S100A11/ANXA2 belongs to a tumour suppressor/oncogene network deregulated early with steatosis and involved in inflammation and hepatocellular carcinoma development

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Table S1. Proteomic analysis of liver tissues from 4-months old control and LPTENKO mice.

Soluble Fraction								
Gene names	**LOG2FC CTL1**	**LOG2FC CTL2**	**LOG2FC CTL3**	**LOG2FC KO1**	**LOG2FC KO2**	**LOG2FC KO3**	**t-test**	**adj Pvalue**
Aass	0.081686519	-0.097912098	0.016225579	-1.135271836	-0.860535624	-1.263037541	0.0011157	1.206072068
Acsm5	-0.125220746	0.071090866	0.054129881	-0.780692107	-0.882155692	-1.158378647	0.00189031	1.021713016
Gstm2	-0.12707966	0.572554941	-0.445475281	1.952813994	1.856518122	1.561376671	0.00517664	1.865316016
Gstm1	-0.029147714	0.298593425	-0.26944571	0.983159098	0.872028945	0.786125509	0.00721356	1.949464926
Fasn	0.08403202	-0.214149498	0.130117478	1.052480559	0.779734519	1.229308218	0.00383637	0.829422353
Upb1	-0.112438784	-0.137014769	0.249453553	-1.297732445	-1.181999331	-1.495303666	0.00102373	0.184442034
Selenbp2	0.266508271	0.084791964	-0.351300235	-2.040647809	-2.608780781	-2.039865739	0.00107121	0.165425127
Thrsp	-0.15001075	0.177999342	-0.027988592	1.54283307	1.603048661	0.927443822	0.00453549	0.612858263
Hyi	0.142635733	-0.183013091	0.040377359	1.325929636	1.119934412	1.181313897	0.00044587	0.053553518
Eci1	-0.119041811	-0.014846366	0.133888177	-0.599970385	-0.555547972	-1.191875541	0.02292305	2.477981171
Aldh1a7	-0.095682449	-0.017781922	0.113464372	0.653424862	0.931724091	1.110750381	0.00356922	0.350756574
Pebp1	-0.06292058	0.376991734	-0.314071154	1.225832242	0.856975185	0.973503805	0.01132979	1.020624864
Plin2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ech1	-0.078224359	0.262184541	-0.183960182	-1.153349232	-0.69099171	-0.929852871	0.00817258	0.631039776
Gpd1	0.095148469	-0.07637607	-0.0187724	0.586222489	0.388931271	0.676560856	0.00507253	0.365560329
Adhfe1	-0.203685954	0.105800035	0.097885919	-1.725708421	-2.105101586	-1.852370897	0.00023253	0.015710124
Hal	-0.079128676	-0.121305179	0.200433855	-0.947374959	-0.296358184	-1.103189637	0.04278134	2.720389684
Dhrs1	-0.374723461	0.200881883	0.173841579	2.732725217	2.213360853	3.249365208	0.00150167	0.090183466
Acadvl	0.19201011	0.073118951	-0.265129061	-1.272203292	-1.128585526	-1.03029561	0.00175052	0.099595562
Cps1	-0.296031431	0.352550271	-0.056518839	-1.291806166	-0.858535493	-1.278269531	0.0084856	0.458646829
Mccc2	-0.17175603	0.290541884	-0.118785854	-1.472093466	-2.124942111	-1.947436728	0.00161773	0.083274417
Aldh1l1	-0.057531317	0.092211522	-0.034680205	-0.386442413	-0.418386659	-0.728183694	0.01252927	0.615642777
Hsd17b4	0.21067669	-0.224870088	0.014193399	0.690587925	0.9241787	0.627970917	0.00847743	0.398438988
Oat	-0.129425976	0.476300887	-0.346874911	-1.165166	-1.654257754	-3.23500621	0.03971156	1.788674736
Suox	-0.094234118	0.054718159	0.039515959	-0.664305629	-0.595438225	-0.753119559	0.0005194	0.022459022
Keg1	-0.017606832	-0.281514764	0.299121596	-1.02481241	-1.064514186	-0.735281244	0.00883109	0.367169687
Dmgdh	-0.069389388	0.047615126	0.021774263	-0.616415736	-0.644981097	-0.681863312	8.70E-05	0.003483167
Fmo5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pgd	-0.041772902	0.214283473	-0.17251057	0.780204764	0.65587459	1.105728044	0.00851955	0.317573666
Decr2	-0.284042627	0.275226632	0.008815994	0.37094675	0.809482318	1.046002017	0.04382664	1.579219982
Hmgcs2	0.120393823	-0.08577386	-0.034619963	-0.447430715	-0.492483572	-0.657846232	0.00393163	0.137099659
Mettl7b	-1.257674066	0.737725358	0.519948708	1.487595793	2.0054502	2.394059332	0.04558231	1.539827436
Acaca	0.69174984	-1.112091671	0.420341832	2.293704013	1.967696184	3.217811831	0.0209458	0.686133569
Pcca	0.110383498	0.121633176	-0.232016675	-0.725583114	-0.641053308	-0.695079755	0.00441724	0.140442166
Mccc1	0.259447914	-0.669431553	0.409983639	-2.085010473	-1.064762558	-2.21748095	0.02269451	0.700936075
Ces2a	-0.052772803	0.145223105	-0.092450301	-1.194140376	-1.165224304	-1.001107241	0.00029552	0.008873887
Gm4952	0.207949017	-0.056701585	-0.151247432	-0.894185523	-0.723509024	-1.242710243	0.00696358	0.20344943
Srm	0.067771485	0.181553592	-0.249325077	-0.91028052	-1.593368812	-0.617593848	0.0303057	0.862117359
Ces3b	-0.01908459	0.169412477	-0.150327886	-2.035430585	-1.851968595	-1.059786129	0.00624749	0.173167627
Pitpnb	0.255832021	-0.109231275	-0.146600746	0.884961351	0.97374999	1.069921178	0.00216738	0.058573356
Lgals1	0.542006427	0.017501859	-0.559508285	3.255566896	2.819064055	1.92383489	0.00616353	0.162506838
Adh4	-0.05003694	0.011657759	0.038379181	-0.428943443	-1.230935612	-1.249723764	0.02340566	0.602417062
D2hgdh	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Csad	0.032439032	0.598453121	-0.630892153	0.792933316	0.845561572	1.204720337	0.06628954	1.628613475
Dld	-0.026043622	0.035080755	-0.009037133	-0.660514755	-0.189315801	-0.990077754	0.05810381	1.395782569
Cyb5r3	-0.094726138	0.01675697	0.077969168	1.360474498	1.130012583	2.104268078	0.00681644	0.160186267
Haao	-0.018691989	-0.017969601	0.036661589	-0.388995568	-0.352505274	-0.456738293	0.00036009	0.008282077
Aacs	0.143815986	-0.246176965	0.102360979	0.987136128	1.232242259	0.889952647	0.00294083	0.066229851
Cpq	0.171736479	0.18677116	-0.358507639	-1.112590411	-1.394325112	-1.16579492	0.00354481	0.078202849
Akr1d1	-0.045388319	0.043413877	0.001974442	-0.794213398	-0.231186312	-0.902909506	0.03749236	0.810584914
Pcyt2	0.489113639	-0.124443375	-0.364670264	0.635960263	0.72637907	0.774667756	0.05048003	1.069978764
Ugt1a9;Ugt1a5;Ugt1a8;Ugt1a7c;Ugt1a6;Ugt1a6b;Ugt1a1;Ugt1a6	-0.529524255	0.334103803	0.195420452	1.271750906	0.818396502	1.821710621	0.02984872	0.620508887
Ces2c	0.010097267	0.210166005	-0.220263272	-1.765858478	-1.340249585	-1.390608133	0.00121049	0.024689431
Acsf2	-0.175074289	0.036722401	0.138351888	-0.611654741	-0.62077916	-0.658965309	0.00251649	0.050376383
Dnaja1	-0.608240937	0.787004969	-0.178764032	1.032963823	1.004729533	1.618578889	0.05650858	1.110650355
Mut	0.034408848	0.151126484	-0.185535332	-0.760995763	-0.924577252	-0.650130481	0.00357383	0.068987617
Aldh3a2	0.262022052	-0.370854023	0.108831972	3.006630749	1.894575607	3.744130472	0.00721795	0.136887852
2810007J24Rik	0.222305658	-0.207077908	-0.015227749	-0.681044938	-0.46821896	-0.865282585	0.01651211	0.307751575
Cyb5;Cyb5a	0.43563254	-0.830163373	0.394530833	2.64738102	2.21854455	2.370194688	0.00512316	0.093866698
Ces3a	0.111734198	0.089918003	-0.201652202	-1.244444864	-1.500057708	-0.848367157	0.00507317	0.091401542
Hsd17b13	-0.639346412	-0.072044531	0.711390942	2.411804745	1.600234491	1.903771752	0.01255189	0.222435977
Cth	-0.378709166	0.28997083	0.088738336	-1.123378984	-0.588827073	-0.768673936	0.03074195	0.536000783
Pabpc1;Pabpc6	0.305302449	-0.048446528	-0.256855922	-0.535665292	-0.567111054	-0.477721166	0.03383385	0.580545907
Shmt2	0.197156902	-0.084344867	-0.112812035	-0.38602153	-0.215220301	-0.940446214	0.09916255	1.674917384
Ivd	-0.034589977	0.016298984	0.018290993	-0.686231469	-0.155800515	-1.434973116	0.11052698	1.838148625
Gpx1	-0.010690815	-0.027804707	0.038495522	-0.269314615	-0.439450628	-0.805486814	0.03398822	0.556685786
Ak2	0.070009083	0.013904829	-0.083913912	-0.460025779	-0.430436813	-0.737330772	0.00726602	0.117232369
Nudc	-0.183357219	-0.032194193	0.215551412	0.620787599	1.11325793	0.73055224	0.01223417	0.194487303
Mgst1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Eci2	0.364311698	-0.219081267	-0.145230431	-0.497448387	-0.533091861	-1.164030189	0.0614457	0.948897127
Acaa2	-0.177245968	0.445770634	-0.268524666	-0.628323109	-0.697508909	-0.868502356	0.03602065	0.548427127
Aldob	0.14930603	-0.401712591	0.252406561	0.668270182	0.759589838	0.350302407	0.06740889	1.012069531
Lrpprc	-0.065899257	0.305884699	-0.239985442	-1.377569651	-0.901624237	-0.815172263	0.01225479	0.181471539
Uso1	0.470329102	-0.775552593	0.305223491	1.759837586	2.042689834	1.171921058	0.02384135	0.348277067
Acsm1	-0.102141044	0.276751635	-0.174610591	-0.942645565	-1.035537941	-0.755516262	0.0049542	0.071406534
Rdh7	-0.309024753	0.05649426	0.252530494	1.093434156	1.260108071	2.143370242	0.01476722	0.210044222
Hspa9	0.00699463	0.404989579	-0.411984208	-0.803309028	-0.489750682	-0.928073782	0.05152422	0.723346501
Gstt2	-0.1411304	0.059852043	0.081278357	-0.811911803	-0.690279357	-1.254071857	0.0077255	0.107067448
Abat	-0.008063364	0.005807126	0.002256238	-1.076936478	-0.905294355	-0.86137834	0.00013577	0.00185774
Pnp	0.021148103	0.125041328	-0.146189431	-0.713145068	-1.181200863	-0.858802802	0.00450091	0.060818559
H6pd	0.219068387	0.099248501	-0.318316887	-1.228574827	-1.499328606	-0.468037612	0.03794584	0.506413027
Hspd1	-0.305113216	0.216108464	0.089004752	-0.515311778	-0.648229168	-0.661466422	0.02054329	0.270820655
Pccb	0.133442088	0.045333287	-0.178775375	-0.82280502	-1.296459959	-0.691656185	0.01040554	0.135522687
Pah	-0.339513792	0.297924238	0.041589554	-0.426414344	-0.611923297	-0.730976337	0.04533979	0.583479883
Lhpp	-0.015735331	0.179424406	-0.163689075	-1.207577496	-1.265621396	-1.556422014	0.00078965	0.010042456
Gcdh	-0.103165222	0.230204792	-0.12703957	-0.701091256	-0.547316317	-0.777343339	0.00722623	0.090831982
Cpt2	-0.049895369	0.118905123	-0.069009754	-0.884168281	-0.735427655	-0.561540515	0.00278183	0.034565027
Sephs2	-0.286437113	0.187354479	0.099082634	-0.966632924	-1.021884155	-0.458742811	0.02414119	0.296552561
Apoe	0.266060435	-0.425709854	0.159649419	1.529388972	1.899180955	1.076946506	0.00941567	0.114363321
Cmah	0.162189036	0.205093155	-0.367282191	-1.529799814	-1.218836613	-0.803028588	0.01333161	0.160127433
Aadat	-0.05355649	0.153307442	-0.099750952	-1.595003247	-1.300023008	-0.868223014	0.00506689	0.060190224
Acadsb	-0.286751887	0.391653833	-0.104901947	-1.097952909	-1.225765113	-0.885497961	0.00904294	0.106254508
Khk	0.573182734	-0.71392223	0.140739495	1.243522183	1.6441387	0.755479528	0.05661694	0.658095784
Apoa1bp	0.159461409	0.208613693	-0.368075102	-0.768062126	-0.486177868	-0.727124568	0.0319683	0.367635478
Dhrs4	0.099655356	-0.153122266	0.05346691	0.537589683	0.580104264	0.203758191	0.03624744	0.412457708
Agxt	0.021715732	0.037168803	-0.058884536	-1.329473621	-1.124129328	-0.654098471	0.00685884	0.077233346
Amacr	0.218079352	0.016905155	-0.234984507	-0.670646644	-1.027155042	-0.879274246	0.00676538	0.075395637
Sult1a1	-0.156371472	0.056676596	0.099694876	-0.616364684	-0.781512371	-0.70358434	0.00162524	0.01792741
Acaa1b	0.285272731	-0.490810276	0.205537545	0.611884394	0.534202067	0.664342142	0.07275842	0.794463117
Pcx;Pc	-0.03245615	0.08093567	-0.04847952	-0.216502594	-0.200376995	-0.417796509	0.02635227	0.284867993
Hsp90b1	-0.028007937	0.481032784	-0.453024847	-0.718761031	-0.796996341	-0.672751281	0.05535568	0.592470141
Endog	-0.006148744	0.438752385	-0.432603642	-1.928487949	-2.091189917	-0.428505454	0.06463145	0.684966653
Etfa	-0.119741658	0.254655324	-0.134913666	-0.627981538	-0.786945897	-0.830475402	0.00612848	0.064319331
Aldh4a1	-0.132189739	-0.062879146	0.195068884	-0.672068389	-0.471561717	-0.894977868	0.01255386	0.130487724
Gldc	-0.335824693	0.237721177	0.098103516	-1.118589323	-0.78976739	-0.714195457	0.01472583	0.151605946
Cyp2e1	-0.11866509	0.449759916	-0.331094827	0.888411141	0.857402201	0.480005291	0.05015327	0.511468685
Glyat	-0.020098915	0.120509649	-0.100410734	-0.457949574	-0.543210542	-0.559444654	0.0019289	0.0194873
Hibadh	-0.095936951	0.353326614	-0.257389663	-0.890164041	-0.808749437	-0.622399733	0.01776178	0.177782248
Slc25a5;Slc25a4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Echdc2	-0.297512056	-0.065132285	0.362644341	-1.02543507	-1.489534696	-1.144480448	0.00688285	0.067639661
Gphn	0.094439658	0.204548145	-0.298987804	0.665244706	0.497897464	0.831187951	0.02118587	0.20632362
Hpx	0.327224782	0.024374974	-0.351599756	0.612189513	0.280771203	0.673736201	0.08676987	0.837484172
Ddx39b;Ddx39a	0.082175633	0.108948505	-0.191124139	-1.049484261	-1.336885949	-0.705975379	0.0074747	0.071505787
Cryz	-0.005230379	0.022109625	-0.016879246	0.609111101	0.232874309	0.466711451	0.01673872	0.158724138
Fah	-0.141921904	0.135885417	0.006036487	-0.265911139	-0.604757024	-0.532917209	0.02314025	0.217518389
Aldh6a1	0.03770903	-0.061126932	0.023417902	-0.230676676	-0.172040628	-0.956055503	0.14914962	1.38992017
Gulo	0.426917906	-2.333193176	1.90627527	2.708932338	2.653889216	1.874836026	0.13055367	1.206226667

Prps1;Prps1l3;Prps2	-0.326154922	0.086860158	0.239294764	-1.3950836	-1.675808101	-0.23176745	0.08057282	0.73812897
Sqrdl	0.269715109	0.138244345	-0.407959454	-1.179340877	-1.155660481	-0.770101122	0.01366198	0.124105909
Sardh	0.374100935	-0.042972105	-0.33112883	-0.668293296	-0.109814516	-1.412719168	0.16417523	1.478945193
Got1	-0.507583878	0.307852152	0.199731726	-1.180974886	-0.578409209	-0.454217641	0.09594578	0.85716853
Pgp	0.09487152	-0.45555852	0.360687	0.748403584	1.128389249	0.488054473	0.06042061	0.535366217
Sept9	0.314423482	-0.407659529	0.093236046	1.396256966	1.494424351	0.308466595	0.07073273	0.621642899
Acox2	0.052926737	0.077246479	-0.130173215	-0.649406751	-0.742490818	-0.305744496	0.0187516	0.163471642
Eml2	-0.110278999	-0.037109336	0.147388335	0.590750284	1.08895904	0.702365798	0.00937694	0.081091812
Fkbp2	0.062813687	-0.050106627	-0.01270706	-0.481256282	-0.477967554	-0.87511246	0.01084421	0.093036392
Ccbl1	0.150743395	-0.205324266	0.054580872	-0.286163871	-0.343598768	-1.212424632	0.12562785	1.069320539
Mup3;Mup21	0.159740876	0.635819553	-0.795560429	-0.983703522	-1.426483812	#DIV/0!	#DIV/0!	#DIV/0!
Fabp2	0.538264525	-0.282564475	-0.25570005	1.415080167	1.274643517	0.648759404	0.0358461	0.300384718
Akr1c12	-0.172111096	0.173106518	-0.000995422	-0.646795292	-1.202399886	-0.437152374	0.0376829	0.313347821
Anxa5	2.567316654	-0.568086844	-1.999229811	1.614299771	3.432495268	3.830551704	0.12182078	1.00525392
Gcat	-0.260595478	0.324908558	-0.06431308	-1.827458583	-1.423055464	-0.841865521	0.01501555	0.122968266
Erp44	0.080523627	-0.08170297	0.001179343	-1.710670645	-1.50014822	-1.517401574	4.35E-05	0.000353399
Gstm3	-0.496550128	0.285478978	0.21107115	#DIV/0!	-1.070678038	-1.117879031	#DIV/0!	#DIV/0!
Apoa4	0.491329306	-0.305878589	-0.185450718	1.637923449	0.990246904	2.227484215	0.02045861	0.163820457
Txn2	-0.155247104	0.985430221	-0.830183118	-1.186408157	-1.898754908	#DIV/0!	#DIV/0!	#DIV/0!
P4hb	-0.064477628	0.173975036	-0.109497408	-0.212620149	-0.346488747	-0.445770626	0.03914907	0.30890619
Hsd17b10	-0.322602489	0.375155335	-0.052552846	-0.694268831	-0.805239069	-0.480471254	0.04232907	0.331577712
Aldh1a1	-0.079728539	0.107847289	-0.02811875	0.684985944	0.273938077	0.245195648	0.05824389	0.452961497
Ugdh	-0.324426512	0.36671193	-0.042285418	0.497135092	0.299298693	0.795815799	0.09825223	0.758647561
Pura	0.31401032	0.74774748	-1.0617578	#DIV/0!	-1.041762084	-1.26226482	#DIV/0!	#DIV/0!
