

3 Suppl. Table S6\_AllProtDichotomousFeatures

	Sex	Sex	Sex	IVI cohort	IVI cohort	IVI cohort	IRC	IRC	IRC	SHRM	SHRM
.	AVG.Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (1-sided test, IRC > no IRC)	Adj. p-val. (1-sided test, IRC > no IRC, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (1-sided test, SHRM > no SHRM)
IGLV4-69	0.0790085304	7.693066e-01	9.192799e-01	-0.2824281423	0.301230598	0.9995992	7.091512e-02	0.397760115	0.9546035	-0.0822763018	6.174771e-01
IGLV6-61	-0.0952694116	6.221051e-01	8.419469e-01	0.0414402407	0.822928548	0.9995992	2.024022e-01	0.152843309	0.9546035	0.1478094643	2.037104e-01
IGLV4-60	0.2829770179	5.208075e-01	8.216873e-01	-0.1325837252	0.776402052	0.9995992	6.866525e-01	0.072997623	0.9546035	0.3227181031	2.349314e-01
IGLV10-54	1.0234427076	1.352664e-02	3.121263e-01	0.0717843907	0.859070833	0.9995992	-6.207483e-02	0.561187788	0.9546035	0.0243068254	4.751315e-01
IGLV5-48	-0.3697934244	5.532319e-01	8.319594e-01	-0.4055677153	0.543920820	0.9995992	3.564972e-01	0.288301864	0.9546035	-0.4766405123	7.455476e-01
IGLV7-46	0.3115380616	4.241351e-01	7.973735e-01	0.1080793053	0.785607527	0.9995992	5.427747e-01	0.083363995	0.9546035	-0.0912982834	5.887866e-01
IGLV2-18	0.9016328830	2.424313e-01	6.725635e-01	-1.1001381903	0.184688565	0.9995992	4.222029e-01	0.301211531	0.9546035	-1.3081950007	9.291181e-01
IGLV3-16	0.0400478603	9.153877e-01	9.738869e-01	0.0981619768	0.798119616	0.9995992	-3.946941e-01	0.853708002	0.9572213	0.0561730446	4.430390e-01
IGLV3-10	-0.0050324401	9.799778e-01	9.936282e-01	-0.1063329973	0.603843818	0.9995992	4.346350e-02	0.413436216	0.9546035	0.0682103437	3.767967e-01
IGLV3-9	0.1998184882	3.522500e-01	7.498135e-01	-0.2053741316	0.346513530	0.9995992	-3.187268e-01	0.929440842	0.9662261	-0.2423435022	8.531431e-01
IGKV2-28jIGKV2-28	-0.0604973942	7.225903e-01	8.841633e-01	0.1538666972	0.367972408	0.9995992	2.810768e-01	0.050969380	0.9546035	0.1215600383	2.408785e-01
IGHV3-64	0.0143344389	9.399950e-01	9.832514e-01	-0.0465801539	0.810826997	0.9995992	1.972611e-01	0.155224720	0.9546035	0.1236242118	2.651522e-01
IGHV4-4	-0.0179651940	9.204669e-01	9.747769e-01	-0.1616726611	0.367468149	0.9995992	5.126769e-01	0.001736276	0.6382854	-0.1471588666	7.868350e-01
IGKV2-24jIGKV2-24	0.1270665005	5.096110e-01	8.151018e-01	-0.0848247740	0.668580499	0.9995992	1.132718e-01	0.278440535	0.9546035	-0.0125451157	5.239381e-01
IGKV2-29jIGKV2-29	0.0694084396	9.082921e-01	9.715849e-01	-0.9679595974	0.141144371	0.9995992	-1.618918e-03	0.501066265	0.9546035	-0.7290570641	8.513186e-01
IGKV1-37jIGKV1-37	1.5518676232	8.195747e-03	2.618209e-01	0.8320635804	0.117809153	0.9995992	-9.106876e-01	0.944014956	0.9707604	-0.3526140152	7.259083e-01
IGLV5-45jGLV5-39	0.0496025978	9.005940e-01	9.710488e-01	0.3639016853	0.354952184	0.9995992	9.826827e-02	0.406138824	0.9546035	0.2548387561	2.595756e-01
IGHV4-30-2	-0.2037168999	4.035071e-01	7.844497e-01	-0.2313179157	0.354338448	0.9995992	-9.403719e-02	0.648165682	0.9546035	-0.1253745641	6.898302e-01
IGKV30-15	-0.3422413634	4.464571e-01	8.021362e-01	0.5016350578	0.241128886	0.9995992	2.348802e-01	0.306398562	0.9546035	0.4325826861	1.472050e-01
IGKV10-8	0.1601427234	6.023532e-01	8.419469e-01	-0.1728211778	0.563729423	0.9995992	-5.017869e-04	0.500631828	0.9546035	0.0460412236	4.390065e-01
IGKV2-40jIGKV2-40	0.0425271515	8.909348e-01	9.687085e-01	0.0839923464	0.790966041	0.9995992	-1.136757e-01	0.641860993	0.9546035	-0.4361561604	8.967896e-01
IGKV2-11jIGKV2-11	-0.4786929805	2.211251e-02	3.455296e-01	0.1907631703	0.366556633	0.9995992	1.563967e-01	0.232243274	0.9546035	0.1651035892	2.174023e-01
IGHV1-45	0.4258925985	2.206340e-01	6.697766e-01	-0.3604567895	0.320907516	0.9995992	0.507984e-01	0.078149681	0.9546035	0.0978306529	3.866036e-01
IGHV3-49	0.2955061312	2.199662e-01	6.697766e-01	0.0224854597	0.927036723	0.9995992	-5.652955e-02	0.592479537	0.9546035	-0.0991356916	6.440897e-01
IGHV2-21	-0.9451779711	3.405569e-01	7.413228e-01	-0.9671939299	0.359825551	0.9995992	-9.408146e-01	0.827012536	0.9572213	-0.9275566639	7.973715e-01
IGKV1-31	0.3664531939	1.442419e-01	6.111415e-01	-0.4264632836	0.096468388	0.9995992	2.272651e-01	0.190184843	0.9546035	-0.2271062611	0.609451e-01
IGLV1-36	0.1396139348	6.938892e-01	8.060792e-01	-0.3866030316	0.276609419	0.9995992	-8.672373e-02	0.593798204	0.9546035	-0.2239450757	7.340370e-01
IGHV6-1	0.4745664911	2.147198e-01	6.680462e-01	0.1059722806	0.790101369	0.9995992	7.020142e-02	0.428532133	0.9546035	0.5298318397	6.459685e-02
IGHV3-15	0.1831268929	6.142640e-01	8.419469e-01	-0.4435254319	0.252211792	0.9995992	-4.685096e-01	0.895898794	0.9579808	-0.6286768786	9.390066e-01
IGHV2-26	-0.1387680198	6.291334e-01	8.431244e-01	0.1423490982	0.611114827	0.9995992	1.241414e-01	0.336805370	0.9546035	-0.2862788530	8.347524e-01
IGHV3-73	-0.0002163686	9.990571e-01	9.990571e-01	0.0424508357	0.814942918	0.9995992	-4.800526e-02	0.601736084	0.9546035	-0.0002293606	5.005145e-01
IGHV3-74	-0.2171599605	5.349300e-01	8.281031e-01	0.2276806785	0.488553318	0.9995992	1.687701e-01	0.313375647	0.9546035	0.1780785102	2.887483e-01
IGHV3-43	-0.0507224986	8.241126e-01	4.929827e-01	0.0623823074	0.775486192	0.9995992	-0.103974e-01	0.785653549	0.9572213	0.0483005341	1.437681e-01
IGLV9-49	-0.2500868889	7.448934e-01	9.009472e-01	-0.3083044813	0.704923072	0.9995992	-4.706451e-01	0.728000016	0.9546035	-0.2976800390	6.320609e-01
IGHV3-72	0.2309817882	2.847421e-01	6.987920e-01	0.0321307060	0.862603259	0.9995992	3.018219e-02	0.445806403	0.9546035	0.2525871901	2.108836e-01
IGKV10-13jIGKV1-13	0.1113295051	5.386365e-01	8.281031e-01	0.1302157263	0.481411022	0.9995992	1.038226e-01	0.286843233	0.9546035	-0.0365817558	5.870572e-01
IGKV6-21	-0.0555137106	8.488941e-01	9.510832e-01	-0.6992009378	0.021871712	0.9995992	-1.946407e-01	0.744088331	0.9546035	-0.6013039775	9.705988e-01
IGKV30-20	-0.4113971901	1.013194e-01	5.314990e-01	-0.0139637173	0.958204564	0.9995992	2.338126e-01	0.182059576	0.9546035	-0.1625917242	7.166960e-01
IGHV1-18	0.2116047217	3.286030e-01	7.272974e-01	-0.3177005487	0.149114412	0.9995992	-3.473422e-01	0.948585652	0.9707604	-0.2304982510	8.448769e-01
IGHV3-10	0.5841938289	1.335294e-01	5.889243e-01	-0.5514232330	0.167660057	0.9995992	-0.395962e-02	0.533652231	0.9546035	-0.3639783345	8.109760e-01
IGHV1-24	-0.075575449	7.699552e-01	9.192799e-01	0.0021639708	0.993438452	0.9995992	-1.678909e-01	0.765085645	0.9572213	-0.0659458846	5.980243e-01
IGHV4-28	0.2356666735	2.944828e-01	7.010683e-01	0.0766926971	0.733791528	0.9995992	-0.1003974e-01	0.668942755	0.9546035	0.0740800945	3.715164e-01
IGHV3-35	-0.0068252428	9.727048e-01	9.926294e-01	0.0543506971	0.784583035	0.9995992	0.1015308e-01	0.299496591	0.9546035	0.0284576421	4.477185e-01
IGHV3-38	0.3772482390	9.352128e-02	5.196358e-01	0.1127568067	0.621456331	0.9995992	1.048485e-01	0.327350954	0.9546035	0.1978813863	1.901383e-01
IGHV5-51	-0.1661371442	4.175242e-01	7.924897e-01	-0.0284865760	0.889686855	0.9995992	4.053416e-01	0.024770749	0.9546035	0.1478833890	2.374772e-01
IGHV2-70D	-0.1500767331	6.716634e-01	8.576613e-01	-0.4720493171	0.173635414	0.9995992	-4.836932e-02	0.552782241	0.9546035	-0.3542626763	8.460546e-01
IGKV1-8	0.1127158215	3.723527e-01	7.647336e-01	0.0173583270	0.891263422	0.9995992	6.673238e-02	0.303202647	0.9546035	0.0475937670	3.546776e-01
IGKV1-12jIGKV1D-12	-0.0723684703	6.703722e-01	8.576613e-01	-0.0670597597	0.692246832	0.9995992	5.268635e-02	0.380587302	0.9546035	0.0519888537	7.365993e-01
IGHV3-64D	0.4071183401	4.065198e-01	7.860114e-01	0.5801135566	0.210681963	0.9995992	-4.192016e-01	0.804854618	0.9572213	0.4469542255	5.142326e-01
IGHV5-10-1	-0.7814644556	2.244962e-02	3.455296e-01	0.6510868449	0.058316172	0.9995992	9.156627e-01	0.003300702	0.6502383	0.5348446110	6.153219e-02
IGLV7	0.2623500451	6.157109e-02	4.562264e-01	0.0958364619	0.503174496	0.9995992	-2.782388e-02	0.576882138	0.9546035	0.1895920469	7.448991e-02
PGP	-0.0709120376	5.318064e-01	8.281031e-01	-0.0885532248	0.433999549	0.9995992	0.166621e-02	0.463276434	0.9546035	-0.0551137863	6.841390e-01
IGLV22P2-ANXA2	0.0075163606	9.769090e-01	9.926889e-01	0.0912037001	0.728020877	0.9995992	-8.582050e-02	0.827222338	0.9546035	-0.0233910713	5.373852e-01
SMIM1	-0.2933879350	5.865272e-01	8.419469e-01	0.0334404986	0.950365243	0.9995992	-5.714844e-02	0.542126339	0.9546035	0.5049867136	1.768077e-01
PDLM1	-0.2428268436	5.403544e-02	4.562264e-01	-0.1078766391	0.407922681	0.9995992	-2.756597e-04	0.500834440	0.9546035	-0.0601755268	6.753728e-01
ACOT7	0.2030734847	1.357873e-01	5.932126e-01	-0.1147902408	0.406789356	0.9995992	9.478158e-02	0.235700599	0.9546035	-0.0892634994	7.319992e-01
SNAP23	-0.2937139209	2.673130e-01	6.940168e-01	-0.2321691713	0.394773153	0.9995992	2.153947e-02	0.467493948	0.9546035	0.00559978016	4.918603e-01
MASP2	-0.1776924445	5.059664e-01	8.151018e-01	0.1939679537	0.446407346	0.9995992	-6.596714e-02	0.597387934	0.9546035	-0.3610637783	8.929400e-01
PSMD11	0.0919280284	2.353006e-01	6.697766e-01	-0.1305248475	0.098954315	0.9995992	1.192964e-01	0.066381503	0.9546035	0.0139860690	4.311342e-01
PSMD12	-0.0744433021	5.580986e-01	8.319734e-01	-0.2150317746	0.091945132	0.9995992	3.811843e-03	0.488267994	0.9546035	-0.1447429238	8.761842e-01
PSMD9	-0.2626133440	2.559060e-02	3.556993e-01	0.0834150546	0.483106804	0.9995992	6.673930e-02	0.291092514	0.9546035	0.1652398429	8.883239e-02
CLIC1	0.0953232339	3.758352e-02	4.562264e-01	0.0398044382	0.425372896	0.9995992	2.420479e-02	0.321381924	0.9546035	0.0316718764	



KRT33A		-1.1433708720	1.833525e-01	6.356609e-01		-1.1006366224	0.224434791	0.9995992		-1.081206e+00	0.894277613		0.9579808		-0.9476069350	8.382922e-01
SEC14L2		0.0850617192	5.336491e-01	8.2810317e-01		-0.2308352036	0.087399780	0.9995992		-4.631779e-02	0.628729826		0.9546035		-0.1133430373	8.096751e-01
C1A01		-0.7487243330	1.084545e-01	5.408542e-01		0.1325553320	0.753639682	0.9995992		-8.547535e-01	0.965727542		0.9774190		-0.1180478926	6.041798e-01
ENOD01		-0.4715176275	2.026974e-01	6.646753e-01		0.0169527037	0.962973570	0.9995992		-1.267284e-01	0.634052734		0.9546035		0.2859290211	1.285194e-01
RTN3		2.3073732788	8.736584e-02	5.137633e-01		1.7203460394	0.159722806	0.9995992		-1.064167e+00	0.820199238		0.9572213		1.4824341577	1.019169e-01
PGLS		-0.0406305023	5.929075e-01	8.419469e-01		0.0495185509	0.521369533	0.9995992		4.606659e-02	0.273857783		0.9546035		0.1085970066	8.405946e-02
IPO7		-0.0867561125	2.479042e-01	6.760373e-01		0.0470969797	0.586193983	0.9995992		1.196060e-02	0.443890491		0.9546035		-0.0464106655	7.015071e-01
ARIH2		0.2949197986	5.604852e-02	4.562264e-01		0.0110866787	0.942718418	0.9995992		7.874035e-02	0.310667407		0.9546035		0.2293863915	7.351390e-02
APOM		-0.1304783456	4.069704e-01	7.860114e-01		0.2154962296	0.155973982	0.9995992		1.404382e-01	0.193304391		0.9546035		0.0816744805	2.919976e-01
PSMG1	1,00 VNN	0.0282104411	8.963614e-01	9.687085e-01		0.0223565236	0.918638735	0.9995992		-1.870024e-01	0.815560167		0.9572213		-0.2947785127	9.087450e-01
		-0.1321368527	7.205828e-01	8.833575e-01		0.2208990684	0.547073612	0.9995992		3.874643e-01	0.148197848		0.9546035		0.4336633238	1.232386e-01
ACSL3		0.0076841483	9.879681e-01	9.952791e-01		-0.2682650329	0.608234777	0.9995992		-5.772724e-01	0.866954151		0.9572213		-0.0376711027	5.281334e-01
OXSR1		0.0718070076	4.747706e-01	8.125882e-01		0.1031837400	0.308290487	0.9995992		1.169729e-01	0.120111599		0.9546035		0.1592576091	5.846198e-02
AP2A1		0.0482597164	6.258512e-01	8.423236e-01		-0.0776702972	0.438879487	0.9995992		1.924169e-02	0.421802131		0.9546035		-0.0730901425	7.679425e-01
CAVIN2		-0.1050284298	4.136819e-01	7.920435e-01		-0.0051818092	0.966911511	0.9995992		-2.289842e-01	0.962033236		0.9774190		-0.0654036466	6.935547e-01
BPN11		0.1195139876	5.549600e-01	8.319734e-01		0.1930936747	0.336890404	0.9995992		-2.285934e-01	0.873730604		0.9572213		0.0945959360	3.162057e-01
CYBSA		-0.0763834656	5.192517e-01	8.216271e-01		0.0469802339	0.704252330	0.9995992		-9.763896e-02	0.796172101		0.9572213		-0.0563599575	6.676341e-01
LDHA		0.0519200192	4.227864e-01	7.970233e-01		0.0431195332	0.502350096	0.9995992		2.200615e-02	0.370613290		0.9546035		0.0621725778	1.729669e-01
ALDH1A1		1.1205430218	4.356613e-01	8.021362e-01		0.0357316049	0.823067875	0.9995992		-0.074740e-02	0.676013197		0.9546035		0.0022673426	4.948097e-01
CYBSR3		-0.1424528663	4.632861e-01	8.069339e-01		0.0385504358	0.842657925	0.9995992		1.919228e-01	0.164221531		0.9546035		0.2696020700	8.218252e-02
GSR		0.0813784896	3.637597e-01	7.553917e-01		0.0173333408	0.852418296	0.9995992		1.072044e-01	0.119626935		0.9546035		0.2013823400	1.141735e-02
MT-CO2		-1.1004590716	1.745139e-01	6.291668e-01		-0.3796998835	0.631815905	0.9995992		-1.345402e-01	0.568798924		0.9546035		0.4199024093	3.047907e-01
SOD1		0.2248252813	8.954930e-04	1.319384e-01		0.0782701507	0.265274023	0.9995992		-1.339806e-03	0.507318436		0.9546035		0.1108078828	5.571723e-02
CP		-0.1473609919	2.088433e-01	6.658594e-01		-0.0919085683	0.437025199	0.9995992		-3.266919e-02	0.606977601		0.9546035		-0.2755680459	9.855639e-01
F13A1		-0.2108855853	1.610679e-02	3.187282e-01		-0.0324379576	0.721506134	0.9995992		-2.017422e-02	0.588649794		0.9546035		-0.1008038949	8.621350e-01
PNP		0.0890344455	2.413337e-01	6.725639e-01		0.0687023442	0.370472798	0.9995992		9.555609e-02	0.102509323		0.9546035		0.1039533386	9.451544e-02
HPRT1		0.0502193746	4.545832e-01	8.045226e-01		0.0072062627	0.917539460	0.9995992		-3.304995e-02	0.685487560		0.9546035		0.0670558795	1.718331e-01
	1,00 PGK	0.0928348678	7.355340e-02	4.803322e-01		0.0406506300	0.443528832	0.9995992		1.089531e-02	0.419349202		0.9546035		0.1005855484	3.298995e-02
AK1		-0.0505636265	6.645861e-01	8.576613e-01		0.0666350727	0.568943901	0.9995992		-5.464389e-02	0.675653384		0.9546035		0.1770521986	6.212604e-02
F2		-0.0740216557	4.223806e-01	7.970233e-01		0.1338833088	0.165773969	0.9995992		3.665274e-02	0.550855082		0.9546035		0.0568649391	2.680326e-01
