC_DERIVED
 0.6149 iPSC iPS-20b Cells IPSC
 0.4241 ES-deriv hESC Derived ESC_DERIVED
 0.6113 ENCODE2012 Dnd41 TCell L BLOOD
 0.6255 Epithelial Breast varian BREAST
 0.4737 HSC & B-cell Primary hem BLOOD
 0.6179 Neurosph Ganglion Emi BRAIN
 0.4871 Other Liver LIVER
 0.6122 Epithelial Breast varian BREAST
 0.6071 HSC & B-cell Primary B cell BLOOD
 0.5401 Thymus Fetal Thymus THYMUS
 0.6199 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.5714 HSC & B-cell Primary hem BLOOD
 0.5873 ESC HUES64 Cells ESC
 0.5941 Blood & T-cel Primary T hel BLOOD
 0.6264 Blood & T-cel Primary T hel BLOOD
 0.5844 ESC ES-13 Cells ESC
 0.6258 Digestive Fetal Stomach GI_STOMACH
 0.2890 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.5651 ESC HUES48 Cells ESC
 0.4816 Brain Brain Inferior BRAIN
 0.5347 ES-deriv H9 Derived N ESC_DERIVED
 0.6149 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.5880 Other Ovary OVARY
 0.6351 ENCODE2012 HepG2 Hepat LIVER
 0.5861 HSC & B-cell Primary B cell BLOOD
 0.6199 Muscle Psoas Muscle MUSCLE
 0.6386 Epithelial Breast Myoe BREAST
 0.6176 ENCODE2012 Osteoblast Pr BONE
 0.5113 Adipose Adipose Nucl FAT
 0.6046 HSC & B-cell Primary hem BLOOD
 0.6135 ES-deriv H1 Derived N ESC_DERIVED

0.5894 HSC & B-cell Primary Natu BLOOD
 0.5396 Epithelial Foreskin Fibr SKIN
 0.6232 Brain Fetal Brain Fe BRAIN
 0.6392 ENCODE2012 Monocytes-C BLOOD
 0.6199 ENCODE2012 NHEK-Epiderr SKIN
 0.6444 Brain Brain Germin BRAIN
 0.6422 ES-deriv H9 Derived N ESC_DERIVED
 0.6387 iPSC iPS-15b Cells IPSC
 0.6392 ESC HUES64 Cells ESC
 0.6078 Digestive Rectal Mucos GI_RECTUM
 0.6337 Other Spleen SPLEEN
 0.6454 ES-deriv hESC Derived ESC_DERIVED
 0.6422 Muscle Skeletal Musc MUSCLE
 0.6387 Heart Fetal Heart HEART
 0.5851 Blood & T-cel Primary T hel BLOOD
 0.6483 Epithelial Foreskin Mel SKIN
 0.5651 Muscle Skeletal Musc MUSCLE
 0.6335 ENCODE2012 Dnd41 TCell L BLOOD
 0.4104 Other Fetal Adrenal ADRENAL
 0.5757 Digestive Stomach Muc GI_STOMACH
 0.6206 Thymus Thymus THYMUS
 0.6508 Brain Fetal Brain M BRAIN
 0.6224 Brain Brain_Dorsol BRAIN
 0.6400 Digestive Sigmoid Color GI_COLON
 0.5307 Brain Fetal Brain Fe BRAIN
 0.6299 Brain Brain Angular BRAIN
 0.6347 HSC & B-cell Primary B cell BLOOD
 0.5319 ES-deriv H1 Derived N ESC_DERIVED
 0.6563 Neurosph Cortex derive BRAIN
 0.6573 Mesench Adipose Deriv FAT
 0.6335 Epithelial Foreskin Mel SKIN
 0.6148 Digestive Rectal Mucos GI_RECTUM
 0.6149 Blood & T-cel Primary T CD BLOOD
 0.6592 Muscle Skeletal Musc MUSCLE
 0.6609 Epithelial Breast Myoe BREAST
 0.6580 ES-deriv H1 Derived N ESC_DERIVED
 0.6377 Brain Brain Inferior BRAIN
 0.6508 Digestive Fetal Intestin GI_INTESTINE
 0.6199 Blood & T-cel Primary T hel BLOOD
 0.6580 Muscle Fetal Muscle MUSCLE_LEG
 0.6587 Epithelial Breast varian BREAST
 0.6543 Blood & T-cel Primary T hel BLOOD
 0.6547 Blood & T-cel Primary T CD BLOOD

0.6391 Thymus Thymus THYMUS
 0.6528 Other Fetal Adrenal ADRENAL
 0.6537 Muscle Skeletal Musc MUSCLE
 0.6580 Other Pancreas PANCREAS
 0.6613 Digestive Stomach Muc GI_STOMACH
 0.6624 IMR90 IMR90 fetal l LUNG
 0.5759 ENCODE2012 A549 EtOH 0. LUNG
 0.6292 Blood & T-cel Primary T hel BLOOD
 0.6076 Blood & T-cel Primary T hel BLOOD
 0.6499 Blood & T-cel Primary monc BLOOD
 0.6695 Digestive Rectal Mucos GI_RECTUM
 0.6695 Epithelial Foreskin Kera SKIN
 0.6488 Epithelial Foreskin Kera SKIN
 0.6670 ESC HUES64 Cells ESC
 0.6454 Other Placenta Amr PLACENTA
 0.6580 Blood & T-cel Primary T hel BLOOD
 0.6580 iPSC iPS-15b Cells IPSC
 0.6688 Other Pancreatic Isl PANCREAS
 0.6478 Blood & T-cel Primary T hel BLOOD
 0.6645 HSC & B-cell Primary monc BLOOD
 0.6301 HSC & B-cell Primary hemc BLOOD
 0.6735 Thymus Fetal Thymus THYMUS
 0.6784 Heart Right Ventricle HEART
 0.6654 ENCODE2012 A549 EtOH 0. LUNG
 0.6117 Other Placenta PLACENTA
 0.6779 Digestive Colonic Muco GI_COLON
 0.6797 Blood & T-cel Primary T hel BLOOD
 0.6844 Brain Brain Anterio BRAIN
 0.6508 Digestive Stomach Muc GI_STOMACH
 0.6820 Epithelial Foreskin Melc SKIN
 0.6784 Brain Brain Anterio BRAIN
 0.6419 Blood & T-cel Primary T reg BLOOD
 0.6847 Digestive Fetal Intestin GI_INTESTINE
 0.6784 Muscle Fetal Muscle MUSCLE
 0.6844 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.6898 Sm. Muscle Stomach Smo GI_STOMACH
 0.6863 Blood & T-cel Primary T hel BLOOD
 0.6901 Epithelial Foreskin Kera SKIN
 0.6892 Muscle Fetal Muscle MUSCLE
 0.6912 Muscle Fetal Muscle MUSCLE_LEG
 0.6913 Epithelial Foreskin Fibrc SKIN
 0.6912 Heart Right Atrium HEART
 0.6920 Other Fetal Kidney KIDNEY

0.6801 ENCODE2012 Dnd41 TCell L BLOOD
 0.6844 Blood & T-cel Primary monr BLOOD
 0.6147 Thymus Fetal Thymus THYMUS
 0.6979 ES-deriv H1 Derived M ESC_DERIVED
 0.7024 Epithelial Foreskin Mel SKIN
 0.6506 Other Pancreatic Isl PANCREAS
 0.7045 Blood & T-cel Primary T cell BLOOD
 0.6876 Digestive Rectal Mucos GI_RECTUM
 0.7056 ENCODE2012 HMEC Mamr BREAST
 0.6379 Muscle Psoas Muscle MUSCLE
 0.6944 Other Fetal Kidney KIDNEY
 0.6744 Brain Brain Angular BRAIN
 0.7506 Epithelial Foreskin Fibr SKIN
 0.6335 Digestive Fetal Intestin GI_INTESTINE
 0.7366 Myosat Muscle Satell MUSCLE
 0.6961 Blood & T-cel Primary T hel BLOOD
 0.7666 Brain Brain Inferior BRAIN
 0.7670 Blood & T-cel Primary T CD8 BLOOD
 0.6454 Adipose Adipose Nucl FAT
 0.7708 ENCODE2012 Dnd41 TCell L BLOOD
 0.7238 Neurosph Cortex derive BRAIN
 0.7373 ENCODE2012 HepG2 Hepat LIVER
 0.7289 Brain Brain Cingula BRAIN
 0.7273 iPSC iPS-15b Cells IPSC
 0.7373 Other Lung LUNG
 0.7581 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.7238 Blood & T-cel Primary T hel BLOOD
 0.7940 Brain Brain Cingula BRAIN
 0.7212 Digestive Gastric GI_STOMACH
 0.7366 IMR90 IMR90 fetal l LUNG
 0.7461 Brain Brain Anterio BRAIN
 0.8005 Other Ovary OVARY
 0.7398 ENCODE2012 NHEK-Epiderr SKIN
 0.7421 ESC HUES6 Cells ESC
 0.7373 Blood & T-cel Primary T hel BLOOD
 0.7445 Digestive Fetal Intestin GI_INTESTINE
 0.6861 HSC & B-cell Primary neutr BLOOD
 0.7053 Muscle Fetal Muscle MUSCLE_LEG
 0.6892 Brain Brain Substar BRAIN
 0.6071 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.7073 ESC H1 Cells ESC
 0.7506 HSC & B-cell Primary B cell BLOOD
 0.7358 ESC HUES48 Cells ESC

0.8167 Brain Brain Germin BRAIN
 0.8286 Blood & T-cel Primary T hel BLOOD
 0.7691 Digestive Duodenum M GI_DUODENUM
 0.7212 Other Placenta Amr PLACENTA
 0.6987 HSC & B-cell Primary B cell BLOOD
 0.7392 Digestive Sigmoid Color GI_COLON
 0.7888 Sm. Muscle Stomach Smo GI_STOMACH
 0.7135 ENCODE2012 Osteoblast Pr BONE
 0.7448 ENCODE2012 GM12878 Lyr BLOOD
 0.7710 Neurosph Cortex derive BRAIN
 0.6787 Brain Brain Substar BRAIN
 0.6956 Brain Brain Hippocæ BRAIN
 0.7264 ES-deriv H1 Derived M ESC_DERIVED
 0.7784 HSC & B-cell Primary Natu BLOOD
 0.8277 Digestive Small Intestin GI_INTESTINE
 0.7709 Other Placenta PLACENTA
 0.6467 Epithelial Foreskin Fibr SKIN
 0.7108 ENCODE2012 K562 Leukem BLOOD
 0.8312 Blood & T-cel Primary T cell BLOOD
 0.8044 HSC & B-cell Primary B cell BLOOD
 0.8932 Brain Brain Substar BRAIN
 0.5916 Brain Brain Hippocæ BRAIN
 0.7147 ENCODE2012 A549 EtOH O. LUNG
 0.7976 Neurosph Ganglion Emi BRAIN
 0.8859 Muscle Fetal Muscle MUSCLE
 0.9041 ENCODE2012 NH-A Astrocy BRAIN
 0.8904 Brain Brain Angular BRAIN
 0.7266 ESC ES-WA7 Cells ESC
 0.7847 Epithelial Foreskin Mel SKIN
 0.6847 Brain Brain Anterio BRAIN
 0.6841 Digestive Sigmoid Color GI_COLON
 0.7603 HSC & B-cell Primary hemæ BLOOD
 0.7976 Blood & T-cel Primary T cell BLOOD
 0.9065 HSC & B-cell Primary neut BLOOD
 0.7138 Blood & T-cel Primary T hel BLOOD
 0.7265 Digestive Esophagus GI_ESOPHAGUS
 0.9436 Muscle Fetal Muscle MUSCLE_LEG
 0.7889 Other Fetal Adrenal ADRENAL
 0.7741 ES-deriv hESC Derived ESC_DERIVED
 0.7448 Digestive Colonic Muco GI_COLON
 0.7979 Sm. Muscle Rectal Smoot GI_RECTUM
 0.9270 ENCODE2012 K562 Leukem BLOOD
 0.7211 ENCODE2012 HMEC Mamr BREAST

0.8419 ENCODE2012 Dnd41 TCell L BLOOD
 0.9548 Neurosph Cortex derive BRAIN
 0.7200 ENCODE2012 HSMM Skelet MUSCLE
 0.9463 Blood & T-cel Primary T hel BLOOD
 0.8127 ENCODE2012 K562 Leukem BLOOD
 0.8971 HSC & B-cell Primary hemæ BLOOD
 0.7613 ENCODE2012 Monocytes-C BLOOD
 0.9280 Blood & T-cel Primary T hel BLOOD
 0.9420 Blood & T-cel Primary T hel BLOOD
 0.7594 ESC HUES48 Cells ESC
 0.7940 Brain Brain Hippocæ BRAIN
 0.6797 Epithelial Foreskin Melæ SKIN
 0.7831 Digestive Rectal Mucos GI_RECTUM
 0.6470 Digestive Stomach Muc GI_STOMACH
 0.9437 Neurosph Ganglion Emi BRAIN
 0.7790 Digestive Stomach Muc GI_STOMACH
 0.8012 HSC & B-cell Primary hemæ BLOOD
 0.7891 Brain Brain Inferior BRAIN
 0.9272 Brain Brain_Dorsolæ BRAIN
 0.6396 ENCODE2012 HepG2 Hepat LIVER
 0.7744 Blood & T-cel Primary T CD8 BLOOD
 0.9613 Blood & T-cel Primary T CD8 BLOOD
 0.9937 ENCODE2012 NHDF-Ad Adu SKIN
 0.8803 Blood & T-cel Primary T hel BLOOD
 0.8210 Epithelial Foreskin Kera SKIN
 0.6807 Epithelial Foreskin Fibræ SKIN
 0.9880 HSC & B-cell Primary hemæ BLOOD
 0.8832 ENCODE2012 A549 EtOH 0. LUNG
 0.8172 Heart Left Ventricle HEART
 0.8587 Epithelial Foreskin Kera SKIN
 0.7709 HSC & B-cell Primary neutri BLOOD
 0.7065 HSC & B-cell Primary hemæ BLOOD
 0.7716 Other Placenta Amr PLACENTA
 0.8616 Blood & T-cel Primary T cell BLOOD
 0.7073 HSC & B-cell Primary neutri BLOOD
 0.6440 Other Lung LUNG
 0.9004 Digestive Fetal Intestinæ GI_INTESTINE
 0.9987 Muscle Skeletal Musc MUSCLE
 0.9826 HSC & B-cell Primary B cell BLOOD
 0.8758 Epithelial Foreskin Melæ SKIN
 1.0000 HSC & B-cell Primary hemæ BLOOD
 0.8201 ENCODE2012 GM12878 Lyr BLOOD
 0.7627 Epithelial Foreskin Fibræ SKIN

0.8277 HSC & B-cell Primary hemæ BLOOD
 0.7979 ES-deriv H9 Derived N ESC_DERIVED
 0.8137 Brain Brain Germin BRAIN
 0.9169 Mesench Mesenchyma FAT
 0.7022 Other Spleen SPLEEN
 0.8979 Blood & T-cel Primary T cell BLOOD
 0.9521 Thymus Thymus THYMUS
 0.8611 Blood & T-cel Primary T cell BLOOD
 0.7266 Epithelial Breast varian BREAST
 0.7652 Digestive Fetal Intestin GI_INTESTINE
 0.9210 HSC & B-cell Primary neut BLOOD
 0.8786 Epithelial Foreskin Fibr SKIN
 0.7366 Blood & T-cel Primary T reg BLOOD
 0.9105 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.9980 Digestive Fetal Stomac GI_STOMACH
 0.8904 Brain Brain Hippocæ BRAIN
 0.8172 Muscle Skeletal Musc MUSCLE
 0.7968 ENCODE2012 K562 Leukem BLOOD
 0.7670 ESC HUES64 Cells ESC
 0.8009 Blood & T-cel Primary T hel BLOOD
 0.7482 Other Liver LIVER
 1.0000 HSC & B-cell Primary hemæ BLOOD
 0.7790 Digestive Rectal Mucos GI_RECTUM
 0.9172 Other Fetal Adrenal ADRENAL
 0.9162 Blood & T-cel Primary T reg BLOOD
 0.7482 Blood & T-cel Primary T cell BLOOD
 0.7436 HSC & B-cell Primary mon BLOOD
 0.8894 Blood & T-cel Primary T CD8 BLOOD
 0.8541 Brain Fetal Brain M BRAIN
 0.9097 Mesench Adipose Deriv FAT
 0.7784 HSC & B-cell Primary hemæ BLOOD
 0.7492 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 Osteoblast Pr BONE
 0.9988 Sm. Muscle Stomach Smo GI_STOMACH
 0.8616 Neurosph Cortex derive BRAIN
 0.7579 Blood & T-cel Primary T hel BLOOD
 0.9162 Epithelial Foreskin Kera SKIN
 1.0000 Heart Right Atrium HEART
 0.9158 ENCODE2012 HMEC Mamr BREAST
 0.9170 Digestive Rectal Mucos GI_RECTUM
 0.9160 ENCODE2012 A549 EtOH 0. LUNG
 0.9441 Muscle Skeletal Musc MUSCLE
 0.8909 Sm. Muscle Colon Smoot GI_COLON

0.9270 Other Pancreas PANCREAS
 0.9557 ENCODE2012 HepG2 Hepat LIVER
 0.8559 ES-deriv H9 Derived N ESC_DERIVED
 0.7979 ESC H1 Cells ESC
 0.7652 Digestive Rectal Mucos GI_RECTUM
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 0.6062 ENCODE2012 GM12878 Lyr BLOOD
 0.8710 HSC & B-cell Primary Natu BLOOD
 1.0000 Mesench Adipose Deriv FAT
 0.6278 Heart Left Ventricle HEART
 0.9170 Other Placenta PLACENTA
 0.7333 ENCODE2012 HMEC Mamr BREAST
 0.9606 Blood & T-cel Primary monc BLOOD
 0.7638 Blood & T-cel Primary T CD8 BLOOD
 0.8733 ENCODE2012 A549 EtOH 0. LUNG
 0.7838 Brain Fetal Brain Fe BRAIN
 1.0000 Heart Left Ventricle HEART
 0.7612 Digestive Rectal Mucos GI_RECTUM
 1.0000 Epithelial Foreskin Melc SKIN
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 0.6728 ESC HUES64 Cells ESC
 0.7373 ENCODE2012 Dnd41 TCell L BLOOD
 0.7373 HSC & B-cell Primary hemc BLOOD
 0.8603 Brain Brain_Dorsolc BRAIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Pancreas PANCREAS
 0.9270 ENCODE2012 Dnd41 TCell L BLOOD
 0.9272 Blood & T-cel Primary T hel BLOOD
 0.9208 Brain Brain Germin BRAIN
 0.9162 Adipose Adipose Nuclc FAT
 1.0000 Muscle Psoas Muscle MUSCLE
 1.0000 Other Fetal Lung LUNG
 0.8347 Mesench Adipose Deriv FAT
 0.9670 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 IMR90 IMR90 fetal l LUNG
 1.0000 Epithelial Foreskin Fibr SKIN
 0.8044 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9184 Muscle Skeletal Musc MUSCLE
 0.7865 ES-deriv H1 Derived N ESC_DERIVED
 0.8299 Neurosph Cortex derive BRAIN
 0.8819 ES-deriv H1 Derived M ESC_DERIVED
 0.9105 Digestive Gastric GI_STOMACH

1.0000 Blood & T-cel Primary T hel BLOOD
 0.8850 Blood & T-cel Primary T hel BLOOD
 0.8990 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 0.9219 Blood & T-cel Primary T hel BLOOD
 0.6335 Brain Brain Cingula BRAIN
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 Epithelial Foreskin Kera SKIN
 0.7979 ENCODE2012 NHLF Lung Fit LUNG
 0.9458 ENCODE2012 HSMM Skelet MUSCLE
 0.9346 iPSC iPS-20b Cells IPSC
 0.7156 Blood & T-cel Primary T hel BLOOD
 0.7999 ENCODE2012 K562 Leukem BLOOD
 1.0000 Other Placenta PLACENTA
 0.6872 ESC ES-UCSF4 Cell ESC
 0.9831 Other Fetal Adrenal ADRENAL
 0.6973 Digestive Sigmoid Color GI_COLON
 0.9753 Digestive Fetal Stomach GI_STOMACH
 1.0000 ENCODE2012 NHLF Lung Fit LUNG
 0.7172 Other Ovary OVARY
 0.7551 iPSC iPS DF 19.11 IPSC
 1.0000 Other Spleen SPLEEN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.7709 Other Spleen SPLEEN
 0.6624 HSC & B-cell Primary B cell BLOOD
 0.9272 Other Fetal Lung LUNG
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.6508 Other Liver LIVER
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 Myosat Muscle Satell MUSCLE
 0.6149 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.8476 Heart Fetal Heart HEART
 0.9919 ENCODE2012 Osteoblast Pr BONE
 0.7831 Blood & T-cel Primary T cell BLOOD
 0.9184 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Brain Brain Anterio BRAIN
 0.7691 Sm. Muscle Colon Smooth GI_COLON
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 0.7506 ES-deriv H9 Derived N ESC_DERIVED
 0.6847 iPSC iPS-20b Cells IPSC

1.0000 Brain Brain Hippoc BRAIN
 0.7490 iPSC iPSC-18 Cells IPSC
 1.0000 IMR90 IMR90 fetal lu LUNG
 0.9482 Blood & T-cel Primary T cell BLOOD
 1.0000 Digestive Duodenum M GI_DUODENUM
 0.6179 Epithelial Foreskin Kera SKIN
 1.0000 Mesench Mesenchyma FAT
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.8954 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 0.9968 ENCODE2012 HUVEC Umbil VASCULAR
 0.9961 Blood & T-cel Primary T hel BLOOD
 0.7575 ENCODE2012 Monocytes-C BLOOD
 0.8826 Sm. Muscle Stomach Smo GI_STOMACH
 0.9438 Digestive Stomach Muc GI_STOMACH
 0.9270 iPSC iPSC-18 Cells IPSC
 0.9836 Blood & T-cel Primary T hel BLOOD
 0.8841 Digestive Fetal Intestin GI_INTESTINE
 0.8861 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Other Lung LUNG
 0.9280 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.9353 Other Pancreas PANCREAS
 0.8201 Blood & T-cel Primary T cell BLOOD
 0.7398 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Muscle Skeletal Musc MUSCLE
 0.8507 Sm. Muscle Stomach Smo GI_STOMACH
 0.7697 Blood & T-cel Primary T hel BLOOD
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 ENCODE2012 HMEC Mamr BREAST
 0.9966 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Epithelial Breast varian BREAST
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.7613 Blood & T-cel Primary T hel BLOOD
 0.9982 Blood & T-cel Primary T hel BLOOD
 0.6731 Myosat Muscle Satell MUSCLE
 0.9310 HSC & B-cell Primary Natu BLOOD
 1.0000 Blood & T-cel Primary T reg BLOOD
 0.8786 Epithelial Foreskin Kera SKIN
 1.0000 ENCODE2012 Monocytes-C BLOOD
 0.8176 Neurosph Ganglion Emi BRAIN
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 ES-deriv hESC Derived ESC_DERIVED

0.8587 Blood & T-cell Primary mon BLOOD
 0.8057 Epithelial Foreskin Fibro SKIN
 0.8446 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.7025 Epithelial Foreskin Fibro SKIN
 1.0000 Epithelial Breast Myoep BREAST
 1.0000 Adipose Adipose Nucl FAT
 0.9272 Other Lung LUNG
 0.9248 Brain Brain_Dorsol BRAIN
 0.9742 Adipose Adipose Nucl FAT
 0.6876 Epithelial Foreskin Fibro SKIN
 1.0000 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Heart Fetal Heart HEART
 0.7781 Blood & T-cell Primary T cell BLOOD
 1.0000 ESC ES-UCSF4 Cell ESC
 0.6964 ENCODE2012 NHLF Lung Fibro LUNG
 1.0000 Epithelial Breast Myoep BREAST
 0.8760 ES-deriv hESC Derived ESC_DERIVED
 0.9161 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 HSC & B-cell Primary mon BLOOD
 0.6807 iPSC iPS DF 19.11 (IPSC
 0.7613 Blood & T-cell Primary T CD8 BLOOD
 0.7847 Other Pancreas PANCREAS
 0.9966 ENCODE2012 NHDF-Ad Ad SKIN
 0.6263 Digestive Sigmoid Colon GI_COLON
 0.9274 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Blood & T-cell Primary T cell BLOOD
 0.7658 HSC & B-cell Primary hem BLOOD
 1.0000 Epithelial Foreskin Fibro SKIN
 0.9966 Heart Left Ventricle HEART
 1.0000 Muscle Fetal Muscle MUSCLE_LEG
 0.9966 Muscle Fetal Muscle MUSCLE_LEG
 0.7998 iPSC iPS-20b Cells IPSC
 0.6912 Other Fetal Kidney KIDNEY
 1.0000 HSC & B-cell Primary hem BLOOD
 0.6502 Blood & T-cell Primary T cell BLOOD
 0.8499 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.8308 iPSC iPS DF 6.9 Cell IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Heart Right Ventricle HEART
 0.9718 Brain Brain Inferior BRAIN

0.7024 ES-deriv hESC Derived ESC_DERIVED
 0.8796 Mesench Mesenchyma FAT
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 0.9941 Thymus Fetal Thymus THYMUS
 0.8979 ENCODE2012 NHEK-Epiderr SKIN
 0.9990 ENCODE2012 HMEC Mamr BREAST
 0.8201 ENCODE2012 HUVEC Umbil VASCULAR
 0.9738 Muscle Fetal Muscle MUSCLE
 0.9327 iPSC iPS DF 19.11 (IPSC
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 0.9463 Brain Brain Substar BRAIN
 0.9605 iPSC iPS DF 19.11 (IPSC
 0.8904 Blood & T-cel Primary T reg BLOOD
 1.0000 iPSC iPS-20b Cells IPSC
 0.7056 Blood & T-cel Primary T hel BLOOD
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.8541 ENCODE2012 HMEC Mamr BREAST
 0.8905 Digestive Duodenum V GI_DUODENUM
 0.8796 Brain Brain Substar BRAIN
 0.9591 Muscle Psoas Muscle MUSCLE
 0.8633 Epithelial Foreskin Mel SKIN
 0.8747 ENCODE2012 Dnd41 TCell L BLOOD
 0.9253 Epithelial Breast Myoe BREAST
 0.9356 ESC H1 Cells ESC
 1.0000 Other Liver LIVER
 1.0000 Brain Brain Cingula BRAIN
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Other Spleen SPLEEN
 0.9732 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9777 Epithelial Foreskin Mel SKIN
 0.9976 ENCODE2012 NHLF Lung Fil LUNG
 0.8288 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9004 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.9926 Brain Brain Substar BRAIN
 1.0000 Other Placenta Amr PLACENTA
 0.8248 Sm. Muscle Colon Smoot GI_COLON
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 iPSC iPS DF 19.11 (IPSC
 0.6783 Blood & T-cel Primary T cell BLOOD
 0.9982 Epithelial Foreskin Fibrc SKIN

0.7784 ES-deriv H1 Derived M ESC_DERIVED
 0.7995 iPSC iPS-15b Cells IPSC
 0.6907 Digestive Gastric GI_STOMACH
 1.0000 HSC & B-cell Primary hemꜰ BLOOD
 0.8905 ENCODE2012 NHDF-Ad Adꜰ SKIN
 0.9836 Digestive Fetal Stomacꜰ GI_STOMACH
 0.8747 ES-deriv hESC Derived ESC_DERIVED
 0.8677 Blood & T-cel Primary T cell BLOOD
 0.9990 ES-deriv H9 Derived N ESC_DERIVED
 0.6784 Other Fetal Lung LUNG
 0.8468 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 ESC HUES48 Cells ESC
 0.7231 Digestive Gastric GI_STOMACH
 1.0000 HSC & B-cell Primary hemꜰ BLOOD
 0.8918 Muscle Skeletal Musc MUSCLE
 0.9506 ESC HUES6 Cells ESC
 0.8221 Epithelial Foreskin Kera SKIN
 0.9961 Digestive Duodenum IV GI_DUODENUM
 0.7897 Blood & T-cel Primary T hel BLOOD
 0.8896 HSC & B-cell Primary hemꜰ BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 0.9248 Brain Brain Germin BRAIN
 0.8500 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Epithelial Foreskin Kera SKIN
 0.6370 HSC & B-cell Primary hemꜰ BLOOD
 1.0000 Digestive Fetal Intestinꜰ GI_INTESTINE
 0.8811 Blood & T-cel Primary T hel BLOOD
 0.9718 Other Fetal Lung LUNG
 0.9841 ENCODE2012 HepG2 Hepat LIVER
 1.0000 HSC & B-cell Primary hemꜰ BLOOD
 0.9826 IMR90 IMR90 fetal lꜰ LUNG
 0.9821 Digestive Fetal Stomacꜰ GI_STOMACH
 0.7359 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Thymus Fetal Thymus THYMUS
 0.8430 Other Placenta PLACENTA
 0.9985 ENCODE2012 HSMM Skelet MUSCLE
 0.8044 Epithelial Breast varianꜰ BREAST
 0.9543 iPSC iPS-18 Cells IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 0.8932 ENCODE2012 NHEK-Epiderr SKIN
 0.9543 Epithelial Foreskin Kera SKIN
 0.9004 ESC ES-13 Cells ESC

0.8242 Digestive Sigmoid Color GI_COLON
 1.0000 Digestive Gastric GI_STOMACH
 0.8687 Blood & T-cell Primary T cell BLOOD
 1.0000 Epithelial Foreskin Kera SKIN
 0.6407 Other Liver LIVER
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 IMR90 IMR90 fetal LUNG
 0.6422 ENCODE2012 Osteoblast Pr BONE
 0.7611 Brain Brain Germin BRAIN
 0.8541 ENCODE2012 NHDF-Ad Ad SKIN
 1.0000 ESC ES-13 Cells ESC
 0.8294 Other Fetal Adrenal ADRENAL
 0.8479 Blood & T-cell Primary T reg BLOOD
 0.8079 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Digestive Sigmoid Color GI_COLON
 0.9203 Blood & T-cell Primary T hel BLOOD
 1.0000 ESC H1 Cells ESC
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 HSC & B-cell Primary Natu BLOOD
 0.9753 Brain Brain Angular BRAIN
 1.0000 ENCODE2012 NHDF-Ad Ad SKIN
 0.8708 Blood & T-cell Primary T CD4 BLOOD
 0.8982 Digestive Duodenum V GI_DUODENUM
 1.0000 Other Fetal Lung LUNG
 1.0000 HSC & B-cell Primary mon BLOOD
 1.0000 Heart Right Ventricl HEART
 0.6892 Other Placenta Amr PLACENTA
 0.8319 ES-deriv hESC Derived ESC_DERIVED
 0.8394 HSC & B-cell Primary mon BLOOD
 0.8536 ESC HUES64 Cells ESC
 0.7617 Blood & T-cell Primary T hel BLOOD
 0.6723 Epithelial Foreskin Fibr SKIN
 0.9981 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Muscle Fetal Muscle MUSCLE
 0.7312 Digestive Fetal Intestin GI_INTESTINE
 0.9441 ESC HUES48 Cells ESC
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 0.9683 Blood & T-cell Primary T cell BLOOD
 1.0000 Heart Aorta VASCULAR
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Epithelial Foreskin Mel SKIN

