Table S8. Related to Figure S7 B. normalized TPM of differential expression genes of Cluster 1-4 in SPN-14, SPN-13 and SPN-07

Gene symbol	CLST1_1 of SPN14	CLST1_2 of SPN14	CLST1_1 of SPN13	CLST1_2 of SPN13	CLST1_1 of SPN07	CLST1_2 of SPN07	CLST3_1 of SPN14	CLST3_2 of SPN14	CLST3_1 of SPN13	CLST3_2 of SPN13	CLST3_1 of SPN07	CLST3_2 of SPN07	CLST2_1 of SPN07	CLST2_2 of SPN07	CLST2_1 of SPN13	CLST2_2 of SPN13	CLST2_1 of SPN14	CLST2_2 of SPN14	CLST4_1 of SPN14	CLST4_2 of SPN14	CLST4_1 of SPN13	CLST4_2 of SPN13	CLST4_1 of SPN07	CLST4_2 of SPN07
DHRS9	0.968858455	1	1	0.971889164	1	0.961342595	0.579304971	0.579304971	0.812319502	0.76823297	0.542261731	0.609937439	0.689100788	0.641106963	0.187539258	0.175549251	0.541349385	0.537501549	0.65273212	0.661065706	0.758991536	0.72811441	0.453898989	0.403317724
RAPGEF3	0.880262369	1	1	0.916050526	0.83419576	1	0.752171199	0.752171199	0.553042548	0.500618418	0.428448034	0.492689123	0.462638946	0.499376929	0.355363798	0.391017273	0.31647377	0.357277409	0.342972584	0.317010896	0.593696657	0.562099851	0.11280954	0.147495323
SLCO4A1		0.935129323	0.891956497	1	1	0.973167168	0.531172745	0.531172745	0.455817305	0.420897485	0.828809609	0.912237522	0.8867187	0.951212507	0.599506381	0.731811795	0.782038177	0.643994304	0.615445401	0.638802305	0.381101419	0.431585405	0.575934766	0.540143437
HAS3	0.953139857	1	1	0.883047059	1	0.918666906	0.688403945	0.688403945	0.327484125	0.354895734	0.50479502	0.498987216	0.655024267	0.647784117	0.418765571	0.410161558	0.374528147	0.417059871	0.626898833	0.634867787	0.832489602	0.81287068	0.851953502	0.840582308
CA2	1	0.732577143	1	0.862027349	1	0.964283842	0.295204462	0.295204462	0.292591309	0.256342229	0.402355209	0.369410206	0.745084468	0.841379197	0.347631237	0.37818129	0.52260618	0.425720746	0.514582013	0.543771584	0.456997459	0.431410187	0.201485145	0.210962062
NDRG1	1	0.974566055	0.928173161	1	1	0.96482345	0.601996964	0.601996964	0.654473807	0.685051854	0.238476516	0.235592285	0.287105552	0.265054959	0.606191717	0.606364829	0.388523213	0.363379083	0.714789419	0.729161872	0.869668892	0.926751631	0.738134739	0.686443861
SH3PXD2A	0.988730339	1	1	0.954995682	1	0.891269226	0.69253484	0.69253484	0.713843329	0.722426731	0.693124908	0.735831788	0.555011685	0.560260355	0.872114552	0.878642863	0.335973465	0.342875795	0.831461643	0.825289429	0.816462083	0.763012812	0.772397451	0.674759665
FBXW7	0.937197201	1	1	0.89106944	0.891396675	1	0.278055839	0.278055839	0.711134407	0.690177224	0.651281666	0.668899105	0.734111555	0.729803471	0.617253589	0.733467914	0.49869424	0.273735919	0.527218379	0.463995443	0.7343518	0.87706143	0.583476061	0.551704135
DUSP22	0.872301298	1	0.967859654	1	1	0.841421368	0.46005266	0.46005266	0.853015164	0.667352298	0.634202669	0.613984331	0.713965726	0.761991836	0.677436543	0.743547098	0.492620238	0.541935846	0.806364305	0.870979277	0.840275706	0.810995559	0.718643954	0.756046502
ACTR3	1	0.914167896	1	0.711139777	0.919056909	1	0.338684066	0.338684066	0.638603581	0.601805733	0.986740621	0.937858579	0.980136964	0.979129701	0.572929006	0.589039538	0.369239043	0.306790846	0.987860791	0.942194063	0.810849119	0.544469503	0.767143988	0.706462716
GALNT3	0.917881328	1	0.938610523	1	0.987629954	0.963566317	0.607138277	0.607138277	0.685253098	0.635288703	0.893087601	1	0.825281096	0.810709114	0.857277231	0.866595016	0.88051708	0.689344714	0.973783402	0.968845301	0.78545166	0.781587704	0.622539545	0.436192024
MARK1	0.87433893	0.92762858	0.865814399	1	0.952223288	1	0.414601067	0.414601067	0.634694071	0.828584313	0.46447837	0.476356645	0.741830355	0.502880603	0.765424626	0.698870456	0.495224946	0.445762758	0.863379066	1	0.698303648	0.87821882	0.487151921	0.539149808
ARTN	0.935219726	1	1	0.898263355	0.907179482	1	0.293041442	0.293041442	0.620817199	0.64829317	0.51872841	0.565271588	0.521060435	0.406840921	0.235286733	0.243423235	0.400704578	0.718899514	0.483120004	0.503248415	0.550969571	0.558241784	0.167918531	0.170287527
WWP1	0.87996264	1	0.978660561	1	1	0.685968093	0.294852652	0.294852652	0.886755299	0.712606573	0.913479616	0.811955937	0.93817356	0.70979561	0.851110287	0.828925611	0.466281663	0.324443474	0.841802951	0.84296495	0.781028354	0.769176028	0.411669157	0.534016152
KRT17P1	0.98918302	1	1	0.812580531	0.654050282	1	0.390439051	0.390439051	0.344925222	0.287627424	0.257577701	0.317692708	0.389021275	0.313129833	0.747703034	0.71414808	0.696093075	0.756017466	0.672413161	0.811276736	0.734555695	0.671200168	0.751566077	0.717159665
SKIL	0.973665672	1	0.628972573	1	0.934303009	1	0.20905685	0.20905685	0.532294855	0.358608367	0.700001715	0.631137834	0.677544973	0.697511728	0.446847111	0.463892853	0.291279433	0.191462868	0.979781833	0.87603829	0.518626045	0.586386978	0.570292079	0.626650471
HADHB	0.949385192	1	0.99267324	1	0.996962702	0.980585999	0.659978803	0.659978803	0.887969519	0.822492982	0.873377317	0.894345462	0.758330992	0.80728633	0.936845861	0.906569189	0.66692533	0.578722541	0.924249907	0.930595564	0.873145611	0.871328393	1	0.996261474
PADI1	0.927680317	1	1	0.958159915	0.912282503	1	0.474399158	0.474399158	0.823181098	0.753365429	0.201859846	0.237250528	0.118990652	0.148314794	0.762065468	0.857226378	0.30867738	0.169307586	0.369648252	0.384680845	0.561661927	0.70362606	0.093820108	0.076083809
LHFPL2	1	0.985662002	1	0.909196742	1	0.82676454	0.863214104	0.863214104	0.930436492	0.805887051	0.780715464	0.951451112	0.725506828	0.903097105	0.684164903	0.755486037	0.43353501	0.430728295	0.942587932	0.901327216	0.7333036	0.698904853	0.492300749	0.566525271
GSDMC	1	0.962128909	0.901296804	1	0.954156957	1	0.708099042	0.708099042	0.513398286	0.405984154	0.427127584	0.611910702	0.974723306	0.544377758	0.550892247	0.424818939	0.826771934	0.591156367	0.839098345	0.798836028	0.450895358	0.484270245	0.73738316	0.777427514
CDH8	0.883927915	1	1	0.547374469	1	0.639839407	0	0	0	0.007140047	0.077103656	0.181603688	0.206908134	0.193227259	0.164557662	0.258878823	0.333090624	0.670189347	0.261629991	0.010168928	0.215480894	0.066519702	0.35770897	0.318870816
DAB2	0.958188691	1	0.508207451	1	0.829671372	1	0.074068711	0.074068711	0.351436573	0.442529682	0.735048446	0.35740548	0.797471033	0.457179495	0.26519051	0.173478678	0.596501325	0.171392339	0.458367872	0.23684709	0.34762887	0.289265661	0.070374055	0.26151807