Hnmt	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acat1	-0.165214314	0.304390338	-0.139176024	-0.800715447	-0.522894258	-0.34513003	0.05116283	0.386762398
Aldh2	-0.185975692	0.248483252	-0.06250756	-0.324759196	-0.263527081	-0.699247965	0.08424614	0.632431066
Akr1c14	-0.095066898	0.12997677	-0.034909873	-0.298572425	-0.13539783	-0.990767022	0.15420668	1.149637404
Eef1a1	0.157108121	-0.103155447	-0.053952674	0.463093712	0.49062214	0.231506816	0.02608794	0.193157954
Ak3	-0.085069593	-0.018763589	0.103833182	-0.414377773	-0.068579748	-0.864954767	0.13099605	0.963311102
Ephx2	-0.014422057	-0.003916022	0.018338079	-0.554772596	-0.632088554	-0.271939214	0.01146554	0.083744937
Gpx4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mtap	-0.197110358	0.205777614	-0.008667256	-0.979827007	-1.089454303	-0.532380213	0.01366431	0.098474103
Zadh2	-0.095035585	-0.381794116	0.476829701	-0.995128428	-1.102378962	-1.786998898	0.02159381	0.154588767
Suclg2	-0.115220093	0.069368125	0.045851969	-0.370276114	-0.407459251	-0.513795487	0.00397421	0.028263949
Pipox	0.044374992	0.058666867	-0.103041859	-0.33398691	-0.468998471	-0.312025044	0.00645061	0.045575863
Adh5	0.025167198	-0.013843146	-0.011324052	-0.349816533	-0.678752655	-0.669163552	0.00651318	0.045719139
Nit2	-0.103780051	0.053030306	0.050749745	-0.217996127	-0.711854167	-0.496321691	0.03532126	0.246337317
C1qbp	-0.276251683	0.948836191	-0.672584507	-1.092620583	-2.238260231	-3.154612494	0.04855794	0.33648159
Sdha	0.459380957	0.026303562	-0.48568452	-0.861546815	-0.737988668	-0.45362821	0.08370295	0.576324138
Dusp3	-0.298066841	-0.069052214	0.367119055	0.930683341	0.093886256	0.896509801	0.12927061	0.884440088
Iars	-0.436914597	0.762295163	-0.325380566	-0.87678831	-1.667605733	-0.457951349	0.12747891	0.866696225
Nudt19	-0.1496683	0.365523762	-0.215855462	-0.792048259	-0.658336612	-0.334172576	0.05989241	0.404648095
Eif4a2	0.265085936	-0.15810105	-0.106984886	1.284467073	1.206306579	0.282274951	0.05678107	0.381244349
Pdia3	0.122634903	0.351745286	-0.474380189	-0.584268551	-0.405206709	-0.674121353	0.09861557	0.658045895
Hdhd3	-0.180334511	-0.159017801	0.339352312	-0.884252006	-0.548459743	-0.316144024	0.06946983	0.460717107
Pcbd1	0.724851563	-0.541288684	-0.183562879	1.244912524	1.252759464	0.727409006	0.06065958	0.39983543
Gsta1	-0.058896724	-1.054680413	1.113577137	1.567078656	2.774604685	0.930264248	0.10099805	0.661690239
Fahd1	-0.015533189	0.250942339	-0.235409151	-0.888496607	-0.887438852	-0.288004509	0.04811405	0.313321039
Cyp2f2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Selenbp1	0.064993922	0.030651621	-0.095645543	-0.58847722	-0.973040208	-0.239157408	0.05086085	0.327265358
Mif	0.048716526	-0.008488883	-0.040227644	-0.592486318	-0.661571593	-0.59601236	5.68E-05	0.000363107
Ephx1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Papss2	-0.219872473	0.133033076	0.086839398	-0.320245166	-0.481033715	-0.713118386	0.03367384	0.212873821
Ces2g	0.126743288	-0.043437335	-0.083305953	-0.976599304	-0.789308195	-1.184740553	0.00168964	0.010619211
Msra	0.416946223	-0.59723559	0.180289367	0.837159178	1.054607314	0.272272102	0.13423932	0.83880176
Tubb5	-0.262736742	0.454549022	-0.19181228	-1.057934885	-1.092639618	-0.414505461	0.05439912	0.337962377
Ahsg	0.214071573	-0.168791262	-0.045280311	-0.346642213	-1.611331469	-1.703443353	0.05409488	0.334151806
Ttc38	-0.344827635	0.35124718	-0.006419545	-1.152392475	-0.869153603	-0.253389912	0.08497048	0.521892535
Ctsh	-0.110180908	0.503191039	-0.39301013	-1.161252091	-1.28270919	-0.518238416	0.04985841	0.30450248
Clic1	0.080232738	-0.401373757	0.32114102	0.46484303	0.916772294	0.819755781	0.04407224	0.267652206
Map2k2	-0.326784937	0.112557091	0.214227846	1.121178782	1.315836847	-0.059608101	0.16050868	0.969328976
Atp5b	0.103606909	0.223235689	-0.326842598	-0.388325594	-0.708859175	-0.629925928	0.04053604	0.24344144
Amdhd1	-0.022264447	-0.236142699	0.258407146	-0.379999204	-0.117375141	-1.008607236	0.17035201	1.017406222
Hint2	-0.258879274	0.554998993	-0.296119719	-0.925020527	-0.993372654	-0.597565318	0.05062428	0.300685958
Cstb	0.156824101	-0.256769494	0.099945392	0.535391156	0.879450358	0.257438613	0.06568901	0.388031779
Acsm3	-0.049338375	0.140975047	-0.091636672	-1.325544942	-1.215120454	-0.663414909	0.0079111	0.046477735
Gstp1	-0.049135577	-0.111695669	0.160831246	-0.161229423	-0.213544827	-0.927474787	0.17102126	0.99931881
Gamt	-0.133186427	0.237485584	-0.104299157	-0.432646296	-0.575113071	-0.653245849	0.01499475	0.087146922
Capns1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Hp	0.869678261	-0.102165097	-0.767513163	2.283031528	0.879907705	2.290517916	0.05286256	0.303959705
Glod4	0.193676748	0.20979176	-0.403468508	-0.482324421	-0.678098827	-0.545572719	0.0535594	0.306337087
Acacb	-0.420654684	-0.138175	0.558829684	1.422791922	1.104427547	2.99150902	0.04772652	0.271538776
Isoc2a	-0.02290521	0.103590179	-0.080684969	-0.766769251	-1.182230129	-0.725145228	0.00461171	0.026100803
Ttc36	-0.258647748	0.426704646	-0.168056898	-0.229589021	-0.387012597	-1.207863033	0.17717452	0.997529471
Prune	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cbr1	0.146856031	-0.650465584	0.503609554	0.874203713	0.840324527	0.464392108	0.11787045	0.656793584
Nif3l1	-0.318118884	0.467965403	-0.149846519	-1.890820525	-1.153518682	-0.16482228	0.12577699	0.697256001
Aldh7a1	-0.175065096	0.083384149	0.091680946	-0.15403134	-0.221777161	-0.362368195	0.0828192	0.456773235
Gls2	-1.093270041	0.53412477	0.559145271	-1.428622281	-0.943146662	-0.554608186	0.1806488	0.991275917
Gstt1	0.299752986	-0.855515223	0.555762237	1.461372123	1.684014907	0.159561807	0.16220823	0.885591421
Pck1	-0.296107656	0.224594189	0.071513466	-0.780057701	-1.058867992	-0.080328209	0.12417569	0.674542317
Ccbl2	-0.306651466	-0.088132723	0.394784189	-0.5270213	-0.143208561	-1.119484943	0.16492675	0.89142909
Blmh	0.179808375	0.247115615	-0.42692399	-0.713298458	-1.327626374	-0.40550382	0.07767494	0.417744345
L3hypdh	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mug1	0.236732404	0.1579433	-0.394675705	-0.726134056	-0.953000145	-0.123466343	0.13125804	0.698965212
Psmd1	0.443383728	-0.571098659	0.127714931	0.819956658	0.316731215	0.758386775	0.13591262	0.720203642
Ubxn1	-0.276726224	-0.014322052	0.291048276	-0.906089439	-1.776481528	-0.515891925	0.05887404	0.310452879
Ube2n	0.395282885	-0.804159605	0.40887672	0.884485229	1.17947346	0.324981653	0.16810812	0.882159579
Alad	-0.192606091	-0.128017626	0.320623717	-0.587623822	-0.671827349	-0.174474186	0.09856259	0.51471572
Sar1b	-0.32615372	0.179248765	0.146904955	0.708925037	0.426232118	0.602651519	0.0339895	0.176647334
Txnrd2	-0.408915032	0.434932397	-0.026017365	-0.866455119	-0.511246547	-0.350820556	0.11567773	0.598314011
Aox3	0.288301045	-0.150020468	-0.138280578	-0.695897275	-0.919846596	-0.581306433	0.0139012	0.071558069
Hoga1	-0.175640907	0.358973126	-0.183332219	-0.755737652	-0.475492295	-0.398928195	0.06061893	0.31056427
Ogdh	-0.097342413	0.563767493	-0.46642508	-1.195246443	-1.562838552	-0.242488755	0.11372735	0.579902216
Hadha	0.223217738	0.18821067	-0.411428408	-0.861789052	-1.078958218	-0.387383649	0.05547158	0.281524779
Arg1	-0.178478936	0.238400047	-0.059921112	-0.414639389	-0.706142552	-0.342504345	0.04286638	0.216535287
Cat	0.157020545	-0.067405362	-0.089615184	-0.377863617	0.015536751	-0.655486222	0.18148936	0.912511623
Pbld2	-0.110210989	0.187742613	-0.077531624	-0.477452522	-0.622928475	-0.448250181	0.00898235	0.04495334
Me1	-0.005858433	0.02364688	-0.017788447	0.754565559	0.322570715	1.5548891	0.07206549	0.358999027
Galt	0.054335918	-0.144840208	0.09050429	-1.104481154	-0.685290636	-0.740676837	0.00497318	0.024660607
Ehhadh	0.248779214	-0.255927946	0.007148732	-0.611387104	-0.409172307	-0.399695144	0.04257349	0.21014585
Taco1	-0.572581877	0.094503544	0.478078333	-1.024070225	-1.311793454	-0.222039576	0.12963854	0.63699663
Cpox	0.137366182	-0.120577558	-0.016788624	-0.458467799	-0.557717774	-0.203841505	0.03468237	0.169645449
Fh	-0.408802275	0.450123238	-0.041320963	-0.921926976	-0.854380511	-0.332450347	0.08652476	0.421321004
Pklr	0.152642903	0.207463951	-0.360106854	0.359504236	0.302502083	1.388155523	0.15978486	0.774562475
Dlst	0.013502565	0.45074071	-0.464243275	-0.499273531	-0.632414832	-0.595254858	0.09748494	0.470451889
Tf;Gm20425	0.339784422	-0.021231722	-0.3185527	0.64512923	0.591268166	0.115199838	0.15094254	0.72519505
Atp5d	0.653233722	-0.894865634	0.241631913	1.651125794	1.741650762	0.465232255	0.10639968	0.508929418
Clpx	-0.324068645	0.223690955	0.100377689	-0.602545516	-0.456070656	-0.502568686	0.03857046	0.183676923
Hadhb	0.195929984	-0.014232822	-0.181697162	-1.211592238	-1.056816354	-0.266645086	0.05379262	0.255043083
Stat1	1.52815935	-2.144653548	0.616494199	3.408758402	2.378286309	1.870134035	0.09920959	0.468321266
Sds	-0.087146977	0.067802505	0.019344472	-1.366573704	-0.649973284	-0.271923945	0.07828966	0.367961377
Prdx3	-0.150216933	0.226640306	-0.076423373	-0.726047639	-0.433906338	-0.200597941	0.07623002	0.356730071
Gk;Gyk	0.191870804	-0.149463279	-0.042407525	0.397206331	0.36215769	0.166584675	0.06714296	0.312851473
Bdh1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ganab	0.280339752	0.22993894	-0.510278692	-0.970359227	-1.349244841	-0.347984532	0.0836641	0.386499527
Sult1d1	-0.373456795	-0.473167843	0.846624638	-0.723295816	-1.51584277	-2.057191087	0.06728231	0.309498606
Rgn	-1.800855237	0.872051017	0.928804219	1.426664984	1.425267934	0.450605429	0.31431384	1.439717224
Otc	-0.011172721	-0.058358412	0.069531133	-0.583546393	0.077306715	-1.160870291	0.1972018	0.899473207
Lonp1	-0.126639658	0.145740356	-0.019100698	-0.957966428	-0.890167557	-0.403961829	0.01727829	0.078478276
Ppib	-0.682895835	0.339438057	0.343457778	0.636954548	0.634099713	0.690061229	0.12848135	0.581122768
Prdx5	0.088528853	0.130534245	-0.219063099	-0.500396925	-0.540265485	-0.246252144	0.04045382	0.182210749

Tubb2a	-0.25029876	0.220380218	0.029918542	0.534598719	0.123996029	0.90945233	0.1196635	0.536747904
Idi1	0.159736021	0.408106844	-0.567842865	-1.506263695	-1.762505428	0.035908424	0.16410563	0.733050362
Gchfr	-0.47383182	0.316949254	0.156882566	-0.617052146	-0.59093071	-0.39259293	0.10125116	0.450421807
Cald1	0.419341549	-0.369591006	-0.049750543	0.946368	1.340644431	0.928741844	0.01566618	0.069406331
Lap3	-0.134244935	0.207219177	-0.072974241	-0.193929163	-0.106982257	-0.300886007	0.16749526	0.739030084
Hsp90ab1	0.112943315	-0.117944149	0.005000834	0.437080247	0.587368537	0.102372161	0.07633939	0.335458842
Crot	0.144242847	0.134795467	-0.279038314	-1.245781124	-1.306514274	-0.229018215	0.06941841	0.30381094
Uap1l1	-0.497394896	0.732404398	-0.235009503	1.053584288	1.218119569	3.056370153	0.07511671	0.327424053
Grhpr	0.184288474	-0.452753758	0.268465284	0.827786257	0.75507712	#DIV/0!	#DIV/0!	#DIV/0!
Ptpn11	-0.186978437	-0.08142924	0.268407677	1.067318279	0.778062046	1.117163319	0.00470976	0.020364979
Serpina1e	0.818677585	0.284127936	-1.102805521	-0.88047949	-1.517626167	-0.785811886	0.16051804	0.691314726
Eif2s3x	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Hdlbp	0.948547851	0.001450987	-0.949998838	-1.387809699	-1.902788027	-0.637685717	0.11816416	0.504883248
Arhgdia	-0.09522667	0.166993281	-0.07176661	-0.075550513	-0.444380566	-0.383541454	0.10056764	0.428006355
Hist3h2ba;Hist1h2bp;Hist1h2bk;Hist3h2bb;Hist1h2bc;Hist2h2bl	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Scrn2	-0.304049104	0.106709508	0.197339596	-0.664245959	-0.815321976	-0.229780561	0.07132503	0.301181097
Snx5	0.013889737	0.268688567	-0.282578304	-0.803127607	-0.949653461	-0.657802856	0.01116748	0.046972927
Taldo1	0.01533607	0.087091583	-0.102427653	0.483046853	0.315823493	0.053890541	0.10584224	0.443470783
Fbp1	-0.329972767	0.387856158	-0.05788339	-0.390351564	-0.582607817	-0.378603564	0.10930287	0.456202325
Cecr5	0.22268607	-0.585031057	0.362344987	-0.480884898	-0.386978017	-0.698369372	0.16674631	0.693279855
Pgm3	0.308957967	-0.106694945	-0.202263023	1.355031691	0.851880238	0.408512099	0.05056613	0.209432877
Mocos	-0.475930476	0.938245552	-0.462315077	0.589838759	0.499583978	0.933461925	0.23872783	0.984980075
Pfkfb1	0.840402581	-0.662401492	-0.178001089	0.84613528	1.141688068	0.582533237	0.14327865	0.588913374
Dnpep	-0.068691159	0.352614526	-0.283923367	-0.648557693	-0.916934724	-0.253313092	0.08687252	0.355716631
Pygl	0.444829376	-0.30473465	-0.140094726	-0.647756437	-1.476436123	0.05482157	0.23790888	0.970488677
Tgm2	0.03543474	0.29324115	-0.32867589	0.53810302	-0.020749126	0.704936683	0.22481655	0.913634155
Eno1	-0.090596001	0.119475235	-0.028879234	0.302082164	0.130748781	0.247078754	0.04759249	0.192687188
Nans	-0.009795692	0.193433174	-0.183637482	-0.307046861	-0.737845544	-0.315408272	0.06461071	0.260612614
Ppa2	0.436475802	-0.357124395	-0.079351407	0.50779048	0.78423712	0.325499648	0.11458727	0.460478953
Aprt	-0.28423241	0.432166193	-0.147933782	-0.936844892	-1.313385307	-0.315714257	0.07880276	0.315502893
Uba52;Rps27a;Kxd1;Ubc;Ubb;Gm7808	0.248583299	0.017800388	-0.266383687	0.610859459	0.791988033	0.369962691	0.03739592	0.149169697
Blvrb	-0.165578189	0.287020473	-0.121442284	0.27408566	0.303978706	0.701038135	0.09908041	0.393771794
Gnmt	-0.128827987	-0.217634802	0.34646279	-0.456272411	-0.114249198	-0.622522811	0.15932353	0.630874492
Hsp90aa1	0.015896294	0.058346937	-0.07424323	0.603919529	0.615591978	-0.14483721	0.23212746	0.915802138
Ca8	0.086180034	0.11552681	-0.201706844	-0.632241483	-0.361249464	-0.734908196	0.01866829	0.073383337
Pex5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ptbp1	-0.283342284	0.14100505	0.142337234	-1.079505441	-1.493793723	0.259665382	0.23192044	0.905075799
Adck3	-0.028681969	-0.271712643	0.300394612	-0.602228855	-0.074703416	-1.039154224	0.15260161	0.593389727
Gc	-0.012442483	0.069082775	-0.056640292	0.285911309	0.06765323	0.352905566	0.06575471	0.254770034
Psmd11	0.271685065	-0.362808429	0.091123365	0.364969346	0.424389993	0.38906426	0.10692419	0.412803753
Acp6	-0.206809741	0.211693133	-0.004883392	-0.938991288	-0.344406794	-0.407255397	0.06563455	0.252494479
Reep6	0.397783478	-0.509183618	0.11140014	1.130149072	-0.010640331	1.480265913	0.17331135	0.664360167
Acads	0.131856232	-0.118031158	-0.013825074	-0.369619226	-0.047351747	-0.445544761	0.11280492	0.430890876
Dpyd	-0.073752977	0.111515188	-0.037762211	-0.543119794	-0.470190717	-0.128968957	0.05265989	0.200441351
Hyou1	0.253242664	0.808137021	-1.061379684	-1.282567281	-1.737377732	-0.142374145	0.22204007	0.842194073
Nedd8	0.859195728	-0.383211691	-0.475984036	-0.899969193	-0.565027367	-1.617824065	0.12493702	0.472226997
Mdh2	-0.250007421	0.307599937	-0.057592516	-0.169936602	-0.493652823	-0.444718544	0.12676175	0.477454528
Bphl	0.047503011	-0.195038276	0.147535265	-0.134316987	-0.022945627	-1.218118315	0.30981991	1.162900408
Coq9	-0.418336876	0.284860833	0.133476044	0.051931325	-0.605191344	-0.697227803	0.26047329	0.974296278
Hao1	0.185842448	0.127959128	-0.313801576	-0.949830602	-0.992697998	0.025294336	0.15742714	0.586823231
Hsph1	-0.282441784	0.56717311	-0.284731326	0.827831561	0.415762144	0.242590959	0.21048332	0.781898515
Coro1a	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acadm	0.209578338	-0.338909758	0.12933142	-0.042570259	-0.335759001	-0.684649341	0.23300555	0.859655277
Cmpk1	0.02917038	0.13029813	-0.15946851	0.523339974	0.665278152	0.091896981	0.09051397	0.332808171
Ttr	0.215552502	0.11105404	-0.326606542	0.222464847	0.568394038	0.495145573	0.09471166	0.347062031
Pa2g4	-0.070244702	-0.574067818	0.64431252	0.762905573	1.109493071	0.715388198	0.08272222	0.302103789
Ces1d	0.304718953	-0.046744665	-0.257974289	-0.773075391	-0.906930354	-0.151955763	0.0985021	0.358521117
Mttp	0.084860354	0.112911951	-0.197772305	-0.408076115	-1.091067997	0.049278687	0.23484249	0.85189507
Crk	0.193948806	0.319090013	-0.513038819	-1.044618729	-0.902226463	-0.330034389	0.08861351	0.320371934
Vps29	0.033125212	-0.262128652	0.22900344	0.211566611	0.327274221	1.685566854	0.20798176	0.749427608
Acad10	0.131940691	0.070568953	-0.202509645	-0.509147506	1.196834037	1.158238886	0.34235526	1.229521729
Mars	0.036112575	0.065995462	-0.102108036	-0.167013862	-1.054764894	-0.292335124	0.14820471	0.530494323
Fkbp4	0.450511693	-0.685725334	0.23521364	0.864300375	1.211200433	0.067104454	0.21556864	0.769074922
Aco1	-0.019228968	-0.042966573	0.062195541	-0.134998559	-0.121420449	-0.266221773	0.03600679	0.128037317
Carkd	-0.114283216	0.425196654	-0.310913438	-0.395809	-0.827455025	-0.314803953	0.13204722	0.46800999
Ces1f	-0.078889931	0.156234807	-0.077344876	-0.923051826	-0.703189037	0.055318444	0.16271288	0.574812499
Gcn1l1	0.049665275	0.179470908	-0.229136183	-1.26400241	-0.996105497	-0.348784632	0.04298383	0.151353496
Prep	-0.431528272	0.145770165	0.285758107	-0.564990977	-1.313464355	-0.401185259	0.09998683	0.350927804
Snx3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Vwa8	-0.257241453	0.058738365	0.198503089	-0.40896265	-0.364000523	-0.483452497	0.03962621	0.138180424
Aldh5a1	-0.125665263	0.19504587	-0.069380608	-0.431449731	-0.035315557	-0.559601878	0.1400449	0.486779854
Inmt	0.159043634	-0.215194223	0.056150589	-0.530347511	0.004003394	-0.232473164	0.25533394	0.884666633
Hnrnpu	1.167060031	0.419173129	-1.58623316	-1.588815402	-1.132784531	#DIV/0!	#DIV/0!	#DIV/0!