0.6742 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ENCODE2012 Monocytes-C BLOOD
 0.9044 Thymus Fetal Thymus THYMUS
 1.0000 ESC HUES64 Cells ESC
 0.8977 ENCODE2012 NH-A Astrocy BRAIN
 0.9434 Brain Brain Anterio BRAIN
 0.7225 ENCODE2012 K562 Leukem BLOOD
 1.0000 HSC & B-cell Primary hemæ BLOOD
 0.7081 Epithelial Foreskin Kera SKIN
 1.0000 ESC H9 Cells ESC
 0.8319 Epithelial Foreskin Fibrc SKIN
 0.7428 Brain Brain Hippocæ BRAIN
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Other Placenta PLACENTA
 0.8877 ESC HUES48 Cells ESC
 0.9961 Epithelial Foreskin Melæ SKIN
 0.8831 ENCODE2012 NHEK-Epiderr SKIN
 0.9008 Other Fetal Lung LUNG
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.6508 Neurosph Cortex derive BRAIN
 0.9893 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.6954 Other Lung LUNG
 0.9162 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9172 Epithelial Breast Myoeæ BREAST
 0.9162 Brain Brain Cingulaæ BRAIN
 0.9203 Epithelial Foreskin Fibrc SKIN
 1.0000 Epithelial Breast Myoeæ BREAST
 0.8841 Thymus Thymus THYMUS
 0.6508 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 ESC HUES6 Cells ESC
 0.9880 HSC & B-cell Primary hemæ BLOOD
 0.9782 iPSC iPS-20b Cells IPSC
 1.0000 Muscle Fetal Muscle MUSCLE
 0.9253 Neurosph Ganglion Emi BRAIN
 1.0000 Epithelial Breast varianæ BREAST
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.8285 Digestive Rectal Mucos GI_RECTUM
 0.7518 ES-deriv hESC Derived ESC_DERIVED
 0.9169 Digestive Gastric GI_STOMACH
 0.9636 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.8841 ES-deriv hESC Derived ESC_DERIVED
 0.9203 IMR90 IMR90 fetal lt LUNG
 1.0000 ENCODE2012 GM12878 Lyr BLOOD

0.9911 HSC & B-cell Primary hemæ BLOOD
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 0.9521 Digestive Duodenum M GI_DUODENUM
 0.8479 ENCODE2012 GM12878 Lyr BLOOD
 0.8214 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Epithelial Foreskin Melc SKIN
 0.7032 ENCODE2012 HMEC Mamr BREAST
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9174 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.7038 Digestive Small Intestin GI_INTESTINE
 0.6847 Brain Brain Inferior BRAIN
 0.9420 Neurosph Ganglion Emi BRAIN
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 iPSC iPS DF 6.9 Cel IPSC
 0.9602 ES-deriv hESC Derived ESC_DERIVED
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 ESC H1 Cells ESC
 0.9356 Blood & T-cel Primary T cell BLOOD
 0.7051 Blood & T-cel Primary monc BLOOD
 0.6864 Other Fetal Kidney KIDNEY
 1.0000 Digestive Colonic Muco GI_COLON
 0.9114 ENCODE2012 GM12878 Lyr BLOOD
 0.9310 Digestive Fetal Intestin GI_INTESTINE
 0.6872 Blood & T-cel Primary T CDc BLOOD
 0.9270 Other Spleen SPLEEN
 0.7259 IMR90 IMR90 fetal lu LUNG
 1.0000 Sm. Muscle Colon Smootf GI_COLON
 1.0000 ESC HUES6 Cells ESC
 0.8496 Muscle Fetal Muscle MUSCLE
 1.0000 Epithelial Foreskin Fibr SKIN
 0.8214 HSC & B-cell Primary hemæ BLOOD
 0.8786 Blood & T-cel Primary T hel BLOOD
 0.9623 Mesench Mesenchyma FAT
 0.8808 Heart Right Ventricl HEART
 0.9420 Epithelial Foreskin Fibr SKIN
 0.9703 Mesench Adipose Deriv FAT
 0.7976 Epithelial Breast varian BREAST
 1.0000 Epithelial Breast varian BREAST
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 0.8796 ESC HUES6 Cells ESC
 1.0000 Digestive Rectal Mucos GI_RECTUM
 0.8603 Neurosph Ganglion Emi BRAIN

0.6651 Other Fetal Adrenal ADRENAL
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 0.9543 Epithelial Foreskin Fibro SKIN
 0.9543 Mesench Adipose Deriv FAT
 0.9105 Mesench Mesenchyma FAT
 0.9683 Heart Aorta VASCULAR
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Brain Brain Angular BRAIN
 0.9770 HSC & B-cell Primary B cell BLOOD
 0.6667 ESC HUES6 Cells ESC
 0.9831 ESC H9 Cells ESC
 0.9340 Digestive Fetal Stomach GI_STOMACH
 0.9789 iPSC iPS-18 Cells IPSC
 0.9113 HSC & B-cell Primary mono BLOOD
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Blood & T-cell Primary T CD8 BLOOD
 0.7187 HSC & B-cell Primary hemato BLOOD
 0.8988 Muscle Skeletal Musc MUSCLE
 0.9086 Neurosph Ganglion Emi BRAIN
 0.7637 ESC HUES6 Cells ESC
 0.9425 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ESC HUES64 Cells ESC
 0.7373 Digestive Rectal Mucos GI_RECTUM
 0.9041 Blood & T-cell Primary T hel BLOOD
 0.9870 ESC ES-13 Cells ESC
 0.8983 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Neurosph Ganglion Emi BRAIN
 0.9805 Brain Brain Angular BRAIN
 0.8263 Muscle Skeletal Musc MUSCLE
 0.9639 Heart Left Ventricle HEART
 0.9533 ESC ES-UCSF4 Cell ESC
 0.9976 Other Pancreatic Isl PANCREAS
 0.8041 HSC & B-cell Primary hemato BLOOD
 0.8041 Heart Aorta VASCULAR
 0.6991 Other Spleen SPLEEN
 0.9509 Digestive Fetal Intestine GI_INTESTINE
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 iPSC iPS-15b Cells IPSC
 0.8590 ES-deriv hESC Derived ESC_DERIVED
 0.9934 Heart Right Atrium HEART
 1.0000 Thymus Thymus THYMUS
 0.9740 ESC HUES48 Cells ESC
 0.7009 Muscle Skeletal Musc MUSCLE

0.7884 Blood & T-cel Primary T reg BLOOD
 0.7884 Digestive Gastric GI_STOMACH
 0.9356 ES-deriv H9 Derived N ESC_DERIVED
 0.9149 Blood & T-cel Primary T hel BLOOD
 0.9441 Brain Brain Angular BRAIN
 0.8957 iPSC iPS-18 Cells IPSC
 0.8789 Digestive Rectal Mucos GI_RECTUM
 0.9893 HSC & B-cell Primary hemæ BLOOD
 0.9574 ENCODE2012 Osteoblast Pr BONE
 0.7575 iPSC iPS DF 6.9 Cel IPSC
 0.7790 ENCODE2012 K562 Leukem BLOOD
 0.9425 Epithelial Foreskin Kera SKIN
 1.0000 Thymus Thymus THYMUS
 0.6783 ESC ES-UCSF4 Cel ESC
 0.9782 ENCODE2012 A549 EtOH 0. LUNG
 0.7038 HSC & B-cell Primary B cell BLOOD
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 0.9831 ENCODE2012 NHEK-Epider SKIN
 0.7448 Epithelial Foreskin Mel SKIN
 0.7961 Heart Right Atrium HEART
 0.9117 Digestive Colonic Muco GI_COLON
 1.0000 Myosat Muscle Satell MUSCLE
 0.9831 ENCODE2012 NHLF Lung Fil LUNG
 0.9371 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Other Pancreas PANCREAS
 0.8826 Blood & T-cel Primary T cell BLOOD
 0.9004 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.8653 ESC H1 Cells ESC
 1.0000 Brain Brain Substar BRAIN
 0.7490 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ESC ES-WA7 Cells ESC
 0.7655 Mesench Adipose Deriv FAT
 0.6807 Blood & T-cel Primary T hel BLOOD
 0.9629 Epithelial Breast varian BREAST
 0.8590 Muscle Skeletal Musc MUSCLE
 0.9524 Digestive Small Intestin GI_INTESTINE
 0.7690 Myosat Muscle Satell MUSCLE
 0.9961 ENCODE2012 GM12878 Lyr BLOOD
 0.9826 Digestive Colonic Muco GI_COLON
 0.9683 Mesench Adipose Deriv FAT
 0.6844 ENCODE2012 NHLF Lung Fil LUNG
 0.9551 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Digestive Fetal Intestin GI_INTESTINE

0.7829 Sm. Muscle Stomach Smo GI_STOMACH
 0.9180 HSC & B-cell Primary B cell BLOOD
 1.0000 Thymus Fetal Thymus THYMUS
 0.7968 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.7863 Mesench Mesenchyma FAT
 0.9201 Sm. Muscle Colon Smooth GI_COLON
 1.0000 Adipose Adipose Nucl FAT
 0.9826 Digestive Esophagus GI_ESOPHAGUS
 0.9851 Other Fetal Adrenal ADRENAL
 0.9633 Muscle Skeletal Musc MUSCLE
 0.8229 Blood & T-cell Primary T hel BLOOD
 0.7731 Myosat Muscle Satell MUSCLE
 0.9875 Muscle Fetal Muscle MUSCLE
 1.0000 ESC ES-WA7 Cells ESC
 0.9103 ESC HUES48 Cells ESC
 1.0000 Blood & T-cell Primary T cell BLOOD
 0.9937 Myosat Muscle Satell MUSCLE
 0.9990 Adipose Adipose Nucl FAT
 0.9442 Muscle Skeletal Musc MUSCLE
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Heart Fetal Heart HEART
 0.9988 Epithelial Breast varian BREAST
 0.7210 HSC & B-cell Primary mon BLOOD
 0.9463 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.7212 Heart Aorta VASCULAR
 1.0000 Heart Fetal Heart HEART
 1.0000 Epithelial Foreskin Fibr SKIN
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 0.8764 ESC HUES6 Cells ESC
 0.8603 ESC ES-UCSF4 Cel ESC
 0.7655 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.7655 Digestive Esophagus GI_ESOPHAGUS
 0.6909 ENCODE2012 HUVEC Umbil VASCULAR
 0.9884 Other Lung LUNG
 0.6912 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Mesench Adipose Deriv FAT
 0.9826 Myosat Muscle Satell MUSCLE
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 0.7824 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9789 Brain Brain Germin BRAIN
 0.9356 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 iPSC iPS DF 19.11 (IPSC
 0.9270 HSC & B-cell Primary mon BLOOD

0.9371	Heart	Aorta	VASCULAR
0.9522	ESC	H9 Cells	ESC
0.9549	Other	Fetal Adrenal	ADRENAL
0.9174	ESC	ES-I3 Cells	ESC
1.0000	Digestive	Rectal Mucos	GI_RECTUM
0.9836	Other	Fetal Kidney	KIDNEY
0.9670	Digestive	Stomach Muc	GI_STOMACH
1.0000	Mesench	Mesenchyma	FAT
1.0000	Sm. Muscle	Duodenum Sr	GI_DUODENUM
1.0000	ENCODE2012	A549 EtOH 0.	LUNG
1.0000	Mesench	Bone Marrow	STROMAL_CONNECTIVE
1.0000	Sm. Muscle	Rectal Smoot	GI_RECTUM
1.0000	Brain	Brain_Dorsol	BRAIN
0.9160	Epithelial	Foreskin Mel	SKIN
0.9105	Digestive	Fetal Intestin	GI_INTESTINE
0.9706	Blood & T-cel	Primary T hel	BLOOD
0.8587	Brain	Brain Angular	BRAIN
0.9084	Other	Placenta Amr	PLACENTA
0.9985	Other	Liver	LIVER
0.7738	Other	Placenta	PLACENTA
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
0.9397	Digestive	Stomach Muc	GI_STOMACH
1.0000	iPSC	iPS DF 6.9 Cel	IPSC
1.0000	Other	Fetal Kidney	KIDNEY
0.8230	Heart	Right Atrium	HEART
1.0000	Other	Fetal Adrenal	ADRENAL
1.0000	Brain	Brain Hippoc	BRAIN
0.8248	ESC	H9 Cells	ESC
0.9041	ENCODE2012	HSMM Skelet	MUSCLE
1.0000	Neurosph	Cortex derive	BRAIN
0.9426	Brain	Fetal Brain M	BRAIN
0.9979	Brain	Fetal Brain Fe	BRAIN
0.9506	Thymus	Fetal Thymus	THYMUS
0.9408	ENCODE2012	NHLF Lung Fil	LUNG
1.0000	ENCODE2012	HSMM Skelet	MUSCLE
0.9798	Other	Fetal Kidney	KIDNEY
0.7043	Blood & T-cel	Primary T hel	BLOOD
0.9997	ENCODE2012	K562 Leukem	BLOOD
1.0000	ENCODE2012	HeLa-S3 Cervi	CERVIX
0.9577	ENCODE2012	Monocytes-C	BLOOD
0.9162	iPSC	iPS-15b Cells	IPSC
0.9651	ES-deriv	H9 Derived N	ESC_DERIVED
0.9936	Epithelial	Foreskin Kera	SKIN

1.0000 Muscle Fetal Muscle MUSCLE_LEG
 0.9850 HSC & B-cell Primary neutri BLOOD
 0.7065 HSC & B-cell Primary B cell BLOOD
 0.9924 HSC & B-cell Primary hemæ BLOOD
 0.7658 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 0.8031 Brain Brain_Dorsolæ BRAIN
 0.7665 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 iPSC iPS-20b Cells IPSC
 0.7073 Heart Right Atrium HEART
 0.9694 iPSC iPS-20b Cells IPSC
 1.0000 ESC ES-UCSF4 Cel ESC
 0.7106 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9558 Mesench Mesenchyma FAT
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 iPSC iPS DF 19.11 (IPSC
 0.9521 Digestive Fetal Intestinæ GI_INTESTINE
 0.9648 iPSC iPS DF 19.11 (IPSC
 1.0000 Blood & T-cel Primary monæ BLOOD
 0.8882 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9441 Brain Brain Hippocæ BRAIN
 1.0000 Digestive Rectal Mucosæ GI_RECTUM
 0.9169 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Epithelial Foreskin Melæ SKIN
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 0.8146 Other Fetal Kidney KIDNEY
 0.7731 ENCODE2012 NHEK-Epiderr SKIN
 0.8905 HSC & B-cell Primary hemæ BLOOD
 1.0000 Sm. Muscle Stomach Smoæ GI_STOMACH
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 0.9826 Other Liver LIVER
 1.0000 ESC HUES6 Cells ESC
 0.9670 Blood & T-cel Primary T cell BLOOD
 0.7968 Digestive Fetal Intestinæ GI_INTESTINE
 0.7177 Epithelial Foreskin Fibræ SKIN
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9465 Digestive Duodenum Mæ GI_DUODENUM
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Heart Aorta VASCULAR
 0.8900 Thymus Thymus THYMUS
 0.8797 ESC ES-UCSF4 Cel ESC

1.0000	ES-deriv	hESC Derived ESC_DERIVED
0.8044	Digestive	Duodenum M GI_DUODENUM
0.9976	Muscle	Skeletal Musc MUSCLE
0.9952	Blood & T-cel	Primary T CD4 BLOOD
0.7837	IMR90	IMR90 fetal lu LUNG
1.0000	Brain	Fetal Brain Fe BRAIN
0.9893	iPSC	iPS-18 Cells IPSC
1.0000	Other	Placenta Amr PLACENTA
1.0000	Blood & T-cel	Primary T cell BLOOD
0.9556	HSC & B-cell	Primary B cell BLOOD
0.9425	Digestive	Fetal Intestin GI_INTESTINE
1.0000	Other	Ovary OVARY
0.8786	Digestive	Fetal Intestin GI_INTESTINE
1.0000	Neurosph	Ganglion Emi BRAIN
0.9565	ES-deriv	H9 Derived N ESC_DERIVED
0.8102	Myosat	Muscle Satell MUSCLE
1.0000	Digestive	Fetal Intestin GI_INTESTINE
1.0000	Other	Liver LIVER
1.0000	ENCODE2012	GM12878 Lyr BLOOD
0.8694	Epithelial	Foreskin Kera SKIN
1.0000	Muscle	Psoas Muscle MUSCLE
0.7337	Digestive	Small Intestin GI_INTESTINE
1.0000	Brain	Brain Hippocæ BRAIN
0.9397	iPSC	iPS DF 19.11 (IPSC
1.0000	HSC & B-cell	Primary hemæ BLOOD
0.7366	ENCODE2012	HMEC Mamr BREAST
0.7690	iPSC	iPS DF 6.9 Cel IPSC
0.9463	Thymus	Fetal Thymus THYMUS
0.8214	ESC	H1 Cells ESC
0.9966	ESC	ES-UCSF4 Cel ESC
1.0000	Blood & T-cel	Primary T cell BLOOD
0.9633	Other	Fetal Adrenal ADRENAL
0.7366	ES-deriv	H9 Derived N ESC_DERIVED
0.7709	Digestive	Stomach Muc GI_STOMACH
1.0000	ESC	ES-I3 Cells ESC
0.9937	Heart	Fetal Heart HEART
0.9105	ESC	HUES6 Cells ESC
0.9310	Epithelial	Foreskin Fibr SKIN
0.8471	Brain	Brain Angular BRAIN
0.9836	ENCODE2012	GM12878 Lyr BLOOD
0.9028	Blood & T-cel	Primary T hel BLOOD
0.7391	Blood & T-cel	Primary T hel BLOOD
0.8497	ES-deriv	hESC Derived ESC_DERIVED

1.0000 Digestive Rectal Mucos GI_RECTUM
 0.9961 Brain Brain Inferior BRAIN
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9272 ENCODE2012 Monocytes-C BLOOD
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 0.8041 Epithelial Breast varian BREAST
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9893 ENCODE2012 HepG2 Hepat LIVER
 0.9836 ESC HUES48 Cells ESC
 0.7414 Brain Brain Substar BRAIN
 0.7448 Epithelial Breast varian BREAST
 0.9450 Brain Brain Germin BRAIN
 0.9452 Neurosph Cortex derive BRAIN
 1.0000 Other Lung LUNG
 0.9591 Brain Brain Germin BRAIN
 1.0000 Sm. Muscle Colon Smoot GI_COLON
 0.7784 Epithelial Foreskin Fibr SKIN
 0.8988 iPSC iPS DF 19.11 (IPSC
 0.9533 Muscle Fetal Muscle MUSCLE
 1.0000 ESC ES-UCSF4 Cel ESC
 1.0000 iPSC iPS DF 6.9 Cel IPSC
 1.0000 Mesench Mesenchyma FAT
 0.9953 HSC & B-cell Primary Natu BLOOD
 1.0000 ESC HUES48 Cells ESC
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 0.7473 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Brain Brain Cingula BRAIN
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ENCODE2012 Monocytes-C BLOOD
 0.9664 Other Liver LIVER
 0.8826 ESC ES-13 Cells ESC
 0.8446 HSC & B-cell Primary mon BLOOD
 0.9988 ES-deriv H9 Derived N ESC_DERIVED
 0.9498 Digestive Sigmoid Color GI_COLON
 1.0000 Heart Aorta VASCULAR
 1.0000 Brain Brain Germin BRAIN
 1.0000 Epithelial Foreskin Kera SKIN
 0.9441 Muscle Fetal Muscle MUSCLE_LEG
 0.8986 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 ESC ES-UCSF4 Cel ESC
 1.0000 Brain Brain Inferior BRAIN

0.7573	Epithelial	Foreskin Fibro	SKIN
1.0000	ESC	H9 Cells	ESC
1.0000	Thymus	Thymus	THYMUS
0.8764	Blood & T-cell	Primary mono	BLOOD
0.8259	Digestive	Rectal Mucosa	GI_RECTUM
0.8266	Muscle	Psoas Muscle	MUSCLE
1.0000	Epithelial	Breast Myoepi	BREAST
1.0000	HSC & B-cell	Primary Natu	BLOOD
0.7968	ESC	HUES64 Cells	ESC
0.7596	Blood & T-cell	Primary T reg	BLOOD
0.9937	Other	Fetal Lung	LUNG
1.0000	iPSC	iPS-15b Cells	IPSC
0.9533	Sm. Muscle	Duodenum Sr	GI_DUODENUM
1.0000	Epithelial	Foreskin Kera	SKIN
0.8600	Epithelial	Foreskin Mel	SKIN
0.9961	IMR90	IMR90 fetal l	LUNG
1.0000	Digestive	Fetal Stomach	GI_STOMACH
0.9203	Epithelial	Breast Myoepi	BREAST
0.9619	ENCODE2012	HSMM cell de	MUSCLE
0.8615	Heart	Left Ventricle	HEART
0.8005	iPSC	iPS-15b Cells	IPSC
0.9105	iPSC	iPS-20b Cells	IPSC
1.0000	iPSC	iPS-18 Cells	IPSC
0.9706	Blood & T-cell	Primary T hel	BLOOD
1.0000	Sm. Muscle	Duodenum Sr	GI_DUODENUM
1.0000	Digestive	Colonic Mucosa	GI_COLON
1.0000	Mesench	Mesenchyma	FAT
1.0000	Other	Placenta Amr	PLACENTA
0.9803	ESC	HUES64 Cells	ESC
1.0000	Digestive	Duodenum IV	GI_DUODENUM
0.7673	Brain	Fetal Brain M	BRAIN
1.0000	iPSC	iPS-15b Cells	IPSC
0.9004	Sm. Muscle	Rectal Smooth	GI_RECTUM
1.0000	Digestive	Sigmoid Colon	GI_COLON
1.0000	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.9450	Epithelial	Breast varian	BREAST
1.0000	ENCODE2012	NHEK-Epiderr	SKIN
0.9270	Blood & T-cell	Primary T hel	BLOOD
0.8712	HSC & B-cell	Primary hem	BLOOD
1.0000	ENCODE2012	HMEC Mamr	BREAST
0.8917	iPSC	iPS-15b Cells	IPSC
1.0000	ENCODE2012	A549 EtOH O.	LUNG
0.9208	Neurosph	Cortex derive	BRAIN

0.9593 HSC & B-cell Primary monc BLOOD
 0.9870 Epithelial Foreskin Melc SKIN
 0.9770 Other Fetal Kidney KIDNEY
 1.0000 Epithelial Foreskin Fibr SKIN
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Blood & T-cel Primary T reg BLOOD
 0.9623 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.7754 Other Placenta Amr PLACENTA
 0.7756 Myosat Muscle Satell MUSCLE
 0.9351 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 ESC H1 Cells ESC
 0.8979 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 ESC H9 Cells ESC
 0.8802 HSC & B-cell Primary hemc BLOOD
 0.8809 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Heart Left Ventricle HEART
 0.9374 Digestive Fetal Stomach GI_STOMACH
 1.0000 Heart Right Ventricle HEART
 1.0000 Epithelial Foreskin Melc SKIN
 1.0000 HSC & B-cell Primary hemc BLOOD
 0.8590 Epithelial Foreskin Kera SKIN
 0.8600 ENCODE2012 A549 EtOH 0. LUNG
 0.8247 Blood & T-cel Primary T hel BLOOD
 1.0000 ESC ES-13 Cells ESC
 1.0000 Brain Fetal Brain Fe BRAIN
 0.9790 Other Placenta PLACENTA
 0.9044 HSC & B-cell Primary neut BLOOD
 1.0000 Heart Fetal Heart HEART
 0.8862 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 Brain Fetal Brain M BRAIN
 0.9966 Muscle Fetal Muscle MUSCLE
 0.7859 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Brain Fetal Brain M BRAIN
 0.9966 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Other Pancreas PANCREAS
 0.8904 Brain Fetal Brain Fe BRAIN
 0.9230 Blood & T-cel Primary T CD8 BLOOD
 0.8326 Blood & T-cel Primary T hel BLOOD
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 ESC HUES6 Cells ESC

1.0000 ESC H1 Cells ESC
 0.9517 HSC & B-cell Primary hemꜰ BLOOD
 1.0000 iPSC iPS DF 6.9 Cel IPSC
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.8738 ESC ES-WA7 Cells ESC
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.7951 Brain Fetal Brain M BRAIN
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.7966 Digestive Fetal Stomac GI_STOMACH
 1.0000 ESC HUES64 Cells ESC
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 0.8796 Digestive Duodenum M GI_DUODENUM
 1.0000 HSC & B-cell Primary hemꜰ BLOOD
 0.9036 Brain Brain Substar BRAIN
 0.9870 Digestive Rectal Mucos GI_RECTUM
 0.8819 ESC ES-UCSF4 Cel ESC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 0.8827 Blood & T-cel Primary monꜰ BLOOD
 0.8832 ENCODE2012 Monocytes-C BLOOD
 0.8040 Muscle Psoas Muscle MUSCLE
 0.8041 Blood & T-cel Primary T hel BLOOD
 0.8041 Thymus Fetal Thymus THYMUS
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.9099 Brain Brain Cingulaꜰ BRAIN
 1.0000 ESC H1 Cells ESC
 0.9782 HSC & B-cell Primary hemꜰ BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.9270 Digestive Colonic Muco GI_COLON
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.9278 ES-deriv hESC Derived ESC_DERIVED
 0.9300 HSC & B-cell Primary hemꜰ BLOOD
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Blood & T-cel Primary T cell BLOOD
 0.9966 ESC ES-I3 Cells ESC
 0.9174 Digestive Duodenum M GI_DUODENUM
 0.9773 Heart Left Ventricle HEART
 0.9976 Epithelial Foreskin Fibrꜰ SKIN
 0.9212 HSC & B-cell Primary B cell BLOOD
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.8739 ENCODE2012 HSMM Skelet MUSCLE

1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ESC HUES6 Cells ESC
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 Blood & T-cel Primary mon BLOOD
 1.0000 ENCODE2012 NHDF-Ad Ad SKIN
 0.9589 Digestive Fetal Intestin GI_INTESTINE
 0.9441 Muscle Skeletal Musc MUSCLE
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.8347 Digestive Small Intestin GI_INTESTINE
 0.8350 ENCODE2012 HSMM cell de MUSCLE
 1.0000 ESC HUES6 Cells ESC
 0.9789 ENCODE2012 K562 Leukem BLOOD
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 0.8841 ENCODE2012 Osteoblast Pr BONE
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 iPSC iPS-15b Cells IPSC
 0.8841 Thymus Fetal Thymus THYMUS
 0.8414 Epithelial Foreskin Mel SKIN
 0.8412 Blood & T-cel Primary T cell BLOOD
 1.0000 Brain Brain Substar BRAIN
 0.9558 Digestive Rectal Mucos GI_RECTUM
 1.0000 Thymus Fetal Thymus THYMUS
 0.9201 Thymus Thymus THYMUS
 0.9212 Digestive Colonic Muco GI_COLON
 0.8531 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.9227 ESC HUES6 Cells ESC
 0.9611 Other Lung LUNG
 0.9893 Other Pancreatic Isl PANCREAS
 1.0000 Adipose Adipose Nucl FAT
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Thymus Fetal Thymus THYMUS
 0.9267 Blood & T-cel Primary T hel BLOOD
 0.8590 ENCODE2012 HepG2 Hepat LIVER
 0.9270 Brain Fetal Brain Fe BRAIN
 0.9270 Digestive Colonic Muco GI_COLON
 0.9009 ENCODE2012 HMEC Mamr BREAST
 0.9272 ENCODE2012 NHEK-Epiderr SKIN
 0.9272 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 HSC & B-cell Primary hem BLOOD
 1.0000 Brain Fetal Brain M BRAIN

1.0000 Epithelial Foreskin Mel; SKIN
 0.8633 HSC & B-cell Primary Natu BLOOD
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 HSC & B-cell Primary Natu BLOOD
 0.8656 Other Fetal Adrenal ADRENAL
 0.8687 Neurosph Cortex derive BRAIN
 0.8721 ENCODE2012 HUVEC Umbil VASCULAR
 0.9976 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 Brain Brain_Dorsol; BRAIN
 1.0000 ESC ES-I3 Cells ESC
 0.8778 ENCODE2012 K562 Leukem BLOOD
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 0.9668 IMR90 IMR90 fetal l; LUNG
 1.0000 Heart Right Ventricl HEART
 0.8826 ENCODE2012 HepG2 Hepat LIVER
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.8859 Blood & T-cel Primary T cell BLOOD
 1.0000 Other Pancreas PANCREAS
 0.8877 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ESC HUES48 Cells ESC
 0.9266 Epithelial Foreskin Mel; SKIN
 1.0000 Adipose Adipose Nucl; FAT
 0.8905 Digestive Rectal Mucos GI_RECTUM
 0.9272 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 0.9278 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Digestive Stomach Muc GI_STOMACH
 0.9310 ENCODE2012 NHLF Lung Fil LUNG
 0.8979 Adipose Adipose Nucl; FAT
 0.9387 Digestive Fetal Intestin; GI_INTESTINE
 1.0000 ESC H1 Cells ESC
 1.0000 Neurosph Ganglion Emi BRAIN
 0.9413 Epithelial Foreskin Kera SKIN
 0.9687 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Thymus Thymus THYMUS
 0.9893 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 0.9441 Blood & T-cel Primary monc BLOOD

1.0000 HSC & B-cell Primary hemæ BLOOD
 0.9458 Heart Left Ventricle HEART
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.9129 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.9801 Brain Brain Hippocæ BRAIN
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.9556 ENCODE2012 Osteoblast Pr BONE
 1.0000 Other Pancreas PANCREAS
 1.0000 ESC ES-UCSF4 Cel ESC
 0.9230 HSC & B-cell Primary Natu BLOOD
 1.0000 ESC H1 Cells ESC
 0.9856 Blood & T-cel Primary T reg BLOOD
 0.9602 ENCODE2012 K562 Leukem BLOOD
 1.0000 Brain Brain Anterio BRAIN
 0.9874 iPSC iPS-18 Cells IPSC
 1.0000 Adipose Adipose Nucl FAT
 0.9880 Epithelial Breast Myoeç BREAST
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.9937 Muscle Psoas Muscle MUSCLE
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.9340 Mesench Mesenchyma FAT
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.9351 Epithelial Foreskin Kera SKIN
 1.0000 Brain Fetal Brain Fe BRAIN
 0.9381 Mesench Mesenchyma FAT
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.9805 Neurosph Ganglion Emi BRAIN
 0.9987 Epithelial Foreskin Fibrc SKIN
 0.9987 Other Ovary OVARY
 0.9434 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Epithelial Foreskin Kera SKIN
 0.9805 ESC ES-I3 Cells ESC
 0.9990 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 ENCODE2012 HepG2 Hepat LIVER