CERS3	0.87568369	1	0.513584265	1	1	0.941596785	0.103659903	0.103659903	0.352079506	0.125204762	0.384925797	0.233740596	0.782616951	0.316045519	0.041980207	0.046425724	0.367138358	0.218111593	0.508821064	0.745373106	0.337290757	0.432939089	0.048978012	0.229978822
ADAMTS1	0.99910241	1	0.901594405	1	0.980785431	1	0.756934475	0.756934475	0.609702523	0.61154669	0.61936956	0.632421995	0.793798083	0.795974967	0.660871889	0.661704179	0.292286841	0.206119066	0.88802139	0.889699655	0.588499086	0.56090338	0.982654538	0.904875288
CLDN17	1	0.666599081	0.626958305	1	0.689358222	1	0	0	0.166605738	0.197664592	0.182000847	0.125379522	0.340954959	0.079969063	0	0.022540259	0.223753787	0.368684262	0.212273769	0.362395309	0.52544505	0.706168126	0	0.113397854
U2AF1	1	0.836538401	1	0.636527205	0.91085938	1	0.33083283	0.33083283	0.432937258	0.638486049	0.562794356	0.9865886	0.750598059	0.784794388	0.491947031	0.519228105	0.529886562	0.863232627	0.699795298	0.471233421	0.5090406	0.368080287	0.666724653	0.895649171
AQP5	1	0.917150589	0.962714019	1	0.996230777	1	0.926499861	0.926499861	0.147577926	0.168613457	0.368020423	0.447064074	0.237701248	0.263828054	0.522593601	0.556286825	0.626328569	0.785138264	0.47246099	0.455871677	0.023885754	0.030258401	0.389141449	0.279123462
AKNAD1	0.79327098	0.788224987	0.643400872	1	1	0.687796678	0.188270413	0.188270413	0.437725028	0.292033017	0.27027324	0.091768999	0.398422428	0.214399757	0.195727026	0.275386015	0.503346112	1	0.30582024	0.68047966	0.406193874	0.535431915	0.063455456	0.434660037
ARPC5	0.945804899	0.932882177	1	0.909819849	0.958494854	1	0.632879144	0.632879144	0.715122395	0.721840046	0.890610543	0.901353242	0.934459045	0.87103942	0.736498024	0.721870184	0.695777149	0.580541299	0.97692513	1	0.818992203	0.730513302	0.713792305	0.712492002
TPM4	1	0.988054897	1	0.985327585	1	0.937490976	0.632678589	0.632678589	0.663376727	0.664885288	0.86762354	0.852425443	0.80458991	0.786012345	0.594449274	0.59219023	0.586863741	0.506637364	0.966298493	0.942308801	0.644946319	0.639601635	0.903693106	0.858056206
PTK2	0.901583747	1	1	0.963735057	1	0.934504308	0.757410567	0.757410567	0.806885058	0.78894055	0.847080211	0.869801466	0.878165929	0.881434819	0.870976949	0.88622538	0.496016382	0.245442877	0.973500453	0.947102289	0.889131932	0.938956665	0.821728471	0.69299297
CALB2	0.799137161	0.534579436	1	0.979015804	0.892040929	1	0	0	0.288648912	0.287008286	0.670586257	0.645046129	0.472590462	0.53703035	0.1124036	0.069112023	0	1	0.698563253	0.071664366	0.462875808	0.446266683	0.059574729	0.193020479
B3GNT8	0.990973983	1	0.932007973	1	0.901272776	1	0.396986124	0.396986124	0.618650451	0.644382208	0.28509337	0.205854437	0.373529094	0.47201516	0.406553544	0.342457146	0.50237502	0.545365645	0.506308903	0.419353215	0.79824026	0.63807693	0.473661398	0.658242517
LINC01559	0.919779816	0.938559653	1	0.838139271	0.981791167	1	0.385949814	0.385949814	0.070553584	0.11943377	0.320160618	0.414215738	0.277877826	0.260766865	0.26868232	0.390569756	1	0.839018974	0.667907326	0.981659517	0.507876684	0.347295993	0.171870624	0.132320542
CREB3L2	1	0.992955605	0.965381581	1	0.95985763	0.86265739	0.736479411	0.736479411	0.796985835	0.743853716	0.815352877	0.86342666	0.731585966	0.723628924	0.786703135	0.853482112	0.479099695	0.402347334	0.982418249	0.978600986	0.744283251	0.757150238	1	0.83770827
ALDH1A3	1	0.985471431	1	0.963163046	1	0.980769229	0.558139127	0.558139127	0.764005862	0.781279109	0.414550955	0.44522666	0.465876989	0.473466293	0.417882941	0.43037661	0.341272721	0.303543494	0.844693169	0.856904503	0.785990418	0.811149097	0.618690573	0.569116541
KRT14	0.782027717	0.772912142	0.992244181	1	1	0.959647551	0.493500642	0.493500642	0.837929539	0.916467579	0.259609263	0.269893181	0.354097177	0.360339971	0.875102487	0.875682111	0.609694563	1	0.774287893	0.795711866	0.899844635	0.937240517	0.078994151	0.079150515
S100A2	0.844844369	0.858932726	0.991019751	1	0.917551386	1	0.801706823	0.801706823	0.932504865	0.909896759	0.702466447	0.735749729	0.758847503	0.772315628	0.907080644	0.903088595	0.779612507	1	0.822799846	0.828700948	0.752450617	0.793730967	0.75791519	0.822734542
RAET1G	0.999072627	1	1	0.950641017	1	0.85950705	0.728987698	0.728987698	0.709293177	0.751383711	0.40622067	0.407025373	0.656599492	0.621126387	0.609931708	0.652894588	0.784491616	0.768866507	0.790772592	0.751708992	0.40676488	0.392571367	0.485854007	0.449921544
GIGYF2	1	0.959784154	1	0.853585314	1	0.924431467	0.890258902	0.890258902	0.795243185	0.846191943	0.891528519	0.793551423	0.826305053	0.789989174	0.76010627	0.855033201	0.503007087	0.363546194	0.912504574	0.942317724	0.609378283	0.669645737	0.88879923	0.836861033
RP11-318K12.	1	0.979791529	0.91241838	1	1	0.919713278	0	0	0.104254025	0.086496518	0.579433002	0.770877123	0.480846982	0.488058639	0.088118655	0.070774265	0.358129035	0.229798274	0.783018534	0.928678326	0.522705095	0.473439486	0.222331917	0.107233936
APCDD1L-AS	1	0.846794788	0.886748302	0.830281925	1	0.449883669	0	0	0.164442862	0.189145682	0.06961127	0.043955108	0	0	0.050667589	0.03970587	0.601725047	0.232544908	0.315319198	0.994866066	0.5087291	1	0.70177324	0
ELAC2	0.8785548	0.806785247	0.852585171	0.897042846	0.641736498	0.62745123	1	1	0.961332145	1	1	0.971782674	0.904111169	0.889350488	0.767357511	0.778840384	0.597896476	0.457099883	0.735124693	0.662603096	0.682910266	0.695291334	0.728867415	0.681170863
ALG1	0.550121753	0.558817856	0.797119159	0.753191048	0.487447141	0.420991081	1	1	1	0.775151211	0.846302221	1	0.887133347	0.885384441	0.777917711	0.705328439	0.528756053	0.542715147	0.643707247	0.565402828	0.515514168	0.469899796	0.432668318	0.426570035
EIF2B3	0.72517195	0.748461754	0.76654008	0.779200037	0.518903714	0.54020328	0.968620318	0.968620318	0.965439458	1	1	0.995712076	0.977871044	0.954366287	0.758498762	0.84962199	1	0.749914816	0.651303013	0.667170851	0.433506995	0.640114462	0.586800726	0.575903615
PVR	0.781433648	0.762813859	0.779970241	0.717452986	0.714218678	0.646616098	1	1	0.989435458	1	0.988998854	1	0.874613161	0.860695359	0.633810837	0.665152576	0.56091889	0.475065826	0.952259375	0.957742828	0.836567219	0.826684515	0.744205902	0.697458299