Hdhd2	-0.141878046	0.148566468	-0.006688422	-0.73905263	-1.22698828	-0.059627598	0.12492584	0.430079094
Tpp2	-0.449053764	0.233184297	0.215869466	-0.580043013	-0.87672756	-0.357425914	0.0888921	0.3050551
Arhgdib	-0.472592274	0.647587306	-0.174995032	-1.004801823	-0.403486209	#DIV/0!	#DIV/0!	#DIV/0!
Hgd	-0.061076043	-0.253626315	0.314702358	-0.184720999	-0.199866566	-0.445757471	0.21314427	0.726842123
Mthfd1	-0.094871818	0.121283803	-0.026411985	-0.285025654	-0.058210018	-0.494072865	0.11905977	0.404728349
Pecr	-0.052549771	-0.186785844	0.239335615	-0.162598034	-0.236373048	-0.614609941	0.14707117	0.49838223
Cyp4a12a;Cyp4a12b	0.339809851	0.255277337	-0.595087188	0.871468981	0.111106754	2.561223484	0.20597347	0.695804113
Aifm1	1.78203033	-1.290655842	-0.491374488	-0.171311432	-1.61945667	-1.952788817	0.30854627	1.039060795
Dbi	0.505921157	0.092659971	-0.598581128	0.825416463	0.720565308	0.181380221	0.20329229	0.682481257
Creg1	-0.198310091	0.431879651	-0.23356956	-1.631569531	-1.587292778	0.002380119	0.13784966	0.46134824
Ttc39c	-0.695510201	0.267321919	0.428188282	-0.408125249	-0.222807205	-1.314716713	0.25354066	0.845918073
Psmb2	0.232101502	-0.455623586	0.223522084	-0.209891188	-0.976254582	-0.468832045	0.16006757	0.532409356
Iah1	-0.088429204	0.470192883	-0.381763679	-1.169109487	-0.492303841	-0.160345926	0.19261611	0.638705581
Cyp2d10	-0.24547012	0.088888574	0.156581546	1.107286989	-0.406277585	2.031643251	0.27528903	0.910053337
Aspdh	0.037353601	-0.096277946	0.058924345	-0.351594053	-0.016168336	-0.669885137	0.15057845	0.49626618
Plaa	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cp	0.704965503	-0.016437061	-0.688528442	0.620450286	0.233887295	1.593112084	0.22589271	0.739969738
Echdc3	0.040051548	0.112591884	-0.152643432	-0.879754138	-0.844369957	-0.164340052	0.06263073	0.204543268
Pmpcb	-0.516383211	0.781991084	-0.265607873	-1.495674016	-1.094046191	-0.08516376	0.19783132	0.644143536
Nipsnap1	-0.524712619	0.475768259	0.04894436	-0.52080526	-0.60230741	-0.381892917	0.16635902	0.540042334
Cfl2	0.041667001	0.193811713	-0.235478714	-0.816204946	-0.153043251	-0.442668019	0.10951794	0.354457747
Gclc	0.067810935	-0.094076545	0.02626561	0.145263387	0.127236718	0.157360567	0.04390138	0.141663841
Scpep1	0.025980518	0.370445089	-0.396425607	-0.930805885	-0.705689893	-0.529215402	0.04485815	0.144320407
Aars	-0.180145765	0.321397443	-0.141251679	-0.303839239	-0.568489917	-0.174148517	0.15374921	0.493183681
Xpnpep3	0.194959716	0.475712667	-0.670672383	-1.307413177	#DIV/0!	-0.817909221	#DIV/0!	#DIV/0!
Hacl1	-0.21086409	0.307842529	-0.09697844	-0.871413806	-0.77983063	0.068612674	0.19371811	0.617726483
Scly	0.059283584	0.320102853	-0.379386437	-0.830605648	-0.711264826	-0.083951076	0.15398393	0.489578322
Serpina1c	0.445764461	-0.281248603	-0.164515858	-0.429482567	-1.495553778	-1.343945955	0.05354231	0.169733825
Gmps	-0.106482614	0.558166467	-0.451683852	-0.825140649	-1.029412035	-0.493868514	0.07960902	0.251629675
Gsta4	0.411662381	-0.933491789	0.521829408	1.021577694	1.405538705	-0.349046586	0.38379363	1.209565333
Hspa5	0.348160903	-0.021311473	-0.32684943	-0.25073796	-0.178484649	-0.673443531	0.21367911	0.67147417
Txndc5	-0.43047556	0.335915723	0.094559837	-0.653617673	-1.282209398	0.017157184	0.21810607	0.683399017
Macrod1	-0.220053475	0.088860772	0.131192703	-0.801457745	-0.639036278	-0.117484106	0.09081517	0.283731777
Pdxk	0.122213629	0.502935796	-0.625149424	-0.943017259	-0.896286679	-0.139283464	0.19266446	0.600202531
Fahd2	-0.240085718	0.580674875	-0.340589157	-0.669453142	-0.882984863	-0.086859332	0.220294	0.68430405
Adssl1	-1.066135619	0.394887776	0.671247843	-0.254667595	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ube2v1;Gm20431;Gm8325	0.191290171	-0.77646278	0.585172609	0.661739109	1.452854165	0.461312414	0.16446305	0.507955877
Apoa2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Naprt1	-0.293361279	-0.202266875	0.495628154	-0.320310279	-0.797548383	-0.376159758	0.16240003	0.498734193
Cnpy2	0.166947569	-0.049314995	-0.117632574	-0.687251346	-0.054993581	-0.539050867	0.11085604	0.33947699
Nit1	-0.109121308	0.063874242	0.045247067	-0.337451783	-0.552537098	-0.116030526	0.07119285	0.21739964
Hibch	-0.248511874	0.091547383	0.156964491	-0.438348744	-0.294708545	-0.203067583	0.0947207	0.288431214
Ppt1	-0.451364414	0.360254676	0.091109739	-0.294115563	-0.490245134	-0.102333197	0.32501374	0.986909688
Cct2	-0.119051282	0.540616961	-0.421565678	-0.771241006	-1.100959177	0.018203254	0.23017886	0.696984164
Flnb	-0.144012411	-0.219175023	0.363187434	0.300529232	0.002318162	0.79856523	0.2821058	0.851833446
D10Jhu81e	-0.096976121	0.31506588	-0.21808976	0.00806096	-0.380945198	-0.704511892	0.24184661	0.728234506
Afmid	0.413420557	-0.613835381	0.200414823	-2.261946403	0.200915915	-1.506286179	0.2080506	0.624729718
Mat1a	0.305646151	-0.578048608	0.272402458	0.513543638	0.78242895	0.101914887	0.25435413	0.761653232
Arf4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Tbcel	-0.49542234	0.405956653	0.089465686	0.378301854	0.14278668	1.629376813	0.24875856	0.740793388

Rac1;Rac3;Rac2	0.430697213	-0.83977205	0.409074837	1.060296906	1.079036534	0.312336144	0.17068113	0.50688544
Txndc17	0.198347349	0.548279445	-0.746626794	-0.185566331	-0.993296192	-0.495509361	0.28510395	0.844376365
Tuba4a	-0.231893091	0.596947399	-0.365054308	-0.736780641	-0.757233005	-0.070396904	0.2378811	0.702594166
Hebp1	0.31828063	-0.218412721	-0.099867909	-0.311385108	-0.027225072	-0.617004917	0.24771618	0.729649026
Lgmn	-0.473030391	0.816708597	-0.343678207	-0.767481459	-1.143042097	0.059565493	0.31893536	0.936872627
Ido2	-0.214098305	0.396754534	-0.182656229	-1.086737481	-0.843913719	0.12739702	0.226306	0.662972331
Hnrnpa2b1	0.260574525	0.547833041	-0.808407566	-0.89670312	-1.39058494	0.189610839	0.3245062	0.948084328
Snx2	0.186162361	-0.108182186	-0.077980174	0.223114729	0.503186795	1.305153561	0.11523657	0.335770153
Ncl	0.387517247	0.900479126	-1.287996373	0.063276484	-0.255537198	-1.106105929	0.5935501	1.724805519
Dhfr	-0.203999508	0.206608216	-0.002608708	-0.468978388	-0.446749245	-0.047032024	0.15131048	0.438516443
Akr1c13	-0.0113983	0.178255223	-0.166856923	-0.066168845	-0.419356219	-0.191729815	0.19121371	0.552679196
Pdia6	0.158945843	0.448860582	-0.607806425	-0.64382705	-0.853571776	-0.155185833	0.21781843	0.627897926
Hprt1	0.144649232	-0.052811694	-0.091837538	0.335477591	0.188707047	0.510089751	0.04345409	0.124930517
Urah	0.07940164	-0.117959006	0.038557367	-0.421977367	0.014900164	-0.22002442	0.20925874	0.600023083
Psmd12	-0.463267409	0.625904171	-0.162636762	-1.583484749	-1.524446604	0.247708239	0.23521063	0.672652618
Cars	0.124322898	-0.612771031	0.488448133	0.702344288	0.634336388	0.294826335	0.19271215	0.549661842
Rab18	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Clpp	0.008016864	-0.199702465	0.191685601	0.470814275	0.495950222	0.566827662	0.01185428	0.033633788
Acad8	0.030890935	-0.457615512	0.426724577	-0.331006913	-0.189728752	-0.531588195	0.27013707	0.764445475
Psmd5	0.351695396	-0.218812171	-0.132883226	0.588969705	0.444535889	0.207549689	0.11956124	0.337456132
Ces1	0.113023478	0.022615542	-0.13563902	-0.941494463	-0.670664072	-0.111278261	0.08737951	0.245982423
Tkt	-0.036916061	0.190603306	-0.153687245	0.182892522	0.07154543	0.491393229	0.1978926	0.555641307
Gm9493;Rps7;Gm6472	-0.473005901	0.66335319	-0.190347289	1.075916393	-1.132859851	2.319942715	0.51816607	1.451133469
Iqgap2	-1.151739106	0.45328226	0.698456846	0.523530483	0.500540946	0.846801488	0.35075849	0.979767242
Gfm1	-0.044852988	0.420323666	-0.375470678	-1.304486908	-1.344562452	-0.061085816	0.13320293	0.371114352
Eef1b	-0.310836884	0.497966969	-0.187130085	-0.325555335	-1.29314237	-0.187884331	0.23324148	0.648159489
Ptgr2	0.11671093	0.075447612	-0.192158542	-0.779381962	-0.875632975	-0.11371002	0.08461201	0.234527122
1300017J02Rik;Ica	0.185637674	0.410244957	-0.595882631	-1.009563755	-1.418871378	-0.939160847	0.02978578	0.082348909
Rnaset2	-0.116437164	0.528923837	-0.412486673	-0.419944448	-1.421980394	-0.438393153	0.15344684	0.423153141
Psmc3	-0.126775239	0.67213343	-0.54535819	-1.572252363	-1.588483764	0.290787439	0.25398478	0.69861972
Aldh8a1	-0.190884884	0.259825665	-0.068940781	-0.553443168	-1.051937794	0.002886197	0.18402403	0.504898416
Acta1;Actc1;Actg2;Acta2	-0.314798244	0.645348426	-0.330550182	-0.829370587	-0.677774014	-0.296605171	0.169771	0.464613801
Vcl	-0.128522937	-0.032642804	0.161165741	0.354526875	0.256759751	0.110664174	0.09563776	0.261071776
Ugt2b5;Ugt2b17;Ugt2b37;Ugt2b38	-0.402031233	0.822370014	-0.420338781	0.723884344	0.464523425	2.254994763	0.17333164	0.471968526
Gaa	-0.209571982	0.964354753	-0.75478277	-1.309303457	-1.489784354	-0.039449656	0.237791	0.645859462
Cct3	-0.156966485	-0.139579155	0.29654564	-0.059068698	-0.470887097	-0.267466471	0.23461517	0.635636587
Abhd11	-0.328000892	-0.000861987	0.32886288	0.00810711	-0.806839045	-0.111919882	0.39248821	1.060699391
Psmd3	0.133726795	-0.026642177	-0.107084619	-0.628773592	-1.137084272	0.160983455	0.23623539	0.636834055
Eif6	0.366908545	-0.723754413	0.356845868	0.524683101	0.811916919	0.318550145	0.22923045	0.61641322
Uba1	-0.122957348	0.199631409	-0.076674061	-0.389611069	-0.516730607	-0.036871106	0.14741724	0.395429365
0610011F06Rik	-0.110253388	0.313186384	-0.202932996	-0.876624439	-0.866327805	0.064784511	0.18543483	0.496175875
Phyh	0.113092051	-0.412879359	0.299787308	-0.446663294	0.065931352	-0.839162613	0.29519135	0.787905786
Gstm4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Idh3b	-0.453230718	1.091864158	-0.638633441	-1.547805116	-0.988271285	-0.888960029	0.12302959	0.326768996
Coasy	-0.200682592	0.185714439	0.014968153	0.301701765	-0.02132905	0.938997711	0.25148974	0.666324539
Arpc4	-0.247968537	-0.122784184	0.370752721	-0.042280773	-0.693278927	-0.397150404	0.22966768	0.607018976
Gsr	-0.037874429	0.159087557	-0.121213128	0.3223411	0.142621201	0.347030145	0.06170481	0.162690009
Dtd2	0.178609632	0.285840112	-0.464449744	-0.838707474	-0.699998183	#DIV/0!	#DIV/0!	#DIV/0!
Set	-0.138169156	0.750110301	-0.611941145	-0.564611827	-0.107702341	-0.523696418	0.40138989	1.053161332
Akr7a2	-0.1754959	0.154921435	0.020574465	-0.306126589	-0.261390825	-0.228520647	0.05449677	0.142641655
Tymp	1.518467022	-1.247340963	-0.271126059	#DIV/0!	-1.006836818	#DIV/0!	#DIV/0!	#DIV/0!
Gbe1	0.220900878	0.166954918	-0.387855796	0.388876875	-0.111606399	0.941206264	0.32344589	0.842518088
Rabggta	-0.552991275	0.477356286	0.075634988	-0.236631054	-0.5211916	-0.272958565	0.33379422	0.867383526
Samhd1	0.401523833	0.152071462	-0.553595295	-0.299010064	-0.997732817	-0.686706677	0.13207919	0.342392334
Calr	0.370847557	-0.013890135	-0.356957422	-0.344471509	-0.079914211	-0.83924597	0.2408498	0.622867552
Lgals9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acly	0.145029335	-0.23750211	0.092472775	0.29763827	-0.159483674	0.657310015	0.37354857	0.961442875
Psmb7	0.566375317	-0.366924336	-0.199450981	-0.587067227	-0.781102561	-0.331384979	0.14691106	0.377222924
Nudcd2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Capza2	-0.422398835	0.349401299	0.072997536	-1.008374244	-0.889497111	0.194601828	0.27046297	0.691183143
Cuta	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ywhah	-0.34224383	-0.057227824	0.399471654	0.635584404	0.176766534	0.548291614	0.15331838	0.389969802
Eif4a1	-0.023452939	-0.025393766	0.048846706	0.274530619	0.412883547	0.075920827	0.06505276	0.165075207
Psma7	0.039812814	-0.037335991	-0.002476823	-0.155122347	-0.85753908	0.015389412	0.28271218	0.715718659
Ctsc	-0.074201331	0.079537321	-0.005335991	-0.218134792	-0.370586324	#DIV/0!	#DIV/0!	#DIV/0!
Hnrnpk;Gm7964	-0.102278294	0.060047633	0.042230661	-0.195027502	-0.401682036	-0.044325281	0.13832148	0.348544343
G6pdx	-0.21163719	0.208590006	0.003047184	-1.253937898	-0.790893614	#DIV/0!	#DIV/0!	#DIV/0!
Selo	0.38196589	-0.676297794	0.294331905	-0.6042976	-0.531786337	-0.160054782	0.30316117	0.760364779
Lipa	-0.088963638	-0.496899111	0.585862749	-0.699618127	-1.045037004	#DIV/0!	#DIV/0!	#DIV/0!
Idh3a	0.03663246	0.294458845	-0.331091305	-0.545854391	-0.52173549	-0.248086771	0.09927302	0.247838655
Tufm;Gm9755	-0.412062744	0.441761633	-0.029698889	-0.384306074	-0.07394655	-0.529350409	0.30654594	0.763539539
Ftcd	-0.277899251	0.075413074	0.202486177	-0.262675452	-0.710730005	-0.086711693	0.20686984	0.514083431
Ddt	0.01022544	-0.281544963	0.271319522	-0.127805099	-0.155499994	-0.595900623	0.25401278	0.629788577
Nedd4	-0.651758036	0.403808601	0.247949435	0.077933438	0.311595868	1.73558912	0.31262363	0.773332135
Ckb	0.035732008	-0.161397383	0.125665375	-0.38935306	-0.707319591	-0.264659389	0.04429744	0.10932771
Gpt	0.043601548	-0.025351974	-0.018249574	0.034677236	-0.176572223	-0.244631621	0.21227251	0.522702922
Ndrg2	-0.200648133	0.231809705	-0.031161572	-0.225228352	-0.602048012	-0.056378971	0.22329373	0.548592099
Paics	-0.008389106	0.456440733	-0.448051627	-1.155664598	-0.807929788	0.128972732	0.25798196	0.632377558
Ddi2	-0.364697211	0.22911377	0.135583442	-0.391028222	-1.133083903	-0.166871661	0.17792957	0.435162582
Psmd6	0.064751912	-0.068193773	0.003441861	0.670409125	0.033338136	0.433404393	0.11654531	0.284391609
Nudt7	-0.13152568	0.400504126	-0.268978446	-0.492318151	-0.074804925	-0.179305225	0.3577195	0.870934178
Aldoa;Aldoart1	0.033947918	0.002759258	-0.036707176	0.149582205	0.483507052	-0.043922507	0.27493345	0.667872043
Vps25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	-0.085416877	0.028475111	0.056941766	0.185724066	-1.193800764	-0.704557822	0.23255077	0.562387877
Gda	-0.039847089	0.000177227	0.039669862	-0.235889309	-0.482453063	-0.54508577	0.01229126	0.029658152
Pdcd6ip	-0.268298822	-0.019072792	0.287371614	0.272966747	0.078298431	0.529561732	0.22928306	0.552015559
Shmt1	-0.012896328	0.045133278	-0.03223695	-0.316525256	-0.431564307	-0.102542451	0.0459609	0.110408298
Myg1	0.093125491	0.136237064	-0.229362555	-0.519886937	-0.252765741	-0.499490022	0.04200841	0.10068979
Mpst	-0.045776286	0.178684786	-0.1329085	-0.253900914	-0.025400127	-0.461650418	0.18962258	0.453500008
Hint1	0.021739282	0.167591099	-0.189330381	-0.011582793	-0.412546417	-0.232466732	0.23201881	0.553669601
Farsb	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
As3mt	0.111715102	0.156309994	-0.268025096	0.097060096	0.276624487	0.920845547	0.2033285	0.48307276
Igh-3	0.64891286	0.025260701	-0.674173561	1.09388184	-0.735940727	1.674516595	0.45548607	1.07978166
Cct5	-0.108065331	0.296590779	-0.188525447	-0.233965864	-0.96756375	-0.158875614	0.20328866	0.480864434
Suclg1	0.16510503	0.02531249	-0.19041752	-0.001249482	-0.098837717	-0.715967027	0.33171239	0.782928151
Hspe1	-0.190991245	0.805766343	-0.614775098	-0.287632184	0.064400949	-1.334384469	0.43195304	1.01730116
Dpp9	-0.362037325	0.307935703	0.054101621	0.278326731	0.381464543	0.827251295	0.12697173	0.298383555
Picalm	-0.519822464	0.499671453	0.020151011	0.417900645	0.300739421	1.056878727	0.19127764	0.448527391
Ces1c	0.097994234	0.220216596	-0.31821083	-0.922402643	-0.791764407	0.044834064	0.1811069	0.423758781
Npm1;Gm5611	2.062382472	-0.0644311	-1.997951372	-1.079263713	-0.918079186	-0.993248496	0.44346189	1.035382933
Adk	0.169308657	-0.173811298	0.00450264	0.523468407	0.743274814	-0.301218608	0.38853744	0.905191742
Otub1	0.123979549	-0.459503181	0.335523632	0.510007262	0.539541002	-0.173785595	0.43002158	0.999684583
Cbr4	-0.45845978	0.527735237	-0.069275457	-0.249938478	0.050799869	-0.671673911	0.4596655	1.066305579
Ctsa	-0.678122274	0.961791412	-0.283669138	-1.187092494	-0.793464856	#DIV/0!	#DIV/0!	#DIV/0!