0.9506 Digestive Rectal Mucos GI_RECTUM
 0.9524 Digestive Stomach Muc GI_STOMACH
 0.9529 Mesench Adipose Deriv FAT
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 0.9546 Epithelial Foreskin Mel SKIN
 1.0000 Blood & T-cell Primary T CD8 BLOOD
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 Brain Brain Angular BRAIN
 0.9620 Digestive Sigmoid Color GI_COLON
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Brain Brain Germin BRAIN
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Thymus Thymus THYMUS
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Sm. Muscle Rectal Smooth GI_RECTUM
 1.0000 ENCODE2012 NHDF-Ad Ad SKIN
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 iPSC iPS-18 Cells IPSC
 0.9826 Thymus Thymus THYMUS
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 ESC ES-UCSF4 Cell ESC
 0.9874 Blood & T-cell Primary T hel BLOOD
 0.9880 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Digestive Duodenum M GI_DUODENUM
 1.0000 HSC & B-cell Primary hem BLOOD
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ESC HUES64 Cells ESC
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 0.9937 Blood & T-cell Primary T cell BLOOD
 1.0000 ESC HUES64 Cells ESC
 0.9952 Other Pancreas PANCREAS
 1.0000 Neurosph Ganglion Emi BRAIN
 0.9954 Digestive Esophagus GI_ESOPHAGUS

1.0000 ESC HUES64 Cells ESC
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Muscle Skeletal Musc MUSCLE
 0.9988 Heart Aorta VASCULAR
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Heart Right Ventricl HEART
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Brain Fetal Brain Fe BRAIN
 1.0000 iPSC iPS DF 6.9 Cel IPSC
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Brain Brain Angular BRAIN
 1.0000 Brain Brain Inferior BRAIN
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Brain Brain_Dorsol: BRAIN
 1.0000 Heart Fetal Heart HEART
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 ESC HUES48 Cells ESC
 1.0000 Neurosph Ganglion Emi BRAIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Brain Brain Germin BRAIN
 1.0000 Brain Brain Cingula: BRAIN
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Digestive Duodenum IV GI_DUODENUM
 1.0000 ESC H9 Cells ESC
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ES-deriv H9 Derived N ESC_DERIVED

GWAS p-value	Roadmap EID	Roadmap Type	Marker Count	Enrichment Score	Proportion	p-value
1.00E-05	E082	H3K4me1_En	21	2.4863	0.2211	0.0000
1.00E-05	E088	H3K4me3_Pr	9	2.3770	0.0947	0.0047
1.00E-05	E113	H3K4me1_En	27	2.1450	0.2842	0.0000
1.00E-05	E002	H3K4me1_En	15	2.1009	0.1579	0.0019
1.00E-05	E045	H3K4me1_En	15	2.0685	0.1579	0.0022
1.00E-05	E081	H3K4me1_En	20	2.0532	0.2105	0.0005
1.00E-05	E073	H3K4me3_Pr	9	2.0526	0.0947	0.0124
1.00E-05	E070	H3K4me1_En	12	2.0461	0.1263	0.0056
1.00E-04	E104	H3K27ac_Enr	104	2.0431	0.0997	0.0000
1.00E-04	E113	H3K27ac_Enr	140	2.0231	0.1342	0.0000
1.00E-05	E048	H3K4me1_En	17	2.0154	0.1789	0.0016
1.00E-05	E079	H3K4me1_En	19	2.0028	0.2000	0.0010
1.00E-05	E008	H3K9ac_Pro	9	1.9629	0.0947	0.0165
1.00E-05	E094	H3K4me1_En	18	1.9514	0.1895	0.0018
1.00E-05	E043	H3K27ac_Enr	9	1.9118	0.0947	0.0194
1.00E-05	E044	H3K4me1_En	15	1.9092	0.1579	0.0048
1.00E-05	E008	H3K27ac_Enr	11	1.8970	0.1158	0.0130
1.00E-05	E104	H3K4me1_En	17	1.8798	0.1789	0.0035
1.00E-05	E103	H3K4me1_En	13	1.8631	0.1368	0.0095
1.00E-05	E039	H3K4me1_En	17	1.8398	0.1789	0.0044
1.00E-05	E082	H3K4me3_Pr	4	1.8337	0.0421	0.0682
1.00E-05	E038	H3K4me1_En	15	1.8277	0.1579	0.0073
1.00E-04	E066	H3K27ac_Enr	142	1.8248	0.1361	0.0000
1.00E-05	E007	H3K9ac_Pro	18	1.8065	0.1895	0.0043
1.00E-05	E042	H3K4me1_En	15	1.7961	0.1579	0.0086
1.00E-04	E096	H3K27ac_Enr	140	1.7809	0.1342	0.0000
1.00E-05	E034	H3K4me1_En	16	1.7611	0.1684	0.0084
1.00E-05	E041	H3K4me1_En	18	1.7561	0.1895	0.0058
1.00E-05	E040	H3K4me1_En	15	1.7496	0.1579	0.0108
1.00E-05	E112	H3K4me1_En	9	1.7359	0.0947	0.0346
1.00E-05	E105	H3K4me1_En	22	1.7224	0.2316	0.0033
1.00E-05	E059	H3K27ac_Enr	9	1.7216	0.0947	0.0363
1.00E-05	E111	H3K4me3_Pr	8	1.7108	0.0842	0.0446
1.00E-05	E037	H3K4me1_En	15	1.6954	0.1579	0.0143
1.00E-05	E047	H3K4me1_En	15	1.6631	0.1579	0.0169
1.00E-05	E056	H3K27ac_Enr	20	1.6541	0.2105	0.0077
1.00E-05	E122	H3K4me1_En	10	1.6312	0.1053	0.0425
1.00E-05	E111	H3K9ac_Pro	7	1.6282	0.0737	0.0664
1.00E-05	E076	H3K27ac_Enr	13	1.6163	0.1368	0.0291
1.00E-05	E043	H3K4me1_En	15	1.6071	0.1579	0.0226
1.00E-04	E059	H3K4me1_En	111	1.5942	0.1064	0.0000
1.00E-04	E095	H3K27ac_Enr	102	1.5900	0.0978	0.0000

1.00E-04	E059	H3K27ac_Enr	91	1.5855	0.0872	0.0000
1.00E-04	E055	H3K4me3_Pr	86	1.5772	0.0825	0.0000
1.00E-05	E027	H3K9ac_Pro	15	1.5759	0.1579	0.0266
1.00E-05	E016	H3K9ac_Pro	7	1.5718	0.0737	0.0779
1.00E-05	E093	H3K4me1_En	16	1.5703	0.1684	0.0239
1.00E-05	E006	H3K4me3_Pr	7	1.5658	0.0737	0.0792
1.00E-05	E093	H3K27ac_Enr	8	1.5645	0.0842	0.0702
1.00E-05	E089	H3K4me1_En	19	1.5608	0.2000	0.0166
1.00E-04	E097	H3K27ac_Enr	80	1.5528	0.0767	0.0001
1.00E-04	E065	H3K27ac_Enr	68	1.5508	0.0652	0.0002
1.00E-05	E075	H3K9ac_Pro	8	1.5491	0.0842	0.0737
1.00E-04	E104	H3K4me1_En	152	1.5309	0.1457	0.0000
1.00E-05	E055	H3K27ac_Enr	18	1.5291	0.1895	0.0232
1.00E-04	E100	H3K27ac_Enr	79	1.5229	0.0757	0.0001
1.00E-05	E092	H3K27ac_Enr	9	1.5171	0.0947	0.0728
1.00E-04	E086	H3K4me1_En	76	1.5154	0.0729	0.0002
1.00E-04	E005	H3K4me3_Pr	64	1.4989	0.0614	0.0007
1.00E-04	E056	H3K4me3_Pr	113	1.4982	0.1083	0.0000
1.00E-05	E118	H3K4me3_Pr	4	1.4978	0.0421	0.1299
1.00E-05	E083	H3K9ac_Pro	12	1.4950	0.1263	0.0566
1.00E-04	E105	H3K4me1_En	208	1.4833	0.1994	0.0000
1.00E-05	E115	H3K27ac_Enr	8	1.4766	0.0842	0.0926
1.00E-04	E029	H3K27ac_Enr	52	1.4734	0.0499	0.0027
1.00E-04	E113	H3K4me3_Pr	175	1.4636	0.1678	0.0000
1.00E-05	E075	H3K4me1_En	14	1.4627	0.1474	0.0531
1.00E-05	E100	H3K4me1_En	11	1.4621	0.1158	0.0722
1.00E-05	E063	H3K27ac_Enr	12	1.4607	0.1263	0.0657
1.00E-05	E125	H3K4me3_Pr	5	1.4601	0.0526	0.1288
1.00E-04	E073	H3K4me3_Pr	70	1.4541	0.0671	0.0009
1.00E-04	E105	H3K27ac_Enr	133	1.4526	0.1275	0.0000
1.00E-04	E080	H3K4me1_En	160	1.4486	0.1534	0.0000
1.00E-05	E092	H3K4me1_En	18	1.4471	0.1895	0.0382
1.00E-04	E087	H3K27ac_Enr	49	1.4380	0.0470	0.0054
1.00E-04	E080	H3K27ac_Enr	121	1.4350	0.1160	0.0000
1.00E-05	E055	H3K4me1_En	21	1.4347	0.2211	0.0303
1.00E-04	E100	H3K4me1_En	118	1.4286	0.1131	0.0000
1.00E-04	E108	H3K27ac_Enr	114	1.4257	0.1093	0.0001
1.00E-04	E066	H3K9ac_Pro	93	1.4236	0.0892	0.0003
1.00E-05	E027	H3K4me3_Pr	4	1.4084	0.0421	0.1558
1.00E-04	E109	H3K27ac_Enr	102	1.4050	0.0978	0.0003
1.00E-04	E073	H3K27ac_Enr	178	1.4040	0.1707	0.0000
1.00E-04	E113	H3K4me1_En	194	1.4038	0.1860	0.0000
1.00E-04	E034	H3K4me1_En	140	1.4036	0.1342	0.0000

1.00E-05	E083	H3K4me1_En	15	1.3968	0.1579	0.0671
1.00E-04	E098	H3K27ac_Enf	62	1.3894	0.0594	0.0046
1.00E-05	E063	H3K4me1_En	17	1.3849	0.1789	0.0604
1.00E-04	E072	H3K4me1_En	116	1.3770	0.1112	0.0002
1.00E-04	E096	H3K4me1_En	167	1.3762	0.1601	0.0000
1.00E-05	E053	H3K4me1_En	12	1.3741	0.1263	0.0952
1.00E-05	E125	H3K4me1_En	14	1.3717	0.1474	0.0825
1.00E-04	E030	H3K4me1_En	93	1.3650	0.0892	0.0012
1.00E-05	E076	H3K4me3_Pr	7	1.3636	0.0737	0.1419
1.00E-04	E047	H3K4me1_En	135	1.3633	0.1294	0.0001
1.00E-05	E111	H3K4me1_En	14	1.3513	0.1474	0.0911
1.00E-05	E101	H3K4me1_En	13	1.3457	0.1368	0.1003
1.00E-05	E047	H3K9ac_Pro	7	1.3448	0.0737	0.1499
1.00E-05	E118	H3K9ac_Pro	4	1.3437	0.0421	0.1781
1.00E-04	E065	H3K4me1_En	96	1.3436	0.0920	0.0016
1.00E-05	E088	H3K9ac_Pro	8	1.3403	0.0842	0.1428
1.00E-04	E075	H3K27ac_Enf	102	1.3395	0.0978	0.0013
1.00E-04	E038	H3K4me1_En	120	1.3318	0.1151	0.0007
1.00E-04	E039	H3K4me1_En	135	1.3307	0.1294	0.0003
1.00E-04	E096	H3K4me3_Pr	53	1.3253	0.0508	0.0179
1.00E-04	E062	H3K9ac_Pro	116	1.3241	0.1112	0.0010
1.00E-05	E068	H3K4me1_En	17	1.3203	0.1789	0.0870
1.00E-05	E102	H3K4me1_En	13	1.3199	0.1368	0.1127
1.00E-04	E067	H3K9ac_Pro	104	1.3179	0.0997	0.0020
1.00E-04	E124	H3K4me1_En	121	1.3178	0.1160	0.0009
1.00E-04	E043	H3K4me1_En	135	1.3175	0.1294	0.0005
1.00E-04	E073	H3K4me1_En	170	1.3171	0.1630	0.0001
1.00E-04	E011	H3K9ac_Pro	48	1.3156	0.0460	0.0253
1.00E-04	E111	H3K9ac_Pro	62	1.3135	0.0594	0.0140
1.00E-05	E011	H3K27ac_Enf	12	1.3103	0.1263	0.1249
1.00E-04	E091	H3K27ac_Enf	87	1.3093	0.0834	0.0051
1.00E-05	E043	H3K4me3_Pr	4	1.3081	0.0421	0.1919
1.00E-05	E077	H3K4me1_En	15	1.3071	0.1579	0.1059
1.00E-04	E006	H3K4me3_Pr	64	1.3039	0.0614	0.0148
1.00E-05	E075	H3K27ac_Enf	9	1.2976	0.0947	0.1551
1.00E-04	E097	H3K4me1_En	122	1.2974	0.1170	0.0015
1.00E-05	E067	H3K4me1_En	15	1.2959	0.1579	0.1120
1.00E-04	E108	H3K4me1_En	177	1.2933	0.1697	0.0002
1.00E-04	E069	H3K9ac_Pro	74	1.2931	0.0709	0.0116
1.00E-05	E080	H3K4me1_En	13	1.2922	0.1368	0.1276
1.00E-04	E083	H3K4me1_En	152	1.2892	0.1457	0.0005
1.00E-05	E102	H3K4me3_Pr	5	1.2880	0.0526	0.1931
1.00E-04	E069	H3K4me1_En	165	1.2873	0.1582	0.0003

1.00E-04	E059	H3K4me3_Pr	48	1.2873	0.0460	0.0348
1.00E-04	E079	H3K4me1_En	134	1.2866	0.1285	0.0012
1.00E-04	E073	H3K9ac_Pro	67	1.2850	0.0642	0.0173
1.00E-04	E091	H3K4me1_En	128	1.2842	0.1227	0.0017
1.00E-04	E045	H3K4me1_En	102	1.2812	0.0978	0.0049
1.00E-04	E041	H3K4me1_En	144	1.2796	0.1381	0.0010
1.00E-05	E077	H3K4me3_Pr	6	1.2777	0.0632	0.1903
1.00E-04	E069	H3K4me3_Pr	60	1.2773	0.0575	0.0251
1.00E-04	E067	H3K4me3_Pr	55	1.2740	0.0527	0.0314
1.00E-04	E083	H3K9ac_Pro	112	1.2710	0.1074	0.0043
1.00E-05	E128	H3K4me1_En	8	1.2693	0.0842	0.1788
1.00E-05	E113	H3K27ac_Enf	8	1.2692	0.0842	0.1789
1.00E-04	E125	H3K4me1_En	142	1.2672	0.1361	0.0016
1.00E-04	E094	H3K4me1_En	128	1.2639	0.1227	0.0029
0.01	E016	H3K4me3_Pr	4103	1.2635	0.0432	0.0000
1.00E-04	E115	H3K27ac_Enf	75	1.2609	0.0719	0.0189
1.00E-04	E071	H3K4me3_Pr	69	1.2568	0.0662	0.0246
1.00E-04	E106	H3K27ac_Enf	89	1.2537	0.0853	0.0136
1.00E-04	E127	H3K4me3_Pr	50	1.2484	0.0479	0.0501
1.00E-04	E115	H3K4me1_En	81	1.2475	0.0777	0.0194
1.00E-05	E068	H3K4me3_Pr	6	1.2473	0.0632	0.2062
1.00E-04	E083	H3K4me3_Pr	88	1.2452	0.0844	0.0164
1.00E-04	E092	H3K4me1_En	170	1.2448	0.1630	0.0012
1.00E-04	E049	H3K4me3_Pr	50	1.2440	0.0479	0.0526
1.00E-04	E115	H3K4me3_Pr	32	1.2406	0.0307	0.0941
1.00E-04	E095	H3K4me1_En	128	1.2404	0.1227	0.0054
1.00E-04	E063	H3K4me1_En	167	1.2392	0.1601	0.0017
1.00E-05	E027	H3K4me1_En	17	1.2374	0.1789	0.1373
1.00E-04	E072	H3K27ac_Enf	160	1.2347	0.1534	0.0024
1.00E-04	E089	H3K4me1_En	165	1.2346	0.1582	0.0020
1.00E-04	E122	H3K4me1_En	83	1.2331	0.0796	0.0234
1.00E-05	E054	H3K4me3_Pr	3	1.2315	0.0316	0.2273
1.00E-04	E050	H3K4me1_En	133	1.2307	0.1275	0.0060
1.00E-04	E072	H3K9ac_Pro	109	1.2299	0.1045	0.0120
0.01	E014	H3K4me3_Pr	5281	1.2275	0.0556	0.0000
1.00E-04	E051	H3K4me1_En	108	1.2272	0.1035	0.0130
1.00E-04	E022	H3K4me1_En	133	1.2243	0.1275	0.0070
1.00E-04	E056	H3K27ac_Enf	162	1.2204	0.1553	0.0035
1.00E-05	E028	H3K4me3_Pr	3	1.2185	0.0316	0.2328
1.00E-04	E075	H3K4me1_En	128	1.2181	0.1227	0.0094
1.00E-04	E124	H3K27ac_Enf	130	1.2149	0.1246	0.0097
1.00E-04	E111	H3K4me1_En	138	1.2132	0.1323	0.0082
1.00E-04	E002	H3K4me1_En	95	1.2119	0.0911	0.0248

1.00E-05	E126	H3K4me1_En	8	1.2110	0.0842	0.2149
1.00E-04	E048	H3K4me1_En	112	1.2094	0.1074	0.0172
1.00E-04	E129	H3K4me1_En	131	1.2087	0.1256	0.0110
1.00E-05	E055	H3K4me3_Pr	6	1.2081	0.0632	0.2288
1.00E-05	E105	H3K4me3_Pr	3	1.2068	0.0316	0.2379
1.00E-04	E044	H3K27ac_Enf	67	1.2065	0.0642	0.0527
1.00E-04	E120	H3K4me3_Pr	27	1.2039	0.0259	0.1403
1.00E-05	E103	H3K27ac_Enf	7	1.2036	0.0737	0.2260
1.00E-04	E120	H3K9ac_Pro	30	1.1989	0.0288	0.1349
1.00E-04	E089	H3K27ac_Enf	75	1.1980	0.0719	0.0495
1.00E-04	E107	H3K4me3_Pr	45	1.1955	0.0431	0.0987
1.00E-05	E109	H3K4me1_En	12	1.1922	0.1263	0.2040
1.00E-05	E118	H3K27ac_Enf	4	1.1922	0.0421	0.2453
1.00E-04	E055	H3K27ac_Enf	154	1.1916	0.1477	0.0101
1.00E-04	E038	H3K27ac_Enf	46	1.1905	0.0441	0.1012
1.00E-04	E108	H3K4me3_Pr	56	1.1905	0.0537	0.0820
1.00E-04	E052	H3K4me1_En	126	1.1871	0.1208	0.0205
1.00E-04	E063	H3K27ac_Enf	107	1.1863	0.1026	0.0308
1.00E-05	E115	H3K4me1_En	7	1.1836	0.0737	0.2394
1.00E-04	E092	H3K27ac_Enf	77	1.1822	0.0738	0.0597
1.00E-05	E084	H3K4me1_En	12	1.1816	0.1263	0.2129
1.00E-04	E029	H3K4me1_En	87	1.1814	0.0834	0.0498
1.00E-04	E066	H3K4me1_En	129	1.1812	0.1237	0.0221
1.00E-04	E067	H3K4me1_En	150	1.1804	0.1438	0.0148
1.00E-04	E027	H3K4me1_En	178	1.1801	0.1707	0.0085
1.00E-05	E059	H3K4me3_Pr	4	1.1777	0.0421	0.2531
1.00E-04	E067	H3K27ac_Enf	134	1.1768	0.1285	0.0222
0.01	E063	H3K4me3_Pr	5272	1.1766	0.0555	0.0000
1.00E-04	E107	H3K9ac_Pro	100	1.1750	0.0959	0.0435
0.01	E020	H3K4me3_Pr	5730	1.1743	0.0603	0.0000
1.00E-05	E102	H3K9ac_Pro	6	1.1741	0.0632	0.2504
1.00E-04	E046	H3K4me1_En	99	1.1738	0.0949	0.0452
0.01	E019	H3K4me3_Pr	4552	1.1731	0.0479	0.0000
1.00E-05	E007	H3K4me1_En	10	1.1720	0.1053	0.2323
1.00E-04	E049	H3K9ac_Pro	78	1.1683	0.0748	0.0715
1.00E-04	E005	H3K4me1_En	130	1.1635	0.1246	0.0323
1.00E-05	E008	H3K4me3_Pr	3	1.1605	0.0316	0.2595
1.00E-04	E049	H3K27ac_Enf	88	1.1598	0.0844	0.0687
1.00E-04	E018	H3K9ac_Pro	86	1.1555	0.0825	0.0757
1.00E-04	E035	H3K4me1_En	62	1.1550	0.0594	0.1100
1.00E-04	E082	H3K4me1_En	107	1.1539	0.1026	0.0565
1.00E-04	E037	H3K4me1_En	112	1.1530	0.1074	0.0532
1.00E-05	E069	H3K9ac_Pro	6	1.1511	0.0632	0.2660

1.00E-04	E077	H3K4me1_En	145	1.1509	0.1390	0.0339
1.00E-04	E044	H3K4me1_En	99	1.1477	0.0949	0.0706
1.00E-04	E061	H3K4me1_En	158	1.1472	0.1515	0.0306
0.001	E029	H3K27ac_Enf	361	1.1451	0.0387	0.0047
1.00E-04	E055	H3K4me1_En	184	1.1450	0.1764	0.0221
1.00E-04	E006	H3K4me1_En	130	1.1438	0.1246	0.0492
1.00E-04	E121	H3K27ac_Enf	70	1.1421	0.0671	0.1141
1.00E-04	E107	H3K4me1_En	112	1.1417	0.1074	0.0655
1.00E-04	E017	H3K4me1_En	128	1.1409	0.1227	0.0537
0.01	E078	H3K4me3_Pri	5891	1.1389	0.0620	0.0000
1.00E-04	E090	H3K27ac_Enf	73	1.1387	0.0700	0.1144
1.00E-05	E052	H3K4me1_En	11	1.1378	0.1158	0.2580
1.00E-04	E052	H3K4me3_Pri	43	1.1375	0.0412	0.1717
0.01	E066	H3K4me3_Pri	5364	1.1372	0.0565	0.0000
1.00E-05	E038	H3K27ac_Enf	4	1.1366	0.0421	0.2764
1.00E-05	E063	H3K9ac_Pro	9	1.1363	0.0947	0.2676
1.00E-04	E124	H3K9ac_Pro	79	1.1337	0.0757	0.1132
1.00E-04	E023	H3K9ac_Pro	89	1.1318	0.0853	0.1030
1.00E-05	E019	H3K9ac_Pro	5	1.1302	0.0526	0.2818
0.001	E066	H3K27ac_Enf	785	1.1293	0.0843	0.0002
1.00E-04	E056	H3K4me1_En	194	1.1283	0.1860	0.0314
0.001	E030	H3K4me3_Pri	293	1.1253	0.0314	0.0201
0.01	E012	H3K4me3_Pri	2690	1.1253	0.0283	0.0000
0.001	E032	H3K4me3_Pri	184	1.1250	0.0197	0.0513
1.00E-05	E084	H3K27ac_Enf	6	1.1247	0.0632	0.2852
1.00E-04	E007	H3K9ac_Pro	123	1.1244	0.1179	0.0789
1.00E-05	E120	H3K27ac_Enf	4	1.1237	0.0421	0.2842
1.00E-05	E108	H3K4me1_En	14	1.1231	0.1474	0.2606
1.00E-05	E121	H3K4me1_En	12	1.1217	0.1263	0.2701
1.00E-05	E076	H3K4me1_En	11	1.1208	0.1158	0.2748
1.00E-05	E012	H3K4me1_En	15	1.1167	0.1579	0.2641
1.00E-04	E121	H3K9ac_Pro	62	1.1167	0.0594	0.1674
1.00E-04	E062	H3K27ac_Enf	30	1.1166	0.0288	0.2340
1.00E-05	E061	H3K4me1_En	14	1.1160	0.1474	0.2688
0.01	E071	H3K4me3_Pri	5579	1.1157	0.0587	0.0000
1.00E-04	E078	H3K4me1_En	132	1.1156	0.1266	0.0848
1.00E-04	E040	H3K4me1_En	105	1.1155	0.1007	0.1108
1.00E-05	E120	H3K4me1_En	8	1.1155	0.0842	0.2891
1.00E-04	E032	H3K27ac_Enf	43	1.1149	0.0412	0.2066
0.01	E102	H3K4me3_Pri	4324	1.1139	0.0455	0.0000
0.001	E071	H3K4me3_Pri	546	1.1133	0.0586	0.0052
1.00E-04	E081	H3K4me1_En	119	1.1127	0.1141	0.1014
1.00E-04	E128	H3K4me1_En	77	1.1127	0.0738	0.1510

1.00E-04	E098	H3K4me1_En	127	1.1120	0.1218	0.0953
0.01	E083	H3K4me3_Pr	7156	1.1118	0.0753	0.0000
1.00E-04	E032	H3K4me1_En	98	1.1116	0.0940	0.1258
1.00E-04	E051	H3K4me3_Pr	45	1.1112	0.0431	0.2086
1.00E-04	E068	H3K4me1_En	157	1.1106	0.1505	0.0737
0.01	E077	H3K4me3_Pr	5210	1.1095	0.0548	0.0000
0.01	E091	H3K4me3_Pr	1601	1.1084	0.0169	0.0000
1.00E-05	E013	H3K27ac_Enf	10	1.1084	0.1053	0.2906
0.01	E100	H3K4me3_Pr	2168	1.1052	0.0228	0.0000
0.01	E097	H3K4me3_Pr	2099	1.1052	0.0221	0.0000
1.00E-05	E012	H3K27ac_Enf	10	1.1049	0.1053	0.2941
1.00E-05	E085	H3K4me1_En	12	1.1032	0.1263	0.2902
1.00E-04	E090	H3K4me1_En	136	1.1028	0.1304	0.1045
1.00E-04	E007	H3K4me3_Pr	45	1.1020	0.0431	0.2249
1.00E-05	E113	H3K4me3_Pr	12	1.1018	0.1263	0.2918
1.00E-05	E085	H3K27ac_Enf	6	1.1006	0.0632	0.3037
1.00E-04	E023	H3K4me3_Pr	67	1.0996	0.0642	0.1916
0.01	E104	H3K4me3_Pr	2291	1.0991	0.0241	0.0000
0.001	E113	H3K27ac_Enf	679	1.0984	0.0729	0.0058
1.00E-05	E026	H3K4me1_En	11	1.0984	0.1158	0.2983
0.001	E030	H3K4me1_En	668	1.0976	0.0717	0.0066
1.00E-05	E125	H3K27ac_Enf	6	1.0969	0.0632	0.3067
0.01	E098	H3K4me3_Pr	2458	1.0968	0.0259	0.0000
0.01	E105	H3K4me3_Pr	2725	1.0963	0.0287	0.0000
0.001	E066	H3K4me3_Pr	507	1.0959	0.0544	0.0172
0.01	E072	H3K4me3_Pr	4930	1.0935	0.0519	0.0000
1.00E-04	E074	H3K27ac_Enf	113	1.0935	0.1083	0.1465
1.00E-04	E063	H3K9ac_Pro	95	1.0924	0.0911	0.1690
0.001	E088	H3K4me3_Pr	405	1.0907	0.0435	0.0366
1.00E-04	E042	H3K4me1_En	100	1.0906	0.0959	0.1673
0.001	E091	H3K27ac_Enf	646	1.0884	0.0693	0.0131
0.01	E004	H3K4me3_Pr	1279	1.0883	0.0135	0.0012
1.00E-04	E071	H3K27ac_Enf	120	1.0874	0.1151	0.1537
0.001	E104	H3K27ac_Enf	494	1.0864	0.0530	0.0290
1.00E-04	E049	H3K4me1_En	135	1.0857	0.1294	0.1435
0.01	E065	H3K4me3_Pr	1700	1.0853	0.0179	0.0004
0.01	E025	H3K4me3_Pr	5889	1.0849	0.0620	0.0000
1.00E-04	E031	H3K4me1_En	66	1.0840	0.0633	0.2266
1.00E-04	E036	H3K4me1_En	98	1.0827	0.0940	0.1889
0.01	E108	H3K4me3_Pr	4635	1.0819	0.0488	0.0000
0.01	E124	H3K4me3_Pr	5068	1.0813	0.0534	0.0000
1.00E-05	E101	H3K4me3_Pr	5	1.0806	0.0526	0.3173
0.01	E011	H3K4me3_Pr	9751	1.0803	0.1027	0.0000

0.01	E023	H3K4me3_Pr	5994	1.0801	0.0631	0.0000
1.00E-05	E008	H3K4me1_En	5	1.0800	0.0526	0.3177
1.00E-04	E120	H3K4me1_En	85	1.0795	0.0815	0.2122
1.00E-04	E102	H3K4me3_Pr	46	1.0793	0.0441	0.2670
0.01	E089	H3K4me3_Pr	1652	1.0787	0.0174	0.0010
1.00E-04	E122	H3K9ac_Pro	35	1.0779	0.0336	0.2879
1.00E-05	E110	H3K9ac_Pro	7	1.0771	0.0737	0.3244
1.00E-04	E076	H3K4me1_En	116	1.0766	0.1112	0.1859
1.00E-05	E017	H3K4me1_En	11	1.0765	0.1158	0.3229
0.001	E067	H3K4me3_Pr	415	1.0761	0.0445	0.0615
1.00E-05	E065	H3K4me1_En	7	1.0756	0.0737	0.3257
0.01	E017	H3K4me3_Pr	1729	1.0755	0.0182	0.0012
0.01	E015	H3K4me3_Pr	3827	1.0745	0.0403	0.0000
0.001	E086	H3K4me1_En	481	1.0737	0.0516	0.0536
0.01	E095	H3K4me3_Pr	1737	1.0731	0.0183	0.0016
0.01	E005	H3K4me3_Pr	4172	1.0729	0.0439	0.0000
1.00E-04	E008	H3K9ac_Pro	54	1.0727	0.0518	0.2693
1.00E-05	E052	H3K9ac_Pro	5	1.0720	0.0526	0.3238
1.00E-05	E110	H3K4me1_En	13	1.0719	0.1368	0.3253
1.00E-04	E027	H3K9ac_Pro	112	1.0717	0.1074	0.2036
1.00E-04	E071	H3K4me1_En	163	1.0690	0.1563	0.1668
0.01	E069	H3K4me3_Pr	4573	1.0689	0.0481	0.0000
0.01	E075	H3K4me3_Pr	4104	1.0687	0.0432	0.0000
0.01	E090	H3K4me3_Pr	1751	1.0685	0.0184	0.0027
0.01	E117	H3K9ac_Pro	4931	1.0683	0.0519	0.0000
1.00E-05	E090	H3K4me1_En	12	1.0683	0.1263	0.3314
0.01	E006	H3K4me3_Pr	4773	1.0677	0.0502	0.0000
0.01	E009	H3K4me3_Pr	1966	1.0675	0.0207	0.0018
0.001	E069	H3K4me3_Pr	447	1.0653	0.0480	0.0828
1.00E-04	E114	H3K4me1_En	123	1.0648	0.1179	0.2138
1.00E-04	E017	H3K9ac_Pro	52	1.0640	0.0499	0.2921
0.01	E088	H3K4me3_Pr	4026	1.0634	0.0424	0.0000
0.001	E072	H3K4me3_Pr	470	1.0629	0.0504	0.0849
0.01	E061	H3K4me3_Pr	2156	1.0626	0.0227	0.0023
0.01	E001	H3K9ac_Pro	3868	1.0610	0.0407	0.0001
1.00E-04	E126	H3K4me3_Pr	21	1.0609	0.0201	0.3381
0.001	E031	H3K4me1_En	577	1.0608	0.0619	0.0699
1.00E-04	E013	H3K27ac_En	105	1.0601	0.1007	0.2455
0.01	E001	H3K4me3_Pr	4744	1.0593	0.0499	0.0000
0.01	E076	H3K4me3_Pr	5436	1.0590	0.0572	0.0000
0.01	E003	H3K4me3_Pr	2167	1.0587	0.0228	0.0038
0.01	E027	H3K4me3_Pr	3006	1.0585	0.0316	0.0008
0.01	E068	H3K4me3_Pr	5090	1.0582	0.0536	0.0000