POFUT1	0.845817834	0.801330479	0.921071271	0.923662447	0.632074915	0.572411711	1	1	1	0.968257737	1	0.923758396	0.950701423	0.857780618	0.875407957	0.926802949	0.651617017	0.517026541	0.806778909	0.755760308	0.628191448	0.562485708	0.616563167	0.537177608
MRPL4	0.755716369	0.779806132	0.957133544	0.83036725	0.542106897	0.515401183	1	1	0.927083224	1	0.968741275	0.918262469	1	0.933164908	0.915359268	0.875918577	0.866736399	0.989316324	0.648758118	0.664587138	0.640389372	0.644002078	0.656879453	0.685225109
CAV1	0.990032945		0.851698645	0.849411866	0.865212747	0.812086637	0.963622118	0.963622118	1	0.96643167	1	0.958693176	0.998089981	0.964755822	0.900344138	0.918437167	0.609690499	0.537831796	0.709796666	0.734453266	0.698454056	0.687443721	0.698963539	0.650143731
MRPS12	0.5520044	0.600633666	0.859481394	0.916555073	0.565200534	0.590648793	0.968055143	0.968055143	0.968725296	1	1	0.981401816	0.994671945	0.918097347	0.824580163	0.775872482	0.821943003	1	0.547906873	0.547714721	0.584951436	0.561533622	0.621172581	0.707385451
PDCD11	0.832549126	0.835903467	0.927971732	0.916753808	0.553653859	0.471106145	1	1	1	0.961344612	0.962750097	1	0.947079639	0.856324844	0.711386144	0.668917693	0.535272391	0.376283772	0.725103855	0.699114203	0.606120286	0.646946458	0.808059428	0.759434886
VPS26B	0.6607328	0.684893725	0.823067608	0.809726738	0.721679717	0.741086456	1	1	1	0.952564016	1	0.91247988	0.95745232	0.930758639	0.885736893	0.87551016	0.648337769	0.497795392	0.745614637	0.673860211	0.650177024	0.591254989	0.852517512	0.8553258
FAM207A	0.692482235	0.704225372	0.841645607	0.878873814	0.472592199	0.461528468	0.899443664	0.899443664	0.954866655	1	0.995178474	1	0.874220189	0.904961029	0.79503005	0.777078177	0.794230297	1	0.577028008	0.63767957	0.576823141	0.613324553	0.576297376	0.559519362
MCM3AP	0.715884799	0.827724671	0.85252133	0.929405224	0.667124769	0.751933709	1	1	1	0.956411708	0.974099388	0.885856949	1	0.889932438	0.766255343	0.796292867	0.379730235	0.328403523	0.724426301	0.859262815	0.699685192	0.580140663	0.688338825	0.535465484
YDJC	0.638724868	0.653580729	0.920995052	0.953845353	0.592596712	0.542505019	1	1	1	0.985984436	0.935448601	0.912246937	0.938649017	1	0.878794211	0.88001948	0.868874704	0.932739951	0.609180673	0.619975613	0.640187708	0.594757474	0.630071116	0.697962266
DNAJB14	0.579753946	0.784046067	0.784971621	0.741808967	0.833506991	0.809862213	0.917009625	0.917009625	0.907828742	1	0.815182099	1	0.934564625	0.775715454	0.908025107	0.789869395	0.413350182	0.351621348	1	0.852871609	0.816546497	0.897067391	0.603560628	0.614717415
ATG4B	0.820380986	0.874762983	0.90192036	0.954810385	0.663583386	0.660349609	1	1	0.988759608	1	0.84659886	0.912847812	1	0.830262984	0.843604663	0.993406939	0.455363606	0.503116254	0.774224502	0.79188639	0.740826316	0.7214982	0.810565031	0.65408062
SLC19A1	0.538343711	0.576424444	0.896369403	0.489562468	0.37577789	0.525898953	0.988487478	0.988487478	0.820012093	1	1	0.904419554	0.842612202	0.780091675	0.795317544	0.901879288	0.894583877	1	0.195700658	0.205622131	0.419590149	0.431455659	0.370024387	0.338650238
PFAS	0.64838167	0.580501567	0.845507142	0.740749412	0.557950173	0.264878665	1	1	0.812435598	1	1	0.916002408	0.946588668	0.867479425	0.864156207	0.66701576	0.614121254	0.540723364	0.337784181	0.336387683	0.487646546	0.53181978	0.354055745	0.373810629
PGP	0.484945233	0.538740438	0.739204265	0.695213111	0.612623639	0.562209703	1	1	0.930134993	1	0.947490904	1	0.925839704	0.876364996	0.858988615	0.939220318	0.948370775	0.919991715	0.476512514	0.501220028	0.691913337	0.74237967	0.696934994	0.629757077
SZT2	0.643402396	0.697134595	0.676533204	0.725230436	0.625902461	0.666220983	1	1	0.960670653	1	1	0.807132823	0.575898986	0.580097604	0.833844787	0.797907009	0.38809357	0.445549032	0.706784002	0.649014035	0.745772636	0.795437985	0.698042593	0.55359089
AFG3L1P	0.957000253	0.917434015	0.902766084	0.733959111	0.447127336	0.484216156	1	1	0.888226908	1	0.781216135	1	0.807205265	0.681185336	0.933272587	0.791207266	0.422300888	0.35100385	0.599062923	0.496699886	0.496206681	0.482049275	0.62300378	0.510645073
ZNF324B	0.764543356	0.850713057	0.543311184	0.447476468	0.395228018	0.275197686	1	1	0.952038206	1	0.701590352	1	0.857125675	0.793252257	0.740203512	0.502136476	0.443546815	0.338032076	0.624142682	0.660143793	0.377568078	0.341254812	0.582871266	0.432731501
SLC25A5	0.731300577	0.732695525	0.865407941	0.856274044	0.659793821	0.640866776	0.981226419	0.981226419	0.803889566	0.837025381	0.940067968	0.9371005	1	0.998929	1	0.982785046	0.942012928	1	0.482300303	0.487210044	0.590790804	0.571651253	0.772348856	0.756708866
LUC7L	0.633827513	0.670917958	0.858605949	0.883689539	0.670769271	0.645367465	0.850640023	0.850640023	0.824433976	0.917447459	0.968720658	0.89866876	1	0.820241439	1	0.995676256	0.895810601	1	0.580105985	0.536265144	0.534314673	0.491157001	0.758512305	0.639654201
MRPL43	0.683168139	0.608644152	0.902128296	0.870799497	0.714213545	0.67669436	0.82972743	0.82972743	0.861695953	0.912317279	0.96188781	1	0.938810691	0.960831677	0.982115939	1	0.766889942	1	0.62352402	0.651526108	0.732931855	0.64925013	0.800404283	0.780669876
MRPS34	0.540314705	0.573890664	0.826176053	0.847374387	0.596954958	0.599699306	0.85206559	0.85206559	0.862432706	0.817839726	0.967766236	0.939749539	1	0.951147691	0.975329039	1	0.807312996	1	0.456482157	0.424986594	0.585037299	0.583772648	0.623668073	0.655334013
UBE2T	0.853177163	0.866349134	0.743540575	0.787303909	0.442992477	0.421561936	0.780667336	0.780667336	0.549342271	0.534287526	0.934444257	0.92828801	1	0.943493809	0.975509661	1	1	0.839761249	0.309634455	0.337230662	0.329867394	0.35811547	0.376210092	0.408570491
VDAC3	0.871407883	0.888910318	0.916949294	0.874545711	0.753858199	0.754232341	0.984050211	0.984050211	0.887084162	0.90776216	0.862562403	0.858086523	1	0.941153886	1	0.957158798	0.97444463	1	0.834673989	0.79040878	0.677916279	0.675883695	0.595640736	0.637396569
NDC80	0.814443223	0.730404321	0.794608216	0.825567963	0.662583405	0.621242948	0.631695762	0.631695762	0.458012082	0.521842479	1	0.679984156	0.906692495	0.839369458	0.916571429	1	1	0.598660992	0.242218035	0.217642248	0.429788401	0.381817024	0.365260677	0.216800113
GSTP1	0.566902569	0.573347284	0.80950634	0.82538102	1	0.960677642	0.91686817	0.91686817	0.842176204	0.825645811	0.920290832	0.92962935	0.957838275	0.940180881	1	0.996204579	0.797149812	1	0.64028835	0.652131482	0.793732432	0.759590785	0.950763543	0.983816892