Eprs	0.00593059	0.208229702	-0.214160292	-0.156226709	-0.42680728	0.015176242	0.34580574	0.798752155
Bckdhb	-0.355490196	0.455688346	-0.10019815	-0.923756262	-2.184710259	0.285877117	0.27926705	0.643683764
Crip2	0.086265237	0.634616282	-0.720881519	-0.328540969	-0.30259532	-0.120483073	0.56419195	1.297641492
Fdxr	-0.124929361	-0.123234213	0.248163574	-0.324566546	-0.207222582	-0.310609625	0.09596023	0.220239941
Eif4b	0.150601125	-0.220158617	0.069557493	0.484637989	0.793170476	-0.043611808	0.2008973	0.460105892
Bpnt1	0.067874755	-0.354861973	0.286987218	0.840926014	0.752904601	-0.311801047	0.36192634	0.827150888
Lta4h	0.251235952	-0.23522092	-0.016015032	-0.055066152	-0.261849154	-0.432194379	0.23325335	0.531955413
Galk1	-0.039488573	-0.279022437	0.31851101	0.350073658	-0.039055276	0.478913101	0.3219805	0.732759821
Cyp2d9	-0.139612753	-0.073014666	0.21262742	0.648568975	-0.760309632	1.897272658	0.48544056	1.10243959
Lypla1	-0.132195295	0.157730782	-0.025535486	-0.746584734	-0.850760414	0.135020827	0.20684119	0.468753306
Kng1	0.057613403	0.701497715	-0.759111119	-0.409250325	-0.878465719	-0.327352098	0.30332167	0.685963856
Hdgf	0.031593008	-0.403063001	0.371469994	0.062211653	-0.225051302	-0.837462657	0.39140673	0.883320835
Cyp2d26	-0.099991724	-0.1581496	0.258141324	0.733804759	-0.797667468	1.290621246	0.55629922	1.252832191
Rpe	-0.545795749	0.843708701	-0.297912952	-0.286380786	-0.687253718	-0.905884502	0.24891784	0.559418271
Prkar2a	-0.085148458	0.225159783	-0.140011325	-0.79168578	-1.069118717	0.014457548	0.14836549	0.33274501
Acsl1	-0.035729368	0.259437238	-0.22370787	-0.393486222	-0.612208033	-0.14431031	0.12080496	0.270372999
Akap9	0.818687502	-0.305480721	-0.513206781	-0.56164788	-1.257502752	-0.179711151	0.26954273	0.602015896
Cycs;Gm10108	0.046925181	0.19893917	-0.245864351	0.311841813	0.387977664	-0.040851928	0.30238614	0.673978189
Pdcd5	-0.857482795	0.857482795	-27.17634497	-0.692614542	-1.782102362	-27.17634497	0.34741068	0.772738563

Asl	-0.061856776	-0.094397754	0.15625453	-0.281195481	0.043094505	-0.174653073	0.32833778	0.728815477
Psme1	0.067333141	0.067963854	-0.135296995	0.653367012	0.352366925	-0.172925532	0.33033002	0.731735139
Pmm2	0.267231454	-0.476613792	0.209382338	0.602460636	0.480075054	-0.108046577	0.37318441	0.824974114
Arfgap2	-0.282523546	0.287559688	-0.005036142	-0.507956098	0.687421975	0.613306322	0.56361155	1.24339609
Lypla2	0.187422431	-0.017551921	-0.16987051	-0.753113262	-0.865545316	-0.110495084	0.08832447	0.194457737
Mup2	0.132938196	0.606663231	-0.739601427	0.044422808	-0.458621317	-0.303035058	0.60079407	1.320037371
Acot13	0.186852655	-0.331054159	0.144201504	-0.225410294	-0.044614689	-0.371655707	0.32556322	0.713861747
Ftl1	-0.176995973	0.475147201	-0.298151229	-0.968340167	-0.68110787	0.264663138	0.35642345	0.779946859
Fgg	0.676067255	-0.171451152	-0.504616103	-0.011529119	-0.671610965	-0.277433684	0.46864518	1.023445342
Hnrnpf;Gm6430	-0.114739875	-0.083560836	0.198300711	-0.241073852	-0.502937904	-0.427110543	0.03658515	0.079734981
Pdhb	0.345288708	-0.132892317	-0.212396392	-0.538637091	-0.612377939	0.156026038	0.33152403	0.721081432
Fdps	0.142313403	0.302385716	-0.444699118	0.17813445	0.043434284	0.699217568	0.36778555	0.79834574
Fabp4	0.351055931	-0.145051378	-0.206004553	-0.217049358	0.052746822	1.434027232	0.47768843	1.034832055
Aco2	0.118469544	0.010704136	-0.129173679	-0.28476366	0.156974965	-0.466130954	0.37490678	0.810548466
Mat2b	0.226109177	-0.074774493	-0.151334684	-0.472038435	-1.016538961	-0.194012407	0.10415413	0.224731773
Uox	-1.708417799	0.884749746	0.823668054	0.578855053	1.056962514	0.62553693	0.43408714	0.934757367
Gm20390;Nme2	-0.03207617	0.087885219	-0.055809049	0.444965084	0.26116726	-0.136920482	0.34506189	0.741574366
Ywhae	-0.202647683	0.173591038	0.029056645	-0.27408526	-0.45423411	0.016300638	0.24762629	0.53111909
Apeh	-0.083798234	0.069033751	0.014764484	-0.401194174	-0.683810626	0.051995712	0.19085442	0.408541844
Ppp2ca	-0.32804105	-0.000978177	0.329019227	-0.516769009	-0.772662101	0.157852032	0.32463437	0.693537059
Ttpa	-0.317393738	0.17705505	0.140338688	0.278668374	0.027282559	0.830637249	0.25537635	0.544500669
Gusb	-0.284720719	0.153342096	0.131378624	#DIV/0!	-1.667646286	-0.460841036	#DIV/0!	#DIV/0!
Cryl1	0.059580632	-0.102240879	0.042660248	0.023333819	0.449842194	0.208675368	0.16442938	0.349210531
Arf5	-0.012130213	0.118552101	-0.106421889	-0.379693876	-0.588739899	-0.701117491	0.00829161	0.017574955
Ywhaz	-0.083330402	0.197520346	-0.114189944	-0.189429529	-0.502099366	-0.08814485	0.17797772	0.376504721
Ppid	-0.204022746	0.151364033	0.052658713	-0.369793882	-0.521134972	-0.102259907	0.11034709	0.232978909
Akr1c6	0.018101575	0.096375294	-0.114476868	-0.067708688	-0.048193808	-0.525047315	0.27119729	0.571470308
Pdia4	0.147625194	0.276042404	-0.423667598	-0.142361461	-0.105045345	-0.359384154	0.42737362	0.898814949
Memo1	-0.046103369	0.096104744	-0.050001375	-0.378331911	-0.787804757	-0.002774166	0.16797213	0.352578385
Dak	0.03730908	0.007804718	-0.045113799	0.261131773	0.074272293	0.406534273	0.06715622	0.140689681
Gart	0.036649	0.501790807	-0.538439807	-0.971211673	-0.716869127	0.204125745	0.3491119	0.729961244
Acat2	0.017724877	-0.068195666	0.05047079	-0.605108885	-0.782862314	0.105451192	0.19329134	0.403374396
Chordc1	0.086208526	-0.098242511	0.012033984	0.320087893	0.207537057	0.978382797	0.11116947	0.23154951
Mavs	0.260239291	0.184000227	-0.444239517	0.547259496	0.446331662	0.577395281	0.08203687	0.170542023
Tagln2	-0.087207944	-0.274401933	0.361609877	0.519782501	0.813401108	-0.292853531	0.41409173	0.859180739
Ahsa1	-0.320434173	0.106026219	0.214407953	0.232504469	-0.05967747	1.207644223	0.33119056	0.685856305
Serpinb6;Serpinb6a	0.144379408	-0.876543496	0.732164088	-0.203241111	-0.003708476	1.607338668	0.56302569	1.163729966
Lancl1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ces2e	0.194585324	-0.045182937	-0.149402387	-0.218955098	-0.311207241	-0.100686373	0.1510927	0.31110707
Psmc4	-0.037281966	0.161434361	-0.124152394	-0.654331212	-1.426029645	0.160569527	0.24145624	0.496224698
Flad1	-0.261600327	0.249291431	0.012308895	-0.691370716	-0.943748905	0.072110324	0.19932487	0.408861824
Syncrip	-0.323832461	-0.145402527	0.469234988	-1.201533224	-1.179928683	-0.01870097	0.15604391	0.319476261
Tpt1	-0.377325467	0.739301771	-0.361976304	-0.188724082	-0.445693874	-0.709559902	0.32445202	0.663010657
Sec23b	-0.34655765	0.927255922	-0.580698272	-0.01822474	-0.020065586	-0.483000084	0.74246954	1.514357684
Psma3	0.223803014	-0.017564323	-0.206238692	0.695919399	0.171798634	-0.143310601	0.42883696	0.873018376
Capza1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mcee	-0.015197627	-0.174424331	0.189621958	-0.521950862	-0.196868429	-0.060071063	0.20741722	0.420671692
Mup17;Mup13	0.267174936	0.705153856	-0.972328792	0.434862071	-0.788451958	-0.922268901	0.5558043	1.12513942
Slc27a2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Psmb3	-0.077780802	0.119538522	-0.041757721	-0.691827694	-1.453456582	0.28171717	0.2867178	0.578249883
H2-Q10	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		0
Arpc1b	0.256595413	-0.576404802	0.319809389	-0.245029334	-0.254937438	-0.402158891	0.36306816	0.729510554
Ces1e	0.083455945	-0.261028232	0.177572287	-1.421095964	-0.504120415	0.230808423	0.31845618	0.638684852
Ca5a	-0.014090643	-0.364667489	0.378758132	-0.046813015	-0.148216167	-0.930451541	0.34682635	0.694294975
Eefsec	-1.294576227	0.961531993	0.333044234	-0.032902851	-0.689729728	#DIV/0!	#DIV/0!	#DIV/0!
Lasp1	0.106930801	0.548075291	-0.655006092	1.015647869	0.813829687	-0.122766211	0.3157223	0.629697058
Sec24c	-0.042316317	-0.266145773	0.30846209	0.218813408	0.195661838	1.587832914	0.24456672	0.486881448
Cdc42	-0.619643738	0.548394396	0.071249343	0.131143668	0.212851139	1.525337833	0.33184516	0.659420248
Iars2	-0.084035436	0.295539845	-0.211504409	-0.797038384	-0.654019767	0.147702744	0.25969058	0.515092687
Prhoxnb	0.166503273	0.555864448	-0.722367721	0.164248776	0.661721919	0.419461529	0.36287627	0.718441851
Gpd1l	0.011748601	-0.45099982	0.439251219	0.319132638	0.754619186	-2.48E-05	0.34873067	0.689173405
Vcp	-0.041810217	0.36611888	-0.324308663	-0.34429036	-0.957592946	0.218743951	0.41175082	0.812231095
Aimp2	-0.313551904	0.313551904	-25.95799134	-0.58379991	-1.540416406	-1.065169887	0.08817765	0.173624835
Rexo2	-0.010725836	0.162801671	-0.152075835	-0.651640294	-0.85146432	0.040916913	0.16275466	0.319886895
Uba5	-0.239514325	0.328421309	-0.088906984	-0.882949106	-0.62955544	0.214949006	0.31054577	0.609255851
Sdhb	1.953676899	-1.487216938	-0.466459961	0.868109787	0.173772359	-0.367410987	0.84542891	1.655631605
Prkcsh	0.745996176	0.704957513	-1.450953689	-0.414963175	-0.604671218	-0.555675272	0.51052478	0.997969771
Actr2	0.45062471	-0.345122754	-0.105501956	0.53601987	0.674467223	-0.114354505	0.34133839	0.666041156
Aspscr1	0.504183485	0.244003434	-0.74818692	-0.916314952	-0.97828696	0.040889695	0.2877603	0.560484469
Cmbl	0.03532244	0.054289893	-0.089612333	-0.335408643	0.129009506	-0.330570897	0.32720226	0.636161223
Ddah1	0.282178988	-0.21082	-0.071358987	0.020601261	-0.106250104	-0.458672201	0.42640361	0.827544527
Atp5a1	0.323734742	0.008271983	-0.332006726	-0.039739752	0.109374806	-0.760874948	0.52196019	1.011180946
Gnb2l1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fabp1	-0.077643461	0.170822074	-0.093178613	0.486773404	0.141756978	-0.226223629	0.57989244	1.119399503
Kars	0.154463822	-0.452718694	0.298254873	0.104193098	-0.350413174	-0.481761438	0.4507401	0.868538404
Gnpnat1	-0.26935156	0.425935328	-0.156583768	-0.238768356	-0.705292531	-0.067097571	0.30640173	0.589359907
Tcp1	-0.231558897	0.234803872	-0.003244975	-0.335243602	-0.971746272	0.247464705	0.40182364	0.771529944
Cct7	0.16278147	0.358557605	-0.521339075	-0.577305716	-0.823465763	0.08363134	0.31238145	0.598731119
Cacybp	-0.275255107	0.066952968	0.208302139	-0.072357263	-0.382467477	-0.528472278	0.17097878	0.32712931
Gstt3	-0.041850056	0.038129895	0.003720161	0.537875694	0.302450754	-0.154156321	0.32592542	0.622483008
Pcbp2;Pcbp3	-0.175146739	-0.022892585	0.198039325	-0.079736989	0.065150078	0.661228982	0.43936982	0.837669798
Adh1	-0.119834835	0.146026744	-0.026191909	-0.068165251	-0.543894333	-0.02728387	0.30933019	0.588707633
Grhpr	0.025901309	-0.323445932	0.297544623	0.123715533	-0.278218564	-0.423156207	0.47251362	0.897692827
Acp1	-0.216491493	-0.59618047	0.812671963	-0.151867201	-0.082318124	-0.611372234	0.56704066	1.07538764
Dnm2	-0.785133422	0.461966445	0.323166977	-0.156213556	0.360707745	1.070932706	0.46840036	0.886761445
Gck	-0.086187402	-0.15724668	0.243434081	-0.072807888	0.298543904	0.822009221	0.29112204	0.550179947
Glud1	0.265502802	-0.200188411	-0.065314391	0.078460234	-0.068138373	-0.701525323	0.45146266	0.851712278
Ehd1	0.017381436	0.18520309	-0.202584526	-0.027482495	-0.001755726	1.119219789	0.40900785	0.770274369
Agphd1	0.233542187	-0.212197757	-0.02134443	0.195919446	0.369491922	0.053012324	0.26264008	0.493763345
Mlycd	-0.015177999	-0.084871366	0.100049365	-0.65877973	-0.512166416	0.120061573	0.22594673	0.424042388
Aldh1b1	-0.131441217	-0.308609582	0.440050799	-0.877877162	0.310991973	-0.381170816	0.4859828	0.910480783
Pafah2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Hspa8	0.014771366	0.107795338	-0.122566704	0.323856236	0.187523256	-0.170622548	0.52167083	0.973965744
Gspt1;Gspt2	-0.421085894	0.617444757	-0.196358863	0.315074028	0.622357764	0.377914497	0.2536001	0.472658118
Hspa4	-0.113693128	0.370494869	-0.256801741	-0.26928884	-0.292190921	0.028579802	0.45724643	0.850745945
Psma2	0.032518757	0.386542079	-0.419060836	-0.651030936	-1.308023517	0.318241008	0.35774929	0.664479346
Serpina3k	0.435372583	-0.206466397	-0.228906186	-0.143090548	-0.386118457	0.010658821	0.52184183	0.967600371
Actn1	0.325426605	-0.215433764	-0.109992841	1.522037905	0.384819781	0.177379642	0.19713235	0.364897377
Qdpr	-0.052742116	-0.08426124	0.137003356	-0.238063868	-0.089304224	-0.067064304	0.20737176	0.383194646
Psmb4	0.028086706	0.254137986	-0.282224693	0.009919056	-0.545501944	-0.104538628	0.40582475	0.748628935
Mup20	0.841374717	0.864310945	-1.705685661	0.43811399	0.275989499	-1.802603134	0.76160081	1.402539147
Gstm7	0.40862778	-0.449505842	0.040878061	-0.237687395	-0.248047261	-0.670890815	0.2497778	0.459200334
Prdx4	0.362914488	-0.03074294	-0.332171548	0.140218975	-0.496980621	-0.635825057	0.34925116	0.640985574
Sec13	0.002243602	0.369487133	-0.371730735	0.570298367	0.314724187	-0.003609795	0.33898708	0.621093282
D10Wsu52e	-0.181972302	-0.236464276	0.418436578	-0.426979855	-0.779696245	-0.059596976	0.22619086	0.413726421
A2m;Pzp	0.383975182	-0.109894715	-0.274080467	0.031150828	-0.644399629	0.03116074	0.55263378	1.009116741
Dhrs11	-0.396915221	-0.201938701	0.598853923	-0.538444463	-0.748254562	0.004126601	0.3215455	0.58615629
Uggt1	0.051222203	0.243395864	-0.294618067	-0.627930545	-1.471976009	0.308179489	0.32892749	0.59860373
Decr1	0.35097074	0.240937793	-0.591908533	-0.399900179	-0.234283885	0.046400008	0.5790118	1.051952532
Ptges3	-0.18801242	-0.058566811	0.246579231	0.160828774	-0.172938588	-0.783930848	0.43359819	0.78644236
Akr1e2;Akr1e1	0.426311964	-1.303642137	0.877330173	0.199170458	0.334067422	-0.076800894	0.83286183	1.508079802
Nap1l4	-0.644197343	0.608333275	0.035864068	0.424909306	0.097088981	0.732897422	0.3609882	0.652555584
Bhmt2	0.574578236	-30.92315539	-0.574578236	0.644116184	-5.484426474	-1.482603638	0.43736811	0.789307054
Acss2	-0.024328963	-0.004317302	0.028646265	-0.104717054	-0.357219368	-0.022827133	0.18766899	0.338116962
Rbp4	-0.035282008	-26.39514374	0.035282008	-0.288449825	-0.327753042	-0.656117207	0.06920136	0.124470334
Usp5	-0.081613609	0.310464682	-0.228851073	-0.391226485	-0.631176207	0.09807727	0.3147125	0.565123279
Ldhd	-0.250660087	0.228675279	0.021984808	0.295125376	0.187047454	0.060061647	0.30710863	0.550554614
Dstn	0.3634318	0.006663498	-0.370095298	0.328310311	0.64734022	-0.234837863	0.50038444	0.895555594
Ca1	0.630317444	-0.462685208	-0.167632236	0.787396554	-0.212326322	0.500640623	0.46225531	0.825947086
Tfg	0.277154716	-0.472424466	0.19526975	0.296435709	0.456871436	-0.142581882	0.53127227	0.947698561
Idh1	0.267203726	-0.06854143	-0.198662295	0.018166371	-0.261280361	-0.196913908	0.41770802	0.743891869
Ide	-0.107887457	0.131679277	-0.02379182	-0.46500771	-0.886132967	0.149741898	0.26449243	0.470257098
Cfh	0.477139723	-26.73148372	-0.477139723	0.529597177	0.119544116	0.744585689	0.35638521	0.632598377

Sord	0.114865966	-0.013976692	-0.100889274	0.21379799	0.217895098	-0.068037017	0.34571415	0.612650805
Eef1g	0.117508074	-0.220479004	0.10297093	0.468240943	0.372556313	-0.221564431	0.44233143	0.782586378
Etfb	0.152907485	-0.200584147	0.047676662	-0.207086008	0.202958345	-0.972573982	0.41702802	0.73661321
Hba-a1;Hba	0.290338631	0.01027047	-0.300609101	-0.220013069	-0.387166871	-0.062884526	0.31518255	0.555811313
Bag3	-0.651349743	-27.06981768	0.651349743	0.103368657	0.728020114	0.841661907	0.39913657	0.702714389
Tubb4b;Tubb4a	-0.324028313	0.373682873	-0.04965456	-0.101300218	-0.366721968	-0.065342787	0.47195724	0.829570364
Pmpca	-0.268063414	-0.01260908	0.280672494	-0.395074374	-0.957380375	0.098280669	0.29072428	0.510183359
Hspb1	-26.54909239	0.712317354	-0.712317354	0.424215629	0.411763404	1.695601074	0.35016829	0.613503928
Gorasp2	0.100946056	-27.07820513	-0.100946056	-1.465060799	-0.417246939	-0.375741459	0.2048328	0.35829168
Uchl3;Uchl4	0.289299099	-26.68932065	-0.289299099	0.647531229	0.12521696	0.764868676	0.22143634	0.386708696
Pbld1	0.03306642	-0.111292558	0.078226138	-0.064614033	0.094045621	-0.522294006	0.44348792	0.773242648
Myl6	0.129831559	-0.190047428	0.06021587	0.238383524	0.562019363	-0.762791973	0.9770945	1.700868198
Mat2a	0	-26.3587473	-26.3587473	0.809141672	0.890113276	0.170446792	#DIV/0!	#DIV/0!