0.01	E007	H3K4me3_Pr	3934	1.0578	0.0414	0.0002
1.00E-04	E025	H3K4me3_Pr	63	1.0570	0.0604	0.2966
1.00E-05	E054	H3K4me1_En	8	1.0569	0.0842	0.3450
0.01	E074	H3K4me3_Pr	4865	1.0557	0.0512	0.0001
1.00E-04	E074	H3K9ac_Pro	57	1.0557	0.0547	0.3065
0.01	E053	H3K4me3_Pr	1955	1.0555	0.0206	0.0081
0.001	E007	H3K4me3_Pr	385	1.0554	0.0413	0.1346
0.01	E067	H3K4me3_Pr	4148	1.0550	0.0437	0.0002
0.01	E033	H3K4me3_Pr	2289	1.0549	0.0241	0.0050
1.00E-04	E112	H3K4me1_En	60	1.0541	0.0575	0.3074
0.01	E092	H3K4me3_Pr	1844	1.0529	0.0194	0.0128
0.01	E086	H3K9ac_Pro	1857	1.0526	0.0195	0.0129
0.01	E013	H3K4me3_Pr	2042	1.0526	0.0215	0.0098
0.01	E085	H3K4me3_Pr	2179	1.0523	0.0229	0.0081
1.00E-04	E015	H3K9ac_Pro	62	1.0522	0.0594	0.3104
0.01	E037	H3K4me3_Pr	3207	1.0507	0.0338	0.0023
0.01	E035	H3K4me3_Pr	2140	1.0504	0.0225	0.0108
0.01	E120	H3K4me3_Pr	2145	1.0501	0.0226	0.0111
0.001	E008	H3K27ac_Enf	597	1.0498	0.0641	0.1069
1.00E-04	E120	H3K27ac_Enf	41	1.0491	0.0393	0.3389
0.01	E107	H3K4me3_Pr	3596	1.0489	0.0379	0.0018
0.01	E005	H3K9ac_Pro	2852	1.0475	0.0300	0.0060
0.001	E107	H3K4me3_Pr	352	1.0469	0.0378	0.1829
0.01	E008	H3K4me3_Pr	2705	1.0465	0.0285	0.0084
0.01	E087	H3K4me3_Pr	1544	1.0462	0.0163	0.0364
0.001	E082	H3K4me1_En	865	1.0442	0.0928	0.0889
0.001	E124	H3K4me3_Pr	480	1.0442	0.0515	0.1598
0.001	E073	H3K4me3_Pr	449	1.0441	0.0482	0.1680
0.01	E097	H3K27ac_Enf	4899	1.0441	0.0516	0.0010
0.01	E123	H3K4me3_Pr	2735	1.0439	0.0288	0.0114
0.01	E046	H3K4me3_Pr	1662	1.0434	0.0175	0.0401
0.01	E119	H3K4me3_Pr	1913	1.0428	0.0201	0.0320
1.00E-04	E066	H3K4me3_Pr	54	1.0427	0.0518	0.3429
0.001	E101	H3K4me3_Pr	473	1.0423	0.0508	0.1713
0.001	E125	H3K4me3_Pr	350	1.0421	0.0376	0.2069
1.00E-05	E075	H3K4me3_Pr	4	1.0415	0.0421	0.3394
0.01	E117	H3K4me3_Pr	4513	1.0411	0.0475	0.0029
1.00E-04	E078	H3K27ac_Enf	64	1.0408	0.0614	0.3403
0.01	E059	H3K4me3_Pr	3533	1.0403	0.0372	0.0085
0.01	E002	H3K4me3_Pr	5258	1.0398	0.0554	0.0018
0.01	E086	H3K4me3_Pr	1869	1.0394	0.0197	0.0453
0.01	E038	H3K4me3_Pr	3321	1.0375	0.0350	0.0155
0.01	E017	H3K9ac_Pro	4618	1.0375	0.0486	0.0053

1.00E-04	E026	H3K4me1_En	114	1.0368	0.1093	0.3194
0.01	E034	H3K4me3_Pr	2064	1.0368	0.0217	0.0480
1.00E-04	E085	H3K27ac_Enf	62	1.0359	0.0594	0.3557
0.01	E054	H3K4me3_Pr	2521	1.0349	0.0265	0.0400
0.001	E007	H3K9ac_Pro	1011	1.0346	0.1085	0.1234
0.01	E094	H3K4me3_Pr	4036	1.0344	0.0425	0.0141
0.01	E123	H3K9ac_Pro	2724	1.0342	0.0287	0.0373
1.00E-04	E004	H3K27ac_Enf	61	1.0334	0.0585	0.3637
0.01	E080	H3K4me3_Pr	1662	1.0332	0.0175	0.0881
0.001	E096	H3K4me1_En	1120	1.0332	0.1202	0.1196
0.001	E068	H3K4me3_Pr	487	1.0323	0.0523	0.2275
0.001	E081	H3K4me1_En	986	1.0321	0.1058	0.1435
0.01	E048	H3K4me3_Pr	3408	1.0320	0.0359	0.0305
0.01	E018	H3K4me3_Pr	4070	1.0319	0.0428	0.0203
0.01	E126	H3K9ac_Pro	2139	1.0317	0.0225	0.0715
0.001	E066	H3K9ac_Pro	602	1.0316	0.0646	0.2083
0.01	E047	H3K9ac_Pro	5369	1.0316	0.0565	0.0096
0.01	E087	H3K9ac_Pro	1924	1.0315	0.0203	0.0837
1.00E-04	E039	H3K4me3_Pr	39	1.0312	0.0374	0.3815
1.00E-04	E111	H3K27ac_Enf	85	1.0308	0.0815	0.3584
1.00E-04	E076	H3K27ac_Enf	91	1.0305	0.0872	0.3562
0.01	E010	H3K4me3_Pr	1882	1.0296	0.0198	0.0989
0.01	E123	H3K4me1_En	6716	1.0295	0.0707	0.0068
1.00E-04	E030	H3K4me3_Pr	30	1.0292	0.0288	0.3892
0.01	E093	H3K4me3_Pr	2012	1.0289	0.0212	0.0964
0.01	E084	H3K4me3_Pr	1945	1.0283	0.0205	0.1054
1.00E-05	E118	H3K4me1_En	8	1.0274	0.0842	0.3764
0.001	E113	H3K4me1_En	1268	1.0272	0.1361	0.1493
0.01	E044	H3K27ac_Enf	5192	1.0266	0.0547	0.0260
0.01	E128	H3K9ac_Pro	1993	1.0264	0.0210	0.1176
0.01	E021	H3K4me3_Pr	1661	1.0263	0.0175	0.1405
0.01	E024	H3K4me3_Pr	2853	1.0257	0.0300	0.0837
0.01	E112	H3K4me3_Pr	1922	1.0255	0.0202	0.1301
0.01	E104	H3K27ac_Enf	4752	1.0250	0.0500	0.0401
0.01	E115	H3K4me3_Pr	2408	1.0250	0.0253	0.1083
0.01	E114	H3K4me3_Pr	4495	1.0246	0.0473	0.0471
0.01	E079	H3K4me3_Pr	2391	1.0242	0.0252	0.1164
0.01	E044	H3K4me1_En	8045	1.0241	0.0847	0.0130
0.01	E118	H3K4me3_Pr	2734	1.0239	0.0288	0.1041
0.01	E058	H3K4me3_Pr	2741	1.0238	0.0289	0.1041
0.01	E070	H3K4me3_Pr	2464	1.0231	0.0259	0.1239
0.01	E039	H3K4me3_Pr	3524	1.0230	0.0371	0.0832
0.001	E089	H3K4me1_En	1220	1.0219	0.1309	0.2042

1.00E-04	E039	H3K27ac_Enf	57	1.0218	0.0547	0.3993
0.01	E043	H3K4me3_Pri	3123	1.0214	0.0329	0.1128
0.01	E040	H3K4me3_Pri	3982	1.0212	0.0419	0.0874
0.01	E029	H3K4me3_Pri	1213	1.0210	0.0128	0.2279
0.01	E096	H3K4me3_Pri	3718	1.0208	0.0391	0.0992
1.00E-05	E073	H3K4me1_En	12	1.0207	0.1263	0.3941
1.00E-04	E087	H3K4me1_En	103	1.0202	0.0988	0.3902
0.01	E128	H3K4me3_Pri	1643	1.0202	0.0173	0.2034
0.01	E103	H3K4me3_Pri	4521	1.0200	0.0476	0.0853
1.00E-04	E129	H3K27ac_Enf	88	1.0198	0.0844	0.3964
0.01	E055	H3K4me3_Pri	5063	1.0195	0.0533	0.0782
1.00E-04	E069	H3K27ac_Enf	123	1.0195	0.1179	0.3869
0.01	E042	H3K27ac_Enf	4185	1.0192	0.0441	0.1036
1.00E-04	E093	H3K4me1_En	114	1.0191	0.1093	0.3914
1.00E-05	E056	H3K4me3_Pri	7	1.0189	0.0737	0.3811
0.01	E072	H3K9ac_Pro	8216	1.0179	0.0865	0.0465
0.01	E101	H3K4me3_Pri	4709	1.0178	0.0496	0.1062
0.001	E074	H3K4me3_Pri	460	1.0178	0.0494	0.3383
1.00E-04	E062	H3K4me1_En	52	1.0174	0.0499	0.4130
0.01	E126	H3K4me3_Pri	1834	1.0173	0.0193	0.2251
1.00E-05	E067	H3K4me3_Pri	4	1.0172	0.0421	0.3576
1.00E-04	E115	H3K9ac_Pro	35	1.0170	0.0336	0.4153
0.001	E102	H3K4me3_Pri	387	1.0165	0.0415	0.3589
0.01	E044	H3K4me3_Pri	3148	1.0164	0.0331	0.1736
1.00E-04	E122	H3K27ac_Enf	40	1.0163	0.0384	0.4170
0.001	E038	H3K4me3_Pri	319	1.0161	0.0342	0.3721
0.01	E073	H3K4me3_Pri	4454	1.0159	0.0469	0.1391
0.01	E017	H3K27ac_Enf	5530	1.0158	0.0582	0.1137
0.01	E049	H3K4me3_Pri	3717	1.0154	0.0391	0.1683
0.01	E038	H3K9ac_Pro	6808	1.0153	0.0717	0.0957
0.01	E123	H3K27ac_Enf	2835	1.0152	0.0298	0.2044
0.001	E040	H3K4me3_Pri	388	1.0145	0.0416	0.3735
1.00E-05	E122	H3K9ac_Pro	3	1.0143	0.0316	0.3431
0.001	E046	H3K4me1_En	764	1.0140	0.0820	0.3354
0.001	E045	H3K4me1_En	721	1.0138	0.0774	0.3419
0.01	E109	H3K4me3_Pri	2676	1.0133	0.0282	0.2401
0.001	E032	H3K4me1_En	798	1.0133	0.0856	0.3400
0.01	E073	H3K9ac_Pro	4811	1.0131	0.0506	0.1751
1.00E-05	E129	H3K4me1_En	10	1.0130	0.1053	0.3999
0.001	E076	H3K4me3_Pri	510	1.0130	0.0547	0.3713
0.001	E032	H3K27ac_Enf	349	1.0130	0.0375	0.3895
0.01	E099	H3K4me3_Pri	2684	1.0129	0.0283	0.2466
0.01	E111	H3K4me3_Pri	4736	1.0129	0.0499	0.1813

0.01	E117	H3K27ac_Enf	4714	1.0127	0.0496	0.1843
0.01	E090	H3K27ac_Enf	5908	1.0119	0.0622	0.1720
0.01	E082	H3K4me3_Pri	2207	1.0118	0.0232	0.2833
0.01	E032	H3K4me3_Pri	1687	1.0117	0.0178	0.3094
0.01	E080	H3K27ac_Enf	7769	1.0117	0.0818	0.1421
0.01	E115	H3K4me1_En	5981	1.0114	0.0630	0.1802
0.001	E072	H3K4me1_En	761	1.0113	0.0817	0.3648
0.001	E034	H3K4me1_En	901	1.0112	0.0967	0.3545
0.01	E036	H3K4me3_Pri	2838	1.0111	0.0299	0.2714
1.00E-05	E022	H3K4me1_En	10	1.0107	0.1053	0.4029
1.00E-04	E028	H3K4me1_En	136	1.0106	0.1304	0.4249
0.01	E100	H3K27ac_Enf	4774	1.0104	0.0503	0.2283
1.00E-04	E126	H3K9ac_Pro	23	1.0103	0.0221	0.4252
0.01	E062	H3K4me3_Pri	2001	1.0103	0.0211	0.3172
0.01	E048	H3K27ac_Enf	4212	1.0102	0.0443	0.2466
0.01	E122	H3K4me3_Pri	1851	1.0102	0.0195	0.3240
0.001	E096	H3K27ac_Enf	709	1.0096	0.0761	0.3858
0.01	E051	H3K4me3_Pri	3720	1.0086	0.0392	0.2932
0.01	E041	H3K4me3_Pri	3948	1.0084	0.0416	0.2933
0.01	E067	H3K9ac_Pro	7246	1.0082	0.0763	0.2326
0.01	E081	H3K4me1_En	9809	1.0071	0.1033	0.2281
0.01	E052	H3K4me3_Pri	3467	1.0070	0.0365	0.3339
0.01	E125	H3K4me3_Pri	3448	1.0070	0.0363	0.3352
0.01	E057	H3K4me3_Pri	2352	1.0068	0.0248	0.3649
0.01	E056	H3K4me3_Pri	6915	1.0066	0.0728	0.2817
0.01	E110	H3K4me3_Pri	4002	1.0056	0.0421	0.3563
0.01	E042	H3K4me3_Pri	3552	1.0051	0.0374	0.3735
0.001	E038	H3K4me1_En	809	1.0051	0.0868	0.4308
0.01	E091	H3K27ac_Enf	6082	1.0050	0.0640	0.3404
0.01	E102	H3K27ac_Enf	6095	1.0048	0.0642	0.3464
0.01	E074	H3K9ac_Pro	4941	1.0048	0.0520	0.3624
0.001	E078	H3K4me1_En	1062	1.0047	0.1140	0.4269
0.01	E059	H3K27ac_Enf	5251	1.0046	0.0553	0.3641
1.00E-04	E118	H3K27ac_Enf	37	1.0044	0.0355	0.4455
0.01	E008	H3K9ac_Pro	4605	1.0044	0.0485	0.3753
0.01	E120	H3K9ac_Pro	2289	1.0044	0.0241	0.4100
0.01	E007	H3K9ac_Pro	10002	1.0039	0.1053	0.3380
0.001	E034	H3K4me3_Pri	196	1.0038	0.0210	0.4596
1.00E-04	E012	H3K4me1_En	148	1.0036	0.1419	0.4595
0.01	E047	H3K4me3_Pri	2573	1.0036	0.0271	0.4225
0.01	E115	H3K27ac_Enf	5434	1.0031	0.0572	0.4040
0.01	E107	H3K9ac_Pro	7775	1.0030	0.0818	0.3869
0.01	E122	H3K9ac_Pro	2966	1.0029	0.0312	0.4313

1.00E-04	E011	H3K4me1_En	152	1.0027	0.1457	0.4642
0.001	E009	H3K4me3_Pr	181	1.0020	0.0194	0.4693
0.001	E108	H3K4me3_Pr	421	1.0019	0.0452	0.4710
0.01	E022	H3K4me3_Pr	2613	1.0018	0.0275	0.4581
0.01	E106	H3K4me3_Pr	3352	1.0013	0.0353	0.4654
0.001	E083	H3K4me3_Pr	632	1.0011	0.0678	0.4781
0.01	E111	H3K9ac_Pro	4302	1.0007	0.0453	0.4761
0.001	E008	H3K9ac_Pro	450	1.0007	0.0483	0.4811
0.01	E019	H3K9ac_Pro	4424	1.0001	0.0466	0.4939
0.001	E039	H3K4me1_En	906	0.9997	0.0972	0.4943
1.00E-04	E101	H3K4me1_En	106	0.9994	0.1016	0.4766
1.00E-04	E088	H3K4me1_En	142	0.9992	0.1361	0.4817
0.01	E074	H3K27ac_Enf	9403	0.9991	0.0990	0.5355
0.01	E113	H3K4me3_Pr	10878	0.9989	0.1145	0.5465
1.00E-04	E102	H3K4me1_En	108	0.9988	0.1035	0.4798
0.001	E011	H3K4me3_Pr	884	0.9985	0.0949	0.5097
0.001	E120	H3K4me3_Pr	200	0.9983	0.0215	0.4910
0.001	E044	H3K4me1_En	769	0.9980	0.0825	0.5133
0.01	E095	H3K27ac_Enf	5830	0.9979	0.0614	0.5634
0.01	E047	H3K27ac_Enf	2871	0.9975	0.0302	0.5499
0.01	E040	H3K27ac_Enf	4211	0.9974	0.0443	0.5638
0.01	E067	H3K27ac_Enf	10339	0.9970	0.1088	0.6254
0.01	E030	H3K4me1_En	6186	0.9969	0.0651	0.5952
0.01	E031	H3K4me3_Pr	1694	0.9969	0.0178	0.5447
0.01	E114	H3K9ac_Pro	4187	0.9969	0.0441	0.5774
0.01	E081	H3K4me3_Pr	989	0.9968	0.0104	0.5315
0.001	E081	H3K4me3_Pr	97	0.9968	0.0104	0.4857
0.01	E082	H3K4me1_En	8416	0.9965	0.0886	0.6296
0.01	E118	H3K9ac_Pro	2966	0.9965	0.0312	0.5730
0.01	E074	H3K4me1_En	11390	0.9964	0.1199	0.6572
0.001	E043	H3K4me1_En	912	0.9963	0.0979	0.5377
0.01	E089	H3K27ac_Enf	5680	0.9962	0.0598	0.6143
0.01	E045	H3K4me3_Pr	3292	0.9959	0.0347	0.5915
1.00E-04	E068	H3K9ac_Pro	94	0.9955	0.0901	0.4910
0.01	E117	H3K4me1_En	8550	0.9948	0.0900	0.6910
0.001	E027	H3K4me3_Pr	277	0.9945	0.0297	0.5215
0.01	E108	H3K9ac_Pro	6039	0.9941	0.0636	0.6807
0.01	E006	H3K9ac_Pro	4705	0.9937	0.0495	0.6674
0.01	E121	H3K4me3_Pr	3679	0.9937	0.0387	0.6481
0.01	E029	H3K27ac_Enf	3194	0.9937	0.0336	0.6375
0.01	E073	H3K4me1_En	11681	0.9937	0.1230	0.7669
1.00E-04	E111	H3K4me3_Pr	51	0.9934	0.0489	0.4823
1.00E-04	E119	H3K4me3_Pr	20	0.9929	0.0192	0.4537

0.01	E077	H3K9ac_Pro	5041	0.9927	0.0531	0.7009
0.01	E050	H3K27ac_Enf	6664	0.9924	0.0702	0.7396
0.01	E067	H3K4me1_En	11484	0.9922	0.1209	0.8125
0.001	E115	H3K27ac_Enf	527	0.9918	0.0566	0.5655
0.01	E062	H3K4me1_En	4615	0.9914	0.0486	0.7229
0.01	E073	H3K27ac_Enf	11447	0.9914	0.1205	0.8367
0.01	E121	H3K9ac_Pro	5013	0.9914	0.0528	0.7332
0.01	E086	H3K4me1_En	4528	0.9913	0.0477	0.7230
0.01	E108	H3K27ac_Enf	7218	0.9912	0.0760	0.7817
0.01	E025	H3K9ac_Pro	7178	0.9911	0.0756	0.7818
0.01	E072	H3K27ac_Enf	11692	0.9906	0.1231	0.8606
0.001	E006	H3K9ac_Pro	460	0.9906	0.0494	0.5706
0.01	E072	H3K4me1_En	7600	0.9906	0.0800	0.8041
0.01	E006	H3K4me1_En	10249	0.9901	0.1079	0.8555
0.01	E098	H3K27ac_Enf	4021	0.9894	0.0423	0.7527
0.01	E129	H3K4me3_Pr	3626	0.9893	0.0382	0.7419
0.01	E050	H3K4me3_Pr	2976	0.9892	0.0313	0.7219
0.01	E047	H3K4me1_En	8920	0.9891	0.0939	0.8613
0.01	E037	H3K27ac_Enf	5315	0.9889	0.0560	0.7966
0.001	E006	H3K4me1_En	1004	0.9889	0.1078	0.6385
0.001	E124	H3K4me1_En	811	0.9888	0.0870	0.6231
0.01	E129	H3K4me1_En	9760	0.9888	0.1027	0.8798
0.01	E045	H3K4me1_En	7169	0.9887	0.0755	0.8399
1.00E-05	E121	H3K9ac_Pro	5	0.9887	0.0526	0.3943
0.01	E109	H3K27ac_Enf	6536	0.9885	0.0688	0.8314
1.00E-05	E044	H3K27ac_Enf	5	0.9885	0.0526	0.3945
0.001	E098	H3K27ac_Enf	394	0.9884	0.0423	0.5807
0.01	E105	H3K4me1_En	12621	0.9882	0.1329	0.9235
0.01	E026	H3K4me3_Pr	3649	0.9881	0.0384	0.7662
0.01	E088	H3K9ac_Pro	5897	0.9880	0.0621	0.8287
0.01	E075	H3K9ac_Pro	5101	0.9878	0.0537	0.8136
0.01	E038	H3K27ac_Enf	3475	0.9875	0.0366	0.7722
1.00E-04	E068	H3K27ac_Enf	121	0.9873	0.1160	0.5355
0.01	E008	H3K27ac_Enf	5724	0.9872	0.0603	0.8408
0.001	E098	H3K4me3_Pr	217	0.9872	0.0233	0.5587
0.01	E023	H3K9ac_Pro	7070	0.9871	0.0744	0.8700
0.01	E003	H3K9ac_Pro	3554	0.9870	0.0374	0.7846
0.01	E101	H3K9ac_Pro	5110	0.9869	0.0538	0.8322
0.01	E115	H3K9ac_Pro	3093	0.9868	0.0326	0.7708
0.01	E043	H3K27ac_Enf	4644	0.9866	0.0489	0.8254
0.001	E097	H3K27ac_Enf	454	0.9865	0.0487	0.6050
0.01	E080	H3K4me1_En	9921	0.9862	0.1044	0.9278
0.01	E105	H3K27ac_Enf	8223	0.9861	0.0866	0.9070

0.01	E069	H3K4me1_En	11510	0.9860	0.1212	0.9467
0.001	E005	H3K4me3_Pr	376	0.9858	0.0404	0.5984
0.01	E071	H3K27ac_Enf	9908	0.9858	0.1043	0.9336
0.01	E023	H3K4me1_En	12479	0.9857	0.1314	0.9582
0.01	E092	H3K4me1_En	12259	0.9856	0.1291	0.9571
0.01	E089	H3K4me1_En	11996	0.9855	0.1263	0.9561
0.01	E068	H3K9ac_Pro	8475	0.9855	0.0892	0.9207
0.01	E033	H3K4me1_En	4218	0.9854	0.0444	0.8331
0.001	E096	H3K4me3_Pr	352	0.9853	0.0378	0.5980
0.01	E113	H3K27ac_Enf	6208	0.9850	0.0654	0.8899
1.00E-04	E125	H3K4me3_Pr	37	0.9841	0.0355	0.4961
0.01	E025	H3K4me1_En	13282	0.9841	0.1398	0.9771
0.001	E110	H3K4me3_Pr	384	0.9837	0.0412	0.6162
0.001	E047	H3K4me1_En	870	0.9835	0.0934	0.6892
0.01	E114	H3K27ac_Enf	4674	0.9835	0.0492	0.8772
0.01	E050	H3K4me1_En	9679	0.9834	0.1019	0.9592
0.01	E063	H3K27ac_Enf	8077	0.9832	0.0850	0.9437
0.01	E110	H3K9ac_Pro	6389	0.9832	0.0673	0.9191
0.001	E066	H3K4me1_En	959	0.9830	0.1029	0.7053
0.01	E091	H3K4me1_En	8922	0.9828	0.0939	0.9573
1.00E-05	E005	H3K4me1_En	10	0.9826	0.1053	0.4402
0.01	E120	H3K27ac_Enf	3496	0.9822	0.0368	0.8586
0.01	E071	H3K4me1_En	13637	0.9820	0.1436	0.9892
0.001	E017	H3K4me1_En	984	0.9819	0.1056	0.7219
0.001	E076	H3K4me1_En	945	0.9818	0.1014	0.7179
0.01	E039	H3K4me1_En	9071	0.9818	0.0955	0.9673
0.01	E027	H3K9ac_Pro	9343	0.9816	0.0984	0.9705
0.01	E041	H3K27ac_Enf	7111	0.9816	0.0749	0.9483
0.01	E055	H3K4me1_En	14366	0.9815	0.1512	0.9924
0.01	E052	H3K9ac_Pro	4577	0.9814	0.0482	0.9022
0.01	E042	H3K4me1_En	8195	0.9813	0.0863	0.9627
0.001	E055	H3K4me3_Pr	478	0.9813	0.0513	0.6532
0.001	E091	H3K4me3_Pr	139	0.9812	0.0149	0.5677
0.01	E126	H3K27ac_Enf	3538	0.9811	0.0372	0.8744
0.01	E113	H3K4me1_En	12346	0.9809	0.1300	0.9892
1.00E-04	E086	H3K9ac_Pro	19	0.9809	0.0182	0.4734
0.01	E069	H3K27ac_Enf	10773	0.9804	0.1134	0.9855
0.01	E079	H3K27ac_Enf	5954	0.9803	0.0627	0.9430
0.01	E124	H3K27ac_Enf	9551	0.9801	0.1005	0.9811
0.01	E068	H3K4me1_En	12615	0.9799	0.1328	0.9931
0.01	E125	H3K27ac_Enf	5358	0.9796	0.0564	0.9392
0.01	E119	H3K27ac_Enf	4055	0.9793	0.0427	0.9125
0.01	E110	H3K4me1_En	11875	0.9793	0.1250	0.9928

0.01	E094	H3K27ac_Enf	4613	0.9791	0.0486	0.9287
0.01	E128	H3K27ac_Enf	4123	0.9789	0.0434	0.9185
0.01	E069	H3K9ac_Pro	5102	0.9789	0.0537	0.9412
0.01	E126	H3K4me1_En	6465	0.9787	0.0681	0.9631
0.01	E107	H3K4me1_En	8744	0.9787	0.0920	0.9827
0.01	E056	H3K27ac_Enf	11831	0.9786	0.1245	0.9942
0.001	E006	H3K4me3_Pr	429	0.9784	0.0460	0.6672
0.001	E094	H3K4me1_En	885	0.9783	0.0950	0.7476
0.01	E109	H3K4me1_En	9846	0.9783	0.1037	0.9894
0.01	E100	H3K4me1_En	7359	0.9783	0.0775	0.9752
0.001	E031	H3K4me3_Pr	163	0.9780	0.0175	0.5931
0.01	E127	H3K4me3_Pr	3567	0.9779	0.0376	0.9122
0.01	E034	H3K4me1_En	8883	0.9778	0.0935	0.9869
0.01	E016	H3K9ac_Pro	4354	0.9778	0.0458	0.9352
0.01	E119	H3K4me1_En	7005	0.9777	0.0737	0.9753
0.01	E010	H3K4me1_En	9377	0.9776	0.0987	0.9896
1.00E-05	E096	H3K27ac_Enf	7	0.9776	0.0737	0.4260
0.01	E051	H3K4me1_En	7835	0.9776	0.0825	0.9821
0.01	E059	H3K4me1_En	6199	0.9775	0.0653	0.9678
0.01	E103	H3K9ac_Pro	4018	0.9774	0.0423	0.9303
0.001	E097	H3K4me1_En	821	0.9774	0.0881	0.7476
0.01	E125	H3K4me1_En	9974	0.9773	0.1050	0.9924
1.00E-04	E076	H3K9ac_Pro	48	0.9772	0.0460	0.5273
0.001	E006	H3K27ac_Enf	463	0.9771	0.0497	0.6854
0.01	E128	H3K4me1_En	6158	0.9771	0.0648	0.9700
0.01	E053	H3K4me1_En	8532	0.9771	0.0898	0.9877
0.001	E097	H3K4me3_Pr	182	0.9770	0.0195	0.6061
0.001	E073	H3K9ac_Pro	455	0.9769	0.0488	0.6854
0.01	E075	H3K4me1_En	9347	0.9766	0.0984	0.9920
1.00E-04	E088	H3K9ac_Pro	64	0.9766	0.0614	0.5452
0.01	E102	H3K9ac_Pro	4990	0.9765	0.0525	0.9574
1.00E-04	E087	H3K9ac_Pro	20	0.9765	0.0192	0.4840
0.001	E071	H3K4me1_En	1330	0.9764	0.1427	0.8226
0.01	E092	H3K27ac_Enf	5792	0.9764	0.0610	0.9697
0.01	E108	H3K4me1_En	12169	0.9763	0.1281	0.9977
0.01	E040	H3K4me1_En	8365	0.9758	0.0881	0.9907
0.01	E119	H3K9ac_Pro	3676	0.9757	0.0387	0.9351
0.01	E106	H3K27ac_Enf	6306	0.9754	0.0664	0.9799
0.01	E075	H3K27ac_Enf	6764	0.9753	0.0712	0.9837
0.01	E125	H3K9ac_Pro	4955	0.9752	0.0522	0.9653
0.001	E117	H3K4me1_En	822	0.9751	0.0882	0.7696
0.01	E026	H3K4me1_En	9764	0.9751	0.1028	0.9959
0.01	E039	H3K27ac_Enf	4954	0.9750	0.0522	0.9661