DNAJA1	0.808584752	0.754734572	0.917792561	0.927704812	0.737211	0.715540366	0.784134987	0.784134987	0.782564845	0.740265774	1	0.935931065	0.963613045	0.926956218	0.996074332	1	1	0.801134998	0.866167047	0.875818007	0.755166322	0.736690906	0.741286367	0.711424846
CDKN3	0.687427193	0.623419876	0.77335845	0.830470656	0.524671384	0.497442079	0.887301939	0.887301939	0.546410115	0.509263493	0.885739542	0.854625442	1	0.894177762	1	0.959316547	0.895825262	1	0.280214599	0.26343295	0.275862459	0.287769057	0.379432947	0.359761445
AHSA1	0.811101519	0.787599036	0.863974953	0.975159409	0.675221236	0.662898209	0.829116561	0.829116561	0.878427383	0.889920274	0.972989269	0.974842813	0.86732279	1	1	0.955349653	0.912394925	1	0.793928272	0.866668366	0.630281339	0.715918647	0.650197989	0.681571582
APEX1	0.734118847	0.69735996	0.862661059	0.865349926	0.582693584	0.613532715	0.855311958	0.855311958	0.860484274	0.939475862	0.920389069	0.904785044	1	0.954410311	0.966739751	1	1	0.814531437	0.541557097	0.546319132	0.615066314	0.604970868	0.753119392	0.738134033
SF3A2	0.854145959	0.834228395	0.904482093	0.931246215	0.594198517	0.502507888	0.829425038	0.829425038	0.71741416	0.813649549	0.989299664	0.87666663	1	0.980912994	0.970904461	1	0.860076169	1	0.470472457	0.489001352	0.547992498	0.531711955	0.583239818	0.583349912
OAZ1	0.862025683	0.862781767	0.762532753	0.855211013	0.776115065	0.701329768	0.932574524	0.932574524	0.869228393	0.964596121	0.97264677	0.98833845	1	0.988516409	1	0.978192446	0.899007602	1	0.916751064	0.942221305	0.70307829	0.767344029	0.855442971	0.867426149
H2AFV	0.945120167	0.966252193	0.780739689	0.818235824	0.676011308	0.667322704	0.908971189	0.908971189	0.596768751	0.634579002	0.998335648	0.973192103	1	0.940790111	1	0.969089571	0.939084724	1	0.608845858	0.573022478	0.394660662	0.423326729	0.658049426	0.669382178
NUDT1	0.660299405	0.61587579	0.871293199	0.981280738	0.579070927	0.686227259	0.864324638	0.864324638	0.785441295	0.738235017	0.976826856	0.982583678	0.968640097	1	1	0.993146318	0.79653788	1	0.340331768	0.342030407	0.426177543	0.458760151	0.689796457	0.678735831
RPA3	0.727588911	0.678687782	0.897911086	0.948102312	0.427096769	0.437933001	0.567745902	0.567745902	0.743362542	0.652374933	0.789725911	0.814556268	0.923090029	1	1	0.9917897	0.714666537	1	0.378086019	0.478171155	0.459485329	0.446984623	0.500517911	0.454357016
CCDC34	0.674990047	0.690606926	0.685347154	0.67674774	0.55320018	0.498619055	0.940738263	0.940738263	0.438059822	0.536797314	0.878201557	0.784693572	0.964618976	1	1	0.989032858	1	0.91852371	0.327963921	0.296776508	0.354500333	0.407555729	0.488747469	0.583925355
CACYBP	0.907872001	0.912531304	0.934024155	0.915953892	0.607353641	0.574930741	1	1	0.722839194	0.787585541	0.945329367	0.890761427	0.999084911	1	0.969523395	1	0.994705202	0.964250412	0.562415247	0.599794966	0.458423655	0.515378943	0.432224108	0.4661822
ATP5F1	0.890422642	0.842929953	0.914181187	0.86685253	0.761321988	0.745406154	0.649752911	0.649752911	0.936811281	0.85907697	0.873770872	0.913034973	0.987571492	1	1	0.994521478	0.959840342	1	0.912639292	0.904591166	0.748433899	0.728073411	0.857151523	0.848199317
CENPF	0.943954515	0.939654464	0.438833891	0.454917274	0.949857962	1	0.510813459	0.510813459	0.263697416	0.372424492	0.720844238	0.807577798	0.899639336	0.99313265	1	0.759829844	1	0.874272686	0.427173916	0.31689175	0.408346946	0.2744174	0.473384114	0.52231924
RPA2	0.712920885	0.695600981	0.764240979	0.858678728	0.690583614	0.638072335	0.461519886	0.461519886	0.705524371	0.770335805	0.94551866	0.955549501	1	0.932492982	1	0.966973559	0.715137921	1	0.369052663	0.369006615	0.580403243	0.513285333	0.586323775	0.611912913
HSPH1	0.975649556	0.95041461	0.843900101	0.82975883	0.761222378	0.71536622	0.859959798	0.859959798	0.646450513	0.656511689	0.912681405	0.905241024	1	0.987299086	0.997301364	1	1	0.833305753	0.9047431	0.919110004	0.527935171	0.540413988	0.632575526	0.599254997
MND1	0.945642784	0.946123403	0.562773405	0.509055879	0.404091554	0.455157924	0.689680991	0.689680991	0.358486422	0.415931406	0.737483759	0.7200109	1	0.822947763	0.92279385	1	1	0.869320524	0.282834331	0.247223886	0.321061737	0.315720369	0.253192636	0.304143633
CKS2	0.634883606	0.643168644	0.791659879	0.761667038	0.671858246	0.581180472	0.766523788	0.766523788	0.583560504	0.541692336	1	0.934923742	0.911282108	0.985984483	1	0.989020664	0.950873592	1	0.276578501	0.25721606	0.41805578	0.432224759	0.575281973	0.632556226
DLGAP5	0.877014481	0.882083955	0.686271445	0.614662459	0.665448534	0.634425553	0.811925696	0.811925696	0.456041593	0.434844234	0.864632181	0.863620592	0.956783955	1	1	0.966453049	1	0.700700558	0.300567417	0.3129469	0.338505369	0.328545332	0.402750943	0.37315265
DUT	0.934787642	1	0.968367989	0.898767106	0.512430717	0.554817951	0.970649536	0.970649536	0.607782658	0.638315199	0.950880184	0.951698527	1	0.934904371	0.976741018	1	0.99948785	0.965069758	0.461166662	0.476584422	0.422030501	0.344683392	0.444796666	0.42901563
LSM4	0.430174901	0.434576518	0.986939997	0.845071262	0.683334789	0.717352273	0.613400605	0.613400605	0.809787171	0.851816247	0.917456559	0.973279842	1	0.960621607	0.978476012	1	0.56949881	1	0.357775466	0.362766134	0.656254205	0.590218504	0.704624344	0.739098776
CEP55	0.811721431	0.842561418	0.756542848	0.778839908	0.641059557	0.609556184	0.767667105	0.767667105	0.52193439	0.506764939	0.946633634	0.86052775	1	0.916858877	1	0.990968747	1	0.780954431	0.25111916	0.269546006	0.314183946	0.309181935	0.368061561	0.319863092
NABP2	0.631554224	0.657694006	0.972088231	0.741551834	0.606166449	0.607346578	0.926454891	0.926454891	0.798611742	0.683994193	0.845521314	0.801239377	0.97597775	1	1	0.99949933	0.955500036	1	0.554499157	0.596453521	0.552498095	0.594256156	0.55687833	0.553832281
ANAPC11	0.593521555	0.615323287	0.875400537	0.925512743	0.66215901	0.67236095	0.747885447	0.747885447	0.832160107	0.912431208	0.937067255	1	0.93682086	0.942149434	1	0.97901293	0.812834013	1	0.568326806	0.593785402	0.653688681	0.674586582	0.741250713	0.825801467
BOD1	0.834867905	0.791521386	0.83553919	0.86747884	0.488939143	0.459750674	0.902811287	0.902811287	0.895435364	0.86330197	0.852464477	0.963879447	0.787211552	1	0.96141056	1	1	0.775574178	0.561047429	0.557813321	0.587926643	0.539851005	0.56832977	0.499828906