Eif5	-0.389528912	0.062586049	0.326942863	0.647392775	0.563662646	-0.048977363	0.27053019	0.469411131
Prosc	-0.227143703	0.122857259	0.104286444	0.385699077	0.783837035	-0.351276344	0.48098863	0.833251139
Bbox1	0.003609756	-0.123382188	0.119772432	0.177328668	0.209025078	0.074357661	0.13132388	0.227137789
Ass1;Gm5424	-0.517011986	0.343818825	0.173193161	-0.21794803	0.015224004	-0.261426424	0.60603398	1.046521938
Jup	-1.581776517	-25.58733665	1.581776517	-25.58733665	-1.730870087	1.197358461	0.91281956	1.573776628
Mecr	0.068762406	0.175108465	-0.243870871	-0.455765716	-0.386054142	-0.154690468	0.09907442	0.170540523
Hnrnpab	0.412823963	0.364570379	-0.777394342	-0.043575596	-0.245957078	-26.31965313	0.79411201	1.364761652
Spr	0.040623823	0.155000099	-0.195623922	-0.263980712	-0.417993415	0.168466267	0.44792418	0.768581006
Hadh	-0.030784048	0.339316289	-0.308532241	-0.325902008	-0.489420365	0.05309115	0.36184512	0.619896321
Atic	-0.01560733	0.161619809	-0.146012479	0.036253515	-0.042237431	0.421436112	0.45793522	0.783272104
Pafah1b2	0.577069663	0.188465747	-0.76553541	-0.036003003	-0.690263414	2.377456328	0.61628226	1.052450434
Rab1;Rab1A	0.824067511	-0.535994825	-0.288072685	0.301282151	0.218904021	1.142995636	0.33974839	0.579287089
Dpp3	0.017012156	0.137235964	-0.15424812	-0.165225629	-0.40614213	-0.030988849	0.22088324	0.376023282
Cct6a	-0.18148123	0.138394982	0.043086248	-0.278011442	-0.977317929	0.125600832	0.32492703	0.552273776
Clybl	0.174051703	-0.133938557	-0.040113146	-0.305156342	-0.650023049	0.085197287	0.27786341	0.471539011
Dpy30	-0.508208935	1.187797055	-0.67958812	-25.1038431	-0.952563893	0.86995392	0.97042489	1.644246568
Aox1	-0.212522351	0.316830464	-0.104308113	0.223760783	-0.4097064	1.066035412	0.55578211	0.940219817
Ipo7	-0.441009181	0.921041293	-0.480032112	0.129817301	-0.051273031	1.572836038	0.46974925	0.793435846
	0.011401507	0.14942531	-0.160826818	-0.474162393	-0.948626567	0.184269925	0.29206645	0.492548871
Rad23b	-0.129501113	0.957835959	-0.828334846	0.037464952	-0.487822087	-0.089545895	0.75705302	1.27472634
Ifi35	0.371942528	0.482643164	-0.854585691	-0.888421771	-0.739823512	0.264051572	0.46300253	0.778391503
Fga	1.071680524	-0.639778047	-0.431902477	1.009123962	0.612675933	0.07188563	0.4026744	0.675917744
Gstk1	-0.123447049	0.037802875	0.085644175	-0.221437564	-0.257412621	0.107177201	0.40149031	0.672885305
9030617O03Rik	-0.220810928	0.075238586	0.145572343	0.128484868	-0.05745806	0.653677676	0.37237344	0.62312026
Acot2	0.037952754	-0.238414741	0.200461987	0.124773955	-0.340558869	1.376752515	0.504652	0.843166626
Mgll	-0.663575434	0.776264997	-0.112689563	-1.113261494	-1.072149737	2.331642148	0.96994947	1.618079278
Sept7	-0.010286933	0.193618081	-0.183331148	-0.681964798	-0.477406744	0.195309963	0.32481054	0.541017241
Copz1	-0.170948603	0.319812641	-0.148864037	-0.237431791	-1.452213978	0.260252224	0.42202267	0.701856165
Pafah1b1	0.039208602	-26.42316944	-0.039208602	0.584038723	0.471410782	-0.337289055	0.56934546	0.945410815
Acsf3	-0.421157606	0.268433278	0.152724327	0.351098347	0.574542455	-0.240662004	0.51916417	0.860761445
Wdr1	0.421648641	-0.653286947	0.231638305	0.55068499	0.410774276	-0.156386666	0.53468635	0.885139269
Cops2	-0.820916158	0.401807698	0.419108459	-0.560430966	-0.370684694	-26.72037573	0.44794595	0.74041219
Ahcyl1;Ahcyl2	-0.207218308	0.207218308	-26.4470895	0.614792217	0.738121737	-0.421974837	0.57837509	0.954539657
Etfdh	0.659986425	0.446321197	-1.106307621	0.389300208	1.018792526	0.047274339	0.48102898	0.792671224
Serpina1a	0.441581661	-0.181957225	-0.259624437	0.055641557	-0.345838886	-0.185958236	0.56111145	0.923229037
Uroc1	-0.068512171	-0.020863838	0.089376009	-0.191849221	-0.062375146	-0.049839224	0.19484655	0.320105043
Pgls	-0.114586163	-0.098382689	0.212968852	-0.360069411	-0.465118466	0.069447667	0.26638403	0.436966823
Dera	-0.471839056	0.713204408	-0.241365352	-0.192359686	-1.553038028	-0.177018557	0.33326462	0.545847058
Ctsd	0.089011134	0.013105198	-0.102116332	0.041540629	0.102057282	0.465829478	0.23029247	0.37662052
Lactb2	0.116004326	-0.454058076	0.33805375	0.321233001	0.489718912	-0.142260598	0.5017558	0.819332355
Gapdh;Gm7293	0.175080822	-0.24613654	0.071055718	0.135665584	0.07138788	0.211986419	0.35299587	0.575548323
Lpp	-0.074430108	0.271156707	-0.196726599	-0.338750154	-0.646346504	-0.081024056	0.17407553	0.283397067
Acss3	-0.428568106	0.60605934	-0.177491233	0.175026283	-0.358308964	0.698030964	0.71398001	1.160620137
Acox1	-0.098832852	0.348093319	-0.249260466	0.349593197	-0.760784657	0.863588476	0.78292484	1.270783403
Ctsb	0.141138198	-0.04866036	-0.092477838	-0.031704945	0.066811242	-0.667440324	0.4311741	0.698799396
Cttn	-0.724439829	1.607018637	-0.882578808	-0.089893487	-0.212730199	-0.537145514	0.74877421	1.211713952
Ighg1	0.795967552	-0.750801417	-0.045166134	1.279223605	-0.742857349	0.39286886	0.69566257	1.124082571
Arpc1a	-0.004899886	-0.524312873	0.52921276	-0.269889149	-0.169154033	-0.175105595	0.53997356	0.87121107
Psma5;Gm8394	-0.221282825	0.228542075	-0.007259249	0.060337281	-0.958882288	0.090562233	0.50540799	0.814226581
Urod	-0.072794202	0.255381714	-0.182587512	-0.085995462	-0.652016434	0.016507167	0.38362289	0.61710766
Tars	-0.137068284	0.388929519	-0.251861236	-0.396844786	-0.639255044	0.234198861	0.45910138	0.737427325
Capzb	0.146721253	-28.46698164	-0.146721253	-0.086168114	-0.257908685	-0.862492774	0.30148744	0.483542909
C3	0.223533025	-0.164041813	-0.059491211	0.229503329	-0.19957761	0.288427289	0.61079033	0.978169403
Gmfb	-0.086328646	0.487558658	-0.401230012	-0.071686504	-0.400765366	1.030471725	0.73127797	1.169395683
Txnl1	0.343283409	-0.372561885	0.029278477	0.387554006	0.011164357	0.235431385	0.41785809	0.667215059
Hmgcl	-0.236195955	0.36486934	-0.128673384	-0.155657094	-0.563044387	0.143495009	0.52547477	0.837814487
Ppm1a	-0.260052616	0.013909327	0.246143289	-0.03621612	0.645471764	-0.150617385	0.62406449	0.993540083
Ddc	0.030967862	0.138558561	-0.169526422	-1.181257738	-0.368412265	0.339782303	0.41948308	0.666854717
Anp32a	0.137158811	0.304087998	-0.441246809	0.049120892	0.055758853	-0.639534138	0.61028058	0.968742014
Gm4204;Nap1l1	-0.132305798	0.711423833	-0.579118035	0.129671233	-0.401523775	1.400622161	0.59642736	0.945363596
Cdv3	-0.197327789	0.602787591	-0.405459802	-26.84977673	0.673426377	0.318667081	0.3209485	0.507972657
Ran	0.120434943	-0.253784237	0.133349294	0.452247003	0.128354672	-0.118433705	0.5007499	0.791389831
Qprt	0.342866867	-0.774491193	0.431624326	0.510101282	0.805746381	-0.47812815	0.6377255	1.006396003
Hsd17b8;H2-Ke6	-0.386790487	-0.212445431	0.599235918	-0.068760321	-0.060492657	-0.583655257	0.53400851	0.841491544
Eif5a	-0.328454731	0.120445736	0.208008995	-0.069068718	-0.480749233	0.069514783	0.5319955	0.837099173
Gne	-0.079757922	0.052303292	0.02745463	0.225155244	-0.404429706	-0.690755538	0.34881789	0.548069966
Nudt2	-0.400167566	0.006350468	0.393817099	-0.813849287	-0.300187387	-0.213538313	0.20927997	0.328347824
Itih2	0.113250939	0.087328249	-0.200579187	-0.356247594	-1.009943204	0.16976653	0.32500062	0.509167635
Vars	-0.150650653	-0.236916764	0.387567417	-0.200042705	-0.479150783	0.030177174	0.42650674	0.667226898
Mapk14	-0.100826427	0.216033528	-0.115207101	-0.65332248	-0.6387868	0.054673424	0.18432406	0.28793975
Aspg	-0.208220029	-0.018926779	0.227146808	0.007275529	-0.148878975	-0.282466456	0.40308094	0.628759727
Arcn1	0.368134541	-0.461468423	0.093333883	0.159643852	0.211695868	0.16831537	0.50274349	0.7830918
Rsu1	-0.175220443	-0.133333196	0.30855364	-0.491151979	-0.880414339	0.210458857	0.33654367	0.52345857
Hpd	0.245556242	-0.412320604	0.166764361	-0.026433652	0.212145005	-0.90524271	0.57931159	0.899764122
Agmat	-0.197676188	0.426368395	-0.228692208	-0.354982301	-0.191269931	-0.013743105	0.47151754	0.731291905
Mdh1	0.094044384	0.002761947	-0.096806331	-0.016846017	-0.021583598	-0.29217879	0.35877199	0.555633981
Iigp1	-0.134361086	0.99056697	-0.856205884	-0.337438064	-0.597167345	0.230672778	0.71130787	1.100034055
Nars	-0.049742389	0.082399068	-0.032656679	-0.279199776	0.147379434	-0.449708613	0.34769446	0.536939586
Eif2b1	-1.975330025	1.042494346	0.932835679	0.353140612	-0.784291621	1.244675332	0.82508354	1.272347089
Gdi1	-0.190781432	0.069672635	0.121108797	-0.675683713	-0.710814608	0.283253132	0.33985654	0.523340335
Sod2	0.383247714	-0.71351002	0.330262306	0.374908503	0.908840653	-0.59051157	0.70384123	1.082293558
Eif4e	-0.032804183	0.517726694	-0.484922511	-0.426676783	0.017191431	-0.419446585	0.44303683	0.680288086
Tbca	-0.238559389	1.644117468	-1.405558079	-0.825067504	-0.625864039	-0.393910902	0.53070262	0.813744022
	-0.109936769	0.465240183	-0.355303413	-0.464611552	-1.399477848	0.248564213	0.37154896	0.568901453
Qars	0.251247182	0.357425091	-0.608672273	-0.415350658	-1.642449765	0.375237739	0.44452672	0.679679463
Dbnl	-0.151231904	0.749558492	-0.598326589	-0.401490095	-0.277243641	-0.272629534	0.47083673	0.718890538
Glo1	0.03049282	-0.083300048	0.052807228	0.136254062	-0.074071116	-0.407201795	0.52114251	0.794576948
Dbt	0.245332775	-0.395434583	0.150101808	-0.268173871	-0.215814481	1.31924042	0.64376548	0.980155607
Ctsz	-0.069933801	0.40078925	-0.330855449	0.064291749	0.680478412	-0.17572175	0.59934312	0.911237569
Ufc1	0.082621782	-0.524763691	0.442141908	-0.034884807	0.24941577	-0.777351556	0.67558327	1.025709996
Psmd8	-0.130614174	0.665770432	-0.535156258	-1.422557477	-1.340319589	0.652095811	0.40949011	0.620839845
Ppcs	-0.486930743	0.367047463	0.11988328	0.081293061	0.207938297	0.181746298	0.57375923	0.868674681
Plin3	0.072206533	-25.74254294	-0.072206533	-0.107541393	-0.074387533	0.920561898	0.61389584	0.928141817
Lonp2	-1.238972779	2.141071542	-0.902098762	-1.617701275	-0.852683476	2.878575694	0.94196899	1.422162672
Arpc2	0.464193764	-0.732932789	0.268739025	0.383483631	0.578087963	-0.017362529	0.48563488	0.732177552
Esd	-0.103032828	0.198853471	-0.095820643	-0.109317694	-0.394828153	0.069312315	0.43644162	0.657093864
Ccdc58	0.29774775	-0.354952344	0.057204594	-0.792200573	0.162405674	-0.237967999	0.43788853	0.658355355
Psmb1	-0.363611523	0.29310971	0.070501813	-0.032281604	-0.759671566	0.163001358	0.57147294	0.858003127
	-0.134960278	0.193195964	-0.058235687	0.279008843	-0.264475367	0.462387213	0.54344331	0.814788092
Gstm5	-0.298726891	-25.26252857	0.298726891	0.144627528	-0.24849868	-0.475692832	0.59185563	0.886143962
Xdh	-0.098490489	0.123818396	-0.025327907	-0.074867928	-0.636893268	-0.047881787	0.27997349	0.418604894
Ppp2r2a	0.306435744	-0.19572452	-0.110711225	-0.833088596	-0.601987128	0.177393858	0.28848251	0.430731484
Dcxr	0.386178314	-0.681759436	0.295581122	0.345602439	0.955675297	-0.623753999	0.71359783	1.063998974
Hsdl2	0.006280593	-0.209870977	0.203590385	-0.564918425	-0.340703893	0.210677514	0.42253997	0.629153863
Nqo2	-0.049653606	-0.101936797	0.151590403	-0.263243399	0.034649793	-0.106022431	0.38944261	0.579074914
Sec24d	-0.244729758	-0.078810697	0.323540454	0.565941256	0.070273867	0.250135372	0.25470515	0.378209156
Cope	-0.101542158	0.502695547	-0.40115339	-0.381996794	-0.676910427	0.235628028	0.50812614	0.753476485
Ppp1ca	0.177925887	0.063652843	-0.24157873	-0.59797189	-0.830455246	0.258494742	0.33244442	0.492290979
Copa	-0.078776089	0.304870458	-0.226094369	0.169576285	-0.344594061	0.63754612	0.65975859	0.975648475
Dars	0.243856633	-0.278780662	0.034924029	0.45386078	0.227512128	-0.075253938	0.40211113	0.59382805

Hmbs	-0.200329555	0.283441327	-0.083111772	-0.472404272	-0.847027199	0.234638586	0.35867929	0.528966313
Apob	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc9a3r1	0.536210069	-0.805708823	0.269498754	0.513913379	0.574846806	-0.175798122	0.55703823	0.819263027
Sh3bgrl	-0.533669598	0.751134686	-0.217465088	-0.173485397	-0.179229893	-0.320607707	0.59531652	0.87437114
Acy3	-0.131248347	-0.01882388	0.150072227	0.206893079	0.016635404	0.037483961	0.43988868	0.645209858
Scp2	0.037662957	0.075083074	-0.112746032	-0.035942311	0.111585984	0.082634805	0.50993379	0.746935542
Nampt	-0.083398297	0.360683931	-0.277285634	-0.508121919	-0.506021716	0.30594824	0.51429443	0.752303492
Scrn3	0.199741512	0.756240057	-0.955981569	-0.809449474	-0.817424316	0.526161998	0.61488894	0.898236405
Mtpn	-0.158667491	1.066357323	-0.907689832	-0.028651211	-0.64204212	0.242154467	0.8322672	1.21414419
Cops4	-0.393045846	-0.39619772	0.789243565	0.102261843	0.046216218	1.284822086	0.44512581	0.648491907
Acot8	0.590919854	-0.604842778	0.013922924	0.359208145	0.142156213	0.742912063	0.34459959	0.501362252
Hmgb1	-0.272038038	0.025285404	0.246752634	0.874734836	0.308919875	-0.639376947	0.71720422	1.042066887
Dhtkd1	-0.563224911	-0.876640007	1.439864918	0.914917046	0.384481582	1.078028917	0.35322684	0.51253452
Fis1	-0.636191711	0.630682418	0.005509294	0.3911327	-0.299011845	0.530470145	0.66637324	0.965615916
Aldh9a1	0.134246102	-0.251772164	0.117526062	-0.061797952	0.145000416	-0.463565989	0.5930295	0.858185933
Acox1	-0.458292921	0.868583042	-0.41029012	0.194359461	-1.095873167	1.530785366	0.82212207	1.188120261
Aldh16a1	-0.192865778	0.143215369	0.049650408	-0.308703693	-0.734317546	0.263437579	0.44348109	0.640057491
Ak4	-0.139732271	-0.234124084	0.373856355	-0.213717538	0.794704633	-0.118556796	0.70050418	1.009660028
Atg7	0.520901574	-0.019200789	-0.501700785	-0.11372399	0.234912206	0.670131454	0.51779749	0.74532501
Trap1	-0.03397448	0.04532671	-0.011352229	-0.05650896	0.096570988	-0.601137059	0.42955076	0.617479222
Psma1	0.18441488	-0.173686405	-0.010728475	0.343294173	0.162717627	-0.021255035	0.33516461	0.48115929
Cfb;Gm20547;C2	0.616226725	-0.151998202	-0.464228523	0.064956798	-0.078902436	0.897984233	0.54185815	0.77685499
Bckdha	-0.479684566	1.464294799	-0.984610233	-0.425917527	-0.954359465	0.101785016	0.62512037	0.895039897
Cbs	0.208475036	-0.322297144	0.113822108	-0.09769592	0.132051921	-0.412175129	0.60881797	0.870545267
Tdo2	-1.087612127	0.540548587	0.547063541	-0.149180944	-0.047342183	-0.059273387	0.88320543	1.261222014
Fdx1	0.738781973	-0.677081835	-0.061700137	0.501417854	1.267053996	-1.345418494	0.88005632	1.255067131
Npepl1	-0.119025624	0.272612034	-0.15358641	0.083412628	0.480927638	-0.269010921	0.72027953	1.02585267
Cct8	-0.074340519	-0.074657033	0.148997552	0.329615797	0.146190082	-0.117635368	0.46970556	0.66809435
Lars	-0.220982447	0.599584575	-0.378602127	-0.48523258	-1.288640782	0.570034516	0.55136982	0.783220463
Snd1	0.213249994	0.471942476	-0.68519247	-0.567164837	-0.866205538	0.456448295	0.57374143	0.813929775
Glrx5	-0.220397385	1.314770698	-1.094373313	-0.036049317	0.089995175	0.010049546	0.97731409	1.384635041
Ipo4	-0.053590638	0.073711494	-0.020120857	-0.378793892	-0.655280189	1.511201128	0.82701398	1.170159836
Nt5c	-0.070288267	-0.219442926	0.289731193	-0.273057035	-0.510199612	0.178285148	0.46877251	0.662409265
Phyhd1	-0.233170764	0.302669356	-0.069498592	-0.760593153	-0.475404933	0.330778412	0.45283717	0.639056112
Blvra	0.338936855	-0.165021935	-0.173914919	0.404577569	0.286955418	-0.104826993	0.44121627	0.621844579
Atox1	0.381011784	0.110972661	-0.491984445	0.490066965	-0.514910168	-1.602089785	0.45545414	0.641075418
Pitrm1	-0.197302426	0.06259382	0.134708606	-27.10556303	-0.281846337	-0.053912143	0.35918851	0.504919091
Tsta3	-0.08569577	-0.013171329	0.098867099	-0.2071034	-0.794054719	0.295038627	0.50187673	0.704582791
Park7	-0.321999965	0.270020928	0.051979037	0.053556581	-0.287334858	-0.103772265	0.60193474	0.843957781
Grpel1	-0.22753084	0.197535809	0.029995031	-0.733451789	0.116128632	-0.027372079	0.5001119	0.700286223
Pfn1	0.148589303	0.046251794	-0.194841097	-0.464469615	-0.222783807	0.08142067	0.34299027	0.479653925
2210016F16Rik	0	-25.80711111	-25.80711111	0.129295889	0.645461067	-0.188313848	#DIV/0!	#DIV/0!