C1R		-0.1333539675	1.676239e-01	6.287166e-01		-0.1056771955	0.278061946	0.9995992		8.306808e-03	0.466902099		0.9546035		-0.2175402847	9.867066e-01
HP		0.4063158882	6.364420e-02	4.597775e-01		-0.0058124639	0.978639488	0.9995992		1.441944e-01	0.259750352		0.9546035		-0.0955462694	6.578970e-01
HPR		-0.1866178269	3.773427e-01	7.647330e-01		-0.2009496314	0.342320051	0.9995992		1.166150e-01	0.297265931		0.9546035		-0.0509712136	5.935741e-01
F9		0.0940089134	5.476926e-01	8.281031e-01		0.0340969259	0.830944976	0.9995992		4.527861e-01	0.001793009		0.6382854		-0.0448422341	6.069523e-01
F10		-0.1068402489	0.416672e-01	7.845341e-01		0.0557322871	0.662911353	0.9995992		3.143534e-02	0.403357755		0.9546035		-0.1322105888	6.534064e-01
CFD		0.3613883469	5.064062e-01	8.510180e-01		0.4729258137	0.355088495	0.9995992		-5.230035e-01	0.831503155		0.9572213		-0.6585682025	8.506717e-01
PLG		-0.137925790	1.231230e-01	5.729582e-01		0.1105713036	0.222637019	0.9995992		5.135366e-02	0.289020256		0.9546035		-0.0581948808	7.438352e-01
F12		-0.1372337559	2.149762e-01	6.680462e-01		-0.0946702582	0.404588102	0.9995992		-1.633020e-01	0.925256055		0.9644203		-0.1419733377	8.921652e-01
CFB		0.0393870268	6.824806e-01	8.636041e-01		-0.0995082664	0.299797315	0.9995992		-5.716735e-02	0.719623959		0.9546035		-0.1740882309	9.588730e-01
CA1		0.2202910804	2.232461e-03	1.319384e-01		0.0115212357	0.877609826	0.9995992		2.906778e-02	0.352001097		0.9546035		0.0538933709	2.415502e-01
CA2		0.1592037197	5.781317e-02	4.562264e-01		-0.0205026821	0.812623275	0.9995992		3.909498e-02	0.327404839		0.9546035		0.1109632676	1.110635e-01
SERPINC1		-0.1056107505	1.886815e-01	6.427328e-01		0.0056431894	0.843004974	0.9995992		5.052278e-02	0.271689436		0.9546035		-0.0468074282	7.328513e-01
SERPINA1		0.1180720006	1.805392e-01	6.347267e-01		-0.0397143092	0.655831726	0.9995992		-1.040058e-01	0.875428256		0.9572213		-0.0860951945	8.251346e-01
SERPINA3		-0.0841638775	4.698593e-01	8.121938e-01		0.0566287955	0.626343967	0.9995992		-7.157724e-02	0.624191445		0.9546035		-0.0289140679	5.965931e-01
AGT		-0.2342520774	8.795135e-02	5.146460e-01		0.1481362542	0.272225135	0.9995992		2.600134e-01	0.030450348		0.9546035		0.0871309990	2.635643e-01
A2M		-0.0976583130	5.057729e-01	8.510180e-01		-0.1121123810	0.439975684	0.9995992		1.468895e-01	0.163140573		0.9546035		0.0415894066	3.832176e-01
C3		-0.2199484092	2.492554e-02	3.507394e-01		-0.0910922449	0.366416477	0.9995992		-2.032249e-03	0.508466860		0.9546035		-0.1605590788	9.438459e-01
C5		-0.0774399392	4.262466e-01	7.973739e-01		-0.0634310258	0.506202345	0.9995992		-5.873996e-02	0.723492297		0.9546035		-0.1358283894	9.215856e-01
TMPI1		0.00210604382	8.832344e-01	9.666510e-01		-0.0123452433	0.931040595	0.9995992		-3.273149e-01	0.989869915		0.9816649		-0.2826101016	6.686338e-01
CS73		0.0989296274	7.394959e-01	8.976831e-01		0.2829295286	0.318486335	0.9995992		-3.730051e-01	0.996630008		0.9579808		-0.3853283310	8.692971e-01
KN01		-0.0698610768	3.291913e-01	7.272974e-01		-0.0118006884	0.904229212	0.9995992		-3.153861e-02	0.620881590		0.9546035		-0.0976725363	8.315723e-01
KRAS		-0.0938303662	6.196170e-01	8.419469e-01		-0.0687805191	0.720746031	0.9995992		-5.309504e-02	0.609765500		0.9546035		0.1177978285	2.755575e-01
IGF2		-0.1869685369	1.764673e-01	6.320739e-01		0.0234477522	0.843425923	0.9995992		-8.389946e-02	0.742757548		0.9546035		-0.2397472017	9.759899e-01
JCHAIN		0.0755490472	7.534903e-01	9.072100e-01		-0.0122909061	0.960393231	0.9995992		2.145708e-01	0.192306055		0.9546035		-0.1412612406	7.078046e-01
IGKV1D-33;IGKV1-33		-0.0510109585	8.173018e-01	9.406531e-01		-0.0536682787	0.808022548	0.9995992		5.526782e-01	0.400170376		0.9546035		-0.1602256610	7.580964e-01
IGKV1-39;IGKV1D-39		-0.0080352499	9.566079e-01	9.907192e-01		-0.1437881692	0.333863177	0.9995992		2.218353e-01	0.068514225		0.9546035		0.0827776184	2.890957e-01
IGKV1-17		-0.2083202906	2.285325e-01	6.697768e-01		0.0482104370	0.778973694	0.9995992		1.219011e-01	0.247365877		0.9546035		0.0282810000	4.354931e-01
IGKV1D-16		-0.1423893837	5.405784e-01	8.281031e-01		0.2364178908	0.304685293	0.9995992		8.023422e-02	0.362577653		0.9546035		0.5650157064	7.487950e-03
IGKV1-5		0.7														

IGLV7-43	0.1992754241	3.137463e-01	7.197712e-01	0.1452901641	0.465110219	0.9995992	3.921394e-02	0.422252806	0.9546035	0.1052650597	2.986314e-01
A1BG	-0.0494782458	6.102293e-01	8.419469e-01	-0.0641291603	0.516551947	0.9995992	-4.490545e-02	0.675418995	0.9546035	-0.0759872728	7.769688e-01
VWF	0.0290776885	8.901807e-01	9.687085e-01	-0.3894991602	0.066106332	0.9995992	-1.322782e-01	0.732236618	0.9546035	-0.3360186116	8.340555e-01
SHBG	-0.4726247962	1.572656e-01	6.224838e-01	-0.6573485195	0.064269298	0.9995992	-6.344963e-02	0.968536797	0.9774190	-0.5702048633	9.364297e-01
GAPDH	0.0321011316	5.734286e-01	8.344560e-01	-0.0113524856	0.839075630	0.9995992	-1.479399e-02	0.599670254	0.9546035	-0.0064749852	5.469767e-01
ASL	-0.0457988431	6.270183e-01	8.423236e-01	0.0617396715	1.502282118	0.9995992	8.044471e-02	0.201767853	0.9546035	0.0881363482	1.693631e-01
IGKV1-16	0.0539472818	7.965238e-01	9.305665e-01	-0.0707399425	0.749591758	0.9995992	-3.032152e-01	0.924798295	0.9644203	-0.2158235438	8.182447e-01
HLA-A	-0.6164053161	9.852429e-02	5.314990e-01	-0.1290942400	0.721973957	0.9995992	-0.121359e-02	0.576232463	0.9546035	-0.0390363095	5.431770e-01
CAPNS1	0.0795917066	2.600748e-01	6.900429e-01	-0.0174084444	0.803584722	0.9995992	8.169504e-02	0.130507056	0.9546035	0.0476963819	2.404474e-01
HSPB1	0.1927060846	6.157195e-01	8.419469e-01	0.3253511394	0.380668674	0.9995992	-9.340590e-02	0.959584063	0.9546035	-0.2444017461	7.122315e-01
CYBB	-0.4520546215	1.294345e-01	5.795137e-01	-0.0642695033	0.827516227	0.9995992	-1.714822e-01	0.715265879	0.9546035	0.2190293298	2.355706e-01
GNAI2	-0.5007065503	2.004181e-01	6.617157e-01	-0.2320262731	0.554003452	0.9995992	-2.381496e-01	0.727812801	0.9546035	0.0625124700	4.381073e-01
GYPC	-0.1939925300	7.385492e-01	8.976831e-01	0.1564506286	0.745091749	0.9995992	-3.243893e-01	0.745586676	0.9546035	0.4839273977	1.542532e-01
ATP1A1	0.5136801953	6.076422e-01	8.419469e-01	1.1650308142	0.264554320	0.9995992	-1.690079e+00	0.038627447	0.9681131	0.6244650131	2.695602e-01
ARG1	-0.1331988362	4.605543e-01	8.069339e-01	0.0077140750	0.967720049	0.9995992	6.582955e-02	0.360282222	0.9546035	0.0231113512	4.490813e-01
APOD	0.0918048497	4.622548e-01	8.069339e-01	-0.0381019677	0.784294142	0.9995992	0.069542e-02	0.319466721	0.9546035	0.0359261887	3.791542e-01
ITGB3	-0.6596410160	5.801728e-02	4.562264e-01	-0.0352863081	0.918954486	0.9995992	-2.781979e-03	0.503170287	0.9546035	0.1921160863	2.921322e-01
ITGB2	-0.1426819573	6.777783e-01	8.610482e-01	0.0890049421	0.795353630	0.9995992	-9.091856e-02	0.612391706	0.9546035	0.1677519263	3.144732e-01
S100A8	0.2350462055	1.964188e-01	6.539918e-01	-0.0458424814	0.803373121	0.9995992	4.534614e-02	0.404025079	0.9546035	0.0391341605	4.154300e-01
SLC25A5,SLC25A4,SLC25A5	-0.0530102312	9.111179e-01	9.722363e-01	0.5992182908	0.191812305	0.9995992	2.333971e-01	0.312713080	0.9546035	0.8070458143	3.682287e-02
SERPINA5	0.0934388214	4.791658e-01	8.125882e-01	0.0177832646	0.895812140	0.9995992	-1.172125e-01	0.806844716	0.9572213	-0.0400649564	6.125938e-01
SERPIN1	0.0860531219	3.841125e-01	7.708330e-01	-0.1257036127	0.199648533	0.9995992	-7.576300e-03	0.529484214	0.9546035	-0.1586093872	4.328121e-01
CFI	-0.3505094430	2.060289e-03	1.313084e-01	-0.0009170049	0.993707292	0.9995992	-2.643087e-02	0.588770567	0.9546035	-0.2109548809	9.601948e-01
F13B	-0.1681969288	9.363996e-02	5.196358e-01	0.0245606822	0.807553870	0.9995992	6.417812e-02	0.266919867	0.9546035	-0.0529040883	7.012062e-01
ISG15	0.4467794642	3.004082e-01	7.059294e-01	0.2218751483	0.600825646	0.9995992	-2.177130e-01	0.690985587	0.9546035	-0.4218952125	6.109325e-01
MPO	0.1373647499	4.141141e-01	7.920435e-01	-0.0707053223	0.673099554	0.9995992	-1.367632e-01	0.788173894	0.9572213	0.0878279606	3.016454e-01
EIP2S1	0.0853357093	3.213326e-01	7.229846e-01	-0.0272503903	0.761283617	0.9995992	-2.484276e-02	0.609826538	0.9546035	-0.1684992758	6.954357e-01
HMGN2	-0.4879639902	2.348096e-01	6.697768e-01	-0.1785338372	0.674519247	0.9995992	-7.000109e-02	0.566432647	0.9546035	-0.1017883709	5.893486e-01
RPLP2	0.0192325159	9.366048e-01	9.823132e-01	-0.0803862812	0.747359278	0.9995992	-3.535981e-01	0.933106884	0.9667703	-0.3043250650	8.789940e-01
RPLP0,RPLP0P6	0.4043388316	1.221755e-01	5.724507e-01	0.0976887506	0.709306826	0.9995992	-8.751142e-02	0.828137697	0.9546035	0.1363887066	2.986728e-01
CLEC3B	-0.3367999452	1.341899e-03	1.319384e-01	-0.1035373391	0.351265883	0.9995992	-2.851547e-02	0.591696781	0.9546035	-0.1358606948	6.951111e-01
SSB	0.0353451621	7.454537e-01	9.009472e-01	0.0176508338	0.871260028	0.9995992	-1.264982e-01	0.873173673	0.9572213	-0.0033197329	5.128073e-01
SERPINA7	0.0625009537	6.197297e-01	8.419469e-01	0.0164444012	0.894043987	0.9995992	-1.974448e-01	0.938290092	0.9681131	-0.1166745392	8.250089e-01
SERPIND1	-0.0906285847	3.496771e-01	7.487934e-01	-0.0701967338	0.476795481	0.9995992	-5.044152e-03	0.520289068	0.9546035	-0.1118909531	6.659070e-01
ITGB1	-1.7850965338	6.709924e-02	4.639407e-01	-0.4266194583	0.637540598	0.9995992	0.8089717e-02	0.462668434	0.9546035	0.0633758547	4.737346e-01
UROD	0.0840782835	4.826060e-01	8.129736e-01	-0.0126371858	0.917896339	0.9995992	-1.000596e-02	0.532659384	0.9546035	0.0176055170	4.458957e-01
BCHE	-0.1851444377	1.828486e-01	6.356009e-01	-0.2189380398	0.132682552	0.9995992	-1.160420e-02	0.800624344	0.9572213	-0.1130568420	7.842025e-01
IGKV2-30	0.0844138941	6.949074e-01	8.664351e-01	-0.0568228472	0.789174411	0.9995992	-3.275210e-01	0.934871799	0.9667703	-0.0664208899	6.198343e-01
IGKV4-1	0.0174555760	9.097211e-01	9.722363e-01	0.2140671490	0.154696024	0.9995992	1.513111e-01	0.160829087	0.9546035	0.1025433432	2.544031e-01
IGHV4-34	-0.0165047298	9.175168e-01	9.741133e-01	-0.0582581717	0.716811027	0.9995992	8.863424e-02	0.292933717	0.9546035	-0.0116658725	5.295207e-01
GSN	-0.1144466602	2.615507e-01	6.900429e-01	0.0668317413	0.512279442	0.9995992	-1.157117e-02	0.544823232	0.9546035	-0.0374838478	6.327592e-01
PTMA	0.2471041762	2.882082e-01	6.987920e-01	-0.0069070839	0.976794939	0.9995992	-2.813901e-01	0.117651840	0.9546035	0.1470825977	2.680341e-01
ATP5F1B	-0.3291821384	1.138996e-01	5.517720e-01	0.0209545539	0.820546880	0.9995992	5.651393e-02	0.396122072	0.9546035	0.1491741739	2.384087e-01
C2	-0.0634284887	4.766816e-01	8.125882e-01	-0.0878377464	0.352180811	0.9995992	1.454566e-02	0.433545152	0.9546035	-0.0568689143	7.181182e-01
S100A9	0.2119449019	2.117336e-01	6.680462e-01	-0.0315646233	0.859592420	0.9995992	-1.745255e-03	0.504001008	0.9546035	0.0466570061	3.919767e-01
S100A6	0.1327895878	9.641582e-02	5.300628e-01	-0.0333760741	0.689400266	0.9995992	-3.754484e-04	0.501804980	0.9546035	-0.0025601821	5.124960e-01
APOA4	-0.0898345828	6.987488e-01	6.889477e-01	0.1439549816	0.520456706	0.9995992	-1.279826e-01	0.706162894	0.9546035	-0.0420076609	5.727098e-01
E1F4E	-0.0214551492	8.203410e-01	9.407844e-01	-0.0057707582	0.951364797	0.9995992	8.623333e-02	0.184540780	0.9546035	-0.0434956292	6.676517e-01
ENO1	0.0831536695	2.736164e-01	6.944775e-01	-0.0561905930	0.481145309	0.9995992	3.308328e-02	0.338021378	0.9546035	-0.0613832870	7.786112e-01
PYGL	0.2815549016	8.095964e-02	5.027637e-01	0.0284658928	0.865282999	0.9995992	-2.968213e-02	0.570935822	0.9546035	0.1519329061	1.819398e-01
GPI	0.0498818040	6.485993e-01	8.489971e-01	0.0682102316	0.540686713	0.9995992	6.394490e-02	0.276798302	0.9546035	0.1519538080	9.345424e-02
TPM3	-0.0116311683	8.511349e-01	9.517895e-01	-0.0012798757	0.984323191	0.9995992	-5.446517e-02	0.813830458	0.9572213	0.0383807365	2.802604e-01
LDHB	0.1202713449	1.165528e-01	5.600218e-01	-0.0507916118	0.501205601	0.9995992	-4.620379e-02	0.718426692	0.9546035	0.0457875128	2.720086e-01
GPX1	-0.0669030630	6.030824e-01	8.419469e-01	-0.1753803740	0.175778472	0.9995992	-1.740098e-01	0.911318775	0.9634871	-0.1287603216	6.347726e-01
PROS1	-0.1002157818	3.256900e-01	7.249823e-01	0.1479586919	0.152849430	0.9995992	-0.069772e-02	0.654221875	0.9546035	-0.0455329864	6.628046e-01
P4HB	-0.183534256	4.899640e-01	8.151018e-01	-0.2660087377	0.335167542	0.9995992	3.788158e-02	0.443928287	0.9546035	-0.030888974	2.300116e-01
ACYP1	-0.0156004440	8.412832e-01	9.500891e-01	0.0926155263	0.238722959	0.9995992	6.155155e-02	0.217179538	0.9546035	0.1582773648	2.572316e-02
CTSD	-0.0970980517	6.014635e-01	8.419469e-01	-0.1495142137	0.436622675	0.9995992	-1.151125e-01	0.731335000	0.9546035	-0.3446355354	5.929084e-01
C8A	-0.1785280157	6.727812e-02	4.639407e-01	-0.0911416532	0.348305266	0.9995992	2.864626e-02	0.388253701	0.9546035	-0.1729078729	6.826842e-01
C8B	-0.1720841527	5.511866e-02	4.582264e-01	-0.0131218931	0.885400240	0.9995992	4.289821e-02	0.320294940	0.9546035	-0.0881288072	8.385344e-01
GP1BA	-0.5724759588	1.429422e-01	6.099555e-01	0.0125550077	0.974514265	0.9995992	-3.439770e-01	0.810733384	0.9572213	-0.1860101383	6.710310e-01
C8G	-0.2290150741	3.920967e-02	4.198744e-01	0.0208584038	0.852623782	0.9995992	2.935931e-02	0.397870085	0.9546035	-0.0854458547	7.817303e-01
CAPN1	0.0026049896	9.651328e-01	9.923248e-01	0.0090252100	0.881777302	0.9995992	1.064753e-01	0.036467226	0.9546035	0.0976774413	4.536262e-02
TUBB	-0.1219428871	2.673874e-01	6.987920e-01	-0.0342010095	0.762495017	0.9995992	5.448674e-02	0.322217448	0.9546035	0.0553491681	3.139452e-01
CA3	0.1052876520	4.390692e-01	8.02								



MBL2	0.6067574847	1.460993e-01	6.145529e-01	0.4012762315	0.331047693	0.9995992	-2.001593e-01	0.681902920	0.9548035	0.2924340611	2.568950e-01
SPTB	0.1053300663	2.767940e-01	6.983553e-01	0.0640089111	0.503826629	0.9995992	-7.730738e-02	0.782920413	0.9548035	0.0942545414	1.509549e-01
LAMP1	-0.563739832	1.811651e-01	6.347267e-01	-0.1905192693	0.661350292	0.9995992	1.131651e-01	0.393941119	0.9548035	0.2376762963	2.941249e-01