HAUS1	0.930900198	1	0.807886439	0.820341509	0.546340777	0.464569565	0.453877747	0.453877747	0.59101949	0.584915609	0.927265235	0.944016222	0.994955974	1	1	0.9677519	0.920730772	0.988721073	0.525780397	0.465890688	0.390895507	0.503365444	0.417266874	0.457468923
MRPL39	0.920262329	0.960918713	0.900134223	0.93252359	0.687082523	0.671710219	0.740667577	0.740667577	0.873214085	0.902101802	0.86825286	0.846975256	1	0.939908302	0.993619058	1	1	0.871359256	0.740692149	0.804463528	0.698297603	0.644510583	0.687655046	0.61729469
ATP5J	0.891186704	0.931191767	0.839482226	0.859309457	0.780964736	0.792498613	0.37450969	0.37450969	0.928832034	0.906172604	0.963005651	0.916720077	0.888102476	1	0.955519135	1	0.787362779	1	0.907792329	0.875168933	0.649414083	0.706695087	0.975904436	0.966978862
SNRNP25	0.577066115	0.640500343	0.854353067	0.872905987	0.450797563	0.421026668	1	1	0.807905951	0.895484854	0.816180562	0.856071925	1	0.979136559	1	0.979343921	0.932880192	0.97773075	0.391243105	0.400067141	0.399267682	0.42558899	0.432265499	0.453564915
THOC7	0.916245702	0.992596593	0.861321932	0.920443183	0.722322828	0.700060153	0.401098689	0.401098689	0.873264995	0.894184341	0.907397413	0.910236451	1	0.977393249	1	0.994876771	0.84201618	1	0.930832889	0.950388689	0.653038699	0.622390663	0.638623824	0.699488451
H2AFZ	0.881480092	0.889505074	0.920239337	0.955143757	0.496673411	0.466469126	0.572106466	0.572106466	0.683404001	0.654282689	0.903497748	0.949441291	1	0.987838371	1	0.989728963	0.890747955	1	0.415144326	0.428700343	0.431511864	0.441197796	0.440955172	0.464552659
FOXQ1	0.727511372	0.721582932	0.705770928	0.738011235	0.755919135	0.708332838	0.743911228	0.743911228	0.503424572	0.609417112	0.775799997	0.841090355	0.978188447	0.959423436	0.989031822	1	0.928294239	1	0.3995141	0.416692487	0.635583201	0.529519369	1	0.99402154
PTTG1	0.807273303	0.846338799	0.723978164	0.713431361	0.661418767	0.63589137	0.950316194	0.950316194	0.499016357	0.48663895	1	0.981239864	0.982583408	0.996315692	0.975477772	1	0.839428605	1	0.413238961	0.40105669	0.443024251	0.464533468	0.519893362	0.552991607
PCLAF	0.752625982	0.724487086	0.809706811	0.666747928	0.61444055	0.566374987	0.569833529	0.569833529	0.435222992	0.567531928	0.971871972	0.946541354	0.993187972	1	0.865126856	1	0.89733755	1	0.23871222	0.210150482	0.243655666	0.30196853	0.468043114	0.461940699
DTYMK	0.925442789	0.965889337	0.890767609	0.848363467	0.522168296	0.547284624	0.93664306	0.93664306	0.742588245	0.727360269	0.916489295	0.843158924	0.910016843	1	1	0.983522559	0.900631969	1	0.471039686	0.478146885	0.47646009	0.465906444	0.42873829	0.403884416
CENPX	0.62133363	0.625147014	0.860315913	0.934667426	0.630524323	0.562024909	0.701767163	0.701767163	0.919550031	0.888271364	0.970502159	0.986055371	0.96108133	1	0.938254354	1	0.773705428	1	0.441533242	0.484742899	0.474060948	0.550975714	0.421906258	0.434059004
AC106795.1	0.85041228	0.985999971	0.929330148	0.841208486	0.707596984	0.598801416	0.927452832	0.927452832	0.627491912	0.69638258	0.93286271	1	0.985052733	0.976611429	1	0.92022526	0.992866276	1	0.617408483	0.672319894	0.640856503	0.487506331	0.87614245	0.864193559
UBB	0.54730564	0.546095477	0.86711594	0.772158891	0.732396675	0.774929335	0.967897348	0.967897348	0.747250415	0.824253681	0.888458313	0.964528757	0.942159297	1	0.996815897	1	0.996924683	1	0.656015257	0.683471809	0.952531552	0.906952903	0.745806234	0.815386038
IRX2	0.785481238	0.836365754	0.497225411	0.478144463	0.596594736	0.524059312	1	1	0.614425709	0.67378381	0.881172749	0.908351767	0.95262152	0.959056505	1	0.990771514	0.9905794	0.952652963	0.85955899	0.934184941	0.606818206	0.57143302	0.992051904	1
TSEN34	0.828495678	0.812877259	0.836891237	0.894812294	0.800681253	0.691925021	0.877023446	0.877023446	0.907516422	0.933142251	0.904044271	0.897388593	1	0.931334593	1	0.975355886	0.825642845	1	0.780803717	0.872144497	0.645879526	0.667862468	0.830445369	0.866005369
CKS1B	0.755255618	0.738185679	0.920643859	0.858265769	0.620940727	0.664913413	0.98333519	0.98333519	0.599537556	0.630689145	0.967234303	0.936625171	0.987061838	1	1	0.975870582	0.969565848	1	0.292589962	0.291875066	0.490607497	0.492096947	0.426152413	0.465594175
MRFAP1	0.734692915	0.743203951	0.949430536	0.929744206	0.714339035	0.75231022	1	1	0.863408776	0.920210148	0.979532477	0.952534621	1	0.990124385	0.988852284	1	0.987346082	0.937893044	0.632695169	0.64133879	0.704762054	0.697553294	0.727562613	0.702586993
DCTPP1	0.519219646	0.5484567	0.853819618	0.852343966	0.446878988	0.448939327	0.921393933	0.921393933	0.848037111	0.908755952	0.974788647	0.973068666	0.943821159	1	1	0.992588876	0.978685868	1	0.378108078	0.428687332	0.511282927	0.549452945	0.460809193	0.472068527
H1FX	0.488317627	0.469444711	0.447495584	0.41532559	1	0.940809176	0.709304349	0.709304349	0.330307509	0.38385901	0.802345539	0.751962011	0.984628828	0.90750204	1	0.989406858	0.839968361	1	0.303527684	0.305042669	0.812001372	0.73101166	0.946558916	0.978889287
PPIA	0.715256161	0.719450682	0.877700308	0.88716316	0.76601144	0.86334212	0.704022908	0.704022908	0.934111806	0.891239018	0.927807278	0.922291308	0.971545261	1	0.983599291	1	0.733323615	1	0.648666367	0.662864447	0.782315243	0.760014903	0.801281398	0.807572751
PRIM1	0.666487126	0.68231975	0.515881161	0.570221769	0.342909192	0.37754613	0.507303504	0.507303504	0.511772219	0.491399479	0.73337574	1	0.938310296	0.885223075	0.972999569	1	1	0.734500843	0.246547178	0.227747153	0.358131056	0.291771799	0.278830375	0.252201279
LSM2	0.725920059	0.770724161	0.748395818	0.811411083	0.420281119	0.518361855	0.950714423	0.950714423	0.677983834	0.661094386	0.859630635	0.895274537	0.921926169	1	1	0.997077907	1	0.966666781	0.448487854	0.478309394	0.442837126	0.479966145	0.512483194	0.522456748
ARL2	0.67772764	0.673891388	0.92754529	0.832043776	0.766501157	0.738971949	0.58838653	0.58838653	0.822336344	0.923499064	0.88607158	0.916648408	1	0.979481122	0.931350656	1	0.729733115	1	0.621251844	0.641066415	0.662797029	0.689765976	0.983151059	0.974693873