Dync1h1	-0.043260522	0.386387768	-0.343127246	-0.662571147	-1.169286217	0.509242249	0.46029435	0.642036373
Baat	0.152665387	0.094110207	-0.246775594	-0.316601952	-0.309010371	0.157105807	0.47878044	0.666960899
Pgm1;Pgm2	-0.085486036	-0.08123223	0.166718266	0.139384092	-0.172588109	-0.244175634	0.55648644	0.774210869
Psmd2;Gm5422	-0.243763411	0.094053852	0.149709559	-0.036541084	-1.086719534	0.302595453	0.56433218	0.784117082
Ifi47	-0.131407933	0.053084655	0.078323277	0.521230717	-0.625592049	0.600830499	0.701469	0.973412047
Ppif	-0.203790106	0.237976084	-0.034185978	-0.307548344	-0.244481592	-0.069793384	0.23136775	0.320651969
Nsfl1c	0.013811029	0.1442533	-0.158064329	0.477505191	0.1519238	-0.245616333	0.60262737	0.834110347
Ranbp1	-0.493970846	0.664664792	-0.170693945	0.264919327	-0.357080833	-0.814913921	0.55174047	0.762700065
Serpina1d	0.055770981	0.052485948	-0.108256929	0.032404378	-0.377947001	-0.050194092	0.38857823	0.536466245
Dhdh	-0.128751123	0.124549256	0.004201867	-0.169040027	-0.416092536	0.095182499	0.37765479	0.520720438
Ipo5	-0.385862518	0.034236732	0.351625787	-0.013459291	-0.391783243	0.848525139	0.74540031	1.026468453
Actr3	-0.08363463	0.051968327	0.031666303	-0.025766936	-0.681748229	0.128021018	0.48586933	0.668224872
Gale	0.082772684	0.433896043	-0.516668727	0.040519005	-0.349481518	0.861350159	0.70462411	0.967850902
	-0.072878261	-25.66387956	0.072878261	-0.221728781	0.544272519	0.38097277	0.49871395	0.684149466
Psmc5	-0.243848214	0.362643598	-0.118795385	0.047745064	-1.116496981	1.10767308	0.98544305	1.350144405
Rnh1	-0.234016557	0.301198403	-0.067181846	0.079539013	-0.18065783	0.442301077	0.66038831	0.903645266
Usp15	0.977116806	-0.620436559	-0.356680247	0.10373349	-0.915932655	1.111501594	0.9026828	1.233628457
Mettl7a1;AB099516;Mettl7a2;Ubie;Mettl7a2-Higd1c;Mettl7a3	-26.05825698	-0.664865218	0.664865218	0.331080961	0.547494435	0.930162414	0.34913426	0.476532997
Dpysl2	0.006528495	-0.280982132	0.274453637	-0.088523707	-0.559662804	0.129438989	0.54088972	0.737328855
Ube2l3	0.000571041	0.382463318	-0.383034359	-0.490243298	-0.901130799	0.400519893	0.49753442	0.677373682
Krt18	-0.417193336	0.349754837	0.0674385	0.883719679	-0.21719647	-0.240054261	0.75926333	1.032407114
Rps4x;Rps4y2	-0.87469977	0.87469977	-25.01091773	0.903134914	-0.707093512	0.910312139	0.72447423	0.983865133
Dap	-0.631659603	1.369808411	-0.738148807	1.208958932	0.257456307	-0.243557433	0.64010577	0.86819867
Eif2s1	-26.54106469	-0.454718506	0.454718506	0.495923555	0.558758131	0.710212127	0.19019423	0.257644069
Kif5b	-0.034688237	0.24191612	-0.207227883	-0.331366756	-0.88659204	0.335854649	0.47880294	0.647792216
Gstm6	-0.288625882	0.470742174	-0.182116292	0.071237949	-0.177114573	0.646315677	0.62457572	0.84395794
Tln1	-0.495331653	0.343521528	0.151810125	0.116930757	-0.196274406	0.646960317	0.62085671	0.837885274
Ethe1	-0.354102673	0.188798107	0.165304566	-0.486644153	0.43682375	-0.544936988	0.61495041	0.82887954
Cltc	-0.864121865	0.486121252	0.378000613	-0.549963225	-0.585872209	0.578732747	0.76400387	1.028503345
Oxsm	1.178394239	-1.688114371	0.509720132	-26.35477181	1.10669577	0.295295386	0.58766719	0.790134615
Gsto1	0.077344792	-0.169121784	0.091776992	0.068294957	0.570597707	-0.408190141	0.80720543	1.08396157
Kpna3	-0.496270747	-25.80291351	0.496270747	0.491680083	0.22253914	0.857727395	0.31902495	0.427873408
Ap1b1	-0.432990918	0.077718195	0.355272723	-0.104690895	-0.120082735	0.866733818	0.62084781	0.831643721
Rnpep	-0.040645894	0.430345851	-0.389699957	-0.280120602	-0.213545468	0.110010048	0.65626646	0.87800005
Sucla2	-0.07705563	0.153250458	-0.076194828	-0.076252199	-0.127881948	-0.074895034	0.30212317	0.403702278
Isoc2b	0.004507001	0.416510496	-0.421017497	-25.70474429	-1.11418358	0.278272521	0.53968622	0.720247906
Ppp1r7	0.336711761	-0.037916082	-0.298795679	-0.565140896	-0.500414662	0.259239998	0.45160593	0.601955625
Mcts1	-0.263425456	0.528723246	-0.26529779	-1.192435317	-0.423355186	0.564814289	0.57410471	0.764294567
Tpmt	0.295727982	-0.578638318	0.282910335	0.15213414	0.368062262	-0.082152162	0.66920159	0.889799412
Apip	-0.353972397	0.141034058	0.212938339	0.184852127	-0.395223955	-0.746844269	0.38163658	0.506817129
Psma6	0.218667039	-0.239058444	0.020391405	0.335856787	-0.032178316	0.047818615	0.53619035	0.71119235
Adsl	-0.004191139	-0.061001317	0.065192455	-1.139236439	-1.861924673	0.732079888	0.38366902	0.508267413
Lcp1	-0.193748693	0.309195043	-0.11544635	-0.273726851	-0.56777178	0.309990428	0.58844393	0.778589831
Tst	0.325377306	-0.242722328	-0.082654977	0.005121986	0.267028101	-0.91865654	0.61642228	0.81461184
Naca	-0.096910975	0.101083936	-0.004172961	0.626188171	-0.181477514	0.104549811	0.49353033	0.651411823
Ppia;Gm5160	0.129268747	-0.265267234	0.135998487	0.261615777	-0.127985014	-0.45921924	0.68302827	0.900431171
Myh9	-0.383486729	0.423655633	-0.040168904	-0.188544721	-0.701195435	0.326465923	0.64524374	0.849584022
Cdc37	-0.363044177	0.618613307	-0.255569131	0.103000048	0.515226746	-0.30896663	0.8052982	1.059035705
Serpina1b	0.044486207	-0.830727107	0.7862409	0.139748517	-0.307893181	-0.032095524	0.89722132	1.178488751
Stip1	-0.068847368	0.184734147	-0.115886779	0.115046459	-0.349628443	-0.0173898	0.64102877	0.840961284
Ola1	0.1390021	0.589491785	-0.728493885	-0.208569453	-0.23440835	1.082024795	0.73278922	0.960175931
Ehd3	-0.320115736	0.142519397	0.177596339	-0.352066417	-0.515329381	0.278638551	0.53620201	0.701736529
Sptan1	0.228692221	0.253203748	-0.481895969	0.522665675	-0.824024717	0.829953889	0.76963896	1.006021421
Txnrd1	-0.024876796	0.155525825	-0.130649029	-0.00222543	-0.415564167	0.687740741	0.80005806	1.044520244
Yars	-0.23644363	0.260981799	-0.024538169	0.23951397	0.304294936	-0.180974448	0.5947449	0.775535871
Gclm	0.040342211	0.006827513	-0.047169725	0.509928751	-0.236409708	0.033875938	0.66513104	0.86627308
Ap2a2	-0.416322236	0.175048218	0.241274018	-0.472869859	-0.629219429	0.385296219	0.56199804	0.731070851
Fgb	0.903310575	-0.924740967	0.021430392	0.551835168	0.489544789	0.003318278	0.56478723	0.733816093
Abhd14b	0.044979849	-0.248743354	0.203763505	0.031089156	0.089753321	-0.328706754	0.72871926	0.945672887
Eef2	-0.03493411	-0.008146429	0.043080539	0.11132136	0.024916255	-0.017884335	0.42406906	0.549662658
Nme1	0.023809679	0.495958082	-0.519767761	-0.096850255	-0.5943208	0.151922962	0.64940762	0.840730103
Acot4	-25.69345218	-25.69345218	0	0.239220528	-0.54551929	0.885546032	#DIV/0!	#DIV/0!
Acot12	0.05115743	-0.206087295	0.154929865	0.063697727	0.393131467	-0.163340607	0.64047292	0.827181871
Cotl1	-0.178967631	0.129325925	0.049641705	-0.215729735	0.188680752	0.260784832	0.67872007	0.875532688
Nrd1	-0.219287089	0.306198918	-0.086911829	-0.31643342	-0.316489727	0.979180945	0.81416781	1.049005252
Gmppb	0.039207248	-0.06985328	0.030646032	0.20039337	0.237063079	-0.111952594	0.4030668	0.518708584
Hrg	-0.221671485	-0.49416287	0.715834355	0.212129264	-1.427797005	1.065805426	0.95425156	1.226570674
Sec23a	0.140695431	0.238981838	-0.379677269	-0.076317559	-0.310015076	0.722760761	0.77511223	0.995126276
Pkm	-0.090603945	0.320958776	-0.230354831	-0.036941149	-0.72568906	0.195215645	0.58877783	0.755004549
Psmd7	0.1830296	0.531253901	-0.714283501	-0.696435363	-1.294500455	0.73687912	0.58652416	0.751223479
Plg	0.315736454	-27.05732389	-0.315736454	0.364172894	0.249573775	-0.198332896	0.69725035	0.891985358
Sult1a1	0.331161454	-1.185589457	0.854428002	0.556772254	1.291415495	-1.934651356	0.98123964	1.253806207
Acaa1a	-0.055068551	-0.40927184	0.464340391	0.222651839	0.262065395	-0.131500262	0.69860872	0.891612783
Arf1	0.298161353	-0.114652804	-0.183508549	-0.476114444	-0.665720528	0.373692693	0.50864144	0.64839787
Kpna4	-0.943244841	0.690399998	0.252844844	-0.169271432	-0.311432032	1.64165939	0.65228523	0.830530426
Abce1	0.049716298	0.182183217	-0.231899514	-0.197421298	-0.670349193	0.307192443	0.57623468	0.732834928
Ahcy	0.071999639	-0.242598241	0.170598601	-0.029379045	0.307682295	-0.742249982	0.66708268	0.847375292
Acat3	-0.092244437	0.277059597	-0.184815159	0.151434265	-0.249410982	-0.134096847	0.69679091	0.884073909
Sept2	0.0743821	0.083308136	-0.157690236	-0.094964346	-0.292917373	0.085339625	0.49579367	0.628315309
Gckr	-0.236153137	0.347597823	-0.111444685	-0.148204289	-0.168486959	0.590549741	0.78055734	0.988035691
Dynll2	0.408612293	-0.473883968	0.065271675	0.011643847	-0.058007218	-0.135519166	0.82728031	1.045953232

Dnah12	0.03718373	0.106696157	-0.143879886	0.04069792	-0.326090747	-0.533691256	0.21156592	0.267176124
Ptms	-0.756854472	2.134975513	-1.378121041	-0.522342492	-0.040596616	-0.283247293	0.80881088	1.020215352
Fabp5	0.691457941	-0.171974774	-0.519483168	-0.024972607	0.123738242	0.095233489	0.86721788	1.092613666
Itih4	0.574946747	-0.422921021	-0.152025726	-0.122432961	-0.212461073	0.099448004	0.81378997	1.024105888
Tpm4	-0.673892617	0.774390727	-0.10049811	0.097977925	-0.48595815	0.514131503	0.93840763	1.179556561
Thnsl2	0.022872601	-0.13318372	0.110311119	-0.117676681	0.291555967	0.140782583	0.49279011	0.618706284
Got2	0.137338716	-0.230065884	0.092727168	0.270175326	0.47187799	-0.583154112	0.88490225	1.109720804
Glrx3	-0.529302216	0.676324747	-0.147022531	-0.072450085	-0.229954203	0.887819928	0.71544801	0.89617532
Ca3	-0.060705595	0.038688144	0.022017451	0.148765657	0.336458758	-0.359896078	0.85220703	1.066245136
Rdx	-0.029914601	0.020010054	0.009904546	-0.216276605	-0.341978196	0.108956021	0.33014755	0.412589017
Tpp1	-0.10138255	-0.269450594	0.370833144	-0.113767964	0.319188628	-0.585040506	0.71594955	0.89369684
Psmb5	0.230781265	-0.560564565	0.329783299	0.21430477	0.712053904	-0.019516917	0.4422769	0.551443284
Copb2	-0.081122593	0.698951528	-0.617828935	0.15526534	0.196358751	0.068412245	0.73394652	0.914050913
	0.904870993	-0.064164207	-0.840706785	1.047429893	0.143980317	0.114253564	0.50201162	0.624481664
Eif4g1	-0.556778254	0.134534516	0.422243738	0.208401277	-0.288853361	0.449704817	0.75152117	0.933786654
Galm	-0.144715456	0.463130345	-0.318414889	-0.375501432	0.074781548	0.111810882	0.83540235	1.036819682
Coro1b	0.44620878	-0.493303513	0.047094733	0.503941594	0.315495518	-0.282596437	0.64611289	0.800972515
Nt5c2	0.224607553	0.082201566	-0.306809118	-25.47722186	-0.151802385	0.521727291	0.6081581	0.753057172
Impa1	0.294492095	-0.45566865	0.161176555	0.226112807	0.247846724	-0.084373071	0.63706951	0.787954392
Fggy	0.015482481	-0.01077537	-0.004707111	-0.289337079	-0.430366776	0.228885635	0.46047797	0.568887643
Nat2	0.102142417	-0.2732368	0.171094383	-0.2880277	-0.208907176	0.081116382	0.47945076	0.591651
Strap	-0.120599655	-27.08308544	0.120599655	0.24615776	0.405551078	-0.373840731	0.79096369	0.974950677
Pter	-0.098116618	-0.00363085	0.101747467	0.120413311	-0.473553137	0.025019685	0.60119479	0.740195404
Oplah	-0.043721295	0.080389201	-0.036667906	0.019323893	-0.123766327	0.196387678	0.7765952	0.955061899
Psmc2	0.017686778	0.333673183	-0.351359961	0.480749681	-0.213864305	-0.036932677	0.80290233	0.986292516
Glyctk	-0.36977924	-0.001039244	0.370818484	-0.02074397	0.227674851	-0.414515853	0.81949814	1.005536308
Calu	-0.109310433	0.841728583	-0.73241815	-0.245486433	0.157328646	-0.250657708	0.82454907	1.010586783
Gpt2	0.149686089	0.366074232	-0.515760321	-0.036326724	0.237853297	0.206373935	0.65165836	0.797783343
Pdha1	0.480168527	-0.255374437	-0.22479409	0.194063448	-0.262669477	-0.22370891	0.74644306	0.912788399
Sec24a	0.01576299	0.0104877	-0.02625069	-0.229927678	-0.801296249	0.33413747	0.51783271	0.632516558
Apoa1	0.731693017	-0.042236763	-0.689456254	0.847326269	0.31118622	-0.791597872	0.85634992	1.044824228
Diap1;Diaph1	-0.075370262	-25.32512912	0.075370262	-0.076497719	0.335520856	0.073148136	0.55089476	0.67138358
Prdx6	-0.04673298	-0.117134711	0.163867692	-0.089071249	-0.063499409	0.003290789	0.60510709	0.736622477
Srr	-0.004925568	0.132929206	-0.128003637	-0.124297423	-0.61298842	0.196518428	0.50616763	0.615486178
Tpm1	0.512937806	-0.247415099	-0.265522708	0.045344854	0.649535759	-0.322790958	0.76185599	0.925355427
Rab14	0.061982041	-27.0258719	-0.061982041	0.100355046	-0.225110503	-0.095656489	0.61298429	0.743699237
Glrx	0.294570316	0.047201144	-0.34177146	-0.004715155	0.040443544	-0.22850995	0.76743167	0.930037704
Acy1	-0.425954233	-0.078550601	0.504504834	0.333189706	0.155552921	-0.07585439	0.66630833	0.806583765
Gss	-0.056853049	0.471437088	-0.414584039	-0.250090862	-0.762150666	0.465385875	0.6994455	0.8457501
Bhmt	0.143751701	-0.054532557	-0.089219144	0.40365873	0.16520783	-0.501371102	0.93989905	1.135230027
Idh2	-0.30956632	0.06793771	0.241628609	-0.233066086	-0.141645436	0.188963859	0.7798874	0.940913263
Rmdn1	-0.023094576	-0.188657947	0.211752523	0.078516263	-0.508284923	0.217946262	0.79243452	0.954985188
Kif13b	0.096887277	0.062271899	-0.159159176	-0.738562524	-0.145880137	0.343766329	0.60664598	0.730272049
Rab7a	0.251108191	-0.466017545	0.214909354	-0.004561226	0.289224345	0.776551264	0.3389294	0.407544692
Kpnb1	-0.023222133	0.119333982	-0.096111849	-0.288034047	-0.518341538	0.949452904	0.9224354	1.107947408
Dnaja2	-0.278568626	0.588552703	-0.309984077	-0.370355635	-0.641075033	0.512791184	0.73400422	0.880642138
Ap2m1	-0.282197032	0.379841052	-0.09764402	-0.138596154	0.207526025	0.411472324	0.56311038	0.674858443
Copb1	-0.202846732	0.493551821	-0.290705088	-0.083838599	-0.489309548	0.777221155	0.88674139	1.061536483
Hist1h2al;Hist2h2ac;Hist2h2aa1;Hist2h2ab	-0.433591124	0.25121744	0.182373683	-0.260758056	-0.547733764	0.713969259	0.94629481	1.131575984
Gsta3	-0.199233356	0.107266857	0.091966498	0.250951602	0.141065423	-0.25417937	0.81407313	0.972390118
Farsa	0.835474417	-0.969250599	0.133776182	-0.69604649	-0.433143559	1.737908187	0.83849991	1.00046181
Nln	-0.002278967	0.171721957	-0.169442991	-0.09647349	-0.278842109	0.199646156	0.74884428	0.892503492
Fadd	-0.144213294	0.144213294	-24.8515699	-1.874025484	-1.380098093	0.867901231	0.52000442	0.619080147
Shpk	-0.057091874	0.080357521	-0.023265647	-0.119128334	0.020952067	0.262947843	0.6684167	0.794893787
Ddx1	0.319758656	-0.256219228	-0.063539427	-0.791821586	-0.882570988	0.649943377	0.55049569	0.653940483
Dnm1l	-0.008203023	0.048683355	-0.040480333	-0.104145558	-0.294579681	0.590408963	0.82468004	0.978572029
Pgk1	-0.051722219	-0.090531169	0.142253388	0.316356313	-0.022021117	-0.21423643	0.88348292	1.047198507
Cndp2	0.147528181	0.202906936	-0.350435117	-0.20833737	-0.27390673	0.250172565	0.76439623	0.905051829
Psme2	-0.234973222	-0.056559235	0.291532456	0.099766334	-0.572160701	0.149930526	0.72007544	0.851642828
Psmd13	-0.18306104	-0.068836347	0.251897387	0.072380589	-0.350378138	0.059833718	0.72187475	0.852837822
Tpi1	-0.149456739	0.290095562	-0.140638823	-0.010837298	-0.050617759	0.219992199	0.76857643	0.907020879
Vwa5a	-0.378066134	0.394818224	-0.01675209	-0.382982772	-0.380396106	0.087829734	0.45528798	0.536713523
Usp14	0.06822479	-0.029521601	-0.038703189	0.31009221	-0.727703857	0.428726675	0.9924675	1.168689945
Ca2	0.897331945	-0.110358949	-0.786972995	-0.303727244	-0.131879526	0.468116969	0.9850166	1.158653914
Copg2	-0.472072063	0.319817624	0.152254439	0.149103011	-0.134030308	0.430165924	0.63670116	0.748123868
Ptma	-0.594906398	1.886803255	-1.291896857	-0.719350658	0.221021521	-0.073168006	0.85872513	1.007906478
Pls3	0.117886026	-0.229956956	0.11207093	0.03651916	-0.15850683	-0.064019675	0.65352531	0.766226532
Pgam1	0.313638282	-0.462452122	0.14881384	0.199355618	0.111460243	-0.47080824	0.87422469	1.023875289