G6PD	0.0539872698	4.051279e-01	7.850184e-01	0.0437665648	0.511562158	0.9995992	9.183032e-03	0.444985144	0.9548035	0.0763340699	1.328158e-01
MTFHF01	-0.0745107566	4.788512e-01	8.126882e-01	-0.1199839924	0.251367909	0.9995992	2.063238e-02	0.423443527	0.9548035	-0.1189227157	8.747956e-01
CETP	-0.0205248337	8.962413e-01	9.687085e-01	-0.1790022116	0.351126646	0.9995992	3.275845e-01	0.045226209	0.9548035	-0.0954349359	6.872422e-01
EPX	-0.0972330552	6.218368e-01	8.419469e-01	-0.1276360637	0.512776105	0.9995992	-1.594683e-01	0.788065808	0.9572213	0.0104667670	4.788457e-01
SCGB1A1	1.2930310495	4.126340e-01	7.920435e-01	1.4339091634	0.365174691	0.9995992	-9.371139e-01	0.727587288	0.9548035	0.1727290404	8.272087e-01
ADH5	-0.0917257455	3.763847e-01	7.647336e-01	-0.0111536589	0.914503651	0.9995992	-5.621296e-02	0.73699570	0.9548035	0.0168148767	4.385016e-01
PRPS2	-0.5144567240	1.392358e-01	6.012201e-01	0.2141575723	0.529840169	0.9995992	-1.267741e-01	0.642733718	0.9548035	0.1695318967	3.059008e-01
HARS1	0.2116368769	4.935227e-01	8.151018e-01	0.1951940911	0.535987446	0.9995992	3.493695e-01	0.125949212	0.9548035	0.5117833212	5.123141e-02
F5	-0.1577887704	2.851315e-01	6.987920e-01	-0.1544061177	0.310333860	0.9995992	-1.449132e-02	0.538111575	0.9548035	-0.1079767766	7.619324e-01
ANXA3	-0.6540582944	3.713104e-01	7.647280e-01	-0.7226298188	0.358880053	0.9995992	-9.196776e-01	0.893193593	0.9579808	-0.8806255747	8.491691e-01
RNASE3	-0.3633229489	1.524541e-01	6.224838e-01	-0.0699696880	0.785669675	0.9995992	-2.569371e-01	0.843340599	0.9572213	-0.1653280922	7.348239e-01
ACTN1	-0.0936782598	4.573970e-01	8.069393e-01	0.1030641344	0.410753663	0.9995992	2.329297e-02	0.428481818	0.9548035	0.1111260527	1.825345e-01
MYL4	0.1071012235	5.906854e-01	8.419469e-01	0.0121344003	0.948942331	0.9995992	3.587713e-01	0.039998543	0.9548035	0.1028727546	2.830324e-01
PEPD	-0.0322548069	7.697474e-01	9.192799e-01	0.1404269923	0.230374702	0.9995992	2.231507e-02	0.419695147	0.9548035	0.1136398583	1.702837e-01
COX4I1	-0.9921140743	1.681023e-01	6.287166e-01	0.0418662360	0.952487217	0.9995992	-1.820924e-01	0.607582871	0.9548035	0.4623518516	2.584397e-01
GP1BB	-0.8401482789	7.019804e-02	4.698433e-01	0.0845658078	0.813703224	0.9995992	-1.421528e-01	0.656728934	0.9548035	0.3006790113	0.880184e-01
LAMP2	-0.5259289791	2.342588e-01	6.697768e-01	-0.1515662419	0.735967337	0.9995992	-2.887038e-01	0.736433613	0.9548035	-0.5670962688	9.005603e-01
RNH1	0.1748240441	2.134508e-02	4.532296e-01	-0.0237326167	0.761033359	0.9995992	-2.567825e-02	0.625580968	0.9548035	0.0713074036	1.801015e-01
BMP1;TL2	-0.1315783652	2.315347e-01	6.697768e-01	-0.0758997734	0.498087532	0.9995992	-1.648482e-01	0.934841531	0.9667703	-0.1549856754	4.146415e-01
ICAM2	-0.2377638650	3.217275e-01	7.225946e-01	0.0830341735	0.721845489	0.9995992	-2.862555e-01	0.867664615	0.9579808	-0.0377847409	5.622092e-01
EEF2	0.0759157212	6.719341e-01	8.576613e-01	0.1571456890	0.366597310	0.9995992	-1.862277e-02	0.540605252	0.9548035	0.1687190418	1.680025e-01
PDIA4	4.8203069898	1.351801e-01	9.32126e-01	-0.2145581293	0.902582731	0.9995992	4.816101e-01	0.394014741	0.9548035	-0.0423107177	5.094535e-01
C6	-0.0785439366	5.294156e-01	8.277370e-01	-0.0477171618	0.711853866	0.9995992	1.108216e-01	0.193079492	0.9548035	0.0353474994	3.885821e-01
TPY1	0.0672663854	5.668562e-01	8.344560e-01	-0.1507657656	0.21205928	0.9995992	1.078364e-01	0.181983514	0.9548035	-0.0935163667	7.672227e-01
ALAD	0.1624822225	3.732572e-02	4.123271e-01	0.0557328576	0.503545925	0.9995992	8.080956e-02	0.156573037	0.9548035	0.1310950565	6.057078e-02
PRG2	-0.0418286138	9.827043e-01	9.920806e-01	0.1961605474	0.819672238	0.9995992	3.948806e-01	0.354744635	0.9548035	0.0168411540	4.920698e-01
LCPI	0.0044182170	9.613929e-01	9.920806e-01	-0.0251035027	0.772651548	0.9995992	-4.272239e-02	0.685118863	0.9548035	0.0284820666	3.685783e-01
APEH	-0.1307088366	3.019007e-01	7.082166e-01	0.0123959498	0.924879513	0.9995992	9.051104e-02	0.420303428	0.9548035	0.1344828483	1.828017e-01
ETFA	0.2251713816	2.860200e-01	6.987920e-01	0.2370151643	0.276799415	0.9995992	1.441551e-01	0.253033731	0.9548035	0.0406616888	4.252993e-01
CD59	-0.4029429260	3.476438e-01	7.479692e-01	0.0843481091	0.845049360	0.9995992	7.899999e-02	0.427510900	0.9548035	0.4925818952	1.280442e-01
SELL	0.0454741071	8.166387e-01	9.406531e-01	-0.2122194472	0.276912257	0.9995992	-2.495727e-02	0.551199349	0.9548035	-0.1739842601	8.014846e-01
MF	-0.0992424934	3.326747e-01	7.329444e-01	-0.0601726709	0.568871340	0.9995992	1.349045e-01	0.092239161	0.9548035	0.1549855003	7.926000e-02
CD99	-1.2727644932	2.150918e-01	6.680462e-01	-1.3194204622	0.252569331	0.9995992	-1.086110e+00	0.857524295	0.9572213	-1.3114962973	8.277714e-01
PRKCSH	-0.4789454092	1.063199e-01	5.382651e-01	-0.2602827953	0.398918310	0.9995992	-1.863972e-02	0.524814766	0.9548035	0.0280881618	4.623447e-01
HCLS1	0.1637335041	3.528271e-01	7.498135e-01	0.1392140053	0.426765961	0.9995992	-3.688044e-01	0.981351015	0.9880085	-0.1267141043	7.529264e-01
FDP5	0.1899647343	5.131783e-02	4.562264e-01	0.1732376650	0.095374685	0.9995992	8.130152e-02	0.209613689	0.9548035	0.1271981147	1.169696e-01
AKR1A1	0.1476184006	3.227834e-01	7.225946e-01	-0.0319516999	0.829250207	0.9995992	6.980777e-02	0.324434952	0.9548035	0.0570700298	3.542769e-01
PKM	0.0700156348	5.615374e-01	8.323189e-01	0.0842395177	0.474546033	0.9995992	-7.752788e-02	0.737648236	0.9548035	-0.0183061180	5.624373e-01
HSP90B1	-0.3574952116	1.006901e-01	5.314990e-01	-0.2260487820	0.321086234	0.9995992	1.234331e-01	0.289753198	0.9548035	0.1748329820	2.037289e-01
IDE	0.2741196803	1.171972e-02	3.084914e-01	0.0424268820	0.702277929	0.9995992	-6.169866e-02	0.711370998	0.9548035	0.1623382199	6.276234e-02
GP9	-0.9295198445	4.151300e-02	4.250683e-01	0.1575785273	0.722386375	0.9995992	6.247226e-02	0.444681979	0.9548035	0.1978679806	3.295142e-01
MMAP9	0.5658747885	2.035722e-02	3.455296e-01	-0.0490008635	0.841929186	0.9995992	-3.031836e-02	0.548130966	0.9548035	2.4040415462	1.581118e-01
DARS1	0.0558762275	4.453179e-01	8.021362e-01	0.0953031274	0.181955433	0.9995992	-5.195026e-02	0.761898634	0.9561271	0.0972122153	9.312136e-02
UCR9B	-0.1802744706	1.222581e-01	5.724507e-01	-0.0368237006	0.759220402	0.9995992	-5.707001e-03	0.519035163	0.9548035	-0.1107849369	8.226265e-01
AKR1B1	0.0640945175	6.650526e-01	8.576613e-01	-0.1885079938	0.215603444	0.9995992	-4.537762e-02	0.512071310	0.9548035	-0.1053089102	7.497351e-01
ANPEP	-0.3652785368	5.118563e-01	8.164833e-01	-0.5506067740	0.323697119	0.9995992	5.930983e-02	0.458636664	0.9548035	-0.7175536637	8.988514e-01
RAC2	0.0072684157	9.781102e-01	9.932356e-01	0.1545430963	0.556495910	0.9995992	-2.808982e-02	0.541126970	0.9548035	0.1742381931	2.551103e-01
CPH1	-0.1954868577	7.035725e-02	4.698433e-01	-0.1585013577	0.152317714	0.9995992	-4.326809e-02	0.652487465	0.9548035	-0.2065386735	9.647221e-01
GSPT1	0.1888516835	1.570570e-01	6.224838e-01	0.0465501977	0.728044215	0.9995992	5.592668e-02	0.266179357	0.9548035	0.0546487591	3.426639e-01
EZR	0.1570673993	3.106801e-01	7.192836e-01	-0.1007759141	0.507119749	0.9995992	8.481455e-02	0.296001967	0.9548035	-0.1376299756	8.105757e-01
UCHL3	-0.0264598987	7.316882e-01	8.93254e-01	-0.0155301796	0.842917853	0.9995992	-3.952972e-02	0.690575427	0.9548035	0.0450682515	2.813045e-01
NME1	0.0939716539	2.294221e-01	6.697768e-01	0.0142124818	0.857528725	0.9995992	-1.008351e-01	0.989390804	0.9579808	0.0075155679	4.617273e-01
IGL1	0.1910273824	2.623314e-01	6.900429e-01	-0.0278165740	0.868447453	0.9995992	-2.857126e-02	0.565473553	0.9548035	0.0720640856	3.315895e-01
DSP	0.0977312502	8.732016e-01	9.614924e-01	-0.0240236364	0.969123954	0.9995992	-3.886989e-01	0.733189859	0.9548035	-0.1582955180	5.979201e-01
CD44	-0.2310199877	4.814131e-01	8.129736e-01	0.0388381433	0.906477477	0.9995992	-1.000159e-01	0.617832727	0.9548035	0.3467669416	1.367722e-01
NOO2	-0.4121446103	1.317055e-01	5.830575e-01	0.3166719615	0.253734767	0.9995992	2.157790e-01	0.219705141	0.9548035	0.3108891367	1.588522e-01
CBR1	-0.1097203233	2.258702e-01	6.697768e-01	0.0096522585	0.918557377	0.9995992	-1.074653e-02	0.546088521	0.9548035	0.0374960171	3.460632e-01
ANK1	0.0338725770	5.781204e-01	8.363994e-01	0.0402187724	0.515893242	0.9995992	2.287892e-02	0.357305781	0.9548035	0.1332322512	1.935691e-02
H1-5	0.0171644247	9.064998e-01	9.710488e-01	-0.0216223987	0.880592721	0.9995992	5.852169e-02	0.347315002	0.9548035	0.0003773640	4.896037e-01
H1-3	-0.2657635933	2.678937e-01	6.940168e-01	-0.1063404396	0.659088331	0.9995992	1.655333e-01	0.250003881	0.9548035	0.1519922646	2.602953e-01
EPB42	-0.0450044321	6.726329e-01	8.576613e-01	0.0333398501	0.739975863	0.9995992	9.738624e-03	0.463918940	0.9548035	0.1297757282	1.145566e-01
CD36	-0.7914375443	8.084960e-02	5.027637e-01	0.3186743297	0.453897601	0.9995992	2.733828e-01	0.273596983	0.9548035		

RPS12	0.2160733461	1.661508e-01	6.287166e-01	0.0571793306	0.710670779	0.9995992	3.309335e-02	0.418365305	0.9546035	-0.0942243221	7.303717e-01
DNAJB1	0.0740765778	4.842210e-01	8.129736e-01	-0.0093133227	0.929934164	0.9995992	9.302122e-02	0.193973861	0.9546035	0.1789230583	4.022675e-02
DNAJB2	-0.0001709445	9.979405e-01	9.990571e-01	-0.0537228117	0.4101712708	0.9995992	6.489804e-02	0.166920425	0.9546035	-0.0065956764	5.373022e-01
ATP5F1A	-0.3622197115	9.837501e-02	5.314990e-01	0.0969489434	0.661729437	0.9995992	8.396333e-02	0.353429293	0.9546035	0.3118405772	7.552395e-02
PSMA1	0.1328307004	5.731480e-02	4.562264e-01	-0.0140480842	0.844800570	0.9995992	-1.291404e-01	0.964765074	0.9774190	-0.0306320771	6.663257e-01
PSMA2	0.0555234051	6.051073e-01	8.419469e-01	0.0535915241	0.610353759	0.9995992	9.900803e-02	0.184870292	0.9546035	0.1609650696	6.198916e-02
PSMA3	0.1036385360	1.050540e-01	5.375490e-01	-0.0587801944	0.377287567	0.9995992	-2.875876e-02	0.672201137	0.9546035	-0.0172147543	6.020246e-01
PSMA4	0.0315326894	6.787933e-01	8.610482e-01	-0.0866111870	0.264560315	0.9995992	2.403889e-02	0.376033063	0.9546035	0.0067343282	4.657562e-01
S100P	0.1408891090	5.421083e-01	8.281031e-01	-0.1916403304	0.392047851	0.9995992	-2.583478e-01	0.865984970	0.9572213	-0.0074338154	5.134483e-01
MSN	-0.0101450502	8.682258e-01	9.586801e-01	0.1034482345	0.101766671	0.9995992	2.677371e-02	0.331201779	0.9546035	0.1173844690	3.402769e-02
S100A4	0.0765848598	6.368983e-01	8.484797e-01	-0.1266841051	0.424930137	0.9995992	-2.720043e-01	0.950934531	0.9714819	0.1196412248	2.244612e-01
HMG2	0.0862040067	6.235042e-01	8.419469e-01	0.0543471454	0.765062212	0.9995992	8.851705e-02	0.102220005	0.9546035	0.1668267662	1.815242e-01
PTBP1	-0.0198950340	8.763286e-01	9.635539e-01	-0.0373526752	0.774040519	0.9995992	-5.268643e-02	0.673035758	0.9546035	0.0196539826	4.272787e-01
EEF10	0.0719345674	7.866700e-01	9.309940e-01	-0.0582277700	0.833296170	0.9995992	-1.864099e-01	0.748181843	0.9546035	-0.0475390912	5.674411e-01
MST1	0.0726640321	7.167175e-01	8.824584e-01	-0.1334468437	0.507695388	0.9995992	-2.619741e-01	0.901018705	0.9579808	-0.1187688826	7.204238e-01
STOM	-0.6106067065	3.002441e-01	7.059294e-01	0.1296801748	0.823810313	0.9995992	2.833033e-02	0.480640351	0.9546035	0.6949477199	1.230980e-01
PON1	-0.2599124415	9.128323e-02	5.171548e-01	-0.2209039628	0.153625388	0.9995992	3.696848e-03	0.490739203	0.9546035	-0.1914075777	9.008220e-01
YWHAQ	-0.0376114130	7.041419e-01	8.724274e-01	0.0543497603	0.582119833	0.9995992	-1.085726e-02	0.542997357	0.9546035	-0.0079426795	5.325462e-01
CALR	-0.4114765827	1.286725e-01	5.792482e-01	-0.2872982879	0.294794643	0.9995992	1.197870e-01	0.332003436	0.9546035	0.0719751400	3.988782e-01
CANX	-0.3359919225	2.761775e-01	6.983553e-01	-0.1627789178	0.740657715	0.9995992	5.554457e-02	0.455315734	0.9546035	0.5041057477	1.473498e-01
CFP	-0.3305034223	2.289687e-02	3.469756e-01	0.1007321145	0.518229826	0.9995992	-0.178116e-02	0.744541117	0.9546035	-0.0019087448	5.046997e-01
PSMA5	0.0782833431	2.134435e-01	6.680462e-01	0.0034591689	0.956013477	0.9995992	-7.810944e-02	0.899887807	0.9579808	-0.0008081022	5.050077e-01
PSMB4	0.1034393030	2.200923e-01	6.697768e-01	-0.1155107702	0.170191130	0.9995992	3.485771e-02	0.343708997	0.9546035	0.0360491420	3.350362e-01
PSMB6	0.0809705653	2.836943e-01	6.987920e-01	-0.1105863726	0.150084466	0.9995992	-8.195045e-02	0.851674326	0.9572213	-0.1035777995	9.219502e-01
PSMB5	0.1226798312	1.020730e-01	5.314990e-01	-0.0441420014	0.573115236	0.9995992	1.414610e-02	0.428027253	0.9546035	0.0121007984	4.405662e-01
TMOD1	0.1518284014	2.447524e-02	3.507394e-01	0.0185613699	0.787677931	0.9995992	1.695788e-03	0.490481542	0.9546035	0.0828706566	1.125461e-01
MAPK1	0.2006050718	5.336029e-02	4.562264e-01	0.1544633724	0.138411755	0.9995992	1.092473e-02	0.459449249	0.9546035	0.0614714148	2.835904e-01
GCA	0.1209871765	2.873755e-01	6.987920e-01	-0.0069818411	0.952190554	0.9995992	-6.278434e-02	0.705054236	0.9546035	-0.0261531608	5.899319e-01
LAP3	0.1789466918	5.501934e-01	8.284440e-01	0.6188621281	0.031797917	0.9995992	3.137511e-01	0.155950140	0.9546035	0.6308592324	1.096932e-02
TPP2	0.0957081072	1.761156e-01	6.320739e-01	0.0798671713	0.269762475	0.9995992	-1.863139e-02	0.606926571	0.9546035	0.1216133210	5.294922e-02
TKT	0.1190737785	2.385576e-01	6.725635e-01	0.1200211679	0.230466811	0.9995992	-2.164813e-02	0.583146667	0.9546035	0.0594855410	2.771308e-01
SERPINA4	-0.2511565262	2.156953e-02	3.455296e-01	0.1095653881	0.338014431	0.9995992	4.579773e-02	0.345575996	0.9546035	0.0412113428	3.563453e-01
EEF1D	-0.9862767255	8.396897e-02	5.027637e-01	0.8731775554	0.113154523	0.9995992	1.035517e-00	0.037408813	0.9546035	0.7903632339	7.126375e-02
AQP1	-0.6231562513	4.031736e-01	7.844847e-01	-0.0514458981	0.945505179	0.9995992	-2.697268e-01	0.643171295	0.9546035	0.4472444727	2.879721e-01
PRDX6	0.0191075678	8.162069e-01	9.406531e-01	0.1609518131	0.041654291	0.9995992	1.975536e-01	0.008125859	0.9546035	0.2905915448	4.170238e-05
BLVRB	-0.0454180522	5.093276e-01	8.151018e-01	-0.0072337101	0.915992630	0.9995992	-2.041286e-02	0.612677411	0.9546035	0.0668702217	1.717282e-01