AC087632.1	0.692424953	0.786227107	0.796783606	0.843414021	0.525003155	0.609095752	0.696071509	0.696071509	0.47351421	0.504563331	1	0.971205488	0.920361921	0.988053492	1	0.970805512	1	0.868478386	0.221516559	0.180531943	0.239637914	0.238491413	0.464182673	0.52127843
AC092718.4	0.562096221	0.547888677	0.913307397	0.88688982	0.517794378	0.414489747	0.748975937	0.748975937	0.678429573	0.643088201	0.888118619	1	0.865983853	0.935091614	0.899019406	1	1	0.847874591	0.236850092	0.330318936	0.428008285	0.368079469	0.331121119	0.383057534
AL662797.3	0.53993484	0.413719962	0.615138818	0.765284712	0.075076186	0.375774825	0.061635509	0.061635509	0.422543892	0.420394379	0.723152488	0.794659687	1	0.643803761	1	0.592722129	0.385820918	1	0.306640558	0.373121079	0.13694313	0.260497123	0.309319197	0.331398053
CFH	0.559956719	0.564520996	0.335494241	0.315859481	0.614628391	0.542343533	0.187602095	0.187602095	0.467356407	0.466731809	0.335603375	0.35936113	0.320162781	0.344542128	0.485135137	0.497067267	0.265601669	0.197889735	1	0.983630919	1	0.989417004	1	0.928186176
CFLAR	0.955460786	0.956623867	0.417558329	0.403448566	0.858198931	0.830621448	0.696178006	0.696178006	0.544293283	0.531226357	0.696868919	0.737514605	0.527581841	0.531999027	0.687863932	0.663385152	0.630274732	0.699404254	0.99606302	1	0.93590293	1	0.991256685	1
LAMP2	0.696786716	0.713612103	0.694316857	0.689115056	1	0.946156015	0.304443478	0.304443478	0.770637234	0.76841037	0.744817128	0.767286736	0.765795695	0.716117343	0.852210185	0.847926223	0.372449927	0.305773919	0.986245517	1	0.974549023	1	0.999925449	0.858310777
PLAUR	0.551595353	0.588604556	0.592184078	0.646630383	0.449888809	0.380148452	0.562359179	0.562359179	0.283086095	0.266062323	0.546370947	0.517443041	0.408846325	0.4102272	0.458062106	0.45300858	0.536234005	0.534018159	0.991073339	1	1	0.904947745	1	0.944697925
CALCOCO1	0.404676716	0.357564543	0.331281182	0.444496439	0.697805466	0.741672252	0.437055307	0.437055307	0.527239807	0.537234185	0.330213424	0.313111097	0.308926309	0.272372455	0.515286356	0.53157087	0.234869126	0.187436122	0.948647621	1	0.754270711	1	0.994769481	1
MAN2B2	0.648212373	0.608281058	0.693724766	0.697425164	0.952945569	0.971642294	0.579288732	0.579288732	0.825155584	0.788721471	0.671283027	0.642016845	0.581948047	0.631641679	0.917154648	0.904812524	0.324833378	0.310180794	0.963074458	1	1	0.990781677	1	0.936643237
GPRC5A	0.639102916	0.623246002	0.798645092	0.764905815	0.703277634	0.733121344	0.828942563	0.828942563	0.538959047	0.53516048	0.923253547	0.873454688	0.664329721	0.661810921	0.619357927	0.680848996	0.439833894	0.366035291	0.98990854	1	1	0.954658541	1	0.862603777
BIRC3	0.556808544	0.552433183	0.421804822	0.430427083	1	0.903889623	0.162374891	0.162374891	0.23532787	0.231984376	0.544662422	0.608291537	0.645919265	0.675637819	0.377166611	0.407076355	0.166902565	0.13775151	0.929092021	1	1	0.993928887	0.949000029	0.887915301
IFNGR1	0.852473026	0.793145591	0.470882816	0.450467938	0.789061424	0.766789224	0.232577079	0.232577079	0.486706096	0.457450017	0.579265509	0.584645661	0.756277095	0.704432936	0.433758592	0.431318643	0.377265299	0.377726012	0.989457075	1	1	0.984224911	1	0.992856247
MAP2K3	0.718559962	0.733724439	0.773172508	0.797046016	0.581999323	0.551752924	0.956171398	0.956171398	0.709219549	0.695006033	0.880059816	0.845180492	0.964947982	0.934761353	0.620237114	0.621090464	0.653509447	0.497468484	1	0.975060764	1	0.99937566	0.9099417	1
RNF19A	0.58483544	0.59332105	0.587355254	0.472691791	0.782220004	0.670759642	0.363518527	0.363518527	0.545765935	0.53959504	0.50891787	0.334319592	0.451174759	0.40295141	0.532046552	0.575388926	0.201618458	0.19384026	0.969667939	1	1	0.873005733	1	0.92583796
VCAN	0.731834867	0.638898487	0.130071834	0.097032071	0.562287056	0.472143352	0.464756422	0.464756422	0.924504695	0.799324869	0.074085101	0.198663589	0.089086036	0.01542563	0.690082879	0.603422995	0.099633635	0.063369468	1	0.99790418	1	0.99717098	1	0.847423751
CDH1	0.816068871	0.807745392	0.674755032	0.638714594	0.866846153	0.763463779	0.80297216	0.80297216	0.709768363	0.774229813	0.512766534	0.485493535	0.503694845	0.467983751	0.818135983	0.841438775	0.493513294	0.333921308	0.969034524	1	0.978690354	1	1	0.899080015
PRSS8	0.394164946	0.337948212	0.403222827	0.378592191	0.949190746	0.955833757	0.85934326	0.85934326	0.349428588	0.393326431	0.611742711	0.673869934	0.598714985	0.595194792	0.711369417	0.688167377	0.46099718	0.503807327	1	0.967180197	0.828715736	1	1	0.924750945
ATP9A	0.556996388	0.537195289	0.550635053	0.549181993	1	0.765043012	0.557364676	0.557364676	0.728258251	0.784143704	0.541700074	0.451613602	0.473903621	0.430097367	0.763673182	0.796793656	0.308719115	0.219448457	0.984689017	1	1	0.992782762	0.938736039	0.837972625
MTA3	0.760009953	0.856793887	0.718151658	0.606779948	0.952637034	0.763379991	0.655140238	0.655140238	0.765371538	0.792898685	0.541547688	0.510638537	0.648122566	0.632934182	0.830747073	0.87145119	0.948996293	0.645402895	0.946048436	1	1	0.931939019	1	0.788882634
SP100	0.835395424	0.810073908	0.343314648	0.329395024	1	0.842510645	0.498616251	0.498616251	0.340883507	0.378982852	0.79344788	0.771951391	0.757697193	0.695767692	0.309015991	0.29897449	0.323677311	0.243092599	1	0.971384672	0.995791052	1	0.882633087	0.902642425
KLF6	0.917515262	0.937502256	0.602667162	0.611649115	0.983628424	1	0.943469729	0.943469729	0.404658437	0.413358426	0.348642806	0.335634244	0.468555223	0.407376121	0.589864984	0.628974709	0.64711277	0.444764264	0.988024673	1	0.983743751	1	0.999921603	0.924474221
WIPI1	0.268188108	0.31481719	0.409538886	0.427329101	0.52187601	0.551881603	0.264807149	0.264807149	0.67107717	0.826512163	0.360126637	0.329088342	0.331420742	0.339812338	0.848857631	0.920526737	0.290312848	0.433877759	0.971562305	1	0.907397188	1	1	0.858104164
RPS6KA2	0.499311478	0.484025495	0.363972921	0.343112442	0.895323139	0.743636309	0.658699019	0.658699019	0.848942571	0.954981628	0.506297336	0.635307739	0.607585144	0.596181405	0.870711752	0.926299358	0.32152727	0.316451861	0.976678044	1	1	0.91344199	1	0.957238209
CLCN4	0.60631271	0.376726715	0.410882568	0.22233759	0.922289238	0.616334928	0.671346052	0.671346052	0.862673075	0.515604332	0.361512847	0.459182479	0.543999095	1	0.506955181	0.888644164	0.381228267	0.25052375	1	0.928287137	0.724813957	1	0.88617742	0.740944766