Ddb1	-0.161343489	0.284511504	-0.123168014	-0.041428767	-0.235846561	0.137765421	0.80771666	0.944958557
Pklr	0.179009285	-0.188935675	0.00992639	-0.297807138	-0.881891269	0.714522889	0.76204479	0.890562617
Adrm1;Gm9774	0.12340998	0.100145624	-0.223555604	0.098614851	-0.035133104	0.388428105	0.42015871	0.490487645
Psma4	0.207351622	0.05257316	-0.259924781	0.107090783	-0.137959103	0.201507845	0.75563185	0.88116292
Gstz1	-0.283351824	0.335868406	-0.052516582	-0.273881865	-0.259573372	0.309864391	0.79156976	0.922076412
Eif1	-0.4905932	0.514375865	-0.023782665	0.139157138	-1.03494781	0.73526562	0.93273195	1.085342561
Tsn	0.045836174	1.301848114	-1.347684288	-0.743930646	0.074359758	0.114641072	0.83152206	0.966532628
Etf1	-0.633159977	0.374104528	0.25905545	0.152061617	-0.254085274	0.281206937	0.87519292	1.016201451
Cs	-0.03134149	0.298302441	-0.266960951	-0.031831916	-0.132405427	0.350665345	0.7918627	0.918458778
Bpgm	0.853485797	-0.615435211	-0.238050586	0.641148716	0.337402602	0.510251095	0.33116734	0.383699779
Ube2d3;Ube2d2	-0.376400815	-0.071461906	0.447862722	0.229408428	0.483538207	-0.416233173	0.79713965	0.922599531
Serpinc1	-0.433714994	0.145948934	0.28776606	0.095296515	-0.115788135	0.007838191	0.98618872	1.140181819
Hmgcs1	0.125615452	0.006419837	-0.132035289	-0.197331644	-0.737488372	0.463341566	0.68096845	0.786460356
Ppp2r1a	-0.010278396	0.231644189	-0.221365793	-0.217700203	-0.615166217	0.386928852	0.66584007	0.768167683
Pdlim1	0.090782065	-26.884306	-0.090782065	-0.036065731	0.008770146	-0.079742498	0.66788157	0.769701472
Actb	-0.043886022	0.195027453	-0.151141431	0.020822639	-0.061874499	0.150512739	0.77540199	0.892661925
Cap1	-0.325087817	0.232236282	0.092851535	-0.08819108	-0.632841904	0.318104751	0.69834414	0.803095757
Rars	-0.017231168	-0.114038315	0.131269483	0.221298937	-0.692950369	0.459889814	0.99179827	1.13935593
Atp6v1a	-0.191902579	0.692041513	-0.500138934	-0.441688283	-0.609114526	0.643830825	0.81093003	0.930589562
Hars	-0.157425526	-0.083142822	0.240568348	0.146392995	0.226886637	-0.712795284	0.74491808	0.853930478
Npepps	-0.040353298	-0.084048686	0.124401985	0.241871044	-0.064558964	-0.041236059	0.71837207	0.822627333
Msn	-0.249033466	0.867461997	-0.618428531	0.005389905	0.397999317	0.604046627	0.52265739	0.597875806
Actn4	-0.344940118	0.09585508	0.249085038	0.134636092	-0.217604672	0.220558865	0.8470084	0.967881693
Ldha	-0.162999439	0.010690194	0.152309245	0.158690126	-0.44520024	0.102188854	0.78739492	0.89881088
Acot1	0.096725178	-0.498839014	0.402113836	0.146149067	0.208158195	-0.449673456	0.92950498	1.059910217
Kynu	0.079443331	-0.283106945	0.203663614	0.2790772	0.025808938	-0.166486771	0.82448095	0.939161127
Usp4	-0.589584314	0.796947782	-0.207363468	-0.377403195	-0.116754026	0.089413875	0.77192009	0.878363813
Rapgefl1	0.162018458	-0.235702401	0.073683943	0.228591688	0.379977398	-0.261129071	0.63817316	0.725410289
Itpa	-0.163100426	0.471450089	-0.308349663	-0.379316587	0.192322781	-27.47372962	0.81939311	0.930424318
Ggact	0.296447916	-0.252067985	-0.044379931	0.194410472	0.129573447	-0.200407151	0.84782521	0.961698903
Rpsa	-0.086050416	0.445226169	-0.359175753	0.234535814	-0.841779801	0.454631151	0.91814821	1.040375483
Ufd1l	-0.193512904	-26.69236832	0.193512904	-0.16482374	0.150332541	-0.169833518	0.77742182	0.879992654
Psmd4	0.242845802	-0.187658514	-0.055187288	0.381954282	-0.190752855	0.201166846	0.56997697	0.644503251
Ufm1	-0.084449031	0.345527286	-0.261078255	-0.439939817	-0.800679366	0.617553385	0.67639605	0.76403775
Hbb-b1	0.376393098	-0.027209795	-0.349183303	0.150127606	-0.420934551	0.147716013	0.89176958	1.006266094
Pnpo	-0.021396836	-0.447371237	0.468768072	0.293831282	0.081993865	-0.560805915	0.87536284	0.986722869
Actr1b	-0.054598811	0.589762682	-0.53516387	-0.509952729	-1.367972735	0.86673685	0.66739072	0.751509762
Etnppl;Agxt2l1	-0.779429124	0.075240793	0.704188332	-1.101665334	0.906634492	-1.075543931	0.6211532	0.698716553
Acadl	0.262170177	-0.505027905	0.242857728	-0.035620756	0.427548621	-0.623828411	0.85453355	0.960239877
Cand1	-0.232851756	0.44834724	-0.215495484	-0.309572942	-0.425494718	0.458911695	0.80912957	0.908275254
Akr1c20	-0.301783015	0.813091211	-0.511308196	0.111348111	-0.386761591	0.716214146	0.79161658	0.887694523
Crym	-0.736104769	1.048771675	-0.312666905	-0.301420592	0.382974713	0.674783853	0.70115131	0.785434784
Ppp2r4	0.393709247	0.134882147	-0.528591394	-0.007301679	-0.381123957	0.224976907	0.87556991	0.979804427
Akr1a1	-0.022649086	0.247061857	-0.224412771	0.157914555	-0.205651517	0.159011196	0.84903901	0.949132545
Psmc1	-0.015246683	0.465704589	-0.450457906	0.024545018	-0.426084156	0.265892622	0.89865885	1.003564272
Krt8	-0.581842495	0.317172978	0.264669516	1.11246359	-0.802003834	-0.756613515	0.84097026	0.93817219
C4b	0.318240697	0.137538971	-0.455779668	-0.006013965	-0.654637068	0.433145055	0.85640185	0.954402477
Comt	-0.111789498	0.273852686	-0.162063188	-0.192998984	-0.699164152	0.789309705	0.94393908	1.050873475
Ugp2	-0.242226143	0.188537926	0.053688217	-0.238535103	-0.257779097	0.318592164	0.8076785	0.898251504
Mri1	0.012172686	-0.330294752	0.318122066	0.208991466	0.262758846	-0.326203477	0.86382707	0.959709213
Gpi;Gm1840	-0.11130741	0.167332096	-0.056024685	-0.110515188	0.055935164	0.140458146	0.81193566	0.901131882
Ap1g1	-25.67516432	-25.67516432	0	-0.5993046	-0.179217581	0.044002136	#DIV/0!	#DIV/0!
Carhsp1;Gm9791	0.201423604	-26.73482238	-0.201423604	0.176491475	-0.066076333	-0.011604675	0.86469535	0.957720973
Rhoa;Rhoc	-0.267918698	0.335692217	-0.067773519	0.463809328	-0.000389789	-0.356974895	0.91054638	1.007472509
Nadk2	0.267478342	-0.339950396	0.072472054	0.04437417	0.526636208	-0.484911372	0.93726836	1.035978627

Osbpl1a	-0.067259002	0.23582021	-0.168561208	-0.243640688	-0.549371395	0.778946041	0.99161969	1.094934505
Rps5	0.719048003	0.18705543	-0.906103433	-0.760956029	-2.422781648	0.731245737	0.47136093	0.519939959
Drg2	-0.958797111	1.024690533	-0.065893422	0.320510681	-0.170552752	1.132533985	0.5680036	0.625904064
Ighg;Igh-1a	0	-27.97891064	-27.97891064	0.10037165	-0.242221622	-27.97891064	#DIV/0!	#DIV/0!
Cfl1	-0.156841851	0.273000982	-0.116159131	-0.046689714	-0.415055561	0.294357605	0.83197995	0.914924031
Gars	0.224599667	-0.050433199	-0.174166467	-0.336475864	-0.598638876	0.797888904	0.92298265	1.013967725
Sec31a	-0.220305133	0.04788009	0.172425043	0.140808075	-0.1142234	0.065619723	0.83511819	0.916510417
Umps	-0.155884724	-0.588265397	0.744150121	-0.218146558	-0.400425631	1.104923768	0.80530294	0.882892982
Psmc6	0.019909477	0.630827307	-0.650736784	0.028831039	-0.685753862	0.766127536	0.95121648	1.041808521
Cct4	-0.067806854	-0.105236295	0.173043148	0.028485083	-0.20715822	0.248814261	0.8894573	0.97318152
Isoc1	-0.245452461	0.670020504	-0.424568043	-1.116680911	-0.332671728	0.807676189	0.75984287	0.830525928
Ubr4	-0.264673389	-25.24205621	0.264673389	0.703119771	-0.94462017	0.14602284	0.96430736	1.052945713
Serpina3m	-0.2457567	-0.265678732	0.511435432	-0.047527124	-1.144570987	0.583826741	0.73829308	0.80534291
Wars	-0.405004501	0.824820919	-0.419816418	-0.331922417	-0.983932105	1.021184878	0.8981175	0.978694574
Cops3	-0.304786245	0.875998078	-0.571211833	-0.384740871	-0.428118314	0.895537208	0.96675614	1.052430396
Aimp1	0.174953882	0.172144875	-0.347098758	-0.213935495	-26.79860231	0.563251534	0.66597686	0.72426658
Cse1l	-0.317677512	-0.174519213	0.492196724	0.544559338	-0.756172047	0.498460847	0.8558975	0.929874566
Xylb	-0.194193241	0.152515169	0.041678072	-0.013258164	-0.201205605	0.104466515	0.80016714	0.868454493
Cul4a	-1.04817465	1.217645589	-0.16947094	-2.225380152	-1.009424988	1.102560828	0.57783783	0.626522264
Hspa1a;Hspa1b	-0.220782647	0.266120244	-0.045337597	0.696634339	-0.479485548	-26.72630635	0.83399198	0.903352032
Copg1	-0.303524407	0.598431888	-0.294907481	-0.673714899	-1.0236846	0.884964537	0.70198917	0.759609898
Stard10	-0.011754564	-0.157467861	0.169222426	0.218899164	-0.041106837	-0.277554236	0.8558722	0.92519785
Agxt2	0.198145981	-0.418831062	0.220685082	0.030421817	0.220417696	-0.293149106	0.95896871	1.035609563
Eif4h	-0.288641216	0.513602821	-0.224961605	-0.098047201	-0.112117827	0.165535231	0.95913069	1.034750779
Mylk	-0.277475245	0.174800273	0.102674971	0.468332063	-0.341240197	-0.092307111	0.96867206	1.04400249
Tuba1c	-0.026904494	0.175612203	-0.148707708	-0.098733061	-0.345729813	0.303472089	0.83504581	0.899088171
Inpp1	0.258702832	-0.139004523	-0.119698309	-0.017212509	-0.91949075	0.458656289	0.72635424	0.781282519
Echs1	0.03011815	-0.069798062	0.039679913	-0.016832486	0.49045796	-0.932906783	0.73270694	0.787332207
Ube2k	-26.72719917	-26.72719917	0	-0.265549448	0.212685966	0.289390326	#DIV/0!	#DIV/0!
Auh	-0.285492328	-0.067500919	0.352993246	-0.162983751	0.305077568	-0.712618624	0.61449517	0.6589973
Nploc4	-0.098326337	0.428655247	-0.33032891	-0.131796245	-0.658624325	0.571952408	0.87115806	0.93332197
Ywhag	-0.093923406	-0.534811855	0.628735261	0.366282258	0.134512339	-0.576148599	0.95741269	1.024715959
Txn	0.351870162	0.214456719	-0.566326881	0.473165107	0.338322302	-0.874997735	0.96919804	1.036303736
Alb	0.300393575	0.064813102	-0.365206677	0.434094908	-0.019074034	-0.38041224	0.97171102	1.037964048
Glul	0.19169794	-0.006665728	-0.185032212	0.74039135	-0.259720211	-0.740538512	0.85659055	0.914091202
D17Wsu104e	0.45125178	-0.614363384	0.163111604	0.048637434	0.262301568	-0.334985002	0.98344371	1.048424707
Twf1	0.181343212	-0.203568807	0.022225595	0.297880136	-0.248796249	-0.198825291	0.82145126	0.874865825
St13	0.169284875	0.170037922	-0.339322798	-0.192563119	0.431571551	-0.133517202	0.89951012	0.957057523
Clic4	-0.05903482	0.071488001	-0.012453181	-0.218720208	-0.189749473	0.18722743	0.61698151	0.655808276
Ecm29;AI314180	-0.659282626	-0.120073803	0.779356429	0.307618997	-0.945898228	1.105356424	0.84147951	0.893555353
Akr1b1	0.191721397	-27.00532158	-0.191721397	0.148967849	-0.063148443	-27.00532158	0.86282643	0.915324208
Entpd5	-0.117039593	0.33472672	-0.217687127	-0.488909226	-0.469521063	0.780540222	0.90217756	0.956131312
Adss	0.199092547	0.33163251	-0.530725057	-0.822902174	-0.30781884	0.698438829	0.79581685	0.842583759
Vps35	-0.446228704	-0.089876897	0.5361056	-0.009017757	-0.467347751	0.407758611	0.95519131	1.010334449
Sec14l2	-0.015095831	0.192026182	-0.176930351	0.157061988	-0.360016624	0.111824714	0.88481666	0.934982213
Prdx1	0.073574005	-0.106367695	0.03279369	0.113551424	0.282531481	-0.430561762	0.96118126	1.014684509
Ddx3x	-0.79746438	0.561482507	0.235981873	0.404223592	-0.32737422	0.504992827	0.71046644	0.749282163
Amt	-0.02721876	0.213530038	-0.186311278	-0.130548006	-0.027800609	0.024704712	0.73925323	0.778881817
Mdp1	0.338263854	-0.012645701	-0.325618154	-0.296393898	-0.344035818	0.514444643	0.90716255	0.954861458
Rrbp1	3.158374277	-1.026519129	-2.131855148	0.558979563	2.933731447	0.252009994	0.53057326	0.557927713
Psmd14	-0.020747277	-0.127313348	0.148060626	-0.304456541	-0.82695459	0.640976174	0.72731782	0.764072459
Ywhab	0.346631862	-0.877572797	0.530940935	-0.08388174	1.102321289	-1.076351187	0.98118503	1.029767982
Pepd	-0.713246474	0.575446479	0.137799995	-0.064012811	-0.289665584	0.580880648	0.87709161	0.91962757
Manf	-0.39923017	0.953625229	-0.554395059	0.274365757	-0.066923314	0.37564708	0.71582618	0.749814049
Prdx2	-0.073288371	0.087700757	-0.014412386	-0.303966214	-0.565685586	0.548258197	0.76815963	0.803853397
Adi1	-0.195145137	0.243997635	-0.048852498	-0.043559844	0.393606146	-0.456364795	0.90446869	0.945580899
Xpnpep1	-0.066409037	0.345831127	-0.27942209	-0.434077457	-0.231519832	0.598623285	0.95420928	0.996618586
Hrsp12	0.084539446	-0.136822302	0.052282856	0.226964128	-0.140061009	-0.15272889	0.8849778	0.92341795
Csnk2a1	-0.783880244	0.253850582	0.530029662	-0.973620392	0.062285528	0.573424285	0.86156111	0.898117222
Sec14l4	-0.147429259	0.10243104	0.044998219	0.200995897	0.135527666	-0.448118692	0.87378203	0.909979166
Ostf1	0.610725622	0.288444635	-0.899170257	-0.261578215	-0.330192736	0.654613966	0.97186154	1.01114757
Pcbp1	-0.530721831	0.349127319	0.181594512	-0.24091135	-0.358795869	0.515834821	0.94552669	0.98280226
Khk	0.016926085	0.077066449	-0.093992534	0.029735925	-0.429330804	0.270330999	0.84834189	0.880939084
Arpc3	0.061728934	-0.091343333	0.029614398	-0.543268341	-0.314560414	0.584140166	0.8057267	0.835883459
Hagh	0.200222603	-0.394787456	0.194564854	-0.069484459	0.613483509	-0.739183491	0.8889888	0.921377652
Dpys	-0.023030764	-0.035815652	0.058846416	-0.134078813	0.228729248	-0.135046206	0.91919439	0.951771201
Ppa1	-0.082634331	-0.001047699	0.08368203	0.147738252	-0.044882832	-0.126943275	0.93637885	0.968636872
Ywhaq	-0.73940392	0.029707035	0.709696885	0.436597346	-0.091597424	-0.012388634	0.8174102	0.844761397
Gdi2	0.042880304	-0.073705701	0.030825396	-0.124658075	-0.28162378	0.347995925	0.92458305	0.954607713
Echdc1	0.118256949	-0.333452108	0.215195159	0.513011699	-0.063877774	-0.633657883	0.87659134	0.904193934
Rab11b;Rab11a	0.410344708	-26.91842786	-0.410344708	-0.415207757	0.403538991	0.109855867	0.94474666	0.973566391
Eef1d	-0.011908435	0.157651075	-0.14574264	0.181448363	0.050030078	-0.263523041	0.94950954	0.977542674
Akr1c19	0.10063185	-0.594822995	0.494191145	0.215288868	-0.207473526	0.167022537	0.87415076	0.899102734
Psmb6	0.247513778	-0.19415722	-0.053356559	0.520092064	0.077543547	-0.872882265	0.84186294	0.865070184
Sars	-0.174858149	0.052150907	0.122707242	-0.231152781	-0.094832773	0.28129952	0.93718776	0.962108235
Nudt12	0.01380758	0.315255078	-0.329062658	-0.196127575	-0.519500722	0.634762588	0.94833725	0.972630523
Fermt2	-0.115013275	0.193668	-0.078654725	-0.614776558	-0.41649718	0.69836828	0.80473636	0.824568725
Serpinf1	-0.707158726	0.607765203	0.099393522	-0.830718931	-0.440596984	0.978936941	0.89138109	0.912483863
Hpgd	-27.37933035	0.298685362	-0.298685362	0.13737604	0.478296961	-0.841102411	0.90121427	0.921677034
Pycrl	0.229499049	-0.602958166	0.373459116	0.185927813	0.09364498	-0.204583731	0.9426245	0.963116338
Guk1	0.459476767	-26.15190497	-0.459476767	0.044556528	0.438698561	-0.635915015	0.92963618	0.948948738
Nipsnap3b	-0.048404333	0.204818723	-0.15641439	-0.884106481	-0.770498073	0.915639297	0.69854721	0.712386348
Efhd2	-0.413531746	0.538317099	-0.124785353	0.197412868	0.093445898	-0.165610022	0.89663829	0.913540052
Cyp2c29	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Uqcrc2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pctp	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pgrmc1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Crat	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc27a5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acsl5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Anxa6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
S100a11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Hsd17b11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Capn2	0	-26.57556902	-26.57556902	0.966310816	0.69281849	0.35971421	#DIV/0!	#DIV/0!
Fkbp1a	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ap2b1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fkbp3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Gimap4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Wdr61	-0.636473097	0.106261626	0.530211471	#DIV/0!	-0.026113323	#DIV/0!	#DIV/0!	#DIV/0!
Casp3	-0.034292772	0.011852242	0.02244053	#DIV/0!	-0.394340579	#DIV/0!	#DIV/0!	#DIV/0!