0.001	E049	H3K4me3_Pr	350	0.9748	0.0376	0.6746
0.01	E021	H3K27ac_Enf	2709	0.9747	0.0285	0.9107
0.001	E117	H3K27ac_Enf	445	0.9747	0.0478	0.7001
0.01	E084	H3K27ac_Enf	5199	0.9746	0.0547	0.9716
0.01	E097	H3K4me1_En	8347	0.9746	0.0879	0.9932
1.00E-04	E108	H3K9ac_Pro	65	0.9745	0.0623	0.5534
1.00E-05	E067	H3K9ac_Pro	7	0.9739	0.0737	0.4303
1.00E-04	E008	H3K27ac_Enf	62	0.9739	0.0594	0.5524
0.001	E043	H3K4me3_Pr	292	0.9737	0.0313	0.6650
0.01	E034	H3K27ac_Enf	4320	0.9736	0.0455	0.9638
0.01	E062	H3K27ac_Enf	2381	0.9730	0.0251	0.9104
0.01	E020	H3K27ac_Enf	7507	0.9730	0.0790	0.9934
0.01	E121	H3K27ac_Enf	5431	0.9730	0.0572	0.9813
0.01	E102	H3K4me1_En	9582	0.9730	0.1009	0.9977
0.01	E029	H3K4me1_En	6525	0.9729	0.0687	0.9895
0.01	E111	H3K27ac_Enf	7306	0.9728	0.0769	0.9930
0.01	E114	H3K4me1_En	10232	0.9726	0.1077	0.9986
0.001	E091	H3K4me1_En	866	0.9726	0.0929	0.7997
0.01	E120	H3K4me1_En	6974	0.9725	0.0734	0.9923
0.01	E093	H3K4me1_En	9907	0.9724	0.1043	0.9984
0.01	E085	H3K27ac_Enf	5300	0.9723	0.0558	0.9824
0.01	E045	H3K27ac_Enf	4102	0.9723	0.0432	0.9670
0.01	E041	H3K4me1_En	9962	0.9720	0.1049	0.9987
0.001	E117	H3K9ac_Pro	440	0.9719	0.0472	0.7201
0.001	E048	H3K4me1_En	804	0.9719	0.0863	0.7959
0.01	E043	H3K4me1_En	9070	0.9719	0.0955	0.9979
0.01	E124	H3K4me1_En	8126	0.9717	0.0855	0.9967
0.01	E030	H3K4me3_Pr	2579	0.9715	0.0271	0.9311
0.001	E069	H3K4me1_En	1112	0.9712	0.1194	0.8472
0.01	E028	H3K4me1_En	11903	0.9712	0.1253	0.9997
0.01	E056	H3K4me1_En	15206	0.9710	0.1601	1.0000
0.01	E052	H3K4me1_En	9386	0.9710	0.0988	0.9987
0.01	E004	H3K9ac_Pro	3455	0.9709	0.0364	0.9615
0.01	E015	H3K9ac_Pro	5210	0.9708	0.0548	0.9861
1.00E-04	E121	H3K4me1_En	114	0.9706	0.1093	0.6092
0.01	E035	H3K4me1_En	4744	0.9704	0.0499	0.9833
0.01	E111	H3K4me1_En	10050	0.9701	0.1058	0.9994
0.01	E090	H3K4me1_En	10896	0.9701	0.1147	0.9996
0.01	E061	H3K27ac_Enf	8290	0.9697	0.0873	0.9984
0.001	E086	H3K4me3_Pr	171	0.9696	0.0184	0.6403
0.01	E088	H3K4me1_En	12548	0.9695	0.1321	0.9999
0.01	E022	H3K4me1_En	9591	0.9694	0.1010	0.9994
0.01	E116	H3K4me3_Pr	3278	0.9694	0.0345	0.9650

0.01	E036	H3K4me1_En	7988	0.9690	0.0841	0.9984
0.01	E129	H3K27ac_Enf	7615	0.9689	0.0802	0.9980
0.01	E112	H3K4me1_En	5023	0.9689	0.0529	0.9894
0.01	E007	H3K4me1_En	8266	0.9688	0.0870	0.9988
0.01	E046	H3K4me1_En	7442	0.9688	0.0783	0.9979
0.001	E053	H3K4me3_Pr	176	0.9688	0.0189	0.6470
0.001	E076	H3K27ac_Enf	764	0.9685	0.0820	0.8171
0.01	E024	H3K4me1_En	13477	0.9685	0.1419	1.0000
0.01	E054	H3K4me1_En	7330	0.9685	0.0772	0.9979
0.001	E029	H3K4me1_En	637	0.9683	0.0684	0.7941
0.01	E038	H3K4me1_En	7946	0.9683	0.0836	0.9987
0.01	E121	H3K4me1_En	10356	0.9681	0.1090	0.9998
0.001	E041	H3K4me1_En	973	0.9679	0.1044	0.8557
0.001	E056	H3K4me3_Pr	652	0.9677	0.0700	0.8021
1.00E-04	E043	H3K27ac_Enf	50	0.9674	0.0479	0.5588
0.01	E066	H3K27ac_Enf	6856	0.9674	0.0722	0.9979
0.001	E105	H3K27ac_Enf	791	0.9671	0.0849	0.8329
0.01	E004	H3K27ac_Enf	5199	0.9670	0.0547	0.9937
0.01	E096	H3K27ac_Enf	6923	0.9669	0.0729	0.9982
0.01	E068	H3K27ac_Enf	10791	0.9668	0.1136	0.9999
0.01	E065	H3K4me1_En	6289	0.9665	0.0662	0.9975
0.01	E063	H3K4me1_En	11862	0.9664	0.1249	1.0000
0.01	E028	H3K4me3_Pr	2379	0.9663	0.0250	0.9543
1.00E-05	E041	H3K27ac_Enf	7	0.9662	0.0737	0.4392
0.01	E127	H3K4me1_En	7858	0.9661	0.0827	0.9993
0.01	E037	H3K4me1_En	8545	0.9659	0.0900	0.9996
0.001	E035	H3K4me1_En	463	0.9656	0.0497	0.7726
0.01	E003	H3K27ac_Enf	5359	0.9656	0.0564	0.9960
0.001	E104	H3K4me1_En	856	0.9651	0.0919	0.8588
0.01	E065	H3K27ac_Enf	3854	0.9651	0.0406	0.9880
0.01	E087	H3K27ac_Enf	2994	0.9648	0.0315	0.9770
0.01	E094	H3K4me1_En	8897	0.9646	0.0937	0.9998
0.01	E077	H3K4me1_En	11067	0.9645	0.1165	1.0000
0.01	E048	H3K4me1_En	8133	0.9643	0.0856	0.9997
0.01	E096	H3K4me1_En	10657	0.9642	0.1122	1.0000
0.01	E066	H3K9ac_Pro	5736	0.9641	0.0604	0.9979
0.001	E125	H3K4me1_En	965	0.9640	0.1036	0.8829
0.001	E024	H3K4me3_Pr	263	0.9640	0.0282	0.7145
0.01	E006	H3K27ac_Enf	4657	0.9639	0.0490	0.9950
0.01	E011	H3K9ac_Pro	3203	0.9639	0.0337	0.9830
0.01	E049	H3K9ac_Pro	5859	0.9635	0.0617	0.9984
0.01	E063	H3K9ac_Pro	7631	0.9635	0.0803	0.9997
0.01	E018	H3K4me1_En	12324	0.9632	0.1297	1.0000

0.01	E122	H3K4me1_En	5904	0.9631	0.0622	0.9986
0.001	E082	H3K4me3_Pr	206	0.9629	0.0221	0.6935
0.01	E055	H3K27ac_Enf	11328	0.9624	0.1193	1.0000
1.00E-04	E086	H3K4me3_Pr	19	0.9623	0.0182	0.5075
0.01	E001	H3K4me1_En	12834	0.9623	0.1351	1.0000
0.001	E109	H3K27ac_Enf	624	0.9622	0.0670	0.8356
1.00E-04	E027	H3K4me3_Pr	30	0.9621	0.0288	0.5381
0.01	E017	H3K4me1_En	9829	0.9619	0.1035	1.0000
0.001	E077	H3K4me3_Pr	443	0.9619	0.0475	0.7920
0.01	E002	H3K9ac_Pro	704	0.9615	0.0074	0.8478
0.001	E075	H3K27ac_Enf	654	0.9614	0.0702	0.8473
0.001	E056	H3K27ac_Enf	1140	0.9614	0.1224	0.9211
1.00E-04	E112	H3K27ac_Enf	40	0.9614	0.0384	0.5602
1.00E-04	E016	H3K9ac_Pro	47	0.9613	0.0451	0.5725
0.01	E103	H3K27ac_Enf	5590	0.9612	0.0588	0.9989
0.001	E080	H3K27ac_Enf	724	0.9612	0.0777	0.8627
0.01	E058	H3K4me1_En	11756	0.9610	0.1238	1.0000
0.01	E101	H3K4me1_En	9282	0.9609	0.0977	1.0000
0.01	E016	H3K27ac_Enf	5204	0.9609	0.0548	0.9985
0.01	E018	H3K9ac_Pro	6513	0.9608	0.0686	0.9996
0.001	E079	H3K4me3_Pr	220	0.9608	0.0236	0.7121
1.00E-04	E082	H3K4me3_Pr	23	0.9604	0.0221	0.5239
0.001	E011	H3K9ac_Pro	313	0.9603	0.0336	0.7568
0.01	E062	H3K9ac_Pro	7662	0.9603	0.0807	0.9999
0.01	E106	H3K4me1_En	5129	0.9602	0.0540	0.9987
0.01	E098	H3K4me1_En	9987	0.9601	0.1051	1.0000
0.01	E026	H3K9ac_Pro	3910	0.9601	0.0412	0.9955
0.001	E033	H3K4me1_En	403	0.9599	0.0433	0.7918
0.001	E046	H3K27ac_Enf	301	0.9596	0.0323	0.7561
0.01	E032	H3K4me1_En	7705	0.9596	0.0811	0.9999
0.01	E014	H3K4me1_En	12359	0.9596	0.1301	1.0000
0.01	E076	H3K4me1_En	9416	0.9595	0.0991	1.0000
0.01	E019	H3K27ac_Enf	2512	0.9595	0.0264	0.9823
1.00E-04	E121	H3K4me3_Pr	39	0.9594	0.0374	0.5636
1.00E-05	E105	H3K27ac_Enf	8	0.9593	0.0842	0.4568
0.01	E009	H3K4me1_En	8419	0.9593	0.0886	1.0000
0.01	E070	H3K4me1_En	5622	0.9587	0.0592	0.9995
0.01	E049	H3K4me1_En	10856	0.9586	0.1143	1.0000
0.01	E031	H3K4me1_En	5315	0.9584	0.0560	0.9993
0.01	E002	H3K4me1_En	6842	0.9584	0.0720	0.9999
0.01	E103	H3K4me1_En	6686	0.9583	0.0704	0.9999
0.001	E106	H3K4me1_En	502	0.9582	0.0539	0.8321
0.01	E099	H3K4me1_En	10091	0.9580	0.1062	1.0000

0.001	E055	H3K4me1_En	1375	0.9578	0.1476	0.9582
1.00E-05	E056	H3K4me1_En	15	0.9578	0.1579	0.5053
0.01	E122	H3K27ac_Enf	3433	0.9577	0.0361	0.9952
0.01	E057	H3K4me1_En	7951	0.9576	0.0837	1.0000
1.00E-05	E095	H3K4me1_En	9	0.9576	0.0947	0.4677
0.01	E061	H3K4me1_En	12009	0.9574	0.1264	1.0000
0.001	E017	H3K27ac_Enf	511	0.9570	0.0548	0.8416
0.01	E019	H3K4me1_En	9062	0.9569	0.0954	1.0000
0.01	E014	H3K9ac_Pro	3758	0.9568	0.0396	0.9972
0.01	E084	H3K4me1_En	9715	0.9567	0.1023	1.0000
0.001	E075	H3K4me1_En	898	0.9567	0.0964	0.9174
0.001	E074	H3K27ac_Enf	883	0.9565	0.0948	0.9160
0.01	E021	H3K4me1_En	6744	0.9565	0.0710	0.9999
0.001	E100	H3K4me3_Pri	184	0.9564	0.0197	0.7147
0.01	E087	H3K4me1_En	8790	0.9559	0.0925	1.0000
0.001	E113	H3K4me3_Pri	1021	0.9559	0.1096	0.9360
0.001	E126	H3K4me3_Pri	169	0.9558	0.0181	0.7080
0.001	E105	H3K4me3_Pri	233	0.9557	0.0250	0.7463
0.001	E129	H3K4me1_En	925	0.9554	0.0993	0.9269
0.01	E116	H3K9ac_Pro	2593	0.9554	0.0273	0.9910
0.01	E016	H3K4me1_En	11791	0.9551	0.1241	1.0000
0.01	E026	H3K27ac_Enf	5115	0.9550	0.0538	0.9997
0.001	E115	H3K4me3_Pri	220	0.9548	0.0236	0.7441
0.001	E105	H3K4me1_En	1196	0.9548	0.1284	0.9566
0.001	E004	H3K4me3_Pri	110	0.9543	0.0118	0.6679
0.01	E079	H3K4me1_En	9052	0.9543	0.0953	1.0000
1.00E-04	E110	H3K4me1_En	127	0.9538	0.1218	0.6969
0.001	E100	H3K27ac_Enf	442	0.9538	0.0474	0.8404
0.01	E076	H3K27ac_Enf	7671	0.9538	0.0808	1.0000
0.001	E059	H3K27ac_Enf	489	0.9538	0.0525	0.8542
0.001	E080	H3K4me1_En	941	0.9537	0.1010	0.9367
0.001	E116	H3K27ac_Enf	381	0.9536	0.0409	0.8216
0.001	E018	H3K9ac_Pro	634	0.9536	0.0680	0.8896
0.001	E074	H3K4me1_En	1069	0.9534	0.1147	0.9508
0.01	E078	H3K27ac_Enf	5339	0.9533	0.0562	0.9999
0.01	E083	H3K9ac_Pro	7650	0.9532	0.0805	1.0000
0.001	E041	H3K4me3_Pri	366	0.9531	0.0393	0.8191
0.001	E095	H3K27ac_Enf	546	0.9528	0.0586	0.8742
0.01	E124	H3K9ac_Pro	6046	0.9526	0.0636	1.0000
0.01	E046	H3K27ac_Enf	3046	0.9525	0.0321	0.9970
1.00E-04	E075	H3K9ac_Pro	54	0.9524	0.0518	0.6109
0.01	E095	H3K4me1_En	8950	0.9523	0.0942	1.0000
0.01	E020	H3K4me1_En	11661	0.9521	0.1228	1.0000

0.01	E101	H3K27ac_Enf	6535	0.9513	0.0688	1.0000
0.001	E098	H3K4me1_En	970	0.9508	0.1041	0.9513
0.01	E118	H3K27ac_Enf	3189	0.9506	0.0336	0.9983
0.01	E015	H3K4me1_En	11852	0.9504	0.1248	1.0000
0.001	E025	H3K4me3_Pr	506	0.9504	0.0543	0.8768
0.01	E112	H3K27ac_Enf	3600	0.9500	0.0379	0.9992
0.01	E085	H3K4me1_En	10330	0.9498	0.1087	1.0000
0.001	E112	H3K27ac_Enf	353	0.9497	0.0379	0.8319
1.00E-04	E072	H3K4me3_Pr	47	0.9495	0.0451	0.6069
0.001	E034	H3K27ac_Enf	413	0.9490	0.0443	0.8568
0.001	E073	H3K4me1_En	1094	0.9488	0.1174	0.9679
0.01	E007	H3K27ac_Enf	2892	0.9482	0.0304	0.9982
0.001	E070	H3K4me3_Pr	224	0.9482	0.0240	0.7790
0.001	E122	H3K9ac_Pro	275	0.9481	0.0295	0.8069
0.001	E102	H3K27ac_Enf	564	0.9480	0.0605	0.9023
0.001	E040	H3K4me1_En	797	0.9479	0.0855	0.9422
0.01	E116	H3K27ac_Enf	3861	0.9478	0.0406	0.9997
0.001	E114	H3K4me1_En	978	0.9478	0.1050	0.9616
0.001	E092	H3K4me1_En	1156	0.9476	0.1241	0.9749
0.01	E078	H3K4me1_En	10211	0.9475	0.1075	1.0000
1.00E-04	E118	H3K4me1_En	81	0.9475	0.0777	0.6693
0.001	E056	H3K4me1_En	1455	0.9473	0.1562	0.9881
0.01	E066	H3K4me1_En	9422	0.9473	0.0992	1.0000
0.001	E068	H3K4me1_En	1196	0.9471	0.1284	0.9781
0.01	E014	H3K27ac_Enf	5568	0.9469	0.0586	1.0000
0.001	E021	H3K27ac_Enf	258	0.9465	0.0277	0.8062
0.001	E117	H3K4me3_Pr	402	0.9455	0.0431	0.8702
0.01	E104	H3K4me1_En	8549	0.9454	0.0900	1.0000
1.00E-04	E013	H3K4me1_En	141	0.9453	0.1352	0.7491
0.001	E039	H3K27ac_Enf	471	0.9451	0.0506	0.8924
0.01	E099	H3K27ac_Enf	5027	0.9445	0.0529	1.0000
0.001	E039	H3K4me3_Pr	319	0.9442	0.0342	0.8456
0.01	E076	H3K9ac_Pro	4223	0.9440	0.0445	0.9999
0.01	E127	H3K27ac_Enf	4175	0.9437	0.0440	0.9999
0.01	E118	H3K4me1_En	7346	0.9435	0.0773	1.0000
0.01	E027	H3K4me1_En	12959	0.9433	0.1364	1.0000
0.01	E005	H3K4me1_En	9594	0.9428	0.1010	1.0000
0.01	E083	H3K4me1_En	10123	0.9427	0.1066	1.0000
1.00E-04	E099	H3K4me1_En	109	0.9425	0.1045	0.7252
0.01	E020	H3K9ac_Pro	6242	0.9424	0.0657	1.0000
0.01	E015	H3K27ac_Enf	6387	0.9423	0.0672	1.0000
0.01	E049	H3K27ac_Enf	6508	0.9418	0.0685	1.0000
0.001	E090	H3K27ac_Enf	539	0.9412	0.0579	0.9246

0.001	E108	H3K4me1_En	1150	0.9407	0.1234	0.9869
0.01	E093	H3K27ac_Enf	4808	0.9403	0.0506	1.0000
0.001	E115	H3K4me1_En	545	0.9397	0.0585	0.9315
0.001	E088	H3K9ac_Pro	550	0.9395	0.0590	0.9329
0.01	E127	H3K9ac_Pro	3699	0.9395	0.0389	1.0000
0.01	E005	H3K27ac_Enf	4610	0.9391	0.0485	1.0000
0.001	E059	H3K4me1_En	584	0.9389	0.0627	0.9411
0.001	E099	H3K4me3_Pri	244	0.9388	0.0262	0.8336
0.001	E103	H3K4me3_Pri	408	0.9385	0.0438	0.9021
1.00E-04	E011	H3K4me3_Pri	93	0.9384	0.0892	0.7200
0.001	E047	H3K9ac_Pro	479	0.9383	0.0514	0.9219
1.00E-05	E010	H3K4me1_En	9	0.9383	0.0947	0.4942
0.001	E102	H3K4me1_En	906	0.9379	0.0972	0.9790
0.001	E123	H3K4me3_Pri	241	0.9378	0.0259	0.8361
0.001	E042	H3K4me3_Pri	325	0.9377	0.0349	0.8766
0.001	E044	H3K27ac_Enf	465	0.9374	0.0499	0.9218
0.001	E040	H3K27ac_Enf	388	0.9370	0.0416	0.9017
0.01	E011	H3K4me1_En	12932	0.9367	0.1361	1.0000
0.001	E108	H3K27ac_Enf	669	0.9366	0.0718	0.9603
1.00E-04	E079	H3K4me3_Pri	24	0.9363	0.0230	0.5777
0.01	E013	H3K27ac_Enf	8445	0.9361	0.0889	1.0000
1.00E-04	E012	H3K27ac_Enf	93	0.9360	0.0892	0.7289
0.01	E003	H3K4me1_En	7107	0.9357	0.0748	1.0000
0.01	E012	H3K4me1_En	12557	0.9349	0.1322	1.0000
1.00E-05	E024	H3K4me1_En	13	0.9341	0.1368	0.5345
0.01	E013	H3K4me1_En	12688	0.9340	0.1336	1.0000
0.001	E002	H3K4me3_Pri	463	0.9336	0.0497	0.9340
0.001	E106	H3K27ac_Enf	592	0.9336	0.0635	0.9577
1.00E-05	E026	H3K27ac_Enf	5	0.9335	0.0526	0.4481
0.001	E058	H3K4me3_Pri	245	0.9330	0.0263	0.8580
1.00E-04	E124	H3K4me3_Pri	48	0.9327	0.0460	0.6575
0.01	E004	H3K4me1_En	4110	0.9327	0.0433	1.0000
0.001	E071	H3K27ac_Enf	919	0.9322	0.0986	0.9878
1.00E-05	E083	H3K4me3_Pri	6	0.9321	0.0632	0.4660
0.01	E032	H3K27ac_Enf	3274	0.9321	0.0345	1.0000
0.001	E077	H3K4me1_En	1049	0.9320	0.1126	0.9926
1.00E-05	E111	H3K27ac_Enf	7	0.9320	0.0737	0.4800
0.001	E114	H3K4me3_Pri	401	0.9319	0.0430	0.9235
0.001	E122	H3K4me1_En	560	0.9314	0.0601	0.9583
0.001	E079	H3K4me1_En	866	0.9308	0.0929	0.9870
0.001	E073	H3K27ac_Enf	1054	0.9307	0.1131	0.9937
1.00E-04	E058	H3K4me1_En	125	0.9307	0.1198	0.7913
0.001	E067	H3K4me1_En	1056	0.9302	0.1133	0.9940

0.001	E127	H3K4me1_En	742	0.9301	0.0796	0.9804
1.00E-04	E004	H3K4me3_Pr	12	0.9300	0.0115	0.5268
0.001	E100	H3K4me1_En	686	0.9298	0.0736	0.9764
0.01	E116	H3K4me1_En	5860	0.9289	0.0617	1.0000
1.00E-04	E032	H3K4me3_Pr	17	0.9285	0.0163	0.5610
0.001	E047	H3K27ac_Enf	262	0.9281	0.0281	0.8852
1.00E-05	E106	H3K27ac_Enf	6	0.9279	0.0632	0.4707
0.001	E088	H3K4me1_En	1178	0.9279	0.1264	0.9972
1.00E-04	E094	H3K27ac_Enf	48	0.9279	0.0460	0.6714
0.001	E093	H3K4me1_En	927	0.9276	0.0995	0.9924
0.001	E058	H3K4me1_En	1113	0.9276	0.1195	0.9965
1.00E-04	E047	H3K9ac_Pro	53	0.9274	0.0508	0.6847
0.001	E069	H3K9ac_Pro	474	0.9272	0.0509	0.9538
0.001	E125	H3K9ac_Pro	462	0.9270	0.0496	0.9519
0.001	E002	H3K4me1_En	649	0.9268	0.0697	0.9778
1.00E-04	E061	H3K27ac_Enf	87	0.9268	0.0834	0.7522
0.001	E022	H3K4me1_En	899	0.9264	0.0965	0.9924
0.001	E126	H3K4me1_En	600	0.9261	0.0644	0.9742
1.00E-04	E087	H3K4me3_Pr	15	0.9257	0.0144	0.5542
0.01	E022	H3K27ac_Enf	4044	0.9255	0.0426	1.0000
0.001	E004	H3K27ac_Enf	488	0.9254	0.0524	0.9603
1.00E-04	E101	H3K4me3_Pr	47	0.9252	0.0451	0.6765
0.01	E058	H3K27ac_Enf	7448	0.9246	0.0784	1.0000
0.001	E027	H3K9ac_Pro	863	0.9244	0.0926	0.9926
0.001	E042	H3K4me1_En	757	0.9242	0.0812	0.9885
0.001	E026	H3K4me1_En	907	0.9235	0.0973	0.9945
0.001	E001	H3K4me1_En	1208	0.9235	0.1297	0.9987
0.01	E011	H3K27ac_Enf	8455	0.9233	0.0890	1.0000
0.001	E067	H3K27ac_Enf	939	0.9232	0.1008	0.9954
1.00E-04	E109	H3K4me1_En	102	0.9230	0.0978	0.7885
0.001	E043	H3K27ac_Enf	426	0.9227	0.0457	0.9548
0.001	E036	H3K4me3_Pr	254	0.9226	0.0273	0.8995
0.001	E127	H3K4me3_Pr	330	0.9224	0.0354	0.9306
0.001	E068	H3K9ac_Pro	778	0.9223	0.0835	0.9911
0.001	E090	H3K4me1_En	1016	0.9222	0.1090	0.9971
0.001	E062	H3K4me1_En	421	0.9221	0.0452	0.9551
0.001	E017	H3K9ac_Pro	402	0.9208	0.0431	0.9540
1.00E-04	E106	H3K4me1_En	54	0.9207	0.0518	0.7067
0.001	E123	H3K27ac_Enf	252	0.9201	0.0270	0.9065
0.001	E038	H3K9ac_Pro	605	0.9199	0.0649	0.9834
0.01	E008	H3K4me1_En	4257	0.9196	0.0448	1.0000
0.001	E103	H3K4me1_En	629	0.9192	0.0675	0.9861
0.001	E111	H3K27ac_Enf	677	0.9191	0.0727	0.9891

1.00E-04	E002	H3K4me3_Pr	51	0.9186	0.0489	0.7054
1.00E-05	E017	H3K27ac_Enf	5	0.9184	0.0526	0.4638
1.00E-04	E018	H3K4me1_En	129	0.9182	0.1237	0.8406
1.00E-04	E007	H3K4me1_En	86	0.9180	0.0825	0.7798
1.00E-04	E118	H3K9ac_Pro	30	0.9179	0.0288	0.6420
0.001	E051	H3K4me3_Pr	332	0.9178	0.0356	0.9431
0.001	E037	H3K4me1_En	796	0.9174	0.0854	0.9949
0.001	E074	H3K9ac_Pro	442	0.9164	0.0474	0.9700
0.001	E033	H3K4me3_Pr	195	0.9162	0.0209	0.8863
1.00E-04	E110	H3K4me3_Pr	40	0.9154	0.0384	0.6831
0.001	E044	H3K4me3_Pr	278	0.9152	0.0298	0.9312
1.00E-04	E011	H3K27ac_Enf	92	0.9150	0.0882	0.7996
0.001	E069	H3K27ac_Enf	986	0.9149	0.1058	0.9986
0.01	E012	H3K27ac_Enf	8278	0.9147	0.0871	1.0000
0.001	E101	H3K4me1_En	866	0.9141	0.0929	0.9975
0.001	E115	H3K9ac_Pro	281	0.9140	0.0302	0.9352
0.001	E123	H3K9ac_Pro	236	0.9135	0.0253	0.9174
0.001	E122	H3K27ac_Enf	321	0.9130	0.0345	0.9506
1.00E-04	E026	H3K4me3_Pr	37	0.9125	0.0355	0.6805
1.00E-05	E072	H3K4me1_En	7	0.9123	0.0737	0.5047
1.00E-04	E077	H3K4me3_Pr	47	0.9116	0.0451	0.7141
0.001	E023	H3K9ac_Pro	640	0.9111	0.0687	0.9931
0.001	E128	H3K4me1_En	563	0.9108	0.0604	0.9893
0.001	E047	H3K4me3_Pr	229	0.9106	0.0246	0.9215
0.001	E001	H3K4me3_Pr	400	0.9106	0.0429	0.9722
1.00E-04	E057	H3K4me1_En	83	0.9105	0.0796	0.7983
0.001	E061	H3K4me1_En	1120	0.9103	0.1202	0.9997
0.001	E052	H3K4me1_En	863	0.9102	0.0926	0.9983
0.001	E057	H3K4me1_En	741	0.9099	0.0795	0.9966
0.001	E010	H3K4me1_En	856	0.9099	0.0919	0.9983
0.001	E101	H3K9ac_Pro	462	0.9097	0.0496	0.9818
0.001	E025	H3K9ac_Pro	646	0.9094	0.0693	0.9942
0.001	E072	H3K9ac_Pro	720	0.9094	0.0773	0.9963
1.00E-04	E005	H3K27ac_Enf	49	0.9091	0.0470	0.7265
0.001	E046	H3K4me3_Pr	142	0.9089	0.0152	0.8668
0.001	E112	H3K4me1_En	462	0.9086	0.0496	0.9830
0.001	E107	H3K4me1_En	796	0.9084	0.0854	0.9979
0.001	E014	H3K4me1_En	1147	0.9080	0.1231	0.9998
0.001	E109	H3K4me1_En	896	0.9077	0.0962	0.9990
0.001	E111	H3K4me1_En	922	0.9074	0.0990	0.9992
0.001	E004	H3K4me1_En	392	0.9070	0.0421	0.9760
1.00E-04	E023	H3K4me1_En	126	0.9064	0.1208	0.8736
0.001	E042	H3K27ac_Enf	365	0.9063	0.0392	0.9725