PRDX5	0.0807318863	3.731736e-01	7.647336e-01	-0.0139996777	0.877239414	0.9995992	-1.478773e-01	0.947903090	0.9707604	0.0506063904	2.824350e-01
DDT	0.0510721649	5.187278e-01	8.216271e-01	0.0723674856	0.374518337	0.9995992	-7.620372e-02	0.826381841	0.9572213	0.0795358321	1.603738e-01
CMFPK1	0.1435653159	2.227283e-01	6.697768e-01	-0.1449531785	0.214271644	0.9995992	6.889978e-02	0.279960867	0.9546035	-0.0767730337	7.354494e-01
PERP1	0.0990972599	4.110624e-02	4.520863e-01	0.0097963491	0.841561930	0.9995992	7.122000e-02	0.078075154	0.9546035	0.0653412647	8.885153e-02
PDI3A	-0.4407181436	1.220735e-02	3.084914e-01	-0.1149041619	0.526320668	0.9995992	3.710784e-02	0.418566338	0.9546035	0.0846042000	3.218309e-01
PPP2R1A	0.0944405802	1.378373e-01	5.989843e-01	0.0412919089	0.516461861	0.9995992	1.306239e-01	0.021055173	0.9546035	0.1085814465	4.341398e-02
PPP2R1B	0.0076355228	9.022026e-01	9.710488e-01	-0.0499712096	0.425352846	0.9995992	-3.210105e-02	0.693667674	0.9546035	0.0121524865	4.259205e-01
FCER1G	-0.5831138037	1.418877e-01	6.076494e-01	-0.0835278713	0.836653647	0.9995992	-2.221429e-01	0.709476110	0.9546035	0.1555963165	3.526198e-01
ADSL	-0.039491706	6.884743e-01	8.657198e-01	-0.0871546170	0.379509225	0.9995992	6.434181e-02	0.265783630	0.9546035	-0.0304320358	6.148386e-01
PKR1	0.0017982677	9.830490e-01	9.936280e-01	0.0006519488	0.993945889	0.9995992	-1.629611e-02	0.570673998	0.9546035	0.0340073470	3.414686e-01
SRL	-0.1717832415	5.479758e-02	4.562264e-01	-0.0135203537	0.885597650	0.9995992	-7.600668e-02	0.800562767	0.9572213	-0.0627982285	7.397914e-01
GSTT1	0.2842542002	2.332726e-01	6.697768e-01	0.2349671195	0.350874540	0.9995992	-8.580416e-02	0.639651584	0.9546035	0.2931399571	1.112390e-01
SERPINB1	0.0500884701	4.756969e-01	8.125882e-01	0.0240043032	0.728696089	0.9995992	-1.819705e-01	0.995533273	0.9553333	-0.0990162392	3.980423e-01
CORO1A	-0.0164141100	8.957465e-01	9.687085e-01	-0.0695112552	0.578501480	0.9995992	-6.942556e-02	0.708870678	0.9546035	-0.1287113685	8.493359e-01
GDH1	-0.0528461684	6.062072e-01	8.414649e-01	0.1687493075	0.993707913	0.9995992	-1.571794e-02	0.564382302	0.9546035	0.1008018121	1.622208e-01
MAT2A	0.0740227342	3.932379e-01	7.802736e-01	0.0973306014	0.248986712	0.9995992	4.864341e-02	0.290119571	0.9546035	0.1170496408	9.201536e-02
AT1C	-0.0035478179	9.711728e-01	9.926294e-01	-0.0628748477	0.514157665	0.9995992	-2.277391e-02	0.590028207	0.9546035	0.0507618487	3.051168e-01
YWHA8	-0.1201759652	3.713654e-01	7.647280e-01	0.1229731902	0.372784463	0.9995992	-1.358657e-01	0.842423100	0.9572213	0.1018540569	2.399298e-01
STIP1	-0.0503247809	5.406764e-01	8.281031e-01	-0.0656981006	0.430829539	0.9995992	-0.100236e-03	0.509129204	0.9546035	-0.0358945676	6.690865e-01
S100A11	0.2985554209	6.893454e-02	4.656029e-01	0.0744029312	0.656726601	0.9995992	-5.45147e-02	0.625837721	0.9546035	0.0564789977	3.693205e-01
PRDX2	0.1784517589	3.463643e-02	4.027342e-01	0.0516622916	0.553617005	0.9995992	4.797175e-03	0.478302550	0.9546035	0.0887700360	1.643492e-01
CNDH5	-0.0323559780	8.549029e-01	9.533502e-01	-0.0768695539	0.659084880	0.9995992	-2.605544e-01	0.928247669	0.9658352	-0.1750904406	8.205922e-01
HSPA4	0.1026432520	5.878792e-02	4.562264e-01	0.0029547032	0.958121072	0.9995992	4.791548e-03	0.466342288	0.9546035	0.0945294017	4.692363e-02
RDX	-0.3003704284	4.524120e-02	4.531788e-01	-0.1034509943	0.482932343	0.9995992	8.878546e-02	0.83267926	0.9546035	0.0017769046	4.954599e-01
KRT9	-0.0611312677	9.047794e-01	9.710488e-01	-0.4938951723	0.460296979	0.9995992	1.428810e-01	0.420777168	0.9546035	-0.3066611089	6.788023e-01
SA4A	-0.0147355339	9.233114e-01	9.752941e-01	-0.2273014926	0.140833067	0.9995992	1.158439e-01	0.228039725	0.9546035	-0.2398547457	3.940307e-01
MYH9	-0.0361935621	6.689259e-01	8.576613e-01	0.0496356042	0.554077137	0.9995992	4.296955e-02	0.308407359	0.9546035	0.0527925971	2.616539e-01
MYH10	1.048829244	3.995107e-01	7.830730e-01	-0.9758331951	0.453817457	0.9995992	-8.322642e-01	0.751490031	0.9546035	-0.05111093238	7.753564e-01
ADD1	-0.0449832164	4.375362e-01	8.021362e-01	0.056085210	0.356842596	0.9995992	2.985132e-02	0.307428667			



CCT8	0.0710933646	2.942491e-01	7.010683e-01	0.0444310181	0.528058543	0.9995992	1.570119e-02	0.410216356	0.9546035	0.0696562087	1.651135e-01
CCT4	-0.0309137345	6.202426e-01	8.419469e-01	-0.0323549373	6.02345491	0.9995992	-3.784947e-04	0.502353459	0.9546035	-0.0152670161	5.973717e-01
RAB5C	-0.1339541696	4.772699e-01	8.125882e-01	-0.0041039636	0.982065851	0.9995992	1.209517e-01	0.260008465	0.9546035	0.1580778798	1.876695e-01
RAB7A	-0.3579528333	1.548095e-02	3.187282e-01	0.2056529281	0.176381463	0.9995992	5.977040e-02	0.347033933	0.9546035	0.1680470928	1.348837e-01
PSMD7	0.2086796700	3.150096e-02	3.961076e-01	-0.1362341407	0.174332198	0.9995992	3.967627e-02	0.350114829	0.9546035	0.0634774779	2.662089e-01
RPS6KA3	0.0712624256	5.731676e-01	8.344560e-01	-0.0593707584	0.634135109	0.9995992	-7.396465e-03	0.522804834	0.9546035	-0.0164812837	5.522266e-01
LUM	0.0658041626	6.208122e-01	8.419469e-01	0.0442363267	0.734576013	0.9995992	-1.415153e-01	0.852489809	0.9572213	-0.1385160263	8.459457e-01
PGD	0.1965083509	1.901393e-01	1.319384e-01	-0.0065691663	0.921358686	0.9995992	7.132849e-02	0.146329416	0.9546035	0.0697517485	1.436648e-01
ARHGDI4	0.01711405689	7.866081e-01	9.267668e-01	0.0702174546	0.268002791	0.9995992	9.383294e-02	0.069822675	0.9546035	0.0690718102	1.389766e-01
ARHGDI1B	0.1938319446	7.761455e-02	4.905904e-01	0.0574863983	0.616945819	0.9995992	-2.463024e-03	0.508794548	0.9546035	-0.0712576910	7.294789e-01
HNRNP7	-0.1356884246	1.564366e-01	6.224838e-01	-0.0074049073	0.937374807	0.9995992	1.028374e-01	0.150935735	0.9546035	0.0224866083	4.057415e-01
RIDA	0.1602119544	1.524131e-01	6.224838e-01	0.0184106165	0.871584451	0.9995992	4.338734e-02	0.354557326	0.9546035	0.1576818168	7.702140e-02
THOP1	-0.4591724894	6.848204e-02	4.650256e-01	0.2695266120	0.302974274	0.9995992	3.921832e-03	0.493994136	0.9546035	-0.1149554716	6.687859e-01
CAPZA1	0.1088527049	2.000761e-01	6.617157e-01	0.0887961433	0.307730980	0.9995992	4.803740e-02	0.289468404	0.9546035	0.1418984566	5.955169e-02
BLVR4	0.0514511607	5.997379e-01	8.419469e-01	0.0405725587	0.681816414	0.9995992	5.947553e-02	0.276155461	0.9546035	0.0520607940	3.018337e-01
PPSPC	-0.1632454386	3.496856e-01	7.487834e-01	-0.2802868291	0.106130932	0.9995992	6.386353e-03	0.485697227	0.9546035	-0.1806473055	8.446407e-01
ACLY	0.0447821293	4.885755e-01	8.151018e-01	0.0341715689	0.610150941	0.9995992	5.773394e-02	0.188747281	0.9546035	0.1084709868	6.680979e-02
MVD	0.1896902934	3.385123e-02	4.027342e-01	0.0107781906	0.905539968	0.9995992	-1.266579e-01	0.919228280	0.9644203	-0.0400585282	6.681373e-01
RABGGTB	0.1302820791	4.532731e-01	8.045226e-01	0.0588058671	0.734146910	0.9995992	1.450904e-01	0.203378018	0.9546035	0.0440332895	4.005733e-01
AP2S1	0.0443243734	6.583006e-01	8.524806e-01	-0.0596291443	0.558874157	0.9995992	4.380109e-02	0.331908643	0.9546035	0.0066086747	4.736218e-01
SLC16A1	-0.1650151554	4.917027e-01	8.151018e-01	0.0045231540	0.985059072	0.9995992	1.262174e-01	0.302213406	0.9546035	0.3475540153	6.635043e-02
SLC15A1	-0.0493886309	6.381543e-01	8.484797e-01	-0.0016415348	0.987518865	0.9995992	-1.882549e-02	0.563551581	0.9546035	0.1313641917	1.192655e-01
CRISP3	0.0447138891	8.252905e-01	9.430642e-01	-0.191601512	0.357376075	0.9995992	-7.634206e-02	0.643732913	0.9546035	-0.1775909308	7.880780e-01
YARS1	0.3167653305	1.634956e-02	9.37282e-01	-0.2254151055	0.099866419	0.9995992	7.147251e-02	0.303700540	0.9546035	-0.1143083958	7.893050e-01
USP14	0.0890247713	1.519883e-01	6.224838e-01	0.0381379229	0.549289172	0.9995992	5.525590e-02	0.193428332	0.9546035	0.0996214488	6.529101e-02
RAD23A	-0.0001604779	9.985180e-01	9.990571e-01	-0.0083543975	0.924662426	0.9995992	-4.856640e-02	0.709242121	0.9546035	-0.0075246357	5.337106e-01
RAD23B	0.0450484421	4.160745e-01	7.920800e-01	-0.0330634708	0.549381426	0.9995992	1.218891e-02	0.415439226	0.9546035	-0.0161199151	6.106059e-01
NAPA	0.0454025043	3.960043e-01	7.802736e-01	0.1292678632	0.014101449	0.9995992	-1.388526e-02	0.601374159	0.9546035	0.1191244832	1.745189e-02
E1F5	0.0572513529	5.178974e-01	8.218271e-01	0.0149029107	0.871571425	0.9995992	-1.325331e-02	0.557980761	0.9546035	-0.022359966	5.092835e-01
PSMD4	0.0544375736	4.661306e-01	8.079413e-01	-0.1553774136	0.938294523	0.9995992	4.597226e-02	0.273575234	0.9546035	-0.0274015907	6.358992e-01
APOC4	0.1251547240	7.872030e-01	9.267668e-01	0.4631940330	0.292397640	0.9995992	3.640019e-01	0.222394789	0.9546035	0.2471556184	2.452598e-01
PLTP	0.0362456897	8.036836e-01	9.349783e-01	-0.0453068228	0.754558959	0.9995992	2.125156e-01	0.075749449	0.9546035	0.0002686445	4.992490e-01
CSE1L	-0.1841623438	1.571487e-01	6.224838e-01	0.0762115879	0.559820577	0.9995992	5.881948e-02	0.325722390	0.9546035	0.1796884410	7.370626e-02
VCP	0.2230394287	8.802727e-01	1.319384e-01	0.0121146523	0.865595052	0.9995992	6.645922e-02	0.178814234	0.9546035	0.0395021203	2.887805e-01
ADK	0.3563191644	1.294139e-03	1.319384e-01	0.0222325913	0.844245315	0.9995992	-2.967653e-02	0.597600802	0.9546035	0.0230516062	1.415595e-01
CDH13	0.5309787335	2.069747e-01	6.65694e-01	0.7447688080	0.068650338	0.9995992	2.728535e-01	0.259507667	0.9546035	-0.1673195150	6.424347e-01
NPEPPS	-0.2828440590	5.347977e-02	4.562264e-01	-0.0127535346	0.931308313	0.9995992	-2.119070e-02	0.555966947	0.9546035	0.1260521608	1.956192e-01
SUMO3,UBE2D,2SUMO3	0.1234075464	1.038962e-01	5.362675e-01	0.0087157606	0.910064375	0.9995992	7.566568e-02	0.167840305	0.9546035	0.0557704843	2.277053e-01
BID	0.1413347499	2.965699e-02	3.864738e-01	-0.0796620784	0.213904605	0.9995992	-6.758072e-02	0.842748535	0.9572213	-0.1003186397	0.937329e-01
E1F6	-0.1411967828	1.303961e-01	5.816156e-01	-0.1036255446	0.289652960	0.9995992	-3.579568e-02	0.649487788	0.9546035	-0.0491534183	6.795596e-01
MTPN	0.1614042283	9.147198e-02	5.171548e-01	0.2152473526	0.025994516	0.9995992	1.018931e-01	0.146644467	0.9546035	0.129098263	1.087025e-01
DEFA3	0.2907584436	1.606024e-01	6.285829e-01	-0.0936289149	0.648964115	0.9995992	-3.751399e-02	0.570508784	0.9546035	0.0649308049	3.776910e-01
ARPC4	-0.0445745682	6.037663e-01	8.419469e-01	-0.0211722589	0.803919614	0.9995992	-8.414554e-02	0.834225157	0.9572213	0.0159564889	4.241123e-01
TP1	0.0953851716	1.237726e-01	5.737224e-01	-0.0143910558	0.818548952	0.9995992	-7.751147e-02	0.888363068	0.9579808	-0.0017380940	5.107290e-01
MYL6	-0.3037107638	9.308381e-03	2.750827e-01	-0.0281355061	0.819436860	0.9995992	-3.630714e-02	0.618972892	0.9546035	-0.0894481879	7.623619e-01
ACTB	0.0195724915	7.323454e-01	8.93254e-01	0.0722953607	0.209042975	0.9995992	-0.080766e-02	0.921255613	0.9644203	-0.0133478192	5.026989e-01
E1F4A1	0.0297593960	7.828086e-01	9.256765e-01	-0.1032179148	0.349237676	0.9995992	2.930224e-01	0.002700023	0.9546035	0.0095211125	4.663882e-01
PRPS1	0.0658702245	4.462982e-01	8.021362e-01	0.1187619339	0.179299683	0.9995992	1.160925e-01	0.093781595	0.9546035	0.1150033642	9.954216e-02
PSMA6	0.1351249244	1.663520e-02	3.812782e-01	-0.0197475164	0.73723812	0.9995992	-5.266559e-05	0.500351943	0.9546035	0.0385599187	2.586570e-01
CD42	-0.0076968254	9.599545e-01	9.907192e-01	-0.0133650474	0.920570836	0.9995992	-7.782173e-02	0.711535374	0.9546035	0.1427799243	1.382227e-01
OMF8	-0.0923975031	5.176516e-01	8.216271e-01	0.0277564304	0.847980234	0.9995992	1.058784e-01	0.232570128	0.9546035	0.1519938475	1.571073e-01
RAB2A	0.3801970928	8.146084e-02	5.027637e-01	0.3402557658	0.123189349	0.9995992	-1.479621e-01	0.744654812	0.9546035	0.1798194821	2.096326e-01
RAB5B	-0.0631505581	4.050099e-01	7.850184e-01	0.1427644826	0.057884889	0.9995992	4.480652e-02	0.276544756	0.9546035	0.1554508310	2.067292e-02
RAB10	-0.3710807930	8.329412e-02	5.027637e-01	0.0003346808	0.998786086	0.9995992	-1.758098e-02	0.531834606	0.9546035	0.2245664009	1.608490e-01
UBE2D3,UBE2D2	0.0504260479	5.888150e-01	8.419469e-01	0.1594076884	0.005938565	0.9995992	1.561875e-03	0.493495605	0.9546035	0.1655760600	3.626189e-02
UBE2M	0.1427340503	3.954155e-01	7.802736e-01	-0.1399866684	0.435354672	0.9995992	3.029198e-01	0.036057862	0.9546035	-0.0088590200	5.187804e-01
UBE2K	0.0393866091	7.022193e-01	8.709582e-01	0.0506946233	0.632477626	0.9995992	1.035482e-03	0.496019763	0.9546035	0.0392695042	3.541707e-01
UBE2N	0.0716309109	1.777061e-01	6.345879e-01	0.0086250384	0.868833342	0.9995992	-6.594658e-02	0.887103699	0.9579808	0.0196750349	3.567797e-01
RAB14	0.2603943515	2.327287e-01	6.697768e-01	-0.0182775997	0.930582334	0.9995992	2.652316e-01	0.119132735	0.9546035	0.2599222092	1.125971e-01
ACTR3	0.0374104040	6.526006e-01	8.523468e-01	-0.0213380640	0.9797145374	0.9995992	2.120248e-02	0.400502723	0.9546035	0.0088047594	5.668653e-01
ACTR2	0.1142781400	1.886670e-01	4.627328e-01	-0.0406591826	0.638954632	0.9995992	-7.830027e-02	0.813319015	0.9572213	-0.0284445095	6.224321e-01
ACTR1A	0.0135344905	8.787043e-01	9.651504e-01	-0.0104037748	0.908480634	0.9995992	0.688338e-02	0.245471522	0.9546035	0.0036640584	4.844816e-01
COPS2	0.1536466481	1.906722e-01	3.414766e-01	0.0071766570	0.930272601	0.9995992	-7.710161e-02	0.870028283	0.9572213	0.0024675484	3.149693e-01
ARF3,ARF1	-0.0491993099	3.642752e-01	7.553917e-01	-0.0540369511	0.317257104	0.9995992	-6.196356e-02	0.869361071	0.9572213	-0.0040435887	5.305114e-01
RAP1B	-0.3301632219	2.250912e-02	3.455296e-01	0.0594673702	0.688139492	0.9995992	-2.698232e-02				

FKBP4	-0.1066968199	5.2117716e-01	8.216873e-01	-0.0217878579	0.892922297	0.9995992	-1.255395e-01	0.773192586	0.9572213	0.1191599796	2.203651e-01
CFHR3	-0.1242087181	2.434710e-01	5.268635e-01	0.0579642715	0.566928157	0.9995992	5.268650e-02	0.311773684	0.9546035	-0.0565495918	6.912211e-01
CFHR1	-0.0894735923	4.722100e-01	8.125882e-01	-0.1607458591	0.188364245	0.9995992	-1.041975e-01	0.795416783	0.9572213	-0.3265010396	9.952505e-01
UBXN1	0.0365651810	6.762698e-01	8.610482e-01	0.0387134200	0.645261417	0.9995992	-9.114723e-03	0.541224320	0.9546035	0.0137593843	4.326331e-01