FOSL2	0.941920923	0.942566739	0.492136479	0.450990872	0.954175908	0.941986218	0.813605603	0.813605603	0.642982	0.649877701	0.577047373	0.652947024	0.626507564	0.590984429	0.831890837	0.810491022	0.474955696	0.383852	0.960366083	1	1	0.97336885	1	0.94949489
PLD1	0.61486674	0.688774093	0.36647888	0.408855358	0.659832513	0.857413656	0.761763741	0.761763741	0.462967511	0.581112846	0.40762247	0.362757857	0.31484047	0.329645275	0.817829373	0.580553303	0.370570719	0.376628176	1	0.896966325	1	0.76157238	0.88340271	1
ATP12A	0.45896352	0.446744241	0.292801901	0.316673513	0.732701267	0.704688395	1	1	0.848244967	0.887272456	0.470167736	0.49675518	0.16882612	0.172547641	0.408508391	0.385653055	0.380242859	0.269765536	0.99183645	0.97625706	1	0.929650811	1	0.904710511
ANKRD13A	0.536566417	0.558006244	0.465679411	0.427474764	1	0.919863688	0.617865492	0.617865492	0.603062665	0.524121879	0.800187943	0.847566141	0.731529663	0.668429721	0.445026158	0.531284338	0.354725676	0.273336146	0.926519711	1	1	0.990627347	0.940033408	0.913313058
MAP2	0.217266885	0.183613998	0.275152352	0.308922646	0.49602267	0.50064601	0.084339303	0.084339303	0.741928918	0.767308654	0.386809606	0.472518393	0.451090492	0.47736913	0.706055389	0.805750021	0.150418901	0.212060707	0.977664845	1	0.868993738	1	1	0.981592739
EDN1	0.665482417	0.670530067	0.378960747	0.374967686	0.941608292	0.906345442	0.73975869	0.73975869	0.271459172	0.277981528	0.554924061	0.537216	0.404589934	0.407353786	0.561037922	0.541716089	0.735815706	0.582762335	0.959748161	1	1	0.962167402	1	0.941195048
CIC	0.841845869	0.83391371	0.697880971	0.687895139	0.726771881	1	0.937970902	0.937970902	0.837545404	0.774321429	0.539584003	0.60533294	0.694476788	0.664629979	0.837353409	0.83313629	0.549878465	0.525363704	0.93987986	1	1	0.906970457	0.880356258	0.785076351
COBLL1	0.629347989	0.656343212	0.315658449	0.369511083	0.86535942	1	0.657190049	0.657190049	0.52754473	0.501179255	0.508501881	0.542946071	0.614875587	0.564147875	0.731910736	0.694401751	0.303555233	0.182420964	1	0.923059457	0.873421851	1	0.983677931	0.803418957
BCKDHB	0.872480941	0.882746486	0.450637793	0.555334237	0.70430822	0.595358081	0.446283391	0.446283391	0.581574014	0.676235855	0.413530172	0.468484753	0.454017617	0.442425075	0.650247815	0.574066451	0.560908817	0.374817253	0.937345606	1	1	0.770074803	1	0.979267241
GNAS	0.807113264	0.797218803	0.658324398	0.656007539	0.988707296	1	0.857006023	0.857006023	0.704909586	0.706414249	0.859863008	0.829359079	0.77484251	0.770214533	0.861780735	0.845655337	0.774633203	0.680413442	1	0.995397508	1	0.924773436	0.985942311	0.949620575
C20orf194	0.743392874	0.68023115	0.522335266	0.498344464	0.73950068	0.737016233	0.511204164	0.511204164	0.698750631	0.698044599	0.489091221	0.501039512	0.447074793	0.467937659	0.75405433	0.72208254	0.202527728	0.151169374	0.959186594	1	1	0.98213422	1	0.957366338
LZTS3	0.365115713	0.381301569	0.262085188	0.287060761	0.796882805	0.692832297	0.731427856	0.731427856	0.457161396	0.491698959	0.477763637	0.485477845	0.329354295	0.323097799	0.57051362	0.625554326	0.355941853	0.288849255	1	0.935288415	0.942993817	1	1	0.979278448
FXYD3	0.675102159	0.684728595	0.780368155	0.763605402	0.783217683	0.821925422	0.780475277	0.780475277	0.687675104	0.691301947	0.385653919	0.388259429	0.493509032	0.498654364	0.85948782	0.847091908	0.764061852	1	0.953428495	0.959348065	1	0.97653295	0.877755885	1
ICAM1	0.174001452	0.172180669	0.104264235	0.13454926	0.166580503	0.154406894	0.359299817	0.359299817	0.186205072	0.146642126	0.193921804	0.16187312	0.161633364	0.143634381	0.398079697	0.401833658	0.139734181	0.138972882	1	0.986224383	1	0.914256221	1	0.892278391
JAG1	1	0.971224121	0.797124327	0.782464318	0.588815392	0.60230963	0.412919731	0.412919731	0.503721383	0.539560398	0.514668389	0.516891084	0.582274815	0.605718885	0.559038404	0.582472618	0.228018833	0.234760367	0.974925506	0.986172325	1	0.983628089	1	0.838054273
RBBP8	0.856374304	0.961037462	0.534060724	0.529536551	0.718182257	0.709268262	0.363790358	0.363790358	0.765884399	0.696123174	0.71839181	0.748376176	0.831171803	0.787332963	0.710543074	0.744735043	0.568956996	0.569259304	1	0.883830475	0.929615414	1	0.979024816	1
KLHL4	0.118203255	0.045973129	0.067947407	0.048061735	0.051079865	0.048462458	0.317363051	0.317363051	0.606342632	0.674639558	0.002056864	0.010776932	0.002140506	0.001810789	0.092348748	0.073518451	0.013287039	0.042457294	1	0.393161251	1	0.838242404	0.892146347	1
MAGED2	0.598197117	0.50426419	0.733524717	0.737648983	0.747324334	0.659347729	0.892624873	0.892624873	0.753551763	0.740828678	0.60928564	0.625183758	0.693342806	0.531757659	0.852775246	0.911615582	0.485218896	0.433342927	1	0.957106442	1	0.960571593	0.859148277	1
RGCC	0.742154161	0.653407143	0.291318106	0.432513494	0.531144316	0.577179829	0.62313962	0.62313962	0.568985034	0.676482695	0.52869376	0.356226326	0.79657105	0.494445229	0.749364761	0.827946772	1	0.539073859	0.806787873	0.688875622	0.72528148	1	1	0.893667245
N4BP1	1	0.936421284	0.510869991	0.4424146	0.963032516	0.730800583	0.47334568	0.47334568	0.336852303	0.410788923	0.47415153	0.511919916	0.605529256	0.572120661	0.442383753	0.466484164	0.555207745	0.477515602	0.971185564	0.983002188	1	0.815541112	1	0.784341006
TJP1	0.956577009	0.907985099	0.820634818	0.838593871	0.816769082	0.724842853	0.643334807	0.643334807	0.787583386	0.847832984	0.871715356	0.824075623	0.871335645	0.80999514	0.742309228	0.774042942	0.373342157	0.2447323	1	0.957592141	1	0.980230348	1	0.832593577
MAN2B1	0.620130058	0.724547408	0.763542057	0.711464566	0.621594188	0.77747915	0.960865756	0.960865756	0.765466394	0.834093531	0.774211852	0.651928434	0.533584548	0.690804567	0.867651502	0.871433002	0.503507917	0.481644084	0.958627579	1	1	0.952552464	0.980499141	1
RABAC1	0.460300308	0.481213686	0.603604656	0.610486999	0.882234021	0.890879376	0.739722749	0.739722749	0.801978898	0.837065984	0.57876225	0.554519256	0.562598985	0.561603845	0.728809021	0.684880274	0.66071219	0.917638078	1	0.947490877	1	0.987432972	0.921100662	1
PON2	0.80788677	0.770385389	0.82681124	0.833976098	0.668407975	0.675674112	0.575414781	0.575414781	0.91857239	0.893928414	0.682217834	0.61986803	0.715243742	0.658368005	0.929977528	0.925052356	0.564012668	0.549582799	0.971177392	1	1	0.967197442	1	0.917363492