0.001	E015	H3K9ac_Pro	477	0.9062	0.0512	0.9868
0.001	E124	H3K27ac_Enf	866	0.9060	0.0929	0.9990
0.001	E018	H3K4me1_En	1137	0.9060	0.1220	0.9998
0.001	E077	H3K9ac_Pro	451	0.9055	0.0484	0.9850
0.001	E089	H3K4me3_Pr	136	0.9054	0.0146	0.8712
0.001	E063	H3K27ac_Enf	729	0.9048	0.0782	0.9978
0.001	E087	H3K4me1_En	816	0.9048	0.0876	0.9988
1.00E-05	E096	H3K4me1_En	10	0.9047	0.1053	0.5542
0.001	E125	H3K27ac_Enf	485	0.9041	0.0521	0.9891
0.001	E101	H3K27ac_Enf	609	0.9038	0.0654	0.9954
0.001	E123	H3K4me1_En	578	0.9034	0.0620	0.9945
1.00E-04	E034	H3K27ac_Enf	44	0.9032	0.0422	0.7274
0.001	E051	H3K4me1_En	709	0.9019	0.0761	0.9981
0.001	E085	H3K27ac_Enf	482	0.9016	0.0517	0.9907
0.001	E094	H3K4me3_Pr	345	0.9015	0.0370	0.9753
0.001	E108	H3K9ac_Pro	537	0.9012	0.0576	0.9939
0.001	E103	H3K27ac_Enf	514	0.9011	0.0552	0.9928
0.001	E063	H3K4me3_Pr	396	0.9011	0.0425	0.9833
0.001	E011	H3K4me1_En	1220	0.9009	0.1309	1.0000
1.00E-04	E074	H3K4me1_En	113	0.9003	0.1083	0.8744
0.001	E087	H3K27ac_Enf	274	0.9002	0.0294	0.9609
0.001	E075	H3K4me3_Pr	339	0.9000	0.0364	0.9760
0.001	E121	H3K4me1_En	944	0.8998	0.1013	0.9997
1.00E-05	E058	H3K4me1_En	11	0.8991	0.1158	0.5745
1.00E-05	E017	H3K9ac_Pro	4	0.8986	0.0421	0.4607
0.001	E111	H3K4me3_Pr	412	0.8984	0.0442	0.9874
1.00E-04	E052	H3K9ac_Pro	46	0.8983	0.0441	0.7462
0.001	E116	H3K9ac_Pro	239	0.8978	0.0257	0.9534
0.001	E001	H3K9ac_Pro	321	0.8977	0.0345	0.9756
1.00E-05	E028	H3K4me1_En	11	0.8974	0.1158	0.5773
1.00E-04	E110	H3K9ac_Pro	64	0.8970	0.0614	0.7982
0.001	E087	H3K9ac_Pro	164	0.8964	0.0176	0.9176
0.001	E007	H3K4me1_En	750	0.8962	0.0805	0.9992
0.001	E014	H3K4me3_Pr	378	0.8958	0.0406	0.9859
0.001	E054	H3K4me3_Pr	214	0.8957	0.0230	0.9471
0.001	E109	H3K4me3_Pr	232	0.8957	0.0249	0.9545
1.00E-05	E121	H3K27ac_Enf	5	0.8957	0.0526	0.4881
0.001	E055	H3K27ac_Enf	1034	0.8956	0.1110	0.9999
0.001	E063	H3K4me1_En	1078	0.8954	0.1157	1.0000
0.001	E110	H3K4me1_En	1065	0.8954	0.1143	1.0000
1.00E-05	E107	H3K4me1_En	8	0.8954	0.0842	0.5419
0.001	E038	H3K27ac_Enf	309	0.8953	0.0332	0.9762
0.001	E026	H3K4me3_Pr	324	0.8945	0.0348	0.9797

0.001	E036	H3K4me1_En	723	0.8942	0.0776	0.9993
0.001	E089	H3K27ac_Enf	500	0.8940	0.0537	0.9953
0.001	E120	H3K27ac_Enf	312	0.8937	0.0335	0.9785
0.001	E129	H3K4me3_Pr	321	0.8929	0.0345	0.9808
1.00E-05	E063	H3K4me3_Pr	4	0.8926	0.0421	0.4665
0.001	E084	H3K27ac_Enf	467	0.8926	0.0501	0.9945
0.001	E129	H3K27ac_Enf	688	0.8925	0.0738	0.9992
0.001	E092	H3K27ac_Enf	519	0.8920	0.0557	0.9966
0.001	E120	H3K4me1_En	627	0.8914	0.0673	0.9987
0.001	E121	H3K27ac_Enf	488	0.8914	0.0524	0.9958
0.001	E045	H3K4me3_Pr	289	0.8913	0.0310	0.9767
0.001	E119	H3K4me1_En	626	0.8908	0.0672	0.9988
0.001	E068	H3K27ac_Enf	975	0.8906	0.1046	1.0000
0.001	E025	H3K4me1_En	1179	0.8906	0.1265	1.0000
1.00E-05	E129	H3K27ac_Enf	7	0.8906	0.0737	0.5326
0.001	E116	H3K4me1_En	551	0.8905	0.0591	0.9978
1.00E-04	E009	H3K4me3_Pr	18	0.8902	0.0173	0.6388
0.001	E124	H3K9ac_Pro	554	0.8900	0.0595	0.9979
1.00E-04	E068	H3K4me3_Pr	47	0.8900	0.0451	0.7706
0.001	E005	H3K4me1_En	888	0.8897	0.0953	0.9999
0.001	E099	H3K4me1_En	919	0.8896	0.0986	0.9999
0.001	E041	H3K27ac_Enf	632	0.8894	0.0678	0.9990
0.001	E121	H3K9ac_Pro	441	0.8892	0.0473	0.9946
0.001	E059	H3K4me3_Pr	296	0.8886	0.0318	0.9808
0.001	E085	H3K4me1_En	947	0.8877	0.1016	1.0000
1.00E-04	E085	H3K4me1_En	106	0.8876	0.1016	0.8970
0.001	E127	H3K27ac_Enf	385	0.8873	0.0413	0.9922
1.00E-05	E072	H3K4me3_Pr	4	0.8872	0.0421	0.4719
0.001	E111	H3K9ac_Pro	374	0.8870	0.0401	0.9915
0.001	E078	H3K4me3_Pr	450	0.8870	0.0483	0.9958
0.001	E045	H3K27ac_Enf	367	0.8869	0.0394	0.9910
0.001	E028	H3K4me1_En	1066	0.8868	0.1144	1.0000
1.00E-04	E118	H3K4me3_Pr	26	0.8868	0.0249	0.6938
0.001	E018	H3K4me3_Pr	343	0.8867	0.0368	0.9888
1.00E-04	E047	H3K27ac_Enf	28	0.8860	0.0268	0.7057
0.001	E019	H3K4me3_Pr	337	0.8855	0.0362	0.9890
1.00E-05	E018	H3K9ac_Pro	6	0.8851	0.0632	0.5213
1.00E-04	E053	H3K4me3_Pr	18	0.8851	0.0173	0.6484
0.001	E061	H3K4me3_Pr	176	0.8844	0.0189	0.9487
0.001	E049	H3K4me1_En	982	0.8841	0.1054	1.0000
0.001	E020	H3K4me1_En	1061	0.8832	0.1139	1.0000
0.001	E083	H3K9ac_Pro	695	0.8829	0.0746	0.9997
0.001	E020	H3K27ac_Enf	668	0.8827	0.0717	0.9997

1.00E-04	E126	H3K4me1_En	64	0.8824	0.0614	0.8356
0.001	E126	H3K27ac_Enf	312	0.8821	0.0335	0.9883
0.001	E078	H3K27ac_Enf	484	0.8811	0.0519	0.9981
0.001	E019	H3K27ac_Enf	226	0.8801	0.0243	0.9741
0.001	E062	H3K27ac_Enf	211	0.8792	0.0226	0.9707
0.001	E107	H3K9ac_Pro	668	0.8786	0.0717	0.9998
0.001	E065	H3K27ac_Enf	344	0.8782	0.0369	0.9934
0.001	E015	H3K4me1_En	1074	0.8781	0.1153	1.0000
0.001	E095	H3K4me1_En	809	0.8777	0.0868	1.0000
0.001	E076	H3K9ac_Pro	385	0.8775	0.0413	0.9960
1.00E-05	E062	H3K9ac_Pro	7	0.8772	0.0737	0.5503
0.001	E119	H3K9ac_Pro	324	0.8768	0.0348	0.9925
0.001	E023	H3K4me3_Pri	477	0.8763	0.0512	0.9987
0.001	E015	H3K4me3_Pri	306	0.8759	0.0328	0.9913
1.00E-04	E022	H3K27ac_Enf	42	0.8754	0.0403	0.7887
0.001	E050	H3K4me3_Pri	258	0.8744	0.0277	0.9861
0.001	E116	H3K4me3_Pri	290	0.8744	0.0311	0.9904
0.001	E065	H3K4me1_En	558	0.8743	0.0599	0.9996
1.00E-04	E127	H3K4me1_En	78	0.8734	0.0748	0.8855
0.001	E024	H3K4me1_En	1192	0.8733	0.1279	1.0000
0.001	E072	H3K27ac_Enf	1010	0.8725	0.1084	1.0000
0.001	E065	H3K4me3_Pri	134	0.8722	0.0144	0.9426
1.00E-04	E065	H3K4me3_Pri	15	0.8721	0.0144	0.6480
0.001	E114	H3K9ac_Pro	359	0.8715	0.0385	0.9964
0.001	E027	H3K4me1_En	1174	0.8713	0.1260	1.0000
1.00E-05	E052	H3K4me3_Pri	3	0.8713	0.0316	0.4528
0.001	E114	H3K27ac_Enf	406	0.8710	0.0436	0.9981
0.001	E026	H3K27ac_Enf	457	0.8699	0.0491	0.9990
1.00E-04	E129	H3K4me3_Pri	35	0.8697	0.0336	0.7740
0.001	E012	H3K4me1_En	1145	0.8692	0.1229	1.0000
0.001	E023	H3K4me1_En	1079	0.8689	0.1158	1.0000
0.001	E084	H3K4me1_En	865	0.8685	0.0928	1.0000
0.001	E037	H3K4me3_Pri	260	0.8685	0.0279	0.9900
1.00E-04	E004	H3K4me1_En	42	0.8681	0.0403	0.8053
0.001	E008	H3K4me3_Pri	220	0.8678	0.0236	0.9838
0.001	E049	H3K27ac_Enf	588	0.8675	0.0631	0.9999
1.00E-04	E026	H3K27ac_Enf	51	0.8672	0.0489	0.8367
0.001	E086	H3K9ac_Pro	150	0.8669	0.0161	0.9604
0.001	E067	H3K9ac_Pro	611	0.8668	0.0656	0.9999
1.00E-04	E088	H3K4me3_Pri	36	0.8660	0.0345	0.7864
0.001	E035	H3K4me3_Pri	173	0.8658	0.0186	0.9721
0.001	E016	H3K4me1_En	1048	0.8655	0.1125	1.0000
0.001	E057	H3K4me3_Pri	198	0.8641	0.0213	0.9815

1.00E-04	E024	H3K4me1_En	132	0.8639	0.1266	0.9641
0.001	E013	H3K4me1_En	1151	0.8638	0.1235	1.0000
0.001	E054	H3K4me1_En	641	0.8635	0.0688	1.0000
0.001	E110	H3K9ac_Pro	550	0.8629	0.0590	0.9999
0.001	E106	H3K4me3_Pr	283	0.8619	0.0304	0.9949
0.001	E119	H3K27ac_Enf	350	0.8618	0.0376	0.9980
0.001	E014	H3K27ac_Enf	497	0.8617	0.0533	0.9997
1.00E-04	E117	H3K4me3_Pr	41	0.8614	0.0393	0.8162
1.00E-04	E077	H3K9ac_Pro	48	0.8609	0.0460	0.8412
1.00E-05	E127	H3K4me1_En	7	0.8606	0.0737	0.5726
1.00E-04	E054	H3K4me3_Pr	23	0.8599	0.0221	0.7315
0.001	E128	H3K27ac_Enf	355	0.8593	0.0381	0.9985
0.001	E063	H3K9ac_Pro	666	0.8573	0.0715	1.0000
0.001	E017	H3K4me3_Pr	135	0.8562	0.0145	0.9649
0.001	E009	H3K4me1_En	737	0.8562	0.0791	1.0000
0.001	E050	H3K4me1_En	825	0.8546	0.0885	1.0000
1.00E-04	E075	H3K4me3_Pr	36	0.8538	0.0345	0.8122
0.001	E019	H3K4me1_En	793	0.8537	0.0851	1.0000
0.001	E010	H3K4me3_Pr	153	0.8534	0.0164	0.9762
0.001	E118	H3K9ac_Pro	249	0.8529	0.0267	0.9950
1.00E-04	E020	H3K9ac_Pro	62	0.8525	0.0594	0.8951
1.00E-05	E097	H3K27ac_Enf	4	0.8524	0.0421	0.5072
0.001	E084	H3K4me3_Pr	158	0.8516	0.0170	0.9795
1.00E-04	E119	H3K4me1_En	67	0.8516	0.0642	0.9071
0.001	E053	H3K4me1_En	729	0.8512	0.0782	1.0000
0.001	E026	H3K9ac_Pro	340	0.8512	0.0365	0.9990
0.001	E104	H3K4me3_Pr	174	0.8511	0.0187	0.9846
0.001	E095	H3K4me3_Pr	135	0.8503	0.0145	0.9711
1.00E-04	E017	H3K4me3_Pr	15	0.8498	0.0144	0.6870
1.00E-05	E088	H3K4me1_En	11	0.8498	0.1158	0.6559
1.00E-04	E080	H3K4me3_Pr	15	0.8493	0.0144	0.6879
0.001	E013	H3K27ac_Enf	751	0.8488	0.0806	1.0000
0.001	E020	H3K4me3_Pr	406	0.8483	0.0436	0.9997
1.00E-04	E050	H3K4me3_Pr	28	0.8477	0.0268	0.7857
0.001	E052	H3K4me3_Pr	286	0.8469	0.0307	0.9981
0.001	E085	H3K4me3_Pr	172	0.8469	0.0185	0.9866
0.001	E090	H3K4me3_Pr	136	0.8461	0.0146	0.9754
0.001	E102	H3K9ac_Pro	424	0.8460	0.0455	0.9998
0.001	E126	H3K9ac_Pro	172	0.8458	0.0185	0.9873
0.001	E122	H3K4me3_Pr	152	0.8458	0.0163	0.9818
1.00E-04	E008	H3K4me3_Pr	24	0.8456	0.0230	0.7658
1.00E-05	E006	H3K9ac_Pro	4	0.8448	0.0421	0.5153
0.001	E003	H3K4me1_En	629	0.8444	0.0675	1.0000

0.001	E037	H3K27ac_Enf	445	0.8442	0.0478	0.9999
1.00E-04	E021	H3K4me3_Pr	15	0.8441	0.0144	0.6969
0.001	E094	H3K27ac_Enf	390	0.8440	0.0419	0.9998
0.001	E003	H3K9ac_Pro	298	0.8437	0.0320	0.9988
0.001	E014	H3K9ac_Pro	325	0.8437	0.0349	0.9993
1.00E-04	E036	H3K4me3_Pr	26	0.8436	0.0249	0.7821
1.00E-04	E025	H3K4me1_En	125	0.8435	0.1198	0.9797
0.001	E075	H3K9ac_Pro	427	0.8431	0.0458	0.9999
1.00E-04	E084	H3K4me1_En	94	0.8431	0.0901	0.9582
1.00E-04	E025	H3K9ac_Pro	67	0.8426	0.0642	0.9222
1.00E-04	E103	H3K9ac_Pro	38	0.8419	0.0364	0.8441
0.001	E003	H3K4me3_Pr	169	0.8418	0.0181	0.9887
0.001	E120	H3K9ac_Pro	188	0.8411	0.0202	0.9923
0.001	E079	H3K27ac_Enf	500	0.8394	0.0537	1.0000
0.001	E005	H3K27ac_Enf	404	0.8391	0.0434	0.9999
0.001	E062	H3K4me3_Pr	163	0.8390	0.0175	0.9887
0.001	E003	H3K27ac_Enf	456	0.8377	0.0489	1.0000
0.001	E099	H3K27ac_Enf	437	0.8371	0.0469	1.0000
0.001	E080	H3K4me3_Pr	132	0.8367	0.0142	0.9809
1.00E-04	E085	H3K4me3_Pr	19	0.8357	0.0182	0.7479
0.001	E013	H3K4me3_Pr	159	0.8356	0.0171	0.9895
0.001	E083	H3K4me1_En	880	0.8355	0.0945	1.0000
1.00E-04	E103	H3K4me1_En	64	0.8354	0.0614	0.9274
0.001	E016	H3K4me3_Pr	266	0.8352	0.0285	0.9988
1.00E-04	E019	H3K27ac_Enf	24	0.8349	0.0230	0.7861
0.001	E021	H3K4me1_En	577	0.8344	0.0619	1.0000
1.00E-04	E090	H3K4me3_Pr	15	0.8336	0.0144	0.7149
0.001	E118	H3K4me1_En	636	0.8328	0.0683	1.0000
1.00E-04	E089	H3K4me3_Pr	14	0.8325	0.0134	0.7061
0.001	E061	H3K27ac_Enf	698	0.8324	0.0749	1.0000
0.001	E021	H3K4me3_Pr	132	0.8315	0.0142	0.9842
0.001	E022	H3K27ac_Enf	356	0.8307	0.0382	0.9999
0.001	E011	H3K27ac_Enf	746	0.8306	0.0801	1.0000
1.00E-04	E033	H3K4me1_En	39	0.8298	0.0374	0.8699
0.001	E049	H3K9ac_Pro	494	0.8283	0.0530	1.0000
1.00E-05	E006	H3K27ac_Enf	4	0.8279	0.0421	0.5334
0.001	E019	H3K9ac_Pro	359	0.8274	0.0385	0.9999
1.00E-04	E050	H3K27ac_Enf	61	0.8273	0.0585	0.9333
0.001	E112	H3K4me3_Pr	152	0.8269	0.0163	0.9916
0.001	E050	H3K27ac_Enf	544	0.8259	0.0584	1.0000
0.001	E015	H3K27ac_Enf	549	0.8258	0.0589	1.0000
1.00E-04	E102	H3K27ac_Enf	55	0.8258	0.0527	0.9231
0.001	E118	H3K4me3_Pr	216	0.8247	0.0232	0.9983

0.001	E048	H3K4me3_Pr	267	0.8243	0.0287	0.9995
1.00E-05	E102	H3K27ac_Enf	5	0.8242	0.0526	0.5705
1.00E-05	E096	H3K4me3_Pr	3	0.8236	0.0316	0.4964
0.001	E128	H3K4me3_Pr	130	0.8230	0.0140	0.9880
1.00E-05	E127	H3K4me3_Pr	3	0.8224	0.0316	0.4976
0.001	E087	H3K4me3_Pr	119	0.8221	0.0128	0.9849
1.00E-04	E128	H3K27ac_Enf	38	0.8217	0.0364	0.8800
0.001	E048	H3K27ac_Enf	336	0.8216	0.0361	0.9999
0.001	E062	H3K9ac_Pro	642	0.8203	0.0689	1.0000
1.00E-04	E017	H3K27ac_Enf	49	0.8198	0.0470	0.9174
1.00E-04	E091	H3K4me3_Pr	13	0.8197	0.0125	0.7157
1.00E-04	E001	H3K4me1_En	120	0.8194	0.1151	0.9909
0.001	E012	H3K4me3_Pr	192	0.8189	0.0206	0.9978
1.00E-05	E061	H3K27ac_Enf	7	0.8187	0.0737	0.6303
1.00E-04	E015	H3K4me1_En	112	0.8179	0.1074	0.9890
0.001	E118	H3K27ac_Enf	269	0.8175	0.0289	0.9997
1.00E-05	E097	H3K4me1_En	7	0.8173	0.0737	0.6323
0.001	E016	H3K27ac_Enf	433	0.8151	0.0465	1.0000
0.001	E121	H3K4me3_Pr	296	0.8151	0.0318	0.9999
1.00E-05	E025	H3K4me1_En	11	0.8149	0.1158	0.7134
1.00E-04	E041	H3K4me3_Pr	35	0.8142	0.0336	0.8804
0.001	E128	H3K9ac_Pro	155	0.8139	0.0166	0.9957
1.00E-05	E074	H3K9ac_Pro	4	0.8133	0.0421	0.5494
0.001	E052	H3K9ac_Pro	372	0.8133	0.0399	1.0000
0.001	E093	H3K27ac_Enf	406	0.8096	0.0436	1.0000
1.00E-04	E101	H3K9ac_Pro	46	0.8091	0.0441	0.9243
1.00E-04	E101	H3K27ac_Enf	61	0.8087	0.0585	0.9553
1.00E-04	E061	H3K4me3_Pr	18	0.8080	0.0173	0.7875
0.001	E029	H3K4me3_Pr	94	0.8067	0.0101	0.9824
1.00E-05	E007	H3K4me3_Pr	3	0.8066	0.0316	0.5129
1.00E-04	E014	H3K4me1_En	114	0.8061	0.1093	0.9937
0.001	E103	H3K9ac_Pro	325	0.8060	0.0349	1.0000
1.00E-05	E066	H3K4me1_En	8	0.8043	0.0842	0.6735
1.00E-04	E003	H3K4me1_En	67	0.8034	0.0642	0.9682
0.001	E012	H3K27ac_Enf	713	0.8033	0.0765	1.0000
1.00E-04	E019	H3K9ac_Pro	39	0.8029	0.0374	0.9119
1.00E-04	E005	H3K9ac_Pro	24	0.8028	0.0230	0.8419
0.001	E127	H3K9ac_Pro	310	0.8027	0.0333	1.0000
1.00E-04	E102	H3K9ac_Pro	45	0.8021	0.0431	0.9308
0.001	E022	H3K4me3_Pr	205	0.8013	0.0220	0.9995
1.00E-04	E012	H3K4me3_Pr	21	0.8001	0.0201	0.8254
1.00E-04	E125	H3K27ac_Enf	48	0.7993	0.0460	0.9413
1.00E-04	E009	H3K4me1_En	77	0.7991	0.0738	0.9806

0.001	E028	H3K4me3_Pr	192	0.7951	0.0206	0.9995
0.001	E002	H3K9ac_Pro	57	0.7937	0.0061	0.9588
0.001	E004	H3K9ac_Pro	277	0.7936	0.0297	1.0000
0.001	E092	H3K4me3_Pr	136	0.7917	0.0146	0.9975
0.001	E070	H3K4me1_En	455	0.7911	0.0488	1.0000
0.001	E016	H3K9ac_Pro	345	0.7899	0.0370	1.0000
1.00E-05	E023	H3K4me1_En	10	0.7898	0.1053	0.7358
0.001	E008	H3K4me1_En	358	0.7885	0.0384	1.0000
1.00E-05	E059	H3K4me1_En	5	0.7884	0.0526	0.6146
1.00E-05	E124	H3K9ac_Pro	5	0.7878	0.0526	0.6154
1.00E-05	E039	H3K27ac_Enf	4	0.7872	0.0421	0.5788
1.00E-04	E114	H3K27ac_Enf	41	0.7857	0.0393	0.9393
0.001	E007	H3K27ac_Enf	235	0.7856	0.0252	0.9999
1.00E-04	E117	H3K4me1_En	74	0.7842	0.0709	0.9862
1.00E-04	E126	H3K27ac_Enf	31	0.7830	0.0297	0.9086
0.001	E005	H3K9ac_Pro	209	0.7827	0.0224	0.9999
0.001	E093	H3K4me3_Pr	150	0.7821	0.0161	0.9991
1.00E-05	E046	H3K4me1_En	6	0.7810	0.0632	0.6557
1.00E-04	E114	H3K9ac_Pro	36	0.7806	0.0345	0.9302
1.00E-04	E041	H3K27ac_Enf	62	0.7794	0.0594	0.9795
1.00E-04	E020	H3K27ac_Enf	66	0.7791	0.0633	0.9831
0.001	E020	H3K9ac_Pro	506	0.7789	0.0543	1.0000
0.001	E119	H3K4me3_Pr	140	0.7781	0.0150	0.9989
1.00E-04	E006	H3K27ac_Enf	41	0.7729	0.0393	0.9522
1.00E-05	E091	H3K4me1_En	7	0.7710	0.0737	0.6973
1.00E-05	E069	H3K4me1_En	9	0.7709	0.0947	0.7446
1.00E-04	E074	H3K4me3_Pr	39	0.7708	0.0374	0.9493
1.00E-05	E098	H3K4me1_En	8	0.7690	0.0842	0.7251
1.00E-04	E103	H3K27ac_Enf	49	0.7674	0.0470	0.9717
1.00E-04	E097	H3K4me3_Pr	16	0.7672	0.0153	0.8320
1.00E-04	E015	H3K27ac_Enf	57	0.7659	0.0547	0.9820
0.001	E058	H3K27ac_Enf	605	0.7657	0.0649	1.0000
1.00E-04	E026	H3K9ac_Pro	34	0.7603	0.0326	0.9452
1.00E-04	E010	H3K4me1_En	80	0.7596	0.0767	0.9958
1.00E-04	E003	H3K4me3_Pr	17	0.7564	0.0163	0.8571
1.00E-05	E109	H3K27ac_Enf	5	0.7562	0.0526	0.6553
1.00E-05	E020	H3K9ac_Pro	5	0.7548	0.0526	0.6571
1.00E-04	E013	H3K4me3_Pr	16	0.7511	0.0153	0.8548
1.00E-04	E119	H3K9ac_Pro	31	0.7494	0.0297	0.9459
1.00E-05	E106	H3K4me1_En	4	0.7488	0.0421	0.6237
1.00E-04	E010	H3K4me3_Pr	15	0.7474	0.0144	0.8496
1.00E-04	E002	H3K9ac_Pro	6	0.7464	0.0058	0.6923
1.00E-04	E054	H3K4me1_En	62	0.7461	0.0594	0.9926

1.00E-05	E038	H3K9ac_Pro	5	0.7456	0.0526	0.6688
1.00E-04	E015	H3K4me3_Pr	29	0.7415	0.0278	0.9461
1.00E-04	E053	H3K4me1_En	71	0.7405	0.0681	0.9966
1.00E-04	E028	H3K4me3_Pr	20	0.7399	0.0192	0.9025
1.00E-04	E078	H3K4me3_Pr	42	0.7395	0.0403	0.9781
1.00E-05	E026	H3K9ac_Pro	3	0.7366	0.0316	0.5852
1.00E-04	E062	H3K4me3_Pr	16	0.7357	0.0153	0.8751
1.00E-04	E125	H3K9ac_Pro	41	0.7349	0.0393	0.9790
1.00E-04	E079	H3K27ac_Enf	49	0.7348	0.0470	0.9879
1.00E-04	E081	H3K4me3_Pr	8	0.7344	0.0077	0.7598
1.00E-04	E084	H3K27ac_Enf	43	0.7342	0.0412	0.9820
1.00E-04	E105	H3K4me3_Pr	20	0.7328	0.0192	0.9107
1.00E-04	E020	H3K4me1_En	98	0.7287	0.0940	0.9997
1.00E-04	E092	H3K4me3_Pr	14	0.7280	0.0134	0.8640
1.00E-05	E101	H3K27ac_Enf	5	0.7278	0.0526	0.6917
1.00E-05	E023	H3K4me3_Pr	4	0.7207	0.0421	0.6574
1.00E-04	E038	H3K9ac_Pro	53	0.7199	0.0508	0.9943
1.00E-04	E103	H3K4me3_Pr	35	0.7192	0.0336	0.9774
1.00E-05	E068	H3K27ac_Enf	8	0.7167	0.0842	0.7988
1.00E-04	E014	H3K27ac_Enf	46	0.7125	0.0441	0.9922
1.00E-04	E045	H3K27ac_Enf	33	0.7124	0.0316	0.9772
1.00E-05	E021	H3K4me1_En	5	0.7091	0.0526	0.7158
1.00E-04	E016	H3K27ac_Enf	42	0.7063	0.0403	0.9909
1.00E-04	E119	H3K27ac_Enf	32	0.7038	0.0307	0.9795
1.00E-04	E099	H3K27ac_Enf	41	0.7016	0.0393	0.9913
1.00E-05	E069	H3K4me3_Pr	3	0.7012	0.0316	0.6243
1.00E-04	E016	H3K4me1_En	95	0.7009	0.0911	0.9999
1.00E-05	E108	H3K4me3_Pr	3	0.7002	0.0316	0.6254
1.00E-04	E001	H3K9ac_Pro	28	0.6995	0.0268	0.9732
1.00E-04	E104	H3K4me3_Pr	16	0.6991	0.0153	0.9168
1.00E-04	E093	H3K4me3_Pr	15	0.6986	0.0144	0.9086
1.00E-04	E022	H3K4me3_Pr	20	0.6983	0.0192	0.9443
1.00E-05	E023	H3K9ac_Pro	5	0.6981	0.0526	0.7299
1.00E-04	E031	H3K4me3_Pr	13	0.6968	0.0125	0.8901
1.00E-04	E014	H3K9ac_Pro	30	0.6957	0.0288	0.9795
1.00E-04	E123	H3K4me3_Pr	20	0.6952	0.0192	0.9468
1.00E-05	E073	H3K27ac_Enf	8	0.6928	0.0842	0.8302
1.00E-04	E076	H3K4me3_Pr	39	0.6920	0.0374	0.9921
1.00E-04	E042	H3K27ac_Enf	31	0.6876	0.0297	0.9846
1.00E-04	E007	H3K27ac_Enf	23	0.6868	0.0221	0.9658
1.00E-04	E114	H3K4me3_Pr	33	0.6851	0.0316	0.9881
1.00E-05	E009	H3K4me1_En	6	0.6836	0.0632	0.7853
1.00E-05	E072	H3K27ac_Enf	8	0.6778	0.0842	0.8490

1.00E-04	E093	H3K27ac_Enh	38	0.6769	0.0364	0.9944
1.00E-05	E103	H3K4me3_Pri	3	0.6768	0.0316	0.6521
1.00E-04	E044	H3K4me3_Pri	23	0.6764	0.0221	0.9718
1.00E-05	E067	H3K27ac_Enh	7	0.6749	0.0737	0.8268
1.00E-04	E033	H3K4me3_Pri	16	0.6715	0.0153	0.9419
1.00E-04	E117	H3K9ac_Pro	34	0.6709	0.0326	0.9927
1.00E-04	E123	H3K4me1_Enh	48	0.6702	0.0460	0.9985
1.00E-04	E008	H3K4me1_Enh	34	0.6689	0.0326	0.9931
1.00E-04	E117	H3K27ac_Enh	34	0.6653	0.0326	0.9938
1.00E-05	E079	H3K27ac_Enh	4	0.6585	0.0421	0.7337
1.00E-05	E049	H3K9ac_Pro	4	0.6578	0.0421	0.7346
1.00E-04	E003	H3K9ac_Pro	26	0.6576	0.0249	0.9867
1.00E-04	E123	H3K9ac_Pro	19	0.6570	0.0182	0.9681
1.00E-05	E086	H3K4me1_Enh	3	0.6567	0.0316	0.6754
1.00E-04	E021	H3K27ac_Enh	20	0.6554	0.0192	0.9728
1.00E-04	E043	H3K4me3_Pri	22	0.6553	0.0211	0.9790
1.00E-04	E109	H3K4me3_Pri	19	0.6553	0.0182	0.9691
1.00E-05	E020	H3K4me1_Enh	8	0.6531	0.0842	0.8778
1.00E-05	E080	H3K27ac_Enh	5	0.6510	0.0526	0.7892
1.00E-05	E074	H3K4me3_Pri	3	0.6510	0.0316	0.6822
1.00E-05	E078	H3K4me1_Enh	7	0.6495	0.0737	0.8575
1.00E-05	E071	H3K4me1_Enh	9	0.6480	0.0947	0.9035
1.00E-04	E122	H3K4me3_Pri	13	0.6462	0.0125	0.9388
1.00E-04	E019	H3K4me1_Enh	67	0.6443	0.0642	1.0000
1.00E-04	E070	H3K4me3_Pri	17	0.6429	0.0163	0.9673
1.00E-04	E034	H3K4me3_Pri	14	0.6405	0.0134	0.9511
1.00E-04	E070	H3K4me1_Enh	41	0.6368	0.0393	0.9991
1.00E-05	E066	H3K4me3_Pri	3	0.6360	0.0316	0.6998
1.00E-04	E006	H3K9ac_Pro	33	0.6348	0.0316	0.9973
1.00E-04	E048	H3K4me3_Pri	23	0.6343	0.0221	0.9885
1.00E-04	E021	H3K4me1_Enh	49	0.6330	0.0470	0.9998
1.00E-05	E073	H3K9ac_Pro	3	0.6317	0.0316	0.7049
1.00E-04	E040	H3K4me3_Pri	27	0.6306	0.0259	0.9942
1.00E-04	E037	H3K4me3_Pri	21	0.6266	0.0201	0.9869
1.00E-04	E035	H3K4me3_Pri	14	0.6259	0.0134	0.9607
1.00E-04	E106	H3K4me3_Pri	23	0.6257	0.0221	0.9907
1.00E-05	E051	H3K4me1_Enh	5	0.6238	0.0526	0.8222
1.00E-04	E057	H3K4me3_Pri	16	0.6238	0.0153	0.9726
1.00E-04	E018	H3K4me3_Pri	27	0.6235	0.0259	0.9953
1.00E-05	E032	H3K4me1_Enh	5	0.6227	0.0526	0.8235
1.00E-04	E024	H3K4me3_Pri	19	0.6221	0.0182	0.9837
1.00E-04	E128	H3K4me3_Pri	11	0.6220	0.0105	0.9384
1.00E-05	E014	H3K4me1_Enh	8	0.6211	0.0842	0.9110