GBE1	-0.0231282307	8.265774e-01	9.430642e-01	0.0436421113	0.687370749	0.9995992	-4.145232e-02	0.652067296	0.9546035	0.0775162356	2.486608e-01
HGFAC	-0.1690489444	1.740488e-01	6.291668e-01	-0.1318163715	0.283724693	0.9995992	3.678473e-04	0.498685361	0.9546035	-0.0420615901	6.349148e-01
GL01	0.2008689474	4.870294e-03	2.131357e-01	0.0457284757	0.534536944	0.9995992	7.679056e-02	0.150806393	0.9546035	0.1295717920	3.392774e-02
YWHAH	0.1138939385	3.109593e-01	7.192836e-01	-0.0035912263	0.975821724	0.9995992	8.357056e-02	0.236561089	0.9546035	-0.1139548187	8.224211e-01
PLP2	-0.2712812332	5.461547e-01	8.281031e-01	-0.0524774085	0.907189510	0.9995992	-2.597999e-01	0.718490087	0.9546035	0.2958183579	2.576441e-01
CLC	-0.2745298569	3.333753e-01	7.337982e-01	0.3555068943	0.208649822	0.9995992	-4.131672e-02	0.557836495	0.9546035	-0.1527303699	6.942367e-01
CALD1	-0.2457610534	1.585174e-01	6.224839e-01	-0.0187224621	0.916254389	0.9995992	2.362539e-02	0.447149308	0.9546035	-0.0068333264	5.147598e-01
ITIH3	0.0692743869	7.448141e-01	9.009472e-01	-0.1005454479	0.831738976	0.9995992	-2.287423e-01	0.856735600	0.9572213	-0.4515243335	9.746749e-01
PTPN11	0.1235677748	2.638743e-01	6.900429e-01	0.2685426151	0.015802455	0.9995992	1.381762e-01	0.103614537	0.9546035	0.2550533570	1.547331e-02
PSME1	0.0666075307	3.189294e-01	7.225946e-01	0.0944964048	0.168628235	0.9995992	-6.550396e-02	0.832762981	0.9572213	0.1095981430	6.554072e-02
PRDX1	0.1736439472	1.022690e-02	2.878056e-01	0.0327444603	0.656007158	0.9995992	0.326209e-02	0.336827704	0.9546035	0.0350409358	3.145013e-01
ARHGAP1	-0.0385553822	6.933344e-01	8.660792e-01	0.0975372527	0.304022389	0.9995992	4.501036e-02	0.325908900	0.9546035	0.0718357297	2.254744e-01
DHX9	0.0785143035	5.6111729e-01	8.323189e-01	0.0504177606	0.713049904	0.9995992	1.756954e-01	0.098178372	0.9546035	0.1381325301	1.644588e-01
LGALS3BP	-0.2029052482	3.884249e-01	7.742297e-01	-0.2221004023	0.351974696	0.9995992	-1.476022e-01	0.732896240	0.9546035	-0.6164281297	9.932663e-01
DMTN	0.0825183332	1.712980e-01	6.287166e-01	-0.0138467406	0.823832026	0.9995992	-7.817878e-03	0.550116948	0.9546035	0.0290238970	3.207790e-01
CD47	-0.4455247153	3.515137e-01	7.498135e-01	0.0389736070	0.934621200	0.9995992	3.657266e-02	0.469656697	0.9546035	0.5700957312	1.265220e-01
VAC14	-0.1123850552	4.430735e-01	8.021362e-01	-0.0877871283	0.569831810	0.9995992	-1.312165e-01	0.811978246	0.9572213	-0.0530974123	6.261650e-01
AHNAK	-0.1739821520	3.140319e-01	7.197712e-01	-0.0182065093	0.916925271	0.9995992	-1.090636e-01	0.733312601	0.9546035	-0.0519910940	6.138682e-01
AP1B1	0.1251949281	2.663184e-01	6.940168e-01	-0.1225682299	0.291268611	0.9995992	9.636704e-02	0.196858538	0.9546035	-0.0301607499	6.051004e-01
EFEMP1	-0.0783479369	5.443563e-01	8.281031e-01	0.0287392857	0.817814323	0.9995992	-8.340335e-02	0.740296806	0.9546035	-0.0364890065	6.097583e-01
LMNA2	-0.3711429224	3.641075e-01	7.553917e-01	0.0490824906	0.905968229	0.9995992	-1.736454e-02	0.516783537	0.9546035	0.3367261219	2.085729e-01
PTPRJ	0.2033610283	5.721470e-01	8.344560e-01	-0.1091212705	0.767672269	0.9995992	4.233044e-02	0.454555201	0.9546035	-0.1827970353	6.628396e-01
COASY	0.1460531661	5.888118e-02	4.562264e-01	0.0063908861	0.934146790	0.9995992	-7.810955e-02	0.843260225	0.9572213	0.0077041429	4.591205e-01
GPS1	-0.0078108992	9.067151e-01	9.710488e-01	-0.0170361793	0.797938771	0.9995992	2.990459e-02	0.330622919	0.9546035	0.0595678935	1.997683e-01
SPP2	-0.3442486043	3.867452e-01	7.727636e-01	-0.3730992412	0.379078122	0.9995992	-4.146417e-01	0.854003887	0.9572213	-0.3306026024	7.653025e-01
MTAP	-0.0734584552	2.232170e-01	6.697768e-01	0.0056471433	0.928887631	0.9995992	-1.814529e-02	0.616254455	0.9546035	-0.0191514941	6.180011e-01
PSMD2	0.0882842597	0.085159e-01	8.419469e-01	-0.2153842524	0.242192571	0.9995992	-1.066263e-01	0.730603732	0.9546035	-0.1816890341	6.177785e-01
MNRN1	-0.3497505184	3.942983e-02	4.198744e-01	-0.2618537765	0.131302270	0.9995992	-2.014033e-01	0.874518226	0.9572213	-0.3616491892	8.802025e-01
SELENBP1	-0.0593280168	6.453283e-01	8.488673e-01	0.0050631713	0.968065616	0.9995992	-3.872318e-02	0.616109105	0.9546035	0.0896887242	2.336620e-01
SLC14A1	-0.4389199060	4.604430e-01	8.069339e-01	0.1961075277	0.734735158	0.9995992	-3.528420e-01	0.724987762	0.9546035	0.4564092734	2.161713e-01
UBE2V1	0.0243508894	7.537057e-01	9.072100e-01	-0.0186204598	0.816611232	0.9995992	0.349649e-02	0.350176319	0.9546035	0.0295736384	3.570263e-01
ILK	-0.1754711220	2.433562e-01	6.725635e-01	-0.0904950306	0.553770010	0.9995992	-8.064906e-02	0.699925019	0.9546035	-0.1531301863	6.953254e-01
PIN1	0.2632814888	1.009497e-03	1.319384e-01	-0.0385099658	0.649788067	0.9995992	-1.592248e-02	0.574955789	0.9546035	-0.0164116084	5.7698882e-01
EIEEBP1	0.3234612914	2.737957e-01	6.944775e-01	-0.0051377816	0.986208531	0.9995992	3.702596e-01	0.111322222	0.9546035	0.2632922441	1.834560e-01
DCTN2	-0.1286869799	2.619392e-01	6.900429e-01	-0.0796245659	0.486285454	0.9995992	1.855359e-02	0.045556040	0.9546035	-0.0260719359	5.901018e-01
NAO1	0.0781673570	4.276487e-01	7.973735e-01	0.0256674207	0.795188834	0.9995992	-3.531267e-02	0.637102586	0.9546035	0.0900557597	1.891905e-01
CUL1	0.2217996278	6.256598e-02	2.550103e-01	0.0291650916	0.733152305	0.9995992	5.460318e-02	0.263240959	0.9546035	0.1427801496	5.219331e-02
CUL2	0.0470276778	6.4117015e-01	8.486349e-01	-0.0324314622	0.754112390	0.9995992	-1.673118e-02	0.564220957	0.9546035	0.0253474783	4.073603e-01
CUL3	-0.1055578152	1.720820e-01	6.287166e-01	-0.1068776590	0.162514891	0.9995992	-4.809886e-02	0.731805272	0.9546035	-0.1044467405	9.120938e-01
TSTA3	0.0808785527	4.136918e-01	7.920435e-01	-0.0739151151	0.486189552	0.9995992	-3.940423e-02	0.651042761	0.9546035	-0.2177430435	9.765518e-01
FHL1	-0.4247534130	1.705445e-01	6.287166e-01	-0.1957193605	0.552098726	0.9995992	-3.648845e-01	0.879759456	0.9579808	-0.1503421635	6.676547e-01
APOF	0.0303140728	8.237004e-01	9.429827e-01	-0.0302140787	0.819331064	0.9995992	6.267043e-02	0.326824364	0.9546035	-0.0491772154	6.050058e-01
BLMH	0.1051928847	1.275306e-01	5.775504e-01	-0.0528198738	0.459908804	0.9995992	-2.340050e-02	0.627828697	0.9546035	-0.0735466884	8.426549e-01
COTL1	0.1384394541	4.931277e-01	8.151018e-01	0.4483212427	0.021638129	0.9995992	-6.896422e-02	0.629345977	0.9546035	0.3857494333	2.456735e-02
HNRNPD	0.3703327734	6.129914e-02	4.562264e-01	-0.1223589878	0.561047472	0.9995992	-2.243022e-01	0.872394493	0.9572213	-0.0408116921	5.720099e-01
DSG2	-1.6549915304	4.025104e-01	7.844497e-01	-1.8579443896	0.378083040	0.9995992	-1.564297e+00	0.780767724	0.9572213	-1.9898023235	8.133699e-01
TLL12	0.2073159166	5.532618e-02	4.582264e-01	0.1491892656	0.194887823	0.9995992	-3.320026e-02	0.617855485	0.9546035	0.2104580675	2.6209187e-02
DCTN1	-0.0693706281	4.246677e-01	7.973735e-01	-0.0774788149	0.542401668	0.9995992	1.135305e-01	0.184470019	0.9546035	-0.0103108229	5.327314e-01
EIF4A2	0.0524958728	6.661033e-01	8.576613e-01	-0.0898114664	0.461258744	0.9995992	1.987285e-01	0.050930210	0.9546035	0.0764964315	2.601952e-01
CTTN	-0.1373879274	1.393691e-01	6.012201e-01	-0.1298369750	0.170391093	0.9995992	-1.359956e-02	0.558196772	0.9546035	-0.0936634390	8.255008e-01
FLOT2	-0.3752512385	4.079166e-01	7.865537e-01	-0.1031904550	0.821921059	0.9995992	-3.5222630e-02	0.530886022	0.9546035	0.4474498685	1.658384e-01
WFDC2	1.4142239543	4.909906e-02	4.562264e-01	0.8638734014	0.221641424	0.9995992	6.603403e-01	0.167807184	0.9546035	0.9994397564	6.876349e-02
HABP2	-0.2128120365	1.570559e-02	3.187282e-01	-0.0720336882	0.421991959	0.9995992	-0.782876e-02	0.622550488	0.9546035	-0.1740097349	9.769102e-01
PRPSA1	0.0410932183	6.165708e-01	8.419469e-01	0.0228288755	0.785317088	0.9995992	8.588894e-02	0.150714325	0.9546035	0.1126958914	6.893135e-02
ITIH4	-0.0560048678	5.617811e-01	8.323189e-01	-0.1510758011	0.124877568	0.9995992	-1.033526e-01	0.851676519	0.9572213	-0.1967655995	8.819496e-01
GANAB	-0.1930894877	3.622384e-01	7.553917e-01	0.0554311305	0.796865397	0.9995992	1.725643e-01	0.209473116	0.9546035	0.3456981728	5.064105e-02
PPP2R5D	-0.1709011752	2.150798e-01	6.680462e-01	-0.0250054836	0.854580658	0.9995992	-1.417058e-01	0.841138046	0.9572213	-0.0560217385	6.653184e-01
LTBP1	-0.4079135079	4.785755e-02	4.562264e-01	-0.0159589892	0.939835062	0.9995992	-3.492870e-01	0.950487331	0.9714819	-0.1756046316	7.987174e-01
ICAM4	-0.4374879241	2.714366e-01	6.940168e-01	0.2251208719	0.567665980	0.9995992	-1.245259e-02	0.512236033	0.9546035	0.0233352199	9.958509e-02
LASP1	0.0578565466	4.997228e-01	8.151018e-01	0.0340414896	0.689830448	0.9995992	-0.437386e-02	0.636573150	0.9546035	-0.0231917745	6.044449e-01
KPNB1	0.0340202603	8.487581e-01	5.910832e-01	-0.1999187541	0.275882148	0.9995992	-1.055177e-01	0.724			



NR2C2AP	0.2351447992	6.807919e-01	8.624823e-01	0.6781703607	0.239162991	0.9995992	-1.964194e-01	0.635325902	0.9548035	0.0852952732	4.418388e-01
CARM1	-0.0241948448	8.108538e-01	9.384947e-01	-0.0574194153	0.573915982	0.9995992	-7.082692e-02	0.754885539	0.9548035	-0.0483711302	6.764543e-01
NT11	0.0408256068	4.973558e-01	8.151018e-01	-0.0576792885	0.340316425	0.9995992	-2.872145e-02	0.681004167	0.9548035	-0.0204358210	6.310883e-01
TREML1	-0.5472645883	2.971073e-01	7.050235e-01	0.1193580925	0.823884151	0.9995992	6.822731e-01	0.102608719	0.9546035	0.8851837924	3.718209e-02
KRTAP11-1	0.8912312077	1.650513e-01	6.287166e-01	-0.1820832673	0.770117394	0.9995992	6.433199e-01	0.161520355	0.9548035	0.3639712437	2.795712e-01
CRLF3	0.0556689231	4.445382e-01	8.021362e-01	0.0416385013	0.557514976	0.9995992	5.069287e-02	0.245759093	0.9548035	0.0578086857	2.179471e-01
C9orf40	-0.0527074822	5.581683e-01	8.319734e-01	0.0093697221	0.916887248	0.9995992	1.262125e-01	0.083511187	0.9546035	0.0581117807	2.565943e-01
PNPLA6	0.1118050891	7.962048e-01	9.305665e-01	-0.4137971837	0.346414494	0.9995992	-3.141089e-01	0.767604678	0.9572213	-0.7369862946	9.510796e-01
OSCAR	0.4146391508	3.465175e-01	7.479692e-01	0.0716416232	0.871667425	0.9995992	-1.487941e-01	0.627803693	0.9546035	0.1096338994	4.025905e-01
ALDH16A1	0.2228236826	1.962739e-02	8.552396e-01	0.2061919377	0.037428873	0.9995992	9.836429e-02	0.160773149	0.9546035	0.2094467807	2.408455e-02
SLC3A2	-0.5799799723	2.893737e-01	6.994678e-01	-0.5524055896	0.342457850	0.9995992	-4.413320e-01	0.788956710	0.9572213	-0.5496121232	6.095646e-01
CISD2	-0.0031332833	9.685428e-01	9.952791e-01	-0.2758503491	0.216578790	0.9995992	1.448549e-01	0.255223979	0.9546035	0.0319890046	4.418989e-01
CD177	-3.4200184428	2.834870e-01	6.987920e-01	-3.4756695707	0.288439593	0.9995992	-2.226058e+00	0.800749773	0.9572213	-3.0137333394	8.314779e-01
SLC43A3	-0.7715395117	1.408940e-01	6.058979e-01	-0.3907001892	0.446636486	0.9995992	-3.346208e-01	0.733149817	0.9546035	-0.4364981386	8.009845e-01
TXNDG5	-0.3559372804	2.130129e-01	6.680462e-01	-0.3954692237	0.188868022	0.9995992	8.437929e-04	0.498844048	0.9546035	-0.0614923535	5.862769e-01
NAXE	0.2275501225	2.291146e-01	6.697768e-01	0.2030958472	0.274669731	0.9995992	2.072250e-01	0.140143259	0.9546035	0.1649795497	1.772574e-01
MAPK11P1L	-0.1013643335	4.322643e-01	7.997328e-01	-0.1442492871	0.256142434	0.9995992	5.162551e-02	0.349335819	0.9546035	-0.0082668805	5.254691e-01
RFESD	0.0409547872	6.250770e-01	8.423326e-01	-0.0017381717	0.983968460	0.9995992	5.506880e-02	0.261025338	0.9546035	-0.0616407910	7.541293e-01
UBA3	-0.2875580409	1.583160e-01	8.423848e-01	-0.1314064493	0.547056760	0.9995992	-6.449886e-02	0.622229226	0.9546035	-0.1984371875	6.046792e-01
RDH11	-2.0455937756	7.191663e-02	4.764992e-01	-0.3886730870	0.701917693	0.9995992	-2.611034e-01	0.605212402	0.9546035	-0.1368799681	5.507266e-01
LRRCC20	0.0030207408	9.803258e-01	9.936282e-01	0.0562999818	0.639119104	0.9995992	1.889286e-01	0.061447768	0.9546035	0.2034396759	5.270163e-02
DCAF11	0.1134319315	3.941099e-01	7.802736e-01	0.0698865493	0.609919810	0.9995992	3.709839e-02	0.392062588	0.9546035	0.0616348996	3.299001e-01
RAF2B	-0.1059172295	6.435936e-01	8.486349e-01	0.0722031873	0.754339832	0.9995992	-2.470282e-01	0.863477873	0.9572213	0.1512467560	2.517666e-01
PDCDC6IP	-0.0696813237	2.538236e-01	6.818625e-01	-0.0290486118	0.639688452	0.9995992	6.426982e-02	0.150486744	0.9546035	0.0111042315	4.292728e-01
NUDCD2	0.1257823237	8.328650e-02	5.027937e-01	0.0172132113	0.816057319	0.9995992	7.242302e-02	0.137018201	0.9546035	0.0249158218	3.789055e-01
SCFD1	-0.1726541559	4.600265e-01	8.069339e-01	-0.0294436802	0.902739656	0.9995992	-2.701057e-02	0.544827407	0.9546035	-0.1349594674	7.124423e-01
UBE2O2	-0.1473069825	6.725972e-01	8.576613e-01	-0.0352714887	0.919075004	0.9995992	-4.879651e-01	0.917767864	0.9644203	-0.0616407910	7.541293e-01
PCNP	-0.1915630085	2.016150e-01	6.638130e-01	-0.0225790959	0.884496908	0.9995992	9.881272e-03	0.474242106	0.9546035	-0.0143938335	5.364755e-01
DNAJA4	-0.0225202212	8.205996e-01	9.407844e-01	-0.0009187131	0.992474340	0.9995992	4.027075e-02	0.344778839	0.9546035	0.0794248654	2.146171e-01
DNAJC9	-0.8310326758	5.354709e-02	4.562264e-01	0.2189984895	0.590234140	0.9995992	4.325850e-01	0.157703961	0.9546035	0.1799770987	3.274878e-01
ATGA4	-0.0681563868	8.367501e-01	9.500766e-01	0.2671494151	0.393392900	0.9995992	-2.954298e-01	0.812314757	0.9572213	-0.1062910632	6.255040e-01
LZIC	-0.1322236411	2.801399e-01	6.987920e-01	-0.0074800172	0.950964314	0.9995992	1.133551e-01	0.182881101	0.9546035	0.0494414242	3.473507e-01
CFHR4	-0.3839678690	1.009355e-01	5.314990e-01	0.1424003005	0.551355577	0.9995992	-1.599266e-01	0.747291719	0.9546035	-0.2338376245	8.317968e-01
PIEZO1	-0.0876677487	8.564528e-01	9.541256e-01	-0.0020101842	0.996572082	0.9995992	-1.987699e-01	0.658204484	0.9546035	0.5822154279	1.005760e-01
PSMF1	-0.0770404489	3.190932e-01	7.225946e-01	-0.0179279072	0.817057824	0.9995992	1.332841e-01	0.043814467	0.9546035	0.1105053653	7.686266e-02
NRGN	-0.8118077275	9.188030e-02	5.171548e-01	-0.5318154563	0.288107042	0.9995992	-2.637406e-02	0.521908472	0.9546035	-0.0540460464	5.451568e-01