ZFAND5	0.861497582	0.857040637	0.619712036	0.628521652	0.865553442	0.809760898	0.648922483	0.648922483	0.613039778	0.607661767	0.666916465	0.687075088	0.717105202	0.730162215	0.732135792	0.706096207	0.775385615	0.639948514	0.929814861	1	1	0.961321719	0.978858333	1
PHYH	0.596566705	0.483098789	0.613819332	0.580520992	0.881092852	0.741892697	0.352816143	0.352816143	0.892557542	0.838425126	0.480492486	0.74025307	0.451960383	0.470514309	0.845245108	0.944168281	0.372607509	0.457287417	0.814371722	1	0.905648363	1	1	0.87948321
LIPA	0.587285599	0.571257878	0.755136674	0.800345048	0.826080087	0.743280833	0.454135018	0.454135018	0.932120671	0.911158192	0.72880662	0.738786878	0.815284696	0.909724254	0.823824669	0.846501288	0.471035657	0.366397622	1	0.992081795	1	0.975951114	1	0.999274499
RASD1	0.400436444	0.408703797	0.037619098	0.054173826	0.433103179	0.357839397	0.908466761	0.908466761	0.047473708	0.058352269	0.080490706	0.073670218	0.092675295	0.081426557	0.24831923	0.219539483	0.465427782	0.42564595	0.955199735	1	1	0.95590794	0.958551682	1
DUSP3	0.554399973	0.563120027	0.834812165	0.787008542	1	0.867717673	0.740391564	0.740391564	0.935585836	0.877479899	0.784072767	0.787268094	0.801408242	0.784437845	0.868176675	0.891598773	0.485677775	0.398216269	0.978942009	1	1	0.961020178	0.893817043	0.898122449
WSB1	0.713773288	0.739678256	0.453115081	0.573371433	0.695286958	0.592870606	0.633579639	0.633579639	0.680831885	0.616765883	0.367618984	0.40470247	0.37986101	0.383219223	0.634861406	0.665780196	0.361672966	0.203277933	0.959463931	1	0.884095274	1	1	0.895956478
AREG	0.635916812	0.642871528	0.910857781	0.925363077	0.852456955	0.82502439	0.143699522	0.143699522	0.532147516	0.521432318	0.510670584	0.525108827	0.531527382	0.517791431	0.29705214	0.295517523	0.183163123	0.20265384	0.992462494	1	1	0.992268521	1	0.973120725
TRIM2	0.652093767	0.657190868	0.175413521	0.175212881	0.558217802	0.525179619	0.623460886	0.623460886	0.576861822	0.638415303	0.165250348	0.202516123	0.245510819	0.198188522	0.521289404	0.526296461	0.170648286	0.156752544	0.977969106	1	1	0.957039807	1	0.789117013
RAPGEF2	0.802245577	0.810521141	0.636019997	0.636072173	0.813120285	0.748894193	0.570492842	0.570492842	0.515640842	0.567902078	0.606486986	0.59866261	0.480227374	0.589692666	0.601120072	0.617068173	0.325281515	0.194882271	0.956052216	1	0.863624388	1	0.926767242	1
SOX6	0.734498158	0.88140644	0.095441731	0.156844008	0.698299523	0.482784743	0.058265656	0.058265656	0.38632676	0.227962756	0.248102779	0.261653689	0.205285132	0.355859752	0.471855572	0.378153718	0.154458505	0.375771764	0.850453188	1	0.855553647	1	0.7103008	1
BTN3A3	0.384881994	0.388834213	0.144661586	0.12330197	0.635738806	0.585782099	0.84850958	0.84850958	0.1089705	0.172214496	0.335274009	0.160160465	0.378717062	0.378809478	0.308971173	0.325857708	0.413507357	0.306097695	1	0.756873791	1	0.908602658	0.859732595	1
GCNT2	0.503563845	0.583395017	0.412118264	0.329516943	0.634907371	0.515905729	0.734724887	0.734724887	0.519698449	0.595488641	0.513737144	0.522542812	0.431926116	0.523457639	0.514960161	0.573066429	0.45334136	0.345066044	1	0.907441194	1	0.895408012	0.985015349	1
NEDD9	0.598689351	0.575161373	0.054537591	0.048736801	0.190291239	0.161982035	0.898921668	0.898921668	0.205887737	0.169195514	0.042296154	0.045636178	0.0588821	0.05010906	0.409250447	0.393879941	0.346915592	0.273956249	0.98542273	1	0.965663122	1	0.984514553	1
TRIM38	0.613360973	0.642622126	0.360295211	0.397375796	0.955125571	0.835603492	0.935641045	0.935641045	0.447189614	0.437489614	0.691169686	0.699710204	0.699626146	0.568864771	0.542689627	0.541811538	0.542149465	0.469161626	1	0.970610109	0.982375694	1	1	0.944578943
FIG4	0.68657382	0.669826579	0.517948164	0.573935146	0.743348054	1	0.492029593	0.492029593	0.694678926	0.749544235	0.533884965	0.589627213	0.516518209	0.456961696	0.740396481	0.742968301	0.536838679	0.44074557	0.926434938	1	0.795664498	1	0.842017077	0.914776526
LOX	0.734142799	0.586192457	0.293768534	0.362433207	0.666309268	0.584811313	0.698977391	0.698977391	0.670260673	0.718697288	0.275461849	0.252200055	0.423118178	0.270423731	0.356460416	0.349980342	0.346223884	0.17571475	0.866957139	1	1	0.954123722	1	0.732245195
C5orf15	0.649975172	0.629538008	0.735168176	0.734859913	1	0.974711106	0.525063224	0.525063224	0.78602124	0.731888953	0.783699052	0.822019759	0.78034788	0.786593911	0.896168348	0.929530803	0.33366526	0.271468281	0.955448082	1	0.959263709	1	0.956169518	0.931523462
DBN1	0.270630778	0.259879832	0.789865519	0.757761474	0.792327252	0.803341623	0.328096098	0.328096098	0.808604794	0.831865213	0.678834543	0.727803569	0.673642829	0.570295417	0.627883171	0.667677158	0.289716222	0.372578706	0.969787206	1	1	0.907566008	1	0.958256345
C3orf52	0.937829801	0.983501539	0.727340008	0.670635755	0.508472911	0.442092969	0.400619121	0.400619121	0.582010748	0.52627187	0.507301032	0.543477373	0.486908615	0.482723432	0.838582436	0.86494974	0.464820261	0.431231898	1	0.976104559	0.946392971	1	0.963942195	1
CCL20	0.550321107	0.555148422	0.062443683	0.064653692	0.519258432	0.470499578	0.114137032	0.114137032	0.092843872	0.085091653	0.229604049	0.219298901	0.375358755	0.351756448	0.027497453	0.02876477	0.109524857	0.171550456	0.951565007	1	0.975079269	1	0.941337049	1
COQ10B	0.832220338	0.840698395	0.798547443	0.807493559	0.949851558	0.870811989	0.888740371	0.888740371	0.695505702	0.693509142	0.698278832	0.700955638	0.671741048	0.730649346	0.640174315	0.632733807	0.456141623	0.449954795	0.997379863	1	1	0.932897073	0.987940987	1
PARD3B	0.505977955	0.737465988	0.542748519	0.289820853	0.558876824	0.734707863	0.328348486	0.328348486	0.538304719	0.542289549	0.329234561	0.433881226	0.807785613	0.341469243	0.761562536	0.741282782	0.089567345	0.114500518	0.942603081	1	1	0.990972433	1	0.602654005
SCP2	0.694628717	0.746940533	0.763148386	0.724772707	0.933333423	0.887005229	0.327102269	0.327102269	0.829221846	0.854587704	0.754415416	0.733945806	0.801820297	0.66406373	0.884601823	0.927115685	0.578773049	0.55640377	1	0.963041948	1	0.916137783	1	0.977049809
ETV3	0.85574277	0.790881798	0.556184676	0.592195322	0.911987096	0.836555718	0.856869062	0.856869062	0.477005064	0.524931497	0.712792757	0.711153698	0.703805177	0.760481793	0.767757002	0.734440154	0.45705405	0.230292995	1	0.986079933	0.965238998	1	1	0.890130572