1.00E-04	E123	H3K27ac_Enf	19	0.6197	0.0182	0.9846
1.00E-05	E049	H3K4me1_En	7	0.6181	0.0737	0.8919
1.00E-04	E004	H3K9ac_Pro	24	0.6142	0.0230	0.9941
1.00E-05	E074	H3K4me1_En	7	0.6123	0.0737	0.8977
1.00E-05	E005	H3K27ac_Enf	3	0.6111	0.0316	0.7294
1.00E-04	E019	H3K4me3_Pri	26	0.6103	0.0249	0.9963
1.00E-04	E001	H3K4me3_Pri	30	0.6101	0.0288	0.9981
1.00E-04	E037	H3K27ac_Enf	36	0.6100	0.0345	0.9993
1.00E-05	E050	H3K4me1_En	6	0.6095	0.0632	0.8735
1.00E-04	E047	H3K4me3_Pri	17	0.6039	0.0163	0.9843
1.00E-05	E057	H3K4me1_En	5	0.6022	0.0526	0.8471
1.00E-05	E071	H3K4me3_Pri	3	0.5999	0.0316	0.7426
1.00E-04	E127	H3K27ac_Enf	29	0.5970	0.0278	0.9986
1.00E-05	E125	H3K9ac_Pro	3	0.5904	0.0316	0.7540
1.00E-04	E016	H3K4me3_Pri	21	0.5890	0.0201	0.9949
1.00E-04	E099	H3K4me3_Pri	17	0.5843	0.0163	0.9898
1.00E-04	E112	H3K4me3_Pri	12	0.5831	0.0115	0.9713
1.00E-05	E117	H3K4me1_En	5	0.5817	0.0526	0.8695
1.00E-05	E068	H3K9ac_Pro	5	0.5813	0.0526	0.8699
1.00E-05	E078	H3K4me3_Pri	3	0.5799	0.0316	0.7663
1.00E-05	E101	H3K9ac_Pro	3	0.5793	0.0316	0.7671
1.00E-05	E049	H3K27ac_Enf	4	0.5788	0.0421	0.8290
1.00E-04	E058	H3K4me3_Pri	17	0.5783	0.0163	0.9911
1.00E-04	E084	H3K4me3_Pri	12	0.5778	0.0115	0.9737
1.00E-04	E058	H3K27ac_Enf	51	0.5766	0.0489	1.0000
1.00E-04	E046	H3K27ac_Enf	20	0.5696	0.0192	0.9964
1.00E-04	E063	H3K4me3_Pri	28	0.5691	0.0268	0.9994
1.00E-04	E038	H3K4me3_Pri	20	0.5691	0.0192	0.9964
1.00E-04	E098	H3K4me3_Pri	14	0.5689	0.0134	0.9859
1.00E-04	E128	H3K9ac_Pro	12	0.5629	0.0115	0.9799
1.00E-04	E020	H3K4me3_Pri	30	0.5600	0.0288	0.9998
1.00E-04	E100	H3K4me3_Pri	12	0.5572	0.0115	0.9819
1.00E-05	E025	H3K4me3_Pri	3	0.5526	0.0316	0.7984
1.00E-05	E025	H3K9ac_Pro	4	0.5523	0.0421	0.8584
1.00E-04	E014	H3K4me3_Pri	26	0.5504	0.0249	0.9996
1.00E-04	E116	H3K4me1_En	38	0.5486	0.0364	1.0000
1.00E-04	E116	H3K9ac_Pro	16	0.5369	0.0153	0.9961
1.00E-04	E029	H3K4me3_Pri	7	0.5366	0.0067	0.9483
1.00E-05	E019	H3K4me1_En	5	0.5279	0.0526	0.9212
1.00E-05	E001	H3K4me1_En	7	0.5248	0.0737	0.9653
1.00E-04	E045	H3K4me3_Pri	19	0.5235	0.0182	0.9990
1.00E-04	E046	H3K4me3_Pri	9	0.5146	0.0086	0.9805
1.00E-05	E124	H3K27ac_Enf	5	0.5130	0.0526	0.9332

1.00E-05	E014	H3K27ac_Enr	3	0.5101	0.0316	0.8465
1.00E-04	E048	H3K27ac_Enr	23	0.5024	0.0221	0.9999
1.00E-05	E058	H3K27ac_Enr	4	0.4965	0.0421	0.9133
1.00E-05	E072	H3K9ac_Pro	4	0.4955	0.0421	0.9141
1.00E-05	E108	H3K9ac_Pro	3	0.4938	0.0316	0.8640
1.00E-04	E094	H3K4me3_Pr	21	0.4902	0.0201	0.9999
1.00E-04	E042	H3K4me3_Pr	19	0.4897	0.0182	0.9997
1.00E-04	E127	H3K9ac_Pro	21	0.4858	0.0201	0.9999
1.00E-04	E116	H3K4me3_Pr	18	0.4848	0.0173	0.9997
1.00E-04	E003	H3K27ac_Enr	29	0.4759	0.0278	1.0000
1.00E-05	E099	H3K4me1_En	5	0.4747	0.0526	0.9594
1.00E-04	E040	H3K27ac_Enr	22	0.4746	0.0211	1.0000
1.00E-04	E116	H3K27ac_Enr	21	0.4695	0.0201	1.0000
1.00E-05	E018	H3K4me1_En	6	0.4689	0.0632	0.9783
1.00E-04	E095	H3K4me3_Pr	8	0.4501	0.0077	0.9923
1.00E-05	E013	H3K4me1_En	6	0.4416	0.0632	0.9873
1.00E-05	E087	H3K4me1_En	4	0.4350	0.0421	0.9589
1.00E-05	E011	H3K4me1_En	6	0.4345	0.0632	0.9892
1.00E-05	E066	H3K27ac_Enr	3	0.4233	0.0316	0.9303
1.00E-05	E119	H3K4me1_En	3	0.4187	0.0316	0.9340
1.00E-05	E016	H3K4me1_En	5	0.4050	0.0526	0.9883
1.00E-05	E003	H3K4me1_En	3	0.3950	0.0316	0.9512
1.00E-05	E020	H3K27ac_Enr	3	0.3888	0.0316	0.9552
1.00E-05	E107	H3K9ac_Pro	3	0.3870	0.0316	0.9564
1.00E-05	E006	H3K4me1_En	4	0.3864	0.0421	0.9819
1.00E-05	E114	H3K4me1_En	4	0.3802	0.0421	0.9840
1.00E-05	E069	H3K27ac_Enr	4	0.3640	0.0421	0.9887
1.00E-05	E036	H3K4me1_En	3	0.3639	0.0316	0.9696
1.00E-05	E124	H3K4me1_En	3	0.3587	0.0316	0.9722
1.00E-05	E015	H3K4me1_En	4	0.3207	0.0421	0.9965
1.00E-05	E071	H3K27ac_Enr	3	0.2985	0.0316	0.9926

q-value	Roadmap Gr	Roadmap Epi	Anatomy
0.0010	Brain	Fetal Brain Fe	BRAIN
0.0767	Other	Fetal Lung	LUNG
0.0011	Other	Spleen	SPLEEN
0.0367	ESC	ES-WA7 Cells	ESC
0.0417	Blood & T-cel	Primary T cell	BLOOD
0.0146	Brain	Fetal Brain M	BRAIN
0.1548	Brain	Brain_Dorsol	BRAIN
0.0864	Brain	Brain Germin	BRAIN
0.0000	Heart	Right Atrium	HEART
0.0000	Other	Spleen	SPLEEN
0.0342	Blood & T-cel	Primary T CD8	BLOOD
0.0242	Digestive	Esophagus	GI_ESOPHAGUS
0.1886	ESC	H9 Cells	ESC
0.0363	Digestive	Gastric	GI_STOMACH
0.2119	Blood & T-cel	Primary T hel	BLOOD
0.0787	Blood & T-cel	Primary T reg	BLOOD
0.1579	ESC	H9 Cells	ESC
0.0612	Heart	Right Atrium	HEART
0.1280	Sm. Muscle	Rectal Smoot	GI_RECTUM
0.0740	Blood & T-cel	Primary T hel	BLOOD
0.5475	Brain	Fetal Brain Fe	BRAIN
0.1054	Blood & T-cel	Primary T hel	BLOOD
0.0000	Other	Liver	LIVER
0.0731	ES-deriv	H1 Derived N	ESC_DERIVED
0.1165	Blood & T-cel	Primary T hel	BLOOD
0.0000	Other	Lung	LUNG
0.1161	Blood & T-cel	Primary T cell	BLOOD
0.0882	Blood & T-cel	Primary T hel	BLOOD
0.1403	Blood & T-cel	Primary T hel	BLOOD
0.3289	Thymus	Thymus	THYMUS
0.0579	Heart	Right Ventricl	HEART
0.3407	Epithelial	Foreskin Mel	SKIN
0.3997	Sm. Muscle	Stomach Smo	GI_STOMACH
0.1685	Blood & T-cel	Primary T hel	BLOOD
0.1915	Blood & T-cel	Primary T CD8	BLOOD
0.1105	Epithelial	Foreskin Fibr	SKIN
0.3846	ENCODE2012	HUVEC Umbil	VASCULAR
0.5369	Sm. Muscle	Stomach Smo	GI_STOMACH
0.2892	Sm. Muscle	Colon Smoot	GI_COLON
0.2376	Blood & T-cel	Primary T hel	BLOOD
0.0001	Epithelial	Foreskin Mel	SKIN
0.0001	Heart	Left Ventricle	HEART

0.0004	Epithelial	Foreskin Mel	SKIN
0.0008	Epithelial	Foreskin Fibr	SKIN
0.2672	Epithelial	Breast Myoe	BREAST
0.5972	ESC	HUES64 Cells	ESC
0.2469	Thymus	Fetal Thymus	THYMUS
0.6009	ES-deriv	H1 Derived M	ESC_DERIVED
0.5567	Thymus	Fetal Thymus	THYMUS
0.1890	Muscle	Fetal Muscle	MUSCLE
0.0021	Other	Ovary	OVARY
0.0060	Heart	Aorta	VASCULAR
0.5695	Digestive	Colonic Muco	GI_COLON
0.0000	Heart	Right Atrium	HEART
0.2424	Epithelial	Foreskin Fibr	SKIN
0.0038	Muscle	Psoas Muscle	MUSCLE
0.5665	Digestive	Fetal Stomac	GI_STOMACH
0.0056	Other	Fetal Kidney	KIDNEY
0.0179	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.0004	Epithelial	Foreskin Fibr	SKIN
0.8066	ENCODE2012	HepG2 Hepat	LIVER
0.4709	Heart	Fetal Heart	HEART
0.0000	Heart	Right Ventricl	HEART
0.6608	ENCODE2012	Dnd41 TCell	L BLOOD
0.0496	HSC & B-cell	Primary mon	BLOOD
0.0000	Other	Spleen	SPLEEN
0.4494	Digestive	Colonic Muco	GI_COLON
0.5637	Muscle	Psoas Muscle	MUSCLE
0.5331	Adipose	Adipose Nucl	FAT
0.8033	ENCODE2012	NH-A Astrocy	BRAIN
0.0229	Brain	Brain_Dorsol	BRAIN
0.0004	Heart	Right Ventricl	HEART
0.0001	Other	Fetal Adrenal	ADRENAL
0.3529	Digestive	Fetal Stomac	GI_STOMACH
0.0841	Other	Pancreatic Isl	PANCREAS
0.0012	Other	Fetal Adrenal	ADRENAL
0.2999	Epithelial	Foreskin Fibr	SKIN
0.0018	Muscle	Psoas Muscle	MUSCLE
0.0024	Muscle	Skeletal Musc	MUSCLE
0.0091	Other	Liver	LIVER
0.9034	Epithelial	Breast Myoe	BREAST
0.0080	Digestive	Small Intestin	GI_INTESTINE
0.0001	Brain	Brain_Dorsol	BRAIN
0.0000	Other	Spleen	SPLEEN
0.0009	Blood & T-cel	Primary T cell	BLOOD

0.5408 Heart Fetal Heart HEART
0.0763 Other Pancreas PANCREAS
0.4983 Adipose Adipose Nucl FAT
0.0070 Brain Brain Inferior BRAIN
0.0005 Other Lung LUNG
0.6732 Neurosph Cortex derive BRAIN
0.6209 ENCODE2012 NH-A Astrocy BRAIN
0.0277 HSC & B-cell Primary neut BLOOD
0.8527 Sm. Muscle Colon Smooth GI_COLON
0.0038 Blood & T-cell Primary T CD BLOOD
0.6522 Sm. Muscle Stomach Smo GI_STOMACH
0.6943 Digestive Rectal Mucos GI_RECTUM
0.8814 Blood & T-cell Primary T CD BLOOD
0.9873 ENCODE2012 HepG2 Hepat LIVER
0.0342 Heart Aorta VASCULAR
0.8538 Other Fetal Lung LUNG
0.0291 Digestive Colonic Muco GI_COLON
0.0171 Blood & T-cell Primary T hel BLOOD
0.0091 Blood & T-cell Primary T hel BLOOD
0.1986 Other Lung LUNG
0.0240 Blood & T-cell Primary mon BLOOD
0.6341 Brain Brain Anterio BRAIN
0.7364 Digestive Rectal Mucos GI_RECTUM
0.0384 Brain Brain Angular BRAIN
0.0229 ENCODE2012 Monocytes-C BLOOD
0.0130 Blood & T-cell Primary T hel BLOOD
0.0031 Brain Brain_Dorsol BRAIN
0.2566 ES-deriv hESC Derived ESC_DERIVED
0.1666 Sm. Muscle Stomach Smo GI_STOMACH
0.7857 ES-deriv hESC Derived ESC_DERIVED
0.0809 Other Placenta PLACENTA
1.0000 Blood & T-cell Primary T hel BLOOD
0.7093 Digestive Duodenum M GI_DUODENUM
0.1727 ES-deriv H1 Derived M ESC_DERIVED
0.9021 Digestive Colonic Muco GI_COLON
0.0328 Other Ovary OVARY
0.7360 Brain Brain Angular BRAIN
0.0052 Muscle Skeletal Musc MUSCLE
0.1470 Brain Brain Cingula BRAIN
0.7981 Other Fetal Adrenal ADRENAL
0.0146 Heart Fetal Heart HEART
1.0000 Digestive Rectal Mucos GI_RECTUM
0.0094 Brain Brain Cingula BRAIN

0.3294	Epithelial	Foreskin Mel	SKIN
0.0278	Digestive	Esophagus	GI_ESOPHAGUS
0.1930	Brain	Brain_Dorsol	BRAIN
0.0345	Other	Placenta	PLACENTA
0.0800	Blood & T-cel	Primary T cell	BLOOD
0.0242	Blood & T-cel	Primary T hel	BLOOD
1.0000	Digestive	Duodenum IV	GI_DUODENUM
0.2558	Brain	Brain Cingula	BRAIN
0.3040	Brain	Brain Angular	BRAIN
0.0731	Heart	Fetal Heart	HEART
0.9873	ENCODE2012	NHLF Lung Fil	LUNG
0.9873	Other	Spleen	SPLEEN
0.0342	ENCODE2012	NH-A Astrocy	BRAIN
0.0518	Digestive	Gastric	GI_STOMACH
0.0000	ESC	HUES64 Cells	ESC
0.2083	ENCODE2012	Dnd41 TCell L	BLOOD
0.2529	Brain	Brain Hippoc	BRAIN
0.1621	Digestive	Sigmoid Coloi	GI_COLON
0.4319	ENCODE2012	NHEK-Epiderr	SKIN
0.2119	ENCODE2012	Dnd41 TCell L	BLOOD
1.0000	Brain	Brain Anterio	BRAIN
0.1880	Heart	Fetal Heart	HEART
0.0278	Digestive	Fetal Stomac	GI_STOMACH
0.4491	Mesench	Mesenchyma	STROMAL_CONNECTIVE
0.6690	ENCODE2012	Dnd41 TCell L	BLOOD
0.0834	Heart	Left Ventricle	HEART
0.0342	Adipose	Adipose Nucl	FAT
0.8431	Epithelial	Breast Myoe	BREAST
0.0440	Brain	Brain Inferior	BRAIN
0.0392	Muscle	Fetal Muscle	MUSCLE
0.2430	ENCODE2012	HUVEC Umbil	VASCULAR
1.0000	Neurosph	Ganglion Emi	BRAIN
0.0893	HSC & B-cell	Primary hem	BLOOD
0.1505	Brain	Brain Inferior	BRAIN
0.0000	ESC	HUES48 Cells	ESC
0.1579	HSC & B-cell	Primary hem	BLOOD
0.1023	iPSC	iPS DF 19.11	(IPSC
0.0612	Epithelial	Foreskin Fibr	SKIN
1.0000	Epithelial	Breast varian	BREAST
0.1272	Digestive	Colonic Muco	GI_COLON
0.1281	ENCODE2012	Monocytes-C	BLOOD
0.1156	Sm. Muscle	Stomach Smo	GI_STOMACH
0.2537	ESC	ES-WA7 Cells	ESC

1.0000 ENCODE2012 NHDF-Ad Ad SKIN
 0.1923 Blood & T-cel Primary T CD4 BLOOD
 0.1411 ENCODE2012 Osteoblast Pr BONE
 1.0000 Epithelial Foreskin Fibro SKIN
 1.0000 Heart Right Ventricle HEART
 0.4491 Blood & T-cel Primary T reg BLOOD
 0.8477 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Sm. Muscle Rectal Smooth GI_RECTUM
 0.8313 ENCODE2012 HSMM Skelet MUSCLE
 0.4307 Muscle Fetal Muscle MUSCLE
 0.6891 Muscle Skeletal Muscle MUSCLE
 1.0000 Digestive Small Intestine GI_INTESTINE
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.1319 Epithelial Foreskin Fibro SKIN
 0.6971 Blood & T-cel Primary T helper BLOOD
 0.6192 Muscle Skeletal Muscle MUSCLE
 0.2198 Myosat Muscle Satellite MUSCLE
 0.3003 Adipose Adipose Nucleus FAT
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 0.4943 Digestive Fetal Stomach GI_STOMACH
 1.0000 Digestive Fetal Intestine GI_INTESTINE
 0.4314 HSC & B-cell Primary monocyte BLOOD
 0.2341 Other Liver LIVER
 0.1727 Brain Brain Angular BRAIN
 0.1161 Epithelial Breast Myocyte BREAST
 1.0000 Epithelial Foreskin Melanocyte SKIN
 0.2341 Brain Brain Angular BRAIN
 0.0000 Adipose Adipose Nucleus FAT
 0.3913 Muscle Skeletal Muscle MUSCLE
 0.0000 iPSC iPSC-20b Cells IPSC
 1.0000 Digestive Rectal Mucosa GI_RECTUM
 0.4028 HSC & B-cell Primary Natural Killer BLOOD
 0.0000 iPSC iPSC-18 Cells IPSC
 1.0000 ES-deriv H1 Derived Nucleus ESC_DERIVED
 0.5609 Mesenchyme Mesenchyma STROMAL_CONNECTIVE
 0.3092 ES-deriv H1 BMP4 Derived ESC_DERIVED
 1.0000 ESC H9 Cells ESC
 0.5489 Mesenchyme Mesenchyma STROMAL_CONNECTIVE
 0.5823 iPSC iPSC-15b Cells IPSC
 0.7273 HSC & B-cell Primary hematopoietic BLOOD
 0.4709 Brain Fetal Brain Fetal BRAIN
 0.4494 Blood & T-cel Primary T helper BLOOD
 1.0000 Brain Brain Cingulate BRAIN

0.3234 Digestive Duodenum M GI_DUODENUM
 0.5577 Blood & T-cel Primary T reg BLOOD
 0.2999 Epithelial Foreskin Mel SKIN
 0.0767 HSC & B-cell Primary monc BLOOD
 0.2341 Epithelial Foreskin Fibrc SKIN
 0.4301 ES-deriv H1 Derived M ESC_DERIVED
 0.7377 ENCODE2012 HSMM cell de MUSCLE
 0.5331 Muscle Skeletal Musc MUSCLE
 0.4501 IMR90 IMR90 fetal l LUNG
 0.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.7377 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Myosat Muscle Satell MUSCLE
 0.9647 Myosat Muscle Satell MUSCLE
 0.0000 Other Liver LIVER
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Adipose Adipose Nucl FAT
 0.7371 ENCODE2012 Monocytes-C BLOOD
 0.7043 Mesench Mesenchyma FAT
 1.0000 iPSC iPS-18 Cells IPSC
 0.0069 Other Liver LIVER
 0.3040 Epithelial Foreskin Fibrc SKIN
 0.2183 HSC & B-cell Primary neut BLOOD
 0.0000 ES-deriv hESC Derived ESC_DERIVED
 0.4408 HSC & B-cell Primary B cell BLOOD
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 0.6001 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 0.9572 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 Epithelial Foreskin Mel SKIN
 0.0000 Brain Brain Hippoc BRAIN
 0.6252 Sm. Muscle Duodenum Sr GI_DUODENUM
 0.7304 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.0000 Digestive Rectal Mucos GI_RECTUM
 0.0819 Brain Brain Hippoc BRAIN
 0.6971 Brain Fetal Brain M BRAIN
 0.8856 ENCODE2012 NHLF Lung Fil LUNG

0.6732	Other	Pancreas	PANCREAS
0.0000	Heart	Fetal Heart	HEART
0.7893	HSC & B-cell	Primary B cell	BLOOD
1.0000	HSC & B-cell	Primary hem	BLOOD
0.5695	Brain	Brain Anterio	BRAIN
0.0000	Digestive	Duodenum M	GI_DUODENUM
0.0009	Other	Placenta	PLACENTA
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
0.0001	Muscle	Psoas Muscle	MUSCLE
0.0001	Other	Ovary	OVARY
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	Digestive	Fetal Intestin	GI_INTESTINE
0.7044	Muscle	Fetal Muscle	MUSCLE_LEG
1.0000	ES-deriv	H1 Derived N	ESC_DERIVED
1.0000	Other	Spleen	SPLEEN
1.0000	Digestive	Fetal Intestin	GI_INTESTINE
1.0000	Mesench	Mesenchyma	FAT
0.0002	Heart	Right Atrium	HEART
0.0882	Other	Spleen	SPLEEN
1.0000	Mesench	Bone Marrow	STROMAL_CONNECTIVE
0.0969	HSC & B-cell	Primary neut	BLOOD
1.0000	ENCODE2012	NH-A Astrocy	BRAIN
0.0001	Other	Pancreas	PANCREAS
0.0001	Heart	Right Ventricl	HEART
0.1923	Other	Liver	LIVER
0.0000	Brain	Brain Inferior	BRAIN
0.8687	Brain	Brain Substar	BRAIN
0.9586	Adipose	Adipose Nucl	FAT
0.3410	Other	Fetal Lung	LUNG
0.9572	Blood & T-cel	Primary T hel	BLOOD
0.1582	Other	Placenta	PLACENTA
0.0278	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.8961	Brain	Brain Hippoc	BRAIN
0.2892	Heart	Right Atrium	HEART
0.8538	Mesench	Mesenchyma	STROMAL_CONNECTIVE
0.0102	Heart	Aorta	VASCULAR
0.0000	Mesench	Adipose Deriv	FAT
1.0000	HSC & B-cell	Primary B cell	BLOOD
1.0000	HSC & B-cell	Primary hem	BLOOD
0.0000	Muscle	Skeletal Musc	MUSCLE
0.0000	ENCODE2012	Monocytes-C	BLOOD
1.0000	Digestive	Rectal Mucos	GI_RECTUM
0.0000	ES-deriv	hESC Derived	ESC_DERIVED

0.0000	Mesench	Mesenchyma	FAT
1.0000	ESC	H9 Cells	ESC
1.0000	ENCODE2012	HSMM Skelet	MUSCLE
1.0000	Digestive	Rectal Mucos	GI_RECTUM
0.0242	Muscle	Fetal Muscle	MUSCLE
1.0000	ENCODE2012	HUVEC Umbil	VASCULAR
1.0000	Digestive	Stomach Muc	GI_STOMACH
0.9968	Sm. Muscle	Colon Smooth	GI_COLON
1.0000	IMR90	IMR90 fetal	LUNG
0.5053	Brain	Brain Angular	BRAIN
1.0000	Heart	Aorta	VASCULAR
0.0277	IMR90	IMR90 fetal	LUNG
0.0002	ESC	HUES6 Cells	ESC
0.4501	Other	Fetal Kidney	KIDNEY
0.0342	Heart	Left Ventricle	HEART
0.0001	ES-deriv	H1 BMP4 Der	ESC_DERIVED
1.0000	ESC	H9 Cells	ESC
1.0000	Myosat	Muscle Satell	MUSCLE
1.0000	Digestive	Stomach Muc	GI_STOMACH
1.0000	Epithelial	Breast Myoe	BREAST
0.9572	Brain	Brain Hippoc	BRAIN
0.0001	Brain	Brain Cingula	BRAIN
0.0004	Digestive	Colonic Muco	GI_COLON
0.0495	Muscle	Fetal Muscle	MUSCLE_LEG
0.0001	ENCODE2012	HeLa-S3 Cervi	CERVIX
1.0000	Muscle	Fetal Muscle	MUSCLE_LEG
0.0001	ES-deriv	H1 Derived M	ESC_DERIVED
0.0363	ES-deriv	H9 Derived N	ESC_DERIVED
0.6209	Brain	Brain Cingula	BRAIN
1.0000	ENCODE2012	A549 EtOH 0.	LUNG
1.0000	IMR90	IMR90 fetal	LUNG
0.0015	Other	Fetal Lung	LUNG
0.6252	Brain	Brain Inferior	BRAIN
0.0427	Epithelial	Foreskin Mel	SKIN
0.0032	ESC	ES-I3 Cells	ESC
1.0000	ENCODE2012	NHDF-Ad Ad	SKIN
0.5561	HSC & B-cell	Primary B cell	BLOOD
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
0.0011	ESC	ES-I3 Cells	ESC
0.0004	Sm. Muscle	Colon Smooth	GI_COLON
0.0649	ESC	H1 Cells	ESC
0.0210	Epithelial	Breast Myoe	BREAST
0.0008	Brain	Brain Anterio	BRAIN

0.0056	ES-deriv	H1 Derived N	ESC_DERIVED
1.0000	Mesench	Adipose Deriv	FAT
1.0000	Neurosph	Ganglion Emi	BRAIN
0.0021	Brain	Brain Substar	BRAIN
1.0000	Brain	Brain Substar	BRAIN
0.1155	Neurosph	Cortex derive	BRAIN
0.8313	ES-deriv	H1 Derived N	ESC_DERIVED
0.0069	Brain	Brain Angular	BRAIN
0.0800	Blood & T-cel	Primary T cell	BLOOD
1.0000	Thymus	Thymus	THYMUS
0.1579	Digestive	Fetal Stomach	GI_STOMACH
0.1579	Other	Fetal Kidney	KIDNEY
0.1291	ES-deriv	hESC Derived	ESC_DERIVED
0.1155	Digestive	Fetal Intestin	GI_INTESTINE
1.0000	ESC	HUES6 Cells	ESC
0.0427	Blood & T-cel	Primary T hel	BLOOD
0.1403	HSC & B-cell	Primary hem	BLOOD
0.1422	ENCODE2012	HSMM Skelet	MUSCLE
0.7113	ESC	H9 Cells	ESC
1.0000	ENCODE2012	HSMM Skelet	MUSCLE
0.0363	Muscle	Skeletal Musc	MUSCLE
0.0899	ES-deriv	H1 BMP4 Der	ESC_DERIVED
0.9968	Muscle	Skeletal Musc	MUSCLE
0.1161	ESC	H9 Cells	ESC
0.3407	Other	Pancreatic Isl	PANCREAS
0.6388	Brain	Fetal Brain Fe	BRAIN
0.9240	ENCODE2012	Monocytes-C	BLOOD
0.9572	Brain	Brain_Dorsol	BRAIN
0.0242	Other	Ovary	OVARY
0.1453	ENCODE2012	K562 Leukem	BLOOD
0.3653	HSC & B-cell	Primary Natu	BLOOD
0.3081	ENCODE2012	HMEC Mamr	BREAST
1.0000	Other	Liver	LIVER
0.9647	Digestive	Rectal Mucos	GI_RECTUM
1.0000	ENCODE2012	NH-A Astrocy	BRAIN
1.0000	Digestive	Colonic Muco	GI_COLON
0.0516	ENCODE2012	HeLa-S3 Cervi	CERVIX
1.0000	Sm. Muscle	Duodenum Sr	GI_DUODENUM
0.1161	Epithelial	Foreskin Mel	SKIN
0.0364	ESC	ES-WA7 Cells	ESC
0.4028	Other	Fetal Kidney	KIDNEY
0.1791	Blood & T-cel	Primary T hel	BLOOD
0.0832	IMR90	IMR90 fetal l	LUNG