KRT35	-0.5986957729	5.365529e-01	8.281031e-01	-1.4816468885	0.173396842	0.9995992	-5.386179e-01	0.711568821	0.9546035	-1.0962603963	8.354438e-01
STM	-0.1362520135	5.145593e-01	8.185856e-01	-0.4363685118	0.042605680	0.9995992	2.315725e-03	0.495608625	0.9546035	-0.0244387592	5.462171e-01
GQH	-0.3270183184	6.552213e-01	8.524806e-01	-0.1451114609	0.842031037	0.9995992	1.089008e+00	0.091026440	0.9546035	-1.3816480697	9.490969e-01
HAS1	0.0923888715	3.780213e-01	7.647396e-01	0.1226353954	0.250663946	0.9995992	-1.055932e-01	0.842078007	0.9572213	0.0423450005	3.517659e-01
COP55	0.4751343974	1.543025e-03	1.319384e-01	0.0266380238	0.867477067	0.9995992	3.780245e-05	0.499905096	0.9546035	0.0423396849	3.982042e-01
PRG4	-0.5745701777	8.122379e-03	2.618209e-01	-0.395502849	0.084766281	0.9995992	-1.546909e-01	0.755929664	0.9546035	-0.5191020348	9.861795e-01
TNP01	-0.134165284	3.154327e-01	7.197712e-01	0.0095961176	0.941544969	0.9995992	1.236810e-01	0.179901479	0.9546035	0.0937514855	2.297861e-01
USP9X	0.0596300325	4.716171e-01	8.125882e-01	-0.0975950117	0.242524346	0.9995992	1.030112e-03	0.495101314	0.9546035	0.0285159973	3.724596e-01
USP7	-0.1156819854	4.378036e-02	8.021362e-01	-0.0929032544	0.870986449	0.9995992	-2.718393e-02	0.571968008	0.9546035	0.0500209539	6.399976e-01
ATP2A3	-0.8989340650	4.171744e-02	4.250863e-01	-0.1230963016	0.780786808	0.9995992	-1.061338e-01	0.596081521	0.9546035	0.0994582198	4.134396e-01
OSBP2	0.0425045680	8.426824e-01	9.500891e-01	0.4239880224	0.039524533	0.9995992	-1.847524e-01	0.802903172	0.9572213	0.1536840579	2.300402e-01
WBP2	0.0137960515	8.659839e-01	9.584204e-01	0.0358524238	0.670539523	0.9995992	8.691372e-02	0.149753663	0.9546035	-0.0584738228	7.585781e-01
PSMG2	-0.0103004699	9.327947e-01	9.813741e-01	-0.0632960647	0.599963883	0.9995992	-1.690004e-01	0.917771856	0.9644203	-0.2372195906	9.772998e-01
RPE	0.2628092091	6.781641e-02	4.639407e-01	0.1919068577	0.188258511	0.9995992	-5.809636e-02	0.653461391	0.9546035	-0.0346147911	5.899556e-01
AIDA	-0.1728513740	4.888877e-01	8.151018e-01	0.3320757033	0.177171001	0.9995992	4.055709e-02	0.436180858	0.9546035	0.2827754348	1.183313e-01
EFHD2:EFHD1	1.3928753461	1.223039e-02	3.084914e-01	-0.0674508123	0.895684748	0.9995992	1.282076e-01	0.402198656	0.9546035	0.3159264246	2.668177e-01
AP2M1	0.0140222455	8.946227e-01	9.687085e-01	-0.1319220119	0.207330640	0.9995992	4.908427e-02	0.322853231	0.9546035	-0.1152359413	8.646602e-01
CMBL	0.0147345837	1.913687e-01	9.722363e-01	0.1441566006	0.279633840	0.9995992	1.324716e-01	0.163857286	0.9546035	0.2588470230	2.094751e-02
DAZAP1	-0.0150234549	8.885957e-01	9.687085e-01	0.1161237687	0.277315776	0.9995992	1.289994e-01	0.117518401	0.9546035	0.1552286194	9.082466e-02
CNR1P1	0.0568311563	7.637919e-01	9.146931e-01	0.2375159064	0.200055037	0.9995992	-1.736186e-01	0.814874300	0.9572213	0.2466870148	8.257085e-02
DYNNL2	-0.0661786664	3.964741e-01	7.802736e-01	-0.0123994115	0.878282259	0.9995992	-9.957382e-02	0.894148693	0.9579808	-0.0893668045	6.849326e-01
OTUB1	-0.0077130813	9.206436e-01	9.747789e-01	-0.0313356963	0.865418068	0.9995992	6.679922e-02	0.205675068	0.9546035	0.0244710846	3.780320e-01
PGM2	-0.1074824559	6.429026e-01	8.486349e-01	0.0027285833	0.990643090	0.9995992	3.909539e-02	0.434503490	0.9546035	0.1431029575	2.771345e-01
PDPX	0.0884491705	9.581515e-02	5.292220e-01	0.0103535614	0.846043731	0.9995992	-4.628376e-02	0.799414570	0.9572213	0.0318910485	2.746102e-01
DCUN1D1	-0.0088522209	9.260334e-01	9.771056e-01	-0.107665816	0.239644587	0.9995992	5.393949e-02	0.288283552	0.9546035	-0.0774261875	7.937086e-01
GMPPA	0.2411442505	4.276944e-01	7.973732e-01	-0.0246250682	0.939064520	0.9995992	-1.762886e-01	0.817948202	0.9572213	-0.3401260727	8.379682e-01
ABHD14B	-0.0149536903	8.409357e-01	9.500891e-01	-0.0227885588	0.755542877	0.9995992	-1.983036e-02	0.601516770	0.9546035	0.0215700219	3.788860e-01
CPB2	-0.3787875109	6.464010e-04	1.319384e-01	-0.1054584572	0.365797810	0.9995992	-1.608861e-01	0.922389440	0.9644203	-0.2643983113	9.899623e-01
USP47	0.1713290835	2.217388e-01									



NANS	0.0660175437	5.713731e-01	8.344560e-01	-0.0290697306	0.801040211	0.9995992	3.812054e-02	0.375046012	0.9546035	0.0705967022	2.674514e-01
SH3GLB2	-0.0210851067	8.637461e-01	9.568396e-01	-0.0104794174	0.909943825	0.9995992	2.663007e-02	0.416215368	0.9546035	-0.0276188018	5.686053e-01
HEBP1	0.0905231824	4.305423e-01	7.991327e-01	-0.0089031112	0.938677308	0.9995992	-1.695663e-01	0.924700484	0.9644203	-0.1186532930	8.637958e-01
RA66B	-0.2002830954	2.291806e-01	6.697768e-01	-0.0669702723	0.691130810	0.9995992	6.630474e-02	0.347222868	0.9546035	-0.0844788773	6.858611e-01
PHPT1	-0.1256109515	4.269072e-01	7.973732e-01	-0.0751610530	0.635848218	0.9995992	-9.319132e-02	0.718637739	0.9546035	-0.0788579306	6.901038e-01
FAM114A2	-0.0930216082	2.626441e-01	6.900429e-01	0.0277902396	0.738569937	0.9995992	-4.319944e-02	0.694894774	0.9546035	-0.0361276200	6.711840e-01
LANCL2	0.1331089937	2.057064e-01	6.658594e-01	-0.0662406953	0.539167891	0.9995992	-5.982488e-02	0.707942796	0.9546035	0.0168898866	4.394476e-01
KRT82	0.0577554828	9.149498e-01	9.738869e-01	0.5244695328	0.334117091	0.9995992	-1.419749e+00	0.994120415	0.9949622	-0.6283928712	8.742196e-01
ATG3	0.2189331750	1.528176e-01	6.224838e-01	-0.0038027965	0.980501436	0.9995992	6.992984e-02	0.328638948	0.9546035	-0.0043350383	5.112401e-01
SACM1L	-0.5743426696	1.805238e-01	6.347267e-01	-0.1169243225	0.785465380	0.9995992	7.082932e-02	0.434564813	0.9546035	0.3380933286	2.092580e-01
OLA1	0.0908003979	1.795709e-01	6.347267e-01	-0.0555236647	0.416519013	0.9995992	3.016179e-03	0.482899192	0.9546035	-0.0286705143	6.588450e-01
CYRIB	0.0509491767	8.142475e-01	9.398834e-01	0.0364683247	0.866203830	0.9995992	-1.671300e-01	0.776024636	0.9572213	0.1221574787	2.906691e-01
PNPO	0.1204316759	6.423522e-01	8.486349e-01	-0.1408385635	0.568142543	0.9995992	-5.545649e-01	0.981837539	0.9860085	-0.3431436558	0.956355e-01
CZIB	-0.0561251214	5.822804e-01	8.397024e-01	0.0421761897	0.682391659	0.9995992	1.251552e-01	0.113343682	0.9546035	0.0890699124	1.889777e-01
THG1L	0.0847830501	4.339751e-01	8.014978e-01	-0.1240158908	0.251994832	0.9995992	-3.635795e-02	0.629154107	0.9546035	0.0455365929	3.384749e-01
ADPRS	0.0742728225	7.857626e-01	9.267668e-01	-0.0210144871	0.937405673	0.9995992	-0.790840e-01	0.915430633	0.9644203	-0.6100737996	9.714248e-01
DPP3	0.0372336875	6.409320e-01	8.486349e-01	0.0843691730	0.281201051	0.9995992	-2.017751e-02	0.601478194	0.9546035	0.1559443399	2.073595e-02
AHSP	-0.0093737713	9.586378e-01	9.912589e-01	0.2073588084	0.258281224	0.9995992	-8.288357e-02	0.673928207	0.9546035	0.0449517584	4.066001e-01
C1RL	-0.1826943738	4.608694e-02	4.562264e-01	-0.0369549417	0.703641968	0.9995992	-7.173926e-02	0.773224811	0.9572213	-0.1859748522	9.728990e-01
KCMF1	-0.0505691153	9.659808e-01	9.923248e-01	-0.1867938382	0.165490382	0.9995992	-2.163205e-01	0.947263778	0.9707604	-0.1059554746	7.705606e-01
VAPA	-0.4763842713	2.488525e-01	6.760373e-01	-0.1914904049	0.646097883	0.9995992	1.285461e-01	0.378294291	0.9546035	0.3738428572	1.817842e-01
ABRACL	-0.1446034701	5.632853e-01	8.323189e-01	-0.0405711395	0.872935444	0.9995992	-1.641316e-01	0.740838438	0.9546035	0.1942169151	2.194817e-01
ANKFY1	0.1168283789	1.110687e-01	5.470133e-01	0.0049473885	0.948546450	0.9995992	3.478056e-02	0.323781775	0.9546035	0.0657989517	2.022609e-01
GMPR2	0.0290591051	7.373488e-01	8.978931e-01	-0.0195830633	0.821004871	0.9995992	-6.757054e-03	0.530397108	0.9546035	-0.0302679103	6.357902e-01
GRHPR	-0.1861406854	1.174934e-01	5.618203e-01	0.1104740029	0.937405673	0.9995992	1.546301e-01	0.096179282	0.9546035	0.0593986638	3.085410e-01
PEF1	0.0876990414	5.713236e-01	8.344560e-01	-0.0995858969	0.513649539	0.9995992	-1.935806e-02	0.549637452	0.9546035	-0.0151753897	5.387990e-01
BIN2	-0.5169687335	6.379315e-02	4.597775e-01	0.2583754449	0.3939722025	0.9995992	-3.519487e-01	0.902808419	0.9877777	0.0635571741	4.046346e-01
COP5TA	0.2691802642	1.675145e-01	6.287166e-01	0.1775400228	0.371451138	0.9995992	1.356978e-01	0.246857378	0.9546035	0.3325527224	5.253061e-02
SEC14L4	0.0981794593	4.622048e-01	8.068396e-01	0.1231770748	0.362050690	0.9995992	-1.644890e-01	0.887208987	0.9579808	-0.0979779270	7.741527e-01
FETUB	-0.1959956113	6.114133e-02	4.562264e-01	-0.0122805682	0.908030169	0.9995992	4.581716e-02	0.338752200	0.9546035	-0.0809034366	7.897234e-01
PCYOX1	-0.5344763874	1.359092e-03	1.319384e-01	-0.1813814340	0.263004097	0.9995992	4.320068e-02	0.403130090	0.9546035	-0.1154809469	7.460390e-01
PFDN2	-0.2469131020	5.409317e-01	8.287031e-01	0.8980742830	0.031978780	0.9995992	3.073795e-01	0.229430873	0.9546035	0.5908185589	8.387749e-02
NRBP1	0.0961572548	7.139066e-01	8.808320e-01	-0.1546954449	0.566406871	0.9995992	-1.490097e-01	0.706527028	0.9546035	-0.0302032283	5.446311e-01
ENDPH1	0.0679814803	7.716402e-01	9.203620e-01	0.1935070746	0.420361885	0.9995992	-2.059262e-01	0.812777970	0.9572213	0.0101683242	4.835871e-01
XP07	0.0887648466	3.587479e-01	7.553917e-01	-0.05771771313	0.560986440	0.9995992	5.847481e-02	0.277428720	0.9546035	-0.0467779510	6.782003e-01
DBNL	-0.09605030585	2.294836e-01	6.697768e-01	0.0941796638	0.237876531	0.9995992	3.541003e-04	0.498256830	0.9546035	0.0743921432	1.842654e-01
SERPINA10	-0.0992856085	3.988091e-01	7.710597e-01	-0.0020995508	0.983971062	0.9995992	6.632054e-02	0.268851153	0.9546035	-0.0128122183	5.510304e-01
NUDT5	0.1799398189	1.746692e-02	3.225921e-01	0.0011911722	0.987754672	0.9995992	1.070833e-01	0.087465395	0.9546035	0.0437161991	2.896547e-01
AG02	0.0282837571	6.177161e-01	8.419469e-01	-0.0313541375	0.572579990	0.9995992	-7.446478e-02	0.900758122	0.9579808	0.0204846708	6.611583e-01
RA821	0.2079797130	3.784777e-01	7.647336e-01	-0.3744117082	0.124517384	0.9995992	9.709272e-02	0.344669441	0.9546035	0.0913710509	3.489061e-01
PSME2	0.0126854729	8.605926e-01	9.551688e-01	-0.0079393890	0.913623611	0.9995992	-7.009190e-02	0.830691659	0.9572213	-0.0009480472	5.050639e-01
DNPEP	0.1145745774	1.360073e-01	5.932128e-01	0.0005980474	0.994061880	0.9995992	3.024714e-02	0.350207251	0.9546035	0.0381881744	3.213465e-01
MCST1	-0.0132810419	9.037912e-01	9.710486e-01	-0.0629546995	0.565270716	0.9995992	-7.964799e-02	0.759495119	0.9599168	-0.0002639211	5.006972e-01
ASAP1	-0.1897690867	8.844938e-04	5.150107e-01	-0.0283753919	0.805608166	0.9995992	8.654373e-02	0.194911576	0.9546035	0.0708288083	2.637903e-01
TBC1D24	0.6712757218	1.843098e-04	7.261804e-02	0.2730102011	0.141512791	0.9995992	1.741508e-01	0.182424614	0.9546035	0.2706276744	7.612711e-02
CORO1C	-0.3706766324	2.727242e-02	3.705288e-01	-0.2931393382	0.097225412	0.9995992	-3.112706e-01	0.967742829	0.9774190	-0.4229235227	9.899974e-01
PSMD13	0.0287033934	7.592586e-01	9.118018e-01	-0.1235585824	0.185267125	0.9995992	-6.744335e-02	0.761290814	0.9561721	0.0568386181	2.823296e-01
COPS3	0.1128021581	3.781777e-02	4.126470e-01	0.0280547710	0.637971807	0.9995992	-5.107668e-02	0.820249251	0.9572213	0.0115373731	4.171228e-01
MINPP1	0.0980387104	4.396397e-01	8.021362e-01	-0.1404230846	0.255047580	0.9995992	-4.711932e-02	0.641464136	0.9546035	-0.1539395155	0.820483e-01
NSFL1C	0.0201855208	7.607048e-01	9.119200e-01	-0.0402429904	0.542846547	0.9995992	6.882347e-03	0.459725312	0.9546035	-0.0311667796	8.280731e-01
PPRPR1	-0.1240677514	6.592447e-02	4.639407e-01	0.0538054224	0.424244821	0.9995992	-1.100401e-02	0.562072368	0.9546035	-0.0115929980	5.684488e-01
PA2G4	-0.3660083935	8.409669e-02	5.027637e-01	-0.0938254746	0.664469158	0.9995992	-1.049379e-01	0.684719423	0.9546035	-0.2016468326	8.228347e-01
RUVBL2	0.0504046484	6.960723e-01	8.669731e-01	-0.1157667341	0.356292251	0.9995992	2.102375e-02	0.437154349	0.9546035	0.0168531107	4.473033e-01
RUVBL1	0.1250467767	3.861135e-01	7.727639e-01	-0.1381717064	0.326703849	0.9995992	6.742599e-02	0.325501987	0.9546035	-0.0055913662	5.157890e-01
ST3GAL6	-0.0889503492	6.898427e-01	8.660792e-01	-0.0272159725	0.901928034	0.9995992	1.915171e-01	0.197165637	0.9546035	0.1203626610	2.965343e-01
CARHSP1	0.0592995847	5.040772e-01	8.151018e-01	-0.0120641861	0.893779156	0.9995992	4.524764e-02	0.303461693	0.9546035	0.0869282817	1.760188e-01
PRG3	-0.5057513078	9.340806e-02	5.196358e-01	0.0451277090	0.883225920	0.9995992	-1.683614e-01	0.710435241	0.9546035	-0.2311714505	7.605532e-01
SUGT1	0.1986329876	1.649197e-01	6.287166e-01	0.0855840562	0.557274843	0.9995992	4.553502e-02	0.373027307	0.9546035	0.1183035198	2.131262e-01
DERA	0.3367136050	1.226558e-02	3.084914e-01	0.2607781553	0.057638014	0.9995992	-1.487732e-01	0.855498175	0.9572213	0.2748152161	2.410686e-02
REX02	-0.0173381631	8.685865e-01	9.586081e-01	-0.0910678262	0.375748218	0.9995992	-4.763413e-02	0.672063073	0.9546035	-0.1229781366	8.883569e-01
UFC1	-0.0899763877	2.035638e-01	6.646753e-01	-0.0139119793	0.848076520	0.9995992	-2.592821e-02	0.637991686	0.9546035	0.0332139750	3.248539e-01
FBX07	0.0828513203	3.076460e-01	7.186513e-01	0.0128780874	0.876914492	0.9995992	1.321000e-01	0.052327699	0.9546035	0.1254062276	6.474413e-02
TLN1	-0.2619028944	6.175654e-02	4.562264e-01	-0.0145904980	0.918090825	0.9995992	-9.876067e-02	0.754122798	0.9546035	-0.0188528995	5.523440e-01
USP15	0.0813538290	2.491410e-01	6.760373e-01	-0.0516094816	0.460688212	0.9995992	-2.650101e-02	0.642768703	0.9546035	-0.0291637064	6.568214e-01
PPME1	0.1470975937	8.895879e-02	5.154377e-01	-0.0201863938	0.820765727	0.9995992	-5.327679e-0				



SHRM	SRF	SRF	SRF	SRF	DiabMelittus	DiabMelittus	DiabMelittus	AHn	AHn	AHn	Activesmoking	Activesmoking
Adj. p-val. (1-sided test, SHRM > no SHRM, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (1-sided test, SRF > no SRF)	Adj. p-val. (1-sided test, SRF > no SRF, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG.Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)
0.93650941	-2.746462e-01	8.107420e-01	0.9997779456	-0.0782252642	0.8295796153	0.96048889	-3.812821e-02	0.890930057	0.9982883	-2.730476e-01	0.4758576943	
0.79213004	5.281618e-02	3.826782e-01	0.9997779456	-0.2222212001	0.4049598794	0.89501894	-1.938906e-01	0.379600683	0.9982883	-2.176575e-01	0.1964054368	
0.80653217	9.936077e-02	4.304453e-01	0.9997779456	-0.2225912773	0.6341442342	0.93852299	-1.305824e-01	0.790470177	0.9982883	1.248891e-01	0.8368196200	
0.88581308	5.755813e-01	1.167496e-01	0.9997779456	-0.4283731095	0.3354082165	0.85880449	7.819189e-02	0.844199898	0.9982883	3.956651e-02	0.9475270859	
0.97050390	-9.388206e-01	8.416727e-01	0.9997779456	-0.1014691118	0.8747824429	0.96947881	-1.128130e+00	0.157968375	0.9982883	-7.254915e-01	0.1609723076	
0.92876201	3.231207e-01	2.406902e-01	0.9997779456	0.2012224514	0.7317523720	0.94712279	-2.165300e-01	0.641049805	0.9982883	-2.892426e-01	0.4280925202	
0.98969697	-1.210484e+00	8.633920e-01	0.9997779456	-1.7398054957	0.0148339186	0.49365173	-2.752242e-01	0.716554013	0.9982883	1.312001e-01	0.8753239818	
0.87292023	-4.865342e-01	8.045893e-01	0.9997779456	0.1339702816	0.7223409934	0.94712279	-4.283486e-01	0.372127396	0.9982883	-5.213268e-01	0.2066957972	
0.84824569	-2.188262e-01	8.498449e-01	0.9997779456	-0.1371764141	0.7149871601	0.94529215	-1.478803e-01	0.490449908	0.9982883	-3.899385e-02	0.8769040257	
0.97273515	-2.929371e-01	9.146321e-01	0.9997779456	0.2208342086	0.5691002581	0.92122660	4.306976e-01	0.025271932	0.9982883	-5.671191e-01	0.0101237958	
0.80653217	-3.965359e-01	9.910959e-01	0.9997779456	-0.2461069605	0.2907287476	0.84915316	9.559354e-02	0.568084123	0.9982883	-1.389324e-01	0.6606857836	
0.80820047	-3.076418e-01	8.945090e-01	0.9997779456	0.3579306946	0.0537991465	0.83664873	1.633878e-01	0.414664209	0.9982883	-3.951610e-02	0.8208265518	
0.97273515	-2.756053e-01	8.924706e-01	0.9997779456	0.1905769437	0.4566631616	0.90612020	1.237003e-01	0.548479451	0.9982883	-7.561464e-02	0.7369179765	
0.90408005	-4.618923e-01	9.661048e-01	0.9997779456	-0.1546498991	0.5099517552	0.90612020	-3.134715e-01	0.171483844	0.9982883	-6.139976e-01	0.0039025279	
0.97273515	-1.338820e+00	9.338369e-01	0.9997779456	-0.6790443525	0.2010239771	0.83807199	-4.685507e-01	0.534646902	0.9982883	-2.461247e-01	0.6128628701	
0.96804147	-6.988670e-01	8.215756e-01	0.9997779456	0.7011833304	0.2352675808	0.84413548	6.552107e-01	0.222914700	0.9982883	-1.737321e-01	0.7243922107	
0.80820047	1.801438e-01	3.295673e-01	0.9997779456	-0.3821013084	0.4875441508	0.90612020	7.057691e-01	0.066855891	0.9982883	-4.358759e-01	0.3351215956	
0.95558280	-2.853912e-01	7.948580e-01	0.9997779456	-0.5882744090	0.0193687291	0.58702148	-1.713136e-01	0.533264189	0.9982883	-2.212476e-01	0.3614819677	
0.77869908	2.207594e-01	2.682067e-01	0.9997779456	0.06069347006	0.8640919913	0.96707132	-3.845598e-01	0.516900853	0.9982883	-6.572352e-01	0.0606777812	
0.87292023	8.650954e-02	3.944281e-01	0.9997779456	-0.1517672713	0.7067743177	0.94482995	-4.165456e-01	0.177175741	0.9982883	-4.618428e-01	0.1928300068	
0.98226159	-5.015327e-01	8.758036e-01	0.9997779456	0.0732490109	0.8129955383	0.95972154	4.861149e-02	0.891252833	0.9982883	-7.233766e-01	0.0502558618	
0.79578964	-1.250137e-01	7.118264e-01	0.9997779456	-0.4628278721	0.0264756276	0.64586404	-3.912779e-01	0.115157283	0.9982883	-3.292068e-01	0.2450725451	
0.85414112	-8.596031e-01	9.588162e-01	0.9997779456	-0.8166768680	0.0239685678	0.64388269	-5.491604e-01	0.195596041	0.9982883	2.358767e-01	0.7477261319	
0.94675587	1.409140e-01	2.880602e-01	0.9997779456	0.5965007208	0.0785894789	0.83807199	4.038419e-01	0.104606027	0.9982883	5.380044e-02	0.8938829354	
0.97273515	-1.400283e+00	8.295448e-01	0.9997779456	-0.9383400703	0.2238353656	0.83807199	-1.182469e+00	0.345659976	0.9982883	-1.408053e+00	0.0943657437	
0.97273515	-2.692168e-01	8.050249e-01	0.9997779456	0.2512410299	0.5010689315	0.90612020	-2.290915e-01	0.423344286	0.9982883	1.955206e-01	0.5877330571	
0.96804147	3.999099e-02	4.577158e-01	0.9997779456	-1.3094736911	0.0003999359	0.09450935	-1.886389e-01	0.597422839	0.9982883	4.157088e-01	0.4877086770	
0.77869908	-8.204628e-01	9.457244e-01	0.9997779456	-0.5317950844	0.1544156354	0.83807199	4.689505e-01	0.187767892	0.9982883	-6.473538e-01	0.0916759388	
0.98998602	-5.376863e-02	5.535707e-01	0.9997779456	0.5836649788	0.3315548497	0.85754449	-0.505931e-02	0.888902126	0.9982883	2.407295e-01	0.5309887896	
0.97273515	-5.725066e-01	9.397822e-01	0.9997779456	-0.0593596832	0.8461873202	0.96338860	8.402089e-02	0.757178532	0.9982883	1.068801e-01	0.8090236464	
0.89368789	-3.442023e-01	9.551234e-01	0.9997779456	-0.1441126757	0.5945916860	0.92532140	-2.152248e-01	0.284001767	0.9982883	-1.611770e-01	0.4930219413	
0.811552863	-1.249752e-01	6.521716e-01	0.9997779456	0.1001166044	0.7644734272	0.95505354	4.412912e-01	0.127146577	0.9982883	2.839862e-01	0.7333996573	
0.86909435	-6.821095e-01	9.955366e-01	0.9997779456	-0.8988045287	0.0005578348	0.09450935	-8.652308e-02	0.701078627	0.9982883	-4.120112e-01	0.1402420528	
0.94189574	-7.303703e-01	7.345307e-01	0.9997779456	0.1764030510	0.8396208887	0.96321135	-7.578844e-01	0.441755328	0.9982883	-7.086108e-02	0.8918712751	
0.77869908	-2.695614e-01	8.713349e-01	0.9997779456	-0.0777261763	0.8432170216	0.96338860	-2.536431e-01	0.281582489	0.9982883	-4.795183e-01	0.0834856799	
0.92583146	3.493532e-02	4.361982e-01	0.9997779456	-0.2427835423	0.3313096843	0.85754449	-2.296704e-01	0.201564200	0.9982883	2.725876e-01	0.3041624885	
0.99066584	-4.843376e-01	9.522578e-01	0.9997779456	0.1823488436	0.7487820789	0.95349818	-4.379914e-01	0.144701968	0.9982883	-3.085488e-01	0.3401577881	
0.96804147	-3.770353e-01	8.405151e-01	0.9997779456	-0.0266965444	0.6168861468	0.98077776	-2.653317e-01	0.422837821	0.9982883	-4.197403e-01	0.1057323117	
0.97273515	-3.235823e-01	8.923192e-01	0.9997779456	-0.0232749678	0.9391174232	0.98648257	2.050389e-01	0.320741936	0.9982883	-2.407005e-01	0.4321506279	
0.97273515	-6.722856e-01	9.298832e-01	0.9997779456	0.7098125084	0.2614718903	0.84915316	6.720004e-01	0.095785861	0.9982883	-4.302587e-02	0.9308857465	
0.92890486	-1.328330e-01	6.967216e-01	0.9997779456	-0.2216239345	0.4528706694	0.90612020	9.389637e-02	0.730672369	0.9982883	-6.078333e-01	0.0028731177	
0.84824569	-4.641125e-01	9.651583e-01	0.9997779456	-0.1351409397	0.4777699027	0.90612020	1.065084e-01	0.610650506	0.9982883	-2.897390e-01	0.2371007564	
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0.97273515	5.142027e-01	2.158806e-01	0.9997779456	-0.5032658209	0.4674743020	0.90612020	4.283533e-01	0.527920113	0.9982883	-1.073025e+00	0.1222495800
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0.97273515	-9.370499e-02	6.697901e-01	0.9997779456	0.1866156739	0.7014620981	0.94482995	-3.377672e-01	0.068263382	0.9982883	-2.772641e-01	0.0663505148
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0.96804147	-2.637059e-01	6.725480e-01	0.9997779456	-0.2976472230	0.5248415237	0.90612020	2.218903e-01	0.502220418	0.9982883	1.814693e-02	0.9686775502
0.80653217	3.928583e-01	9.584045e-02	0.9997779456	0.0655066706	0.8870034161	0.97235837	4.707482e-02	0.876823524	0.9982883	-1.431897e-01	0.6376765225
0.87292023	2.536570e-01	2.541824e-01	0.9997779456	0.8437132513	0.1783649513	0.83807199	2.482302e-01	0.569209973	0.9982883	-1.523044e-01	0.7347813119
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0.80868047	-5.036350e-01	6.967317e-01	0.9997779456	2.0232670256	0.2506346082	0.84467092	9.939615e-01	0.320766637	0.9982883	-2.365650e+00	0.0271062222
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0.84824569	-2.357979e-01	9.260647e-01	0.9997779456	-0.0419302806	0.8065141532	0.95972154	7.263670e-02	0.527961096	0.9982883	-5.017760e-01	0.0032459175
0.81552863	1.898725e-01	3.188626e-01	0.9997779456	0.4983120474	0.2454278156	0.84413548	3.679517e-02	0.924401295	0.9982883	-1.608754e-01	0.6964797278
0.82743594	3.980941e-01	1.175098e-01	0.9997779456	0.4532928302	0.3503864720	0.86676800	3.858021e-01	0.261163461	0.9982883	4.282479e-01	0.3966936762
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0.82862325	-7.704147e-02	8.452423e-01	0.9997779456	-0.1417600191	0.1845620644	0.83807199	-3.845873e-02	0.505954200	0.9982883	-8.144858e-02	0.2668730373
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0.86909435	1.133999e-01	2.695025e-01	0.9997779456	0.3244272403	0.1382275744	0.83807199	2.402537e-01	0.178048988	0.9982883	1.766256e-01	0.3628002660
0.99259481	4.060032e-01	3.376122e-02	0.9997779456	0.5588347795	0.1740228620	0.83807199	3.337317e-01	0.099185738	0.9982883	-2.494963e-02	0.9278266851
0.79972808	-1.347646e-01	8.804441e-01	0.9997779456	-0.1195120985	0.5040605857	0.90612020	-1.194530e-01	0.457095753	0.9982883	-4.589850e-02	0.7598130856
0.84824569	-1.671511e-01	9.632111e-01	0.9997779456	0.0103622766	0.9221348994	0.98283449	-3.350058e-03	0.971431718	0.9984111	1.162539e-01	0.1956840773
0.84600172	-2.612064e-01	9.580274e-01	0.9997779456	-0.4469233999	0.0647982235	0.83807199	1.740655e-01	0.298445142	0.9982883	-9.252141e-02	0.6143022343
0.86909435	4.945494e-02	4.659681e-01	0.9997779456	0.4117252048	0.3873911006	0.87916124	5.004175e-01	0.276534542	0.9982883	-4.371531e-02	0.9353534582
0.79972808	-2.804571e-01	8.759165e-01	0.9997779456	-0.1885376469	0.3916356430	0.87916124	-1.133010e-01	0.640824746	0.9982883	-2.475431e-01	0.4469693147
0.97144018	4.405183e-02	3.439227e-01	0.9997779456	0.1401909736	0.2242526137	0.83807199	-5.446493e-02	0.555532963	0.9982883	-5.861466e-02	0.4479446692
0.99066584	-1.541043e-01	8.883571e-01	0.9997779456	0.1540390921	0.2208811361	0.83807199	-8.778804e-02	0.515714039	0.9982883	-2.677655e-01	0.1116118049
0.92876201	1.539268e-01	1.675510e-01	0.9997779456	0.2659930016	0.3047246750	0.84915316	2.641069e-01	0.065472340	0.9982883	9.823156e-03	0.9498944148
0.77869908	2.649304e-01	1.747706e-01	0.9997779456	0.0886987344	0.8102447356	0.95972154	-1.399570e-03	0.996061388	0.9984111	-1.3071749e-01	0.6901056982
0.80820047	2.365759e-01	3.504947e-01	0.9997779456	-0.2035928084	0.6647177006	0.94041014	7.492447e-01	0.226185159	0.9982883	8.223387e-01	0.1635578190
0.97522657	-2.152731e-01	9.686660e-01	0.9997779456	-0.0240984421	0.8417775836	0.96338860	-2.937708e-02	0.806477743	0.9982883	-1.366394e-01	0.2094956496
0.77869908	-1.170055e-01	7.945280e-01	0.9997779456	0.1856480213	0.3105953588	0.84915316	4.801995e-02	0.732943201	0.9982883	1.307922e-01	0.5185238573
0.77869908	2.098020e-01	7.085270e-02	0.9997779456	0.0030968793	0.6071664600	0.93042774	-9.179598e-02	0.371998227	0.9982883	2.835877e-02	0.7739351143
0.77869908	-5.216248e-04	5.009957e-01	0.9997779456	-0.4060523319	0.0830590966	0.83807199	-4.159480e-01	0.038287848	0.9982883	-2.192883e-01	0.3561750044
0.97522657	-8.191183e-02	8.407397e-01	0.9997779456	0.0136358856	0.8771963376	0.96947881	5.858143e-02	0.486729809	0.9982883	-7.407671e-04	0.9952721427
0.84824569	-1.352236e-01	9.029476e-01	0.9997779456	-0.0533506942	0.6198299659	0.93342431	5.605868e-02	0.448371334	0.9982883	1.477238e-02	0.8802791326
0.81163165	1.069931e-01	3.573427e-01	0.9997779456	0.2243391842	0.5783593573	0.92506192	-1.305686e-01	0.607239091	0.9982883	-2.232142e-01	0.3471037714
0.81163165	2.063760e-02	3.714021e-01	0.9997779456	0.0457355871	0.5236094750	0.90612020	7.018739e-02	0.215549259	0.9982883	1.013492e-01	0.1626448575
0.97273515	-2.262279e-01	9.891063e-01	0.9997779456	-0.1190999420	0.2682494804	0.84915316	5.217344e-02	0.5546891375	0.9982883	-2.818290e-01	0.0914789815
0.97273515	-1.558710e-01	6.375122e-01	0.9997779456	0.3286215734	0.32794						

0.80820047	-1.241165e-01	8.184487e-01	0.9997779456	-0.2221433590	0.2960181919	0.84915316	1.151007e-01	0.281027340	0.9982883	3.556493e-02	0.7648420901
0.92876201	9.217259e-02	2.833959e-01	0.9997779456	-0.0278508337	0.8037948652	0.95972154	-1.592834e-01	0.273241903	0.9982883	-5.696705e-02	0.7710534729
0.97522657	6.335286e-02	3.328976e-01	0.9997779456	0.0864376673	0.7243977803	0.94712279	1.218710e-01	0.287537292	0.9982883	3.152236e-02	0.7682207894
0.95487380	7.170637e-02	3.468708e-01	0.9997779456	0.3503184029	0.1625126845	0.83807199	2.139098e-01	0.242059231	0.9982883	-2.870243e-02	0.8719297458
0.95558280	-2.643281e-01	9.151647e-01	0.9997779456	-0.2017203835	0.2361379676	0.84413548	-1.683322e-01	0.310547706	0.9982883	-5.035532e-01	0.0023578299
0.95353311	2.217487e-01	1.746871e-02	0.9997779456	0.0070961395	0.9494871139	0.99055055	-1.300925e-01	0.169660643	0.9982883	5.452342e-03	0.9625478656
0.87292023	1.047122e-01	1.989295e-01	0.9997779456	0.2587291382	0.0020706521	0.24475108	1.442060e-01	0.266993873	0.9982883	-3.232696e-02	0.8061227039
0.97522657	-2.743794e-01	6.761298e-01	0.9997779456	0.5964790895	0.4397120559	0.90612020	4.724012e-01	0.421725717	0.9982883	-1.803021e+00	0.0336780742
0.89512661	-9.037820e-02	6.791118e-01	0.9997779456	0.4216689498	0.2121959966	0.83807199	1.969316e-01	0.130842509	0.9982883	-1.141140e-01	0.4934178442
0.79578964	8.129109e-02	4.353404e-01	0.9997779456	0.6891291492	0.2646466024	0.84915316	2.279115e-01	0.625262315	0.9982883	-1.021916e-02	0.9866398021
0.95202293	-7.174956e-02	7.965116e-01	0.9997779456	-0.0173303381	0.8656661848	0.96707132	9.051295e-03	0.897912676	0.9982883	-1.597356e-01	0.0189950451
0.81552863	-2.385369e-01	8.363427e-01	0.9997779456	-0.2178672513	0.3783249154	0.87916124	-3.797424e-02	0.880176218	0.9982883	-6.942784e-01	0.0162938816
0.98323587	-1.875070e-01	7.095142e-01	0.9997779456	-0.0450555407	0.8589414812	0.96707132	-9.080622e-02	0.749659522	0.9982883	-4.461040e-02	0.8519048076
0.77869908	-7.407521e-02	7.198048e-01	0.9997779456	-0.2626588477	0.0129678050	0.47899830	-2.906718e-02	0.810953631	0.9982883	-1.202770e-02	0.8956444005
0.83237211	-3.840714e-01	9.995623e-01	0.9997779456	-0.1496731879	0.2669319830	0.84915316	-1.186081e-01	0.300172827	0.9982883	-2.888617e-01	0.0738207666
0.99066584	-4.040856e-01	8.327921e-01	0.9997779456	0.0111255544	0.9700143499	0.99380888	1.527184e-01	0.537953716	0.9982883	-3.151691e-01	0.1284785969
0.77869908	-5.408884e-02	7.668636e-01	0.9997779456	-0.0201043587	0.8656964929	0.96707132	6.371215e-02	0.489662722	0.9982883	-2.712676e-02	0.7920518958