1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 0.4211 Blood & T-cel Primary T cell BLOOD
 1.0000 Digestive Fetal Intestini GI_INTESTINE
 0.3653 Neurosph Ganglion Emi BRAIN
 0.7812 ES-deriv H1 Derived N ESC_DERIVED
 0.1666 Digestive Gastric GI_STOMACH
 0.3460 ENCODE2012 K562 Leukem BLOOD
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 0.6373 Other Fetal Adrenal ADRENAL
 0.7592 Other Lung LUNG
 1.0000 Brain Brain Anterio BRAIN
 0.8538 Brain Fetal Brain M BRAIN
 0.2999 Blood & T-cel Primary T CD8 BLOOD
 0.2186 iPSC iPS-15b Cells IPSC
 0.5609 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 Other Liver LIVER
 0.1281 Blood & T-cel Primary T CD8 BLOOD
 0.6209 Other Pancreatic Isl PANCREAS
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 0.6891 ES-deriv H9 Derived N ESC_DERIVED
 0.0995 ENCODE2012 K562 Leukem BLOOD
 1.0000 HSC & B-cell Primary neut BLOOD
 0.6765 Thymus Fetal Thymus THYMUS
 0.7081 Digestive Fetal Intestini GI_INTESTINE
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 0.8806 Other Spleen SPLEEN
 0.2621 Blood & T-cel Primary T reg BLOOD
 0.7516 ENCODE2012 NHLF Lung Fil LUNG
 0.8477 iPSC iPS DF 6.9 Cel IPSC
 0.6209 ESC ES-UCSF4 Cel ESC
 0.8066 Thymus Thymus THYMUS
 0.3653 Heart Right Atrium HEART
 0.7187 ENCODE2012 Dnd41 TCell L BLOOD
 0.4152 ENCODE2012 A549 EtOH 0. LUNG
 0.7483 Digestive Esophagus GI_ESOPHAGUS
 0.1579 Blood & T-cel Primary T reg BLOOD
 0.7043 ENCODE2012 HepG2 Hepat LIVER
 0.7043 Epithelial Foreskin Kera SKIN
 0.7822 Brain Brain Germin BRAIN
 0.6209 Blood & T-cel Primary T hel BLOOD
 1.0000 Muscle Fetal Muscle MUSCLE

1.0000 Blood & T-cel Primary T hel BLOOD
 0.7364 Blood & T-cel Primary T hel BLOOD
 0.6345 Blood & T-cel Primary T hel BLOOD
 1.0000 HSC & B-cell Primary monc BLOOD
 0.6891 Other Lung LUNG
 1.0000 Brain Brain_Dorsolc BRAIN
 1.0000 Other Pancreatic Islc PANCREAS
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 0.6264 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 ENCODE2012 Osteoblast Pr BONE
 0.5975 Epithelial Foreskin Fibrc SKIN
 1.0000 Brain Brain Cingulac BRAIN
 0.7043 Blood & T-cel Primary T hel BLOOD
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Epithelial Foreskin Fibrc SKIN
 0.4113 Brain Brain Inferior BRAIN
 0.7093 Digestive Rectal Mucos GI_RECTUM
 1.0000 Brain Brain Substar BRAIN
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 ENCODE2012 NHDF-Ad Adc SKIN
 1.0000 Brain Brain Angular BRAIN
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 Digestive Rectal Mucos GI_RECTUM
 0.9712 Blood & T-cel Primary T reg BLOOD
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Blood & T-cel Primary T hel BLOOD
 0.8469 Brain Brain_Dorsolc BRAIN
 0.7377 IMR90 IMR90 fetal lc LUNG
 0.9572 Mesench Mesenchyma STROMAL_CONNECTIVE
 0.6741 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.9772 Brain Brain_Dorsolc BRAIN
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 Sm. Muscle Colon Smootf GI_COLON
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 Other Placenta Amr PLACENTA
 0.9926 Sm. Muscle Stomach Smo GI_STOMACH

0.9968 ENCODE2012 HeLa-S3 Cervi CERVIX
 0.9647 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Brain Fetal Brain Fe BRAIN
 1.0000 HSC & B-cell Primary B cell BLOOD
 0.8527 Other Fetal Adrenal ADRENAL
 0.9921 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 Epithelial Breast varian BREAST
 1.0000 Muscle Psoas Muscle MUSCLE
 1.0000 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 Blood & T-cel Primary monç BLOOD
 1.0000 Blood & T-cel Primary T CDç BLOOD
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Other Lung LUNG
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Brain Brain Angular BRAIN
 1.0000 Brain Fetal Brain M BRAIN
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Epithelial Foreskin Fibrc SKIN
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Placenta PLACENTA
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Brain Brain Substar BRAIN
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Epithelial Foreskin Melç SKIN
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 ESC H9 Cells ESC
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Blood & T-cel Primary T CDç BLOOD
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR

1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 Digestive Sigmoid Color GI_COLON
 1.0000 Heart Fetal Heart HEART
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 ESC H9 Cells ESC
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Other Fetal Lung LUNG
 1.0000 Brain Brain Substar BRAIN
 1.0000 Other Spleen SPLEEN
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Blood & T-cel Primary T reg BLOOD
 1.0000 Heart Left Ventricle HEART
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Brain Brain Angular BRAIN
 1.0000 HSC & B-cell Primary neut BLOOD
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Brain Fetal Brain M BRAIN
 1.0000 Brain Fetal Brain M BRAIN
 1.0000 Brain Fetal Brain Fe BRAIN
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Brain Brain Substar BRAIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Muscle Fetal Muscle MUSCLE
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Epithelial Breast Myoe BREAST
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 HSC & B-cell Primary mon BLOOD
 1.0000 Brain Brain_Dorsol BRAIN
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 ENCODE2012 HMEC Mamr BREAST

1.0000 Digestive Duodenum M GI_DUODENUM
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Brain Brain Angular BRAIN
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 Blood & T-cel Primary monç BLOOD
 1.0000 Brain Brain_Dorsolç BRAIN
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Brain Brain Inferior BRAIN
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Brain Brain Inferior BRAIN
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Other Pancreas PANCREAS
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Blood & T-cel Primary T CDç BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 Blood & T-cel Primary T reg BLOOD
 1.0000 Other Pancreas PANCREAS
 1.0000 Heart Right Ventricl HEART
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Other Fetal Lung LUNG
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ESC H9 Cells ESC
 1.0000 Other Pancreas PANCREAS
 1.0000 Mesench Mesenchyma FAT
 1.0000 ESC H1 Cells ESC
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Ovary OVARY
 1.0000 Other Fetal Adrenal ADRENAL
 1.0000 Heart Right Ventricl HEART

1.0000 Brain Brain Cingula: BRAIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Brain Brain Hippoc: BRAIN
 1.0000 Mesench Mesenchyma FAT
 1.0000 Digestive Fetal Stomach GI_STOMACH
 1.0000 Muscle Fetal Muscle MUSCLE
 1.0000 Brain Brain Anterio BRAIN
 1.0000 Blood & T-cell Primary T cell BLOOD
 1.0000 Other Lung LUNG
 1.0000 Other Spleen SPLEEN
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Blood & T-cell Primary T CD8 BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 HSC & B-cell Primary hem: BLOOD
 1.0000 Adipose Adipose Nucl: FAT
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Other Liver LIVER
 1.0000 Other Placenta PLACENTA
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Brain Brain Hippoc: BRAIN
 1.0000 IMR90 IMR90 fetal LUNG
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 Epithelial Breast Myoe: BREAST
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 Epithelial Foreskin Fibr: SKIN
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 Epithelial Foreskin Fibr: SKIN
 1.0000 Other Placenta PLACENTA
 1.0000 ENCODE2012 NHDF-Ad Ad: SKIN
 1.0000 Other Spleen SPLEEN
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 Brain Brain Cingula: BRAIN
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Digestive Stomach Muc GI_STOMACH

1.0000 Digestive Gastric GI_STOMACH
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 Brain Brain Cingula BRAIN
 1.0000 ENCODE2012 NHDF-Ad Ad SKIN
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Epithelial Foreskin Fibrc SKIN
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 Muscle Psoas Muscle MUSCLE
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ESC HUES64 Cells ESC
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Other Lung LUNG
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Epithelial Foreskin Melæ SKIN
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Other Ovary OVARY
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Sm. Muscle Colon Smoot GI_COLON
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Other Ovary OVARY
 1.0000 Brain Brain_Dorsolæ BRAIN
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 Other Fetal Lung LUNG
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Other Pancreatic Islæ PANCREAS
 1.0000 Brain Brain Hippocæ BRAIN
 1.0000 Digestive Fetal Stomacl GI_STOMACH
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Digestive Sigmoid Color GI_COLON
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Blood & T-cel Primary T hel BLOOD

1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Digestive Fetal Intestini GI_INTESTINE
 1.0000 Other Ovary OVARY
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Brain Brain Angular BRAIN
 1.0000 ESC H9 Cells ESC
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 HSC & B-cell Primary monc BLOOD
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Other Placenta PLACENTA
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Digestive Fetal Intestini GI_INTESTINE
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 HSC & B-cell Primary neut BLOOD
 1.0000 Brain Brain Cingula BRAIN
 1.0000 Epithelial Breast varian BREAST
 1.0000 Epithelial Foreskin Fibrc SKIN
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 ESC HUES6 Cells ESC
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 HSC & B-cell Primary hemc BLOOD
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Epithelial Foreskin Melc SKIN
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 Other Fetal Lung LUNG
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 ENCODE2012 GM12878 Lyr BLOOD

1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 Thymus Thymus THYMUS
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 ESC ES-UCSF4 Cel ESC
 1.0000 Neurosph Ganglion Emi BRAIN
 1.0000 HSC & B-cell Primary monæ BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Epithelial Foreskin Fibræ SKIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Liver LIVER
 1.0000 Heart Right Ventricle HEART
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Other Lung LUNG
 1.0000 Brain Brain Anterio BRAIN
 1.0000 Heart Aorta VASCULAR
 1.0000 Adipose Adipose Nuclæ FAT
 1.0000 Epithelial Breast varianæ BREAST
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 ESC H1 Cells ESC
 1.0000 Heart Right Atrium HEART
 1.0000 Heart Aorta VASCULAR
 1.0000 Other Pancreatic Islæ PANCREAS
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Digestive Duodenum M GI_DUODENUM
 1.0000 Blood & T-cel Primary T CDæ BLOOD
 1.0000 Other Lung LUNG
 1.0000 Other Liver LIVER
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ESC ES-UCSF4 Cel ESC
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Adipose Adipose Nuclæ FAT
 1.0000 iPSC iPS-15b Cells IPSC

1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Brain Fetal Brain Fe BRAIN
 1.0000 Epithelial Foreskin Fibrc SKIN
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 ESC ES-I3 Cells ESC
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 Epithelial Breast Myoeç BREAST
 1.0000 IMR90 IMR90 fetal lu LUNG
 1.0000 Digestive Duodenum M GI_DUODENUM
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 Epithelial Foreskin Fibrc SKIN
 1.0000 Thymus Thymus THYMUS
 1.0000 ESC HUES64 Cells ESC
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Other Fetal Adrenal ADRENAL
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ESC HUES64 Cells ESC
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 Brain Fetal Brain Fe BRAIN
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 Digestive Sigmoid Coloi GI_COLON
 1.0000 Other Pancreas PANCREAS
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ESC HUES48 Cells ESC
 1.0000 Sm. Muscle Colon Smootf GI_COLON
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Heart Right Ventricl HEART
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Brain Brain Germin BRAIN
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Digestive Sigmoid Coloi GI_COLON
 1.0000 Other Placenta Amr PLACENTA

1.0000	Epithelial	Foreskin Fibrc	SKIN
1.0000	Epithelial	Foreskin Fibrc	SKIN
1.0000	ENCODE2012	HUVEC Umbil	VASCULAR
1.0000	Epithelial	Foreskin Kera	SKIN
1.0000	Heart	Left Ventricle	HEART
1.0000	Epithelial	Foreskin Melc	SKIN
1.0000	IMR90	IMR90 fetal l	LUNG
1.0000	iPSC	iPS-18 Cells	IPSC
1.0000	ESC	HUES48 Cells	ESC
1.0000	Digestive	Fetal Intestin	GI_INTESTINE
1.0000	Digestive	Colonic Muco	GI_COLON
1.0000	Brain	Brain Substar	BRAIN
1.0000	iPSC	iPS DF 6.9 Cel	IPSC
1.0000	Muscle	Psoas Muscle	MUSCLE
1.0000	Other	Pancreatic Isl	PANCREAS
1.0000	Other	Spleen	SPLEEN
1.0000	ENCODE2012	NHDF-Ad Adc	SKIN
1.0000	Heart	Right Ventricle	HEART
1.0000	ENCODE2012	Osteoblast Pr	BONE
1.0000	ENCODE2012	GM12878 Lyr	BLOOD
1.0000	ESC	HUES64 Cells	ESC
1.0000	Mesench	Bone Marrow	STROMAL_CONNECTIVE
1.0000	ENCODE2012	Dnd41 TCell L	BLOOD
1.0000	Heart	Right Ventricle	HEART
1.0000	ES-deriv	H1 BMP4 Der	ESC_DERIVED
1.0000	Digestive	Esophagus	GI_ESOPHAGUS
1.0000	Digestive	Stomach Muc	GI_STOMACH
1.0000	Muscle	Psoas Muscle	MUSCLE
1.0000	Sm. Muscle	Colon Smooth	GI_COLON
1.0000	Epithelial	Foreskin Melc	SKIN
1.0000	Other	Fetal Adrenal	ADRENAL
1.0000	ENCODE2012	GM12878 Lyr	BLOOD
1.0000	iPSC	iPS-15b Cells	IPSC
1.0000	Brain	Brain Substar	BRAIN
1.0000	Sm. Muscle	Duodenum Sr	GI_DUODENUM
1.0000	Heart	Fetal Heart	HEART
1.0000	Blood & T-cel	Primary T hel	BLOOD
1.0000	Heart	Left Ventricle	HEART
1.0000	ENCODE2012	Monocytes-C	BLOOD
1.0000	HSC & B-cell	Primary Natu	BLOOD
1.0000	Digestive	Colonic Muco	GI_COLON
1.0000	Heart	Left Ventricle	HEART
1.0000	iPSC	iPS-20b Cells	IPSC

1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Other Pancreas PANCREAS
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 ESC HUES6 Cells ESC
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Thymus Thymus THYMUS
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Thymus Thymus THYMUS
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Brain Brain_Dorsol BRAIN
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 Brain Brain Germin BRAIN
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Digestive Fetal Stomach GI_STOMACH
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Epithelial Foreskin Fibr SKIN
 1.0000 Other Liver LIVER
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ESC HUES48 Cells ESC
 1.0000 iPSC iPS DF 6.9 Cel IPSC
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Heart Right Atrium HEART
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Epithelial Breast Myoe BREAST
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Heart Fetal Heart HEART
 1.0000 Other Placenta Amr PLACENTA
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 ESC HUES6 Cells ESC
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Muscle Fetal Muscle MUSCLE_LEG

1.0000	Muscle	Skeletal Musc	MUSCLE
1.0000	Thymus	Fetal Thymus	THYMUS
1.0000	ENCODE2012	Dnd41 TCell	L BLOOD
1.0000	Other	Fetal Lung	LUNG
1.0000	ENCODE2012	NHEK-Epiderr	SKIN
1.0000	ES-deriv	H1 BMP4 Der	ESC_DERIVED
1.0000	Epithelial	Foreskin Melk	SKIN
1.0000	Other	Placenta Amr	PLACENTA
1.0000	Sm. Muscle	Rectal Smoot	GI_RECTUM
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	Blood & T-cel	Primary T CD8	BLOOD
1.0000	ES-deriv	H9 Derived N	ESC_DERIVED
1.0000	Digestive	Rectal Mucos	GI_RECTUM
1.0000	ENCODE2012	K562 Leukem	BLOOD
1.0000	Blood & T-cel	Primary T hel	BLOOD
1.0000	Blood & T-cel	Primary T reg	BLOOD
1.0000	Blood & T-cel	Primary T hel	BLOOD
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	Muscle	Skeletal Musc	MUSCLE
1.0000	Digestive	Esophagus	GI_ESOPHAGUS
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	ESC	H1 Cells	ESC
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	ESC	ES-UCSF4 Cel	ESC
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	ESC	ES-WA7 Cells	ESC
1.0000	Digestive	Sigmoid Color	GI_COLON
1.0000	Mesench	Bone Marrow	STROMAL_CONNECTIVE
1.0000	Epithelial	Foreskin Kera	SKIN
1.0000	ENCODE2012	Monocytes-C	BLOOD
1.0000	ES-deriv	H1 BMP4 Der	ESC_DERIVED
1.0000	Brain	Brain Hippocæ	BRAIN
1.0000	Heart	Fetal Heart	HEART
1.0000	HSC & B-cell	Primary B cell	BLOOD
1.0000	Digestive	Duodenum IV	GI_DUODENUM
1.0000	Sm. Muscle	Stomach Smo	GI_STOMACH
1.0000	ENCODE2012	A549 EtOH O.	LUNG
1.0000	ENCODE2012	HUVEC Umbil	VASCULAR
1.0000	Digestive	Esophagus	GI_ESOPHAGUS
1.0000	Brain	Brain_Dorsol	BRAIN
1.0000	Epithelial	Foreskin Kera	SKIN
1.0000	Brain	Brain Angular	BRAIN

1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Muscle Psoas Muscle MUSCLE
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Digestive Sigmoid Coloi GI_COLON
 1.0000 Other Fetal Lung LUNG
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Brain Brain Cingula BRAIN
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Epithelial Breast Myoe BREAST
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 ESC ES-13 Cells ESC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Brain Brain Angular BRAIN
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 HSC & B-cell Primary hem BLOOD
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Brain Brain Anterio BRAIN
 1.0000 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 Blood & T-cel Primary mon BLOOD
 1.0000 IMR90 IMR90 fetal LUNG
 1.0000 Digestive Sigmoid Coloi GI_COLON
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ESC H9 Cells ESC
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH

1.0000 ESC ES-WA7 Cells ESC
 1.0000 IMR90 IMR90 fetal Lt LUNG
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Brain Brain Substar BRAIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Blood & T-cel Primary T reg BLOOD
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Brain Brain Cingula BRAIN
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ENCODE2012 Dnd41 TCell L BLOOD
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Digestive Duodenum IV GI_DUODENUM
 1.0000 Mesench Mesenchyma FAT
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 ESC ES-I3 Cells ESC
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Brain Brain Inferior BRAIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 Thymus Thymus THYMUS
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ESC HUES48 Cells ESC
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Mesench Mesenchyma FAT
 1.0000 Blood & T-cel Primary T hel BLOOD

1.0000 ESC HUES6 Cells ESC
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Digestive Duodenum M GI_DUODENUM
 1.0000 Muscle Fetal Muscle MUSCLE
 1.0000 Adipose Adipose Nucl FAT
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 Other Lung LUNG
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 HSC & B-cell Primary hem BLOOD
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Adipose Adipose Nucl FAT
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Brain Brain Substar BRAIN
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 IMR90 IMR90 fetal LUNG
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ESC ES-13 Cells ESC
 1.0000 Epithelial Breast varian BREAST
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ESC HUES48 Cells ESC
 1.0000 Neurosph Ganglion Emi BRAIN
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Epithelial Foreskin Fibr SKIN
 1.0000 Adipose Adipose Nucl FAT
 1.0000 Digestive Stomach Muc GI_STOMACH
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE

1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Muscle Fetal Muscle MUSCLE
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 Adipose Adipose Nucl FAT
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 Digestive Fetal Stomac GI_STOMACH
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Brain Brain Anterio BRAIN
 1.0000 Mesench Adipose Deriv FAT
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Sm. Muscle Stomach Smo GI_STOMACH
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Epithelial Breast varian BREAST
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Blood & T-cel Primary T CD4 BLOOD
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Heart Fetal Heart HEART
 1.0000 iPSC iPS-20b Cells IPSC

1.0000 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Heart Aorta VASCULAR
 1.0000 ESC HUES6 Cells ESC
 1.0000 Heart Left Ventricle HEART
 1.0000 Sm. Muscle Colon Smooth GI_COLON
 1.0000 Blood & T-cel Primary monc BLOOD
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Mesench Mesenchyma FAT
 1.0000 ESC HUES6 Cells ESC
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 HSC & B-cell Primary hemc BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 Heart Aorta VASCULAR
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 ESC ES-UCSF4 Cel ESC
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Heart Aorta VASCULAR
 1.0000 Heart Aorta VASCULAR
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Epithelial Breast Myoeç BREAST
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 ENCODE2012 Osteoblast Pr BONE
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Mesench Mesenchyma FAT
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 ESC H9 Cells ESC
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 Brain Brain Angular BRAIN
 1.0000 Other Fetal Lung LUNG
 1.0000 HSC & B-cell Primary hemc BLOOD
 1.0000 ESC HUES64 Cells ESC
 1.0000 Epithelial Foreskin Kera SKIN

1.0000	ESC	ES-UCSF4 Cel	ESC
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	Neurosph	Ganglion Emi	BRAIN
1.0000	Digestive	Stomach Muc	GI_STOMACH
1.0000	Digestive	Sigmoid Color	GI_COLON
1.0000	ENCODE2012	HMEC Mamr	BREAST
1.0000	ESC	HUES48 Cells	ESC
1.0000	ENCODE2012	HeLa-S3 Cervi	CERVIX
1.0000	Digestive	Duodenum M	GI_DUODENUM
1.0000	ENCODE2012	NHEK-Epiderr	SKIN
1.0000	Neurosph	Ganglion Emi	BRAIN
1.0000	ENCODE2012	NHLF Lung Fil	LUNG
1.0000	Adipose	Adipose Nucl	FAT
1.0000	IMR90	IMR90 fetal l	LUNG
1.0000	ES-deriv	H9 Derived N	ESC_DERIVED
1.0000	HSC & B-cell	Primary hem	BLOOD
1.0000	Digestive	Colonic Muco	GI_COLON
1.0000	iPSC	iPS-18 Cells	IPSC
1.0000	ES-deriv	H9 Derived N	ESC_DERIVED
1.0000	ENCODE2012	HepG2 Hepat	LIVER
1.0000	iPSC	iPS-20b Cells	IPSC
1.0000	Other	Ovary	OVARY
1.0000	Digestive	Fetal Intestin	GI_INTESTINE
1.0000	ENCODE2012	HMEC Mamr	BREAST
1.0000	Neurosph	Cortex derive	BRAIN
1.0000	Mesench	Bone Marrow	STROMAL_CONNECTIVE
1.0000	Heart	Right Atrium	HEART
1.0000	Heart	Left Ventricle	HEART
1.0000	IMR90	IMR90 fetal l	LUNG
1.0000	Other	Fetal Lung	LUNG
1.0000	Other	Fetal Adrenal	ADRENAL
1.0000	ES-deriv	hESC Derived	ESC_DERIVED
1.0000	iPSC	iPS-20b Cells	IPSC
1.0000	HSC & B-cell	Primary hem	BLOOD
1.0000	Myosat	Muscle Satell	MUSCLE
1.0000	Digestive	Fetal Intestin	GI_INTESTINE
1.0000	Muscle	Fetal Muscle	MUSCLE_LEG
1.0000	Digestive	Rectal Mucos	GI_RECTUM
1.0000	ENCODE2012	NHDF-Ad Ad	SKIN
1.0000	ENCODE2012	HUVEC Umbil	VASCULAR
1.0000	ESC	H9 Cells	ESC
1.0000	ES-deriv	H1 Derived M	ESC_DERIVED
1.0000	ESC	H1 Cells	ESC

1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 ESC H1 Cells ESC
 1.0000 ESC HUES48 Cells ESC
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Digestive Colonic Muco GI_COLON
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 ESC H1 Cells ESC
 1.0000 ENCODE2012 HSMM Skelet MUSCLE
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Blood & T-cell Primary mon BLOOD
 1.0000 ESC H1 Cells ESC
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Other Fetal Adrenal ADRENAL
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Heart Fetal Heart HEART
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 ESC HUES64 Cells ESC
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 Muscle Fetal Muscle MUSCLE_LEG
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Muscle Fetal Muscle MUSCLE
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 iPSC iPS DF 19.11 Cell IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Blood & T-cell Primary T cell BLOOD
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Thymus Thymus THYMUS
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 ESC HUES6 Cells ESC
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 ENCODE2012 HepG2 Hepat LIVER

1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Other Lung LUNG
 1.0000 ENCODE2012 NHLF Lung Fit LUNG
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 ENCODE2012 NHLF Lung Fit LUNG
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Blood & T-cel Primary mon BLOOD
 1.0000 IMR90 IMR90 fetal lu LUNG
 1.0000 Other Placenta PLACENTA
 1.0000 ESC ES-13 Cells ESC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 ESC HUES6 Cells ESC
 1.0000 ENCODE2012 HepG2 Hepat LIVER
 1.0000 Other Ovary OVARY
 1.0000 ESC HUES64 Cells ESC
 1.0000 ENCODE2012 HSMM cell de MUSCLE
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 NHLF Lung Fit LUNG
 1.0000 Brain Brain Substar BRAIN
 1.0000 Myosat Muscle Satell MUSCLE
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 HSC & B-cell Primary mon BLOOD
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ESC HUES48 Cells ESC
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Other Liver LIVER
 1.0000 ESC H1 Cells ESC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 ENCODE2012 NHEK-Epiderr SKIN
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ES-deriv H9 Derived N ESC_DERIVED

1.0000 Epithelial Breast variant BREAST
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Digestive Fetal Stomach GI_STOMACH
 1.0000 Brain Brain Germin BRAIN
 1.0000 ESC HUES64 Cells ESC
 1.0000 Mesench Mesenchyma FAT
 1.0000 ESC H9 Cells ESC
 1.0000 Epithelial Foreskin Mel SKIN
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 ENCODE2012 NHDF-Ad Adu SKIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Blood & T-cell Primary T hel BLOOD
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Other Placenta PLACENTA
 1.0000 Brain Brain Cingula BRAIN
 1.0000 Brain Brain Substar BRAIN
 1.0000 Other Pancreas PANCREAS
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Other Ovary OVARY
 1.0000 ESC HUES6 Cells ESC
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ESC H1 Cells ESC
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Digestive Sigmoid Color GI_COLON
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 ESC ES-WA7 Cells ESC
 1.0000 Neurosph Ganglion Emi BRAIN

1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ESC HUES6 Cells ESC
 1.0000 Neurosph Cortex derive BRAIN
 1.0000 Epithelial Breast varian BREAST
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Mesench Bone Marrow STROMAL_CONNECTIVE
 1.0000 Blood & T-cel Primary mon BLOOD
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 Brain Fetal Brain M BRAIN
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Heart Right Ventricle HEART
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Digestive Fetal Stomach GI_STOMACH
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Mesench Mesenchyma FAT
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Brain Brain Anterio BRAIN
 1.0000 ESC HUES48 Cells ESC
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 ESC HUES64 Cells ESC
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Brain Brain Cingula BRAIN
 1.0000 ESC HUES64 Cells ESC
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ESC ES-13 Cells ESC
 1.0000 Heart Right Atrium HEART
 1.0000 Thymus Fetal Thymus THYMUS
 1.0000 iPSC iPS DF 19.11 (IPSC
 1.0000 Mesench Mesenchyma FAT
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ESC HUES48 Cells ESC
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Brain Brain_Dorsol BRAIN
 1.0000 Sm. Muscle Colon Smoot GI_COLON
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ES-deriv H1 Derived N ESC_DERIVED
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 ES-deriv H9 Derived N ESC_DERIVED
 1.0000 Brain Brain Inferior BRAIN

1.0000 Thymus Fetal Thymus THYMUS
 1.0000 Sm. Muscle Rectal Smoot GI_RECTUM
 1.0000 Blood & T-cel Primary T reg BLOOD
 1.0000 Brain Brain Angular BRAIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 ESC H9 Cells ESC
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Digestive Esophagus GI_ESOPHAGUS
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 ESC H1 Cells ESC
 1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Other Fetal Kidney KIDNEY
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Digestive Small Intestin GI_INTESTINE
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Other Fetal Adrenal ADRENAL
 1.0000 Brain Brain Substar BRAIN
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Brain Brain Hippocæ BRAIN
 1.0000 ENCODE2012 HUVEC Umbil VASCULAR
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 Brain Brain Germin BRAIN
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 Brain Brain Germin BRAIN
 1.0000 Other Liver LIVER
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 iPSC iPS DF 6.9 Cell IPSC
 1.0000 Brain Brain_Dorsolæ BRAIN
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Digestive Sigmoid Color GI_COLON
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 HSC & B-cell Primary B cell BLOOD
 1.0000 ESC ES-UCSF4 Cell ESC
 1.0000 ENCODE2012 NHLF Lung Fil LUNG
 1.0000 ESC HUES48 Cells ESC

1.0000 ENCODE2012 K562 Leukem BLOOD
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 Brain Brain Substar BRAIN
 1.0000 ES-deriv H1 BMP4 Der ESC_DERIVED
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 ESC ES-I3 Cells ESC
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 HSC & B-cell Primary hemæ BLOOD
 1.0000 Blood & T-cel Primary T CD8 BLOOD
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Brain Brain Hippocæ BRAIN
 1.0000 ENCODE2012 NHEK-Epider SKIN
 1.0000 ENCODE2012 NH-A Astrocy BRAIN
 1.0000 ESC HUES64 Cells ESC
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Thymus Thymus THYMUS
 1.0000 ENCODE2012 HeLa-S3 Cervi CERVIX
 1.0000 Brain Brain Anterio BRAIN
 1.0000 Sm. Muscle Duodenum Sr GI_DUODENUM
 1.0000 Digestive Rectal Mucos GI_RECTUM
 1.0000 Mesench Mesenchyma STROMAL_CONNECTIVE
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Digestive Fetal Intestin GI_INTESTINE
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 Adipose Adipose Nucl FAT
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 Other Pancreas PANCREAS
 1.0000 ENCODE2012 NHLF Lung Fit LUNG
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Muscle Psoas Muscle MUSCLE
 1.0000 Mesench Adipose Deriv FAT
 1.0000 Mesench Adipose Deriv FAT
 1.0000 ESC HUES48 Cells ESC
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 HSC & B-cell Primary monæ BLOOD
 1.0000 iPSC iPS-18 Cells IPSC
 1.0000 ESC ES-I3 Cells ESC
 1.0000 Blood & T-cel Primary T cell BLOOD
 1.0000 HSC & B-cell Primary Natu BLOOD
 1.0000 ENCODE2012 Monocytes-C BLOOD

1.0000 ESC HUES48 Cells ESC
 1.0000 Blood & T-cel Primary T CD4 BLOOD
 1.0000 Epithelial Foreskin Kera SKIN
 1.0000 Brain Brain Inferior BRAIN
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 Digestive Gastric GI_STOMACH
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 NHEK-Epider SKIN
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 ESC H1 Cells ESC
 1.0000 Other Placenta Amr PLACENTA
 1.0000 Blood & T-cel Primary T hel BLOOD
 1.0000 ENCODE2012 GM12878 Lyr BLOOD
 1.0000 iPSC iPS-15b Cells IPSC
 1.0000 Heart Left Ventricle HEART
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Other Pancreatic Isl PANCREAS
 1.0000 ES-deriv hESC Derived ESC_DERIVED
 1.0000 Other Liver LIVER
 1.0000 ENCODE2012 HMEC Mamr BREAST
 1.0000 ESC HUES64 Cells ESC
 1.0000 ESC H1 Cells ESC
 1.0000 iPSC iPS-20b Cells IPSC
 1.0000 Muscle Skeletal Musc MUSCLE
 1.0000 ES-deriv H1 Derived M ESC_DERIVED
 1.0000 ENCODE2012 A549 EtOH 0. LUNG
 1.0000 Brain Brain Cingula BRAIN
 1.0000 HSC & B-cell Primary hem BLOOD
 1.0000 ENCODE2012 Monocytes-C BLOOD
 1.0000 ESC HUES6 Cells ESC
 1.0000 Brain Brain Hippoc BRAIN