0.86909435	6.734135e-01	1.706691e-04	0.0672436197	0.4087814643	0.1470151767	0.83807199	-1.581913e-02	0.926068519	0.9986411	3.138459e-01	0.1846152003
0.99066584	5.169252e-02	3.341360e-01	0.9997779456	0.1713120921	0.2473213155	0.84413548	2.308987e-02	0.817933456	0.9982883	-2.082009e-01	0.1020478796
0.97273515	9.000028e-04	4.974569e-01	0.9997779456	0.1885865337	0.4429363080	0.90612020	1.599241e-03	0.989973844	0.9986411	-2.101062e-02	0.1065050284
0.77869908	7.626627e-02	4.326077e-01	0.9997779456	0.8478902211	0.2942004451	0.84915316	-2.945004e-03	0.994796061	0.9988193	2.901785e-01	0.6574521631
0.79578964	2.843697e-02	4.629517e-01	0.9997779456	-0.3982941629	0.2650227528	0.84915316	-1.630146e-01	0.562503060	0.9982883	8.820259e-03	0.9827055546
0.79213004	-8.441899e-02	8.259926e-01	0.9997779456	0.0367370411	0.6907116768	0.94482995	-3.558192e-02	0.623707875	0.9982883	1.278391e-01	0.2829251819
0.94189574	1.688295e-01	5.304014e-02	0.9997779456	-0.0107457915	0.9329081420	0.98590149	7.581621e-03	0.922576594	0.9982883	-8.720096e-02	0.5044280445
0.82138617	4.325041e-02	3.752449e-01	0.9997779456	-0.1298401566	0.2712173698	0.84915316	-8.136588e-02	0.577825307	0.9982883	-7.757626e-02	0.6113105017
0.90581107	-3.808283e-02	6.096672e-01	0.9997779456	-0.2519862359	0.4190887058	0.89856301	-3.059775e-01	0.027551418	0.9982883	2.348271e-01	0.1963459153
0.86909435	5.087168e-02	4.179811e-01	0.9997779456	-0.1623824205	0.6574572928	0.93854411	-7.177891e-02	0.775929271	0.9982883	-4.432607e-01	0.1460981084
0.77869908	3.262849e-01	1.235795e-01	0.9997779456	0.0504071832	0.8148549135	0.95972154	-2.606655e-01	0.167869926	0.9982883	2.740498e-01	0.2375492034
0.97273515	6.073565e-02	3.377841e-01	0.9997779456	-0.2866335364	0.1241587056	0.83807199	4.218703e-02	0.749710568	0.9982883	-1.066113e-01	0.6079927174
0.97273515	9.782790e-02	2.266213e-01	0.9997779456	0.0886203968	0.4872565529	0.90612020	1.828728e-01	0.113921031	0.9982883	7.930979e-02	0.5436926097
0.97050390	-5.861658e-02	6.150014e-01	0.9997779456	-0.0876946264	0.7687952871	0.95050354	1.533273e-01	0.331593982	0.9982883	9.879482e-03	0.9673837034
0.77869908	3.148192e+00	6.186185e-07	0.0007312071	0.1537928310	0.7699063333	0.95050354	3.321325e-01	0.440924385	0.9982883	6.257453e-01	0.1874504831
0.90581107	-3.140021e-01	8.538312e-01	0.9997779456	-0.5077756305	0.2413447454	0.84413548	-3.182113e-01	0.175642793	0.9982883	-1.915024e-02	0.9601994793
0.86936459	1.444759e-02	4.777923e-01	0.9997779456	-0.0480574963	0.8734960444	0.96947881	-4.125647e-02	0.858331093	0.9982883	1.594241e-01	0.6726562032
0.95472383	-1.572701e-01	8.959066e-01	0.9997779456	-0.1567072417	0.2838516473	0.84915316	9.895628e-02	0.301373713	0.9982883	1.324416e-01	0.3624086169
0.77869908	1.593094e-02	4.305038e-01	0.9997779456	-0.0209453232	0.8161007374	0.95972154	3.927091e-02	0.661685649	0.9982883	-3.332786e-02	0.8227513634
0.90802583	2.128323e-01	4.547286e-02	0.9997779456	0.1830280992	0.3901357088	0.87916124	3.701205e-02	0.717560082	0.9982883	3.047939e-01	0.0020756404
0.81552863	4.983025e-02	2.982540e-01	0.9997779456	0.0787204307	0.4077208400	0.89501894	1.107538e-01	0.158782003	0.9982883	-2.371631e-03	0.9818959663
0.84315681	6.064246e-02	1.819700e-01	0.9997779456	0.1570748849	0.0060528836	0.40915301	3.522932e-02	0.546816660	0.9982883	-9.337731e-02	0.1354401574
0.83725376	1.493878e-01	2.880106e-01	0.9997779456	0.6600703713	0.1285518537	0.83807199	3.169812e-01	0.173972734	0.9982883	5.528312e-01	0.1142842054
0.89369078	-6.195493e-02	7.996615e-01	0.9997779456	-0.1422410578	0.0611271150	0.83807199	1.194558e-02	0.867015596	0.9982883	-1.263739e-01	0.2346890059
0.82862325	-1.474071e-01	9.398455e-01	0.9997779456	0.0241142765	0.7991448157	0.95972154	1.222047e-01	0.147251560	0.9982883	3.080312e-02	0.7553418448
0.89369078	-2.614813e-01	9.932837e-01	0.9997779456	-0.0531214784	0.5886303822	0.92532140	1.340011e-01	0.304934187	0.9982883	1.864385e-01	0.0786884709
0.80820047	-2.559370e-01	9.860757e-01	0.9997779456	-0.1244431035	0.2902750065	0.84915316	-1.280162e-01	0.282048528	0.9982883	-2.362126e-01	0.2137607165
0.77869908	2.446674e-01	1.155479e-01	0.9997779456	0.4051287241	0.1458324123	0.83807199	2.496313e-01	0.209389931	0.9982883	2.981379e-01	0.1910483691
0.98420295	-1.847258e-01	8.395686e-01	0.9997779456	-0.1375001867	0.4807471484	0.90612020	-1.037869e-01	0.525893153	0.9982883	-9.991718e-02	0.6687598948
0.81163165	-1.117751e-01	8.317517e-01	0.9997779456	-0.0726724435	0.5018882973	0.90612020	1.602051e-02	0.867633733	0.9982883	-2.026325e-02	0.8489371793
0.86955753	4.412138e-02	2.428422e-01	0.9997779456	0.1030530650	0.2016291988	0.83807199	3.790994e-02	0.530399980	0.9982883	-5.134733e-02	0.6380843091
0.98299735	8.393150e-02	2.475155e-01	0.9997779456	0.4259505867	0.0014825729	0.19471124	9.607577e-02	0.500720326	0.9982883	-6.221214e-02	0.6619732060
0.95472383	-5.960743e-02	7.643514e-01	0.9997779456	0.0631593385	0.4601230160	0.90612020	5.354124e-02	0.438328195	0.9982883	-8.997753e-03	0.8879865186
0.92041982	2.744103e-02	3.512379e-01	0.9997779456	-0.0308346243	0.7039112562	0.94482995	-2.763939e-02	0.719251597	0.9982883	-5.258490e-02	0.6241606431
0.97273515	-2.326015e-01	8.123433e-01	0.9997779456	-0.3323210985	0.0943818663	0.83807199	-3.364894e-01	0.121465373	0.9982883	-5.421189e-01	0.0123857877
0.87292023	-1.003760e-01	7.754704e-01	0.9997779456	-0.1809845008	0.2001378584	0.83807199	-1.474164e-01	0.311099972	0.9982883	-1.716153e-01	0.2695970425
0.89656266	-1.982093e-01	9.150910e-01	0.9997779456	-0.1668400678	0.2141202783	0.83807199	-1.552793e-01	0.322930876	0.9982883	-1.240384e-01	0.4950347417
0.81552863	-5.274942e-01	9.817887e-01	0.9997779456	-0.1708873031	0.5945331982	0.92532140	1.695949e-01	0.435229335	0.9982883	-3.241137e-01	0.3525736223
0.77869908	1.481740e-01	7.880491e-02	0.9997779456	0.2303746561	0.1152526469	0.83807199	-1.078765e-03	0.990192395	0.9986411	2.641997e-01	0.0302419252
0.97185522	5.798294e-01	3.401758e-02	0.9997779456	0.2350115317	0.6439911386	0.93854411	2.441713e-01	0.416515569	0.9982883	-4.291533e-01	0.3798209003
0.79578964	2.290435e-01	6.819882e-02	0.9997779456	-0.0324808364	0.8946121931	0.97246977	8.283355e-03	0.954610023	0.9986411	2.782474e-01	0.2492424147
0.77869908	2.241258e-01	9.167129e-02	0.9997779456	-0.0818704870	0.7004010685	0.94482995	-7.265511e-02	0.561419958	0.9982883	1.288323e-01	0.3991273453
0.98042753	1.542913e-02	4.456196e-01	0.9997779456	0.1821203698	0.3021480910	0.84915316	1.994512e-01	0.068352555	0.9982883	2.312791e-01	0.0805454859
0.82862325	-4.514748e-02	7.295478e-01	0.9997779456	-0.0789293666	0.5228285708	0.90612020	9.587300e-03	0.903617299	0.9982883	2.996221e-02	0.7677875546
0.77869908	-8.252228e-02	7.761686e-01	0.9997779456	-0.0228189531	0.8257216364	0.95988696	-8.826702e-02	0.326578945	0.998		



Activesmoking	Allergy	Allergy	Allergy	P<CI	P<CI	P<CI
Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)	AVG Log.Ratio	p-val. (2-sided test)	Adj. p-val. (2-sided test, Benjamini-H. cor.)
0.9923046	-0.0384131929	9.005915e-01	0.9969722	0.0928284216	8.020690e-01	9.207928e-01
0.8497626	0.1394959691	5.699765e-01	0.9641086	-0.4063845427	1.273771e-01	4.047304e-01
0.9949051	-0.8090177606	5.120539e-02	0.7921508	-0.0428904548	9.274500e-01	9.835175e-01
0.9949051	-0.2348907008	6.354114e-01	0.9689755	-0.3102466520	4.342856e-01	7.199517e-01
0.8394240	0.2815026205	6.091330e-01	0.9641086	-1.1300490874	3.096886e-02	1.848747e-01
0.9656591	0.2433755404	6.733245e-01	0.9717521	-0.81171161646	3.548998e-02	2.026358e-01
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0.9696873	0.0915597369	3.034874e-01	0.9286466	-0.0338479778	7.438376e-01	8.842500e-01
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0.9949051	-0.2479498339	4.012810e-01	0.9430561	-0.2534335033	3.463852e-01	7.297749e-01
0.8791060	-0.3544415635	4.167783e-01	0.9430561	-0.4678151374	2.973950e-01	6.166427e-01
0.9949051	-0.1381717002	3.785216e-01	0.9430561	-0.4343894544	3.656435e-02	2.058050e-01
0.9210048	-0.2209737865	6.282979e-02	0.7921508	-0.2182883186	1.359143e-01	4.216554e-01
0.9949051	-0.4489108274	1.699689e-01	0.8467562	0.1409568200	6.452930e-01	8.512682e-01
0.9949051	-0.0797721904	7.123217e-01	0.9733364	-0.3771030338	7.886909e-02	3.288820e-01
0.9949051	-0.0075761909	9.457212e-01	0.9969722	0.0678237047	6.286058e-01	8.433108e-01
0.9923046	0.2142492779	3.306911e-01	0.9366787	-0.2411491240	4.064870e-01	9.952547e-01
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0.9949051	-0.0955432760	6.519019e-01	0.9689755	-0.4009904186	7.915589e-02	3.288820e-01
0.9949051	-0.0167780092	9.356283e-01	0.9969722	-0.2130338686	4.284445e-01	7.159073e-01
0.9949051	-0.2313105445	1.005697e-02	0.3705021	0.1096009249	3.728729e-01	6.687949e-01
0.9949051	0.0742941882	7.076242e-01	0.9733364	-0.6177818268	4.069997e-03	3.848305e-02
0.9148164	0.1493966986	2.872268e-01	0.9286466	-0.1048538081	4.222842e-01	7.260833e-01
0.9949051	-0.1181548212	1.440466e-01	0.8166268	-0.1		

0.8899481	0.4754288980	4.292473e-01	0.9478644	-0.0226841126	9.575417e-01	9.906899e-01
0.9949051	-0.2798716907	3.743670e-02	0.6813116	-0.0417314001	7.617376e-01	8.905775e-01
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0.9949051	0.0498608432	6.067635e-01	0.9641086	-0.1068482210	2.776535e-01	5.897332e-01
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0.8394240	2.2338882522	3.446684e-01	0.9398602	-1.4153876606	3.169821e-01	6.316783e-01
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0.8477725	-0.4693728041	7.064771e-02	0.7921508	0.0602431311	8.699748e-01	9.529580e-01
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0.9949051	0.0857607830	5.031747e-01	0.9641086	-0.2134533710	1.568290e-01	4.523748e-01
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0.9949051	0.8684203726	1.874190e-01	0.8526631	1.0152376396	1.574430e-01	4.527923e-01
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0.8394240	0.1562646849	2.791127e-01	0.9128476	0.0206242171	9.965561e-01	9.686740e-01
0.9949051	0.0078294357	9.552644e-01	0.9969722	-0.2683371638	3.485390e-02	2.004620e-01
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0.8532963	0.2862641426	7.629527e-01	0.9866632	-0.2545801777	7.014386e-01	8.762099e-01
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0.9949051	0.3066009753	2.579799e-01	0.9021664	0.1237189095	6.859143e-01	8.689718e-01
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0.8194410	0.0742414693	9.059069e-01	0.9969722	0.7645972534	8.553050e-02	3.339128e-01
0.9949051	-0.0267283080	8.730997e-01	0.9969722	0.0749215406	6.789103e-01	8.656556e-01
0.9210048	0.0759652102	3.837233e-01	0.9430561	-0.0127924331	8.485392e-01	9.481630e-01
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0.9949051	0.0144135616	9.524368e-01	0.9969722	-0.3610732490	6.284609e-02	2.813791e-01
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0.8612982	0.5941188128	1.960021e-01	0.8526631	0.0029457188	9.953516e-01	9.961944e-01
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0.8805172	4.3308168736	2.990816e-01	0.8286466	-0.5645640865	7.278220e-01	8.773616e-01
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0.9949051	0.0191987041	7.918298e-01	0.9957784	-0.0591301084	4.798221e-01	7.551927e-01
0.7815947	-0.1579900055	2.795692e-01	0.9128476	0.0961631382	4.394800e-01	7.244984e-01
0.8539066	-0.1247654978	3.657274e-01	0.9430561	-0.0657523375	6.067154e-01	8.360191e-01
0.8497626	-0.0265137362	9.030955e-01	0.9969722	0.0414804676	8.441055e-01	9.481630e-01
0.9949051	-0.0108314463	9.434920e-01	0.9969722	-0.2712514409	3.091853e-01	6.215256e-01
0.9949051	-0.1900940469	1.079059e-01	0.8123872	-0.1475016522	1.393298e-01	4.288747e-01
0.9949051	-0.0976022999	1.844083e-01	0.8526631	-0.0091988421	8.877113e-01	9.645345e-01
0.9949051	-0.0573070062	8.127038e-01	0.9957784	0.1825396342	8.043080e-02	3.293325e-01
0.9949051	-0.1238537102	1.278491e-01	0.8166268	0.0134806232	6.620432e-01	9.515996e-01
0.9949051	-0.0939124630	3.193831e-01	0.9300968	0.0758158543	4.123435e-01	6.984455e-01
0.4880000	0.0535474771	8.369989e-01	0.9969722	-0.1390791343	6.542333e-01	8.556317e-01
0.8805172	-0.2650113520	8.031871e-02	0.7921508	-0.2171829650	1.451518e-01	4.367095e-01
0.9949051	-0.3283403120	3.393336e-02	0.6684872	-0.2759874166	1.765751e-01	4.802300e-01
0.9210048	-0.3890605504	1.192088e-01	0.8166268	-0.1872531885	4.437237e-01	7.274360e-01
0.6383206	0.0709486046	5.842494e-01	0.9641086	0.1270765466	1.669443e-01	4.676259e-01
0.9275791	0.0573348238	8.781793e-01	0.9969722	0.5519186425	1.445746e-01	4.367095e-01
0.8741974	0.1071255968	5.483134e-01	0.9641086	0.0013581593	9.929049e-01	9.950155e-01
0.9379096	-0.0338174744	8.050012e-01	0.9957784	-0.0449588946	7.301648e-01	8.778587e-01
0.7817234	-0.1192755776	4.178576e-01	0.9430561	0.0657433691	6.444720e-01	8.512682e-01
0.9949051	-0.0459318426	6.899839e-01	0.9733364	-0.0784821034	4.880648e-01	7.621198e-01
0.9210048	-0.0232901695	8.191638e-01	0.9957784	-0.1323811851	1.673484e-01	4.676259e-01
0.9949051	-0.0654097021	5.530803e-01	0.9641086	-0.1226016551	4.362379e-01	7.217613e-01
0.9149215	-0.1413236841	1.450860e-01	0.8166268	-0.1104522136	2.148346e-01	5.227838e-01
0.8210171	-0.0857618031	4.760962e-01	0.9641086	-0.0083410629	9.323935e-01	9.835175e-01
0.9509918	-0.2561924104	1.985913e-01	0.8526631	-0.2334207404	3.467819e-01	6.547862e-01
0.6922402	-0.5038100964	1.252427e-01	0.8166268	0.0050323142	9.854143e-01	9.950155e-01
0.9949051	-0.3045161787	1.237596e-01	0.8166268	-0.5179842018	2.47293e-03	7.590486e-02
0.9949051	0.1893579803	4.735586e-01	0.9641086	-0.4813548846	2.247864e-02	1.919370e-01
0.9148164	0.0464116734	7.469457e-01	0.9820799	0.0493986034	7.743734e-01	9.026719e-01
0.9949051	-0.8882642604	1.564126e-01	0.8386867	-0.8957941660	1.459797e-01	4.367095e-01
0.9949051	0.0671031410	9.062983e-01	0.9969722	2.3238708336	8.814453e-04	1.157632e-02
0.8394240	-0.2488406505	2.966816e-01	0.9286466	-0.0160334553	9.360851e-01	9.835175e-01
0.8394240	0.0295101708	8.829535e-01	0.9969722	-0.0029102060	9.871003e-01	9.950155e-01