Atp5o	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Hnrnpd	0.579903164	-0.197392875	-0.382510288	-2.332844414	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Man2b1	0.269929547	0.166505478	-0.436435025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Pellet Fraction

Gene names	**LOG2FC CTL1**	**LOG2FC CTL2**	**LOG2FC CTL3**	**LOG2FC KO1**	**LOG2FC KO2**	**LOG2FC KO3**	**t-test**	**Adj P-value**
Cox7a2l	0.090100831	-0.008972554	-0.081128277	2.642212294	2.704344474	2.572298409	1.89E-06	0.003823918
Egfr	-0.112614371	0.097310145	0.015304226	-1.439565154	-1.397263883	-1.002009396	0.00109378	1.106356313
Glud1	0.016786405	0.050113619	-0.066900024	0.464462374	0.574296612	0.492456493	0.00044037	0.29695465
Fasn	0.320709199	-0.343805616	0.023096418	1.143583493	1.408365627	1.29074099	0.00345908	1.749431405
Cyp2c54	-0.127989675	0.091113266	0.036876409	-1.779937177	-1.347464959	-2.9414017	0.0135797	5.494346465
Cs	-0.328349136	0.299171903	0.029177232	1.120351164	1.373168233	1.432292793	0.00311146	1.049080749
Scd1;Scd3	0.262961064	-0.774095424	0.51113436	1.816198664	1.66186937	1.862047638	0.01107784	3.201494646
Hsd3b3	0.139058641	-0.108439754	-0.030618887	-1.197056231	-1.452706684	-1.464066274	0.00027147	0.068647277
Uqcrc1	0.049320056	-0.00088051	-0.048439546	-0.402156813	-0.304646254	-0.47823831	0.00237077	0.53289532
Gpam	0.138445155	-0.044677522	-0.093767633	0.567917217	0.607046072	0.579101239	0.00122495	0.247807108
Reep6	-0.083426619	-0.112297166	0.195723785	0.807477293	0.762408527	0.827915761	0.00133379	0.245296798
Fmo1	0.133572744	-0.134086396	0.000513652	0.686051063	0.497196895	0.596638259	0.0032963	0.555701452
Cyp2c70	0.18679527	-0.01101135	-0.17578392	-0.997745251	-1.317798078	-1.489763358	0.00206042	0.320632475
Acaa1b	-0.074996546	-0.583662641	0.658659187	1.584140796	1.547283421	1.561838234	0.01228499	1.775180692
Gc	-0.099657511	-0.120113928	0.219771439	1.017703713	0.790557784	0.914146368	0.00209876	0.283052173
Dhrs7b	0.075896591	-0.122679708	0.046783117	1.00222425	0.73988215	0.998929445	0.00102138	0.129140058
Acot4	-0.212814617	-0.244518379	0.457332995	1.300646721	1.133406902	1.128924796	0.00729043	0.867560613

2810007J24Rik	0.04258218	-0.108833501	0.06625132	-1.086254068	-1.066929743	-0.85825848	0.0003889	0.043707467
Cyp4f14	-0.084279339	0.026413886	0.057865453	-0.392812922	-0.530313548	-0.682383949	0.00471696	0.502232549
Fmo5	0.007859695	-0.136230449	0.128370754	0.925370881	0.739130863	0.763862142	0.00109335	0.110591904
Ndrg2	-0.067659829	-0.021323422	0.088983251	-0.718650639	-0.471166871	-0.678955918	0.00225909	0.217625344
Tmem135	-0.100382135	0.003207771	0.097174363	1.206102711	1.154524748	1.465180815	0.00033665	0.03095605
BC089597	-0.198681374	0.06003019	0.138651184	-1.328458415	-0.996384641	-1.56799032	0.00262577	0.230953426
Lrp1	0.099310715	-0.046424035	-0.05288668	-0.36251661	-0.616474751	-0.638555951	0.0060482	0.509813161
Hadh	-0.097991586	0.090523828	0.007467758	0.820642823	0.963379045	0.866438135	0.0002131	0.017244256
Tf	0.06693481	-0.033719576	-0.033215234	1.126054088	0.807714487	1.022371539	0.00058433	0.045465369
Slc25a13	-0.053688717	0.075431162	-0.021742445	-0.399025332	-0.280239254	-0.468434768	0.00472338	0.353903455
Cyp2a12	0.162089651	-0.073068752	-0.089020899	0.405718504	0.411782859	0.535007023	0.00787463	0.568941955
Pex11a	0.010723858	-0.276240423	0.265516565	1.994039295	1.605163946	1.972574425	0.00076301	0.053226815
Got2	-0.298234045	0.215721214	0.082512831	0.612082458	0.938256884	0.898242144	0.01160615	0.782641335
Aldh1a1	-0.184009333	0.109175888	0.074833446	0.448607402	0.454435635	0.509180081	0.00759755	0.49580129
Atp1a1	0.009649533	-0.069141961	0.059492428	-0.646334786	-0.522709339	-0.441227915	0.00158956	0.100489917
Gm20425	-0.017491008	0.025318647	-0.007827639	0.805157343	0.580711801	0.78475983	0.00057617	0.035320724
Baat	-0.180771774	-0.187706806	0.36847858	0.982782283	0.81761805	0.836510515	0.01010734	0.601386705
Slco1a1	-0.204281937	0.096337508	0.107944429	-0.686616095	-1.338476668	-0.660270062	0.02148096	1.241599712
Gba	0.074070997	-0.031722585	-0.042348411	-0.835635555	-1.182313778	-1.051268613	0.00068498	0.038491782
Entpd5	0.172761071	-0.154765238	-0.017995834	1.475553443	1.024024627	1.416527238	0.00156708	0.08568116
Hsd3b5	0.244118824	0.149402769	-0.393521593	-3.282052988	-2.047360622	-3.415769391	0.00367786	0.195797535
Acads	-0.433002955	0.356285047	0.076717908	0.731027473	1.08728394	1.009078186	0.02093418	1.085893555
Hsd17b4	-0.052592486	-0.210515117	0.263107603	0.705523637	0.687355515	0.914778731	0.00808153	0.408723212
Tpp1	-0.009484554	-0.031955468	0.041440022	-0.453824906	-0.491162772	-0.726804485	0.00320581	0.158179105
Cyp2c50	-0.091404541	0.146538003	-0.055133461	-0.903956316	-0.847387483	-2.105502892	0.03679486	1.772285608
Suclg2	-0.023647594	0.065958099	-0.042310504	0.61535718	0.911331293	0.96873224	0.00190512	0.089629087
Abce1	-0.147596862	0.09507375	0.052523112	-0.868319316	-0.487748038	-1.15613971	0.01566521	0.720243511
Abcd1	0.232745194	-0.057005388	-0.175739806	1.059558134	1.033048964	1.420929378	0.00255276	0.114760803
Acadl	-0.276563942	0.200894512	0.07566943	0.598545136	0.9790352	0.910101026	0.01091703	0.480112023
Aldh5a1	-0.310168522	0.084234814	0.225933709	0.817970588	1.081196582	0.986440368	0.00566679	0.243913233
Mdh2	-0.429985122	0.36096979	0.069015332	0.701656018	1.01074153	1.09432446	0.02278407	0.960253692
Cd36	0.526756026	-0.950992353	0.424236326	1.474336216	1.279816573	1.497055808	0.04223009	1.743499325
Slc25a10	-0.128847782	-0.079585863	0.208433645	0.603780775	0.501772083	0.653235924	0.00683074	0.276371711
Acsf2	-0.248122382	0.181097613	0.067024769	0.520448375	0.840086242	0.869753678	0.01199483	0.475795031
Acaca	0.303212508	-0.330820832	0.027608324	0.814345568	0.761220837	1.081565487	0.01320112	0.513574462
Fah	-0.095121582	0.029724275	0.065397307	-0.684045874	-0.420489409	-0.447867043	0.00589955	0.225184736
Cyp2c39	-0.233047891	0.186858489	0.046189402	0.721107349	0.684705658	0.487127129	0.01163845	0.436010813
Lgals1	-0.43260324	-0.132836076	0.565439316	1.679089894	1.612367766	2.054282694	0.0054542	0.200615487
Agxt2	-0.343877693	0.208122567	0.135755126	0.84885716	1.304944699	1.160346892	0.00729916	0.263681997
Cyp2c44	-0.041456934	-0.015471229	0.056928163	-1.5738252	-0.80490131	-2.000073337	0.01415644	0.502429301
Ndufb9	0.075990441	-0.016305756	-0.059684686	-0.489722119	-0.262458621	-0.382836982	0.00792048	0.276260983
Dmgdh	-0.067514789	0.078090929	-0.010576139	0.457802623	0.763007426	0.535755688	0.00438293	0.150282584
Adh4	-0.187722454	0.123778818	0.063943636	-0.667851002	-1.054430177	-1.248656836	0.00716172	0.241469398
Vwa8	0.192710342	-0.18689144	-0.005818902	0.377164554	0.632371846	0.598899254	0.01682592	0.558013791
Ugdh	-0.178849338	0.196387781	-0.017538443	0.533432829	0.893651456	0.799729002	0.00835568	0.272637798
Acp5	0.031423362	-0.02976863	-0.001654732	-0.676076117	-0.860667368	-0.511375481	0.0026322	0.084522998
Rab9a;Rab9	0.130856433	0.010039458	-0.140895891	-0.629659495	-0.407016401	-0.635958054	0.00687487	0.217310244
Ephx1	0.014550186	-0.003326977	-0.011223209	0.804057763	0.557404379	0.827289896	0.00109106	0.033957225
Acadm	-0.219707636	0.078241738	0.141465898	0.480169999	0.795135241	0.784121389	0.01064678	0.32634007
Ndufs1	0.072977487	0.019810756	-0.092788243	-0.503506776	-0.330633498	-0.433160359	0.00381136	0.115080231
Nipsnap3b	-0.004745779	-0.19813302	0.202878798	0.64123368	0.912757274	0.783031357	0.00508738	0.15134956
Ndufa6	0.046524753	0.024416442	-0.070941195	-0.713305938	-0.496230509	-0.570813896	0.00125649	0.03683888
Abhd3	0.132214063	-0.016871378	-0.115342685	0.876538803	0.620545456	0.684137076	0.00231217	0.066821603
Abcb10	-0.031296531	0.043811307	-0.012514775	-0.462747273	-0.327873525	-0.415054448	0.00090536	0.025796242
Hpd	-0.227096907	0.069544295	0.157552611	-0.983068303	-0.493944279	-0.747358932	0.01545067	0.43412098
Cyp4v2	-0.080841744	0.09104104	-0.010199296	-0.512271886	-0.398277725	-0.86313017	0.01638488	0.454063032
Uqcrc2	0.061435485	0.007749996	-0.069185481	-0.472018044	-0.225046626	-0.524386404	0.01509188	0.412579342
Ttr	-0.401642197	0.193354778	0.208287419	0.833968436	0.92218838	0.923135096	0.01170203	0.315642633
Hmgcs2	-0.218086347	0.065555371	0.152530976	0.577339654	0.936496502	0.982991792	0.00809279	0.215417356
Ndufa10	0.097544825	-0.025197373	-0.072347452	-0.472081436	-0.313720237	-0.435155969	0.00427889	0.112418092
Lpcat3	0.015130924	-0.179067277	0.163936354	0.580335192	0.361919652	0.486098832	0.01555346	0.403392857
Rtn4	0.205919066	-0.255821132	0.049902066	0.857952746	0.517910389	0.869899804	0.01364972	0.349536475
Hspd1	-0.454962921	0.305052141	0.14991078	0.66429445	1.022919296	0.789495517	0.03157724	0.79850951
P4hb	-0.057827694	-0.053595859	0.111423553	0.79687709	0.432947244	0.74135682	0.00648164	0.161880968
Asgr1	-0.063039535	0.05374192	0.009297614	-0.715438197	-0.649154858	-0.911417539	0.00090205	0.022254172
Asgr2	0.036256703	0.092362004	-0.128618707	-0.870449047	-0.750202623	-1.109888721	0.00187877	0.0457921
Mttp	0.043300326	-0.178321456	0.13502113	0.88031059	0.479931304	0.825975096	0.00953356	0.229599894
Aldh2	-0.477649718	0.345253301	0.132396418	0.851310065	1.232626676	0.79464136	0.02732137	0.65024869
Hibch	-0.229835481	0.091481343	0.138354138	0.662407424	0.859150454	0.631902695	0.0061568	0.144828021
Scarb2	0.164602462	0.005590078	-0.17019254	-0.645850201	-0.886264334	-0.518939584	0.0091481	0.212719701
Gstk1	-0.257343619	-0.132207016	0.389550635	0.972570092	0.703151651	0.681566547	0.02303779	0.529607427
Pafah2	-0.092224891	-0.109243673	0.201468564	0.554886331	0.582763397	0.804619293	0.00721398	0.163976278
Ndufc2	0.023263792	0.06858658	-0.091850372	-0.65169919	-0.362201043	-0.37086621	0.01227191	0.275845267
Acox2	0.044899812	-0.33015248	0.285252668	0.54981166	0.689006719	0.734912962	0.02470301	0.549166932
Gnb2	0.047050553	-0.075863564	0.028813011	-0.311685434	-0.465967129	-0.302939501	0.005285	0.116212479
Cyp1a2	-0.07077284	0.192399049	-0.121626209	-0.427167452	-0.671971534	-1.122075519	0.030433	0.661999552
Pdcd6ip	0.265928954	-0.00450328	-0.261425674	-1.182282123	-1.576613391	-0.66065229	0.02035366	0.438036782
Mif	0.004538529	-0.067744051	0.063205523	-0.984817887	-0.549494027	-0.825357794	0.00405694	0.086391371
A1cf	-0.070065533	0.03077135	0.039294183	0.485904039	0.254705861	0.348764691	0.0086911	0.183146867
Cml5	0.525386538	-0.3990618	-0.126324738	1.177520675	0.995094411	1.126029245	0.0170584	0.355764252
Ptges3	-0.059046838	0.178535861	-0.119489023	-0.629017807	-0.653859152	-0.807999461	0.00284819	0.058794738
Acaa1a	-0.281333985	-0.189368774	0.470702759	0.779015916	0.868608907	1.006540081	0.02280519	0.466009052
Ces2e	0.066321827	-0.09698244	0.030660614	1.260027973	0.848804079	0.972116668	0.00145221	0.029378156
Cyp7b1	-0.097273139	0.291044152	-0.193771014	-0.912727995	-1.115904511	-1.112719886	0.00299767	0.06004233
Ttc38	-0.160775675	-0.013579614	0.17435529	-1.156808707	-0.574799562	-0.625258417	0.02007481	0.398150316
Ces1f	0.155386335	-0.303681053	0.148294718	0.756483002	0.524341684	0.471661794	0.02901908	0.569957189
Selenbp2	0.307232591	0.189811025	-0.497043615	-2.811467878	-2.832907144	-2.222842946	0.00121831	0.023698524
Sephs2	0.128525567	-0.115541786	-0.012983781	-0.926999048	-0.528595218	-0.624192197	0.00762978	0.147000483
Atp11c	0.004228947	0.036765143	-0.04099409	-0.401310134	-0.923843489	-0.798472549	0.01125396	0.21478067
Vamp8	0.071433575	0.014100597	-0.085534172	-0.624495189	-0.694968774	-0.438403584	0.00278087	0.052576691
Dhrs4	-0.135928747	-0.154511403	0.29044015	0.920287625	0.788039827	1.299126319	0.00898229	0.168251509
Pcx;Pc	0.026000466	-0.147973175	0.121972709	0.612707737	1.061323289	0.771230421	0.00601468	0.111630266
Plxnb2	0.076777979	-0.122378163	0.045600184	-0.478791353	-0.636486453	-0.522010297	0.00216501	0.039816422
Pnp	0.099325394	0.17175607	-0.271081463	-1.037008845	-0.957125868	-1.265002001	0.00277253	0.050530045
Ndufv2	0.119888085	-0.053813761	-0.066074323	-0.531180446	-0.255436171	-0.479365752	0.01525743	0.275587231
Aspdh	-0.230022123	0.110172488	0.119849635	-1.182296571	-0.753475902	-0.688958239	0.01052939	0.188504018
Eif1;Eif1b	0.177078819	-0.226699593	0.049620774	-0.839106365	-0.476130967	-1.174345816	0.02393974	0.424825413
H2-Q10	-0.046670572	0.054360563	-0.007689992	0.496831243	0.547802341	0.713349696	0.00121853	0.021435555
Uqcrfs1	-0.024921143	0.040458188	-0.015537045	-0.507850117	-0.281136264	-0.343550938	0.00590478	0.102977372
Aadac	0.19190939	-0.122240287	-0.069669102	-0.537851485	-0.735374812	-0.584191762	0.00557464	0.096388862
Hsd17b12	0.066915889	-0.041923769	-0.02499212	0.769797569	0.44652568	0.789516832	0.00452644	0.077601639
Dld	-0.125929156	-0.098835144	0.2247643	0.394025829	0.659542664	0.416855773	0.0254959	0.433430328
Dstn	-0.127646512	0.065174646	0.062471866	-0.54863423	-0.622506673	-0.433787594	0.00314353	0.0529947
Ugt3a1	0.353260843	-0.383360146	0.030099304	-2.10691146	-2.407988608	-2.122670185	0.00070425	0.011774324
Hsdl2	0.106651352	-0.02904112	-0.077610232	0.299388959	0.436368582	0.512981422	0.00751493	0.124612288
Ttc39c	0.064680719	0.320421682	-0.385102401	-2.487911409	-2.131252762	-1.713373636	0.00226908	0.037319869
Akr1c13	-0.164847324	0.049529272	0.115318052	-0.595106387	-0.583694616	-0.246597189	0.0288042	0.469926572
Rdx	0.066514789	0.041780334	-0.108295123	-0.617386679	-0.618171296	-0.833823405	0.00158301	0.025619369
Amacr	-0.174443757	-0.064267179	0.238710936	0.638135035	0.403021409	0.54437977	0.02005118	0.321932875
Ncl	-0.066300094	0.003901215	0.062398879	-0.187456662	-0.223907249	-0.341274628	0.01349897	0.215026869
Rab14	0.08958028	-0.035381445	-0.054198835	-0.333625944	-0.602118271	-0.499617164	0.00609458	0.09632286
Gpt	-0.064188067	0.04804819	0.016139877	-0.677835719	-0.486116061	-0.288866622	0.01444878	0.226588249
Agmat	-0.337230266	0.126879861	0.210350406	0.679929536	1.21441888	0.918100194	0.01515376	0.235815881
Gpd2	-0.10183521	-0.085960046	0.187795255	0.592600844	0.358230456	0.749191496	0.01841232	0.284336778
Pa2g4	0.05720707	-0.048200235	-0.009006835	-0.250599745	-0.334345149	-0.506481653	0.01106124	0.169521893
Acot8	-0.058307847	-0.18772525	0.246033097	1.312770999	1.089712129	1.698788702	0.00338478	0.051484225
Mecr	-0.842015772	0.606863868	0.235151904	1.328702599	1.988518111	1.596775126	0.02606324	0.393477163
Ndufs7	0.118025414	-0.087094712	-0.030930701	-0.6910798	-0.2542329	-0.593437708	0.02451655	0.367385033
Gamt	-0.124594327	0.122391825	0.002202502	-0.722359977	-0.884108539	-0.43367613	0.0104992	0.156175654
Aldh3a2	0.050617712	-0.180698874	0.130081162	1.311686395	1.041287375	1.653468194	0.00262217	0.038720029
Akr1c6	-0.255100844	0.198483841	0.056617004	-0.846070674	-0.70115493	-0.504990858	0.01474223	0.216112479
Ogdh	0.192812432	-0.233553236	0.040740804	0.506174281	0.434138665	0.415075268	0.02411924	0.351030302
Hacl1	-0.114479769	-0.139102269	0.253582037	0.514108129	0.683857873	0.380655836	0.02704794	0.390842698

Eif4a1	0.071256475	0.036432855	-0.10768933	-0.464827866	-0.383711925	-0.485644366	0.00212217	0.030447849
Acsl5	0.113569046	-0.167086282	0.053517236	0.667398732	0.441998614	0.89353026	0.012791	0.182226708
Epb41l5	0.10788451	0.028730443	-0.136614953	-0.506016726	-0.570838927	-0.572156434	0.0018692	0.026443271
Acot12	-0.061777697	-0.212448557	0.274226254	0.55205415	0.603695134	0.695508514	0.01463223	0.205562476
Acat1	-0.38986178	0.102543263	0.287318517	0.455777611	0.887370261	0.869024684	0.04021751	0.561103596
Ndufb6	-0.027296634	0.042287999	-0.014991365	-0.522307952	-0.213339093	-0.466297792	0.01470533	0.203759448
Nudt12	0.207878509	-0.365687974	0.157809465	1.148725535	0.759728641	0.987473613	0.0109678	0.150937878
Myo1b	-0.10291961	0.116726847	-0.013807237	-0.402313878	-0.515468893	-0.449243931	0.00314644	0.043008465
Aco2	-0.308756089	0.210443958	0.098312131	0.571091771	1.110656962	1.141591196	0.01801939	0.244652578
Glyat	-0.112492713	0.242130248	-0.129637535	0.322730505	0.67175246	0.613079279	0.02985669	0.402667261
Cyp2a5;Cyp2a4	-0.330894208	0.600836186	-0.269941979	0.841977019	1.217029003	0.873932845	0.03926007	0.525980918
Pklr	0.090055074	0.145221675	-0.235276749	0.4040187	0.841772354	0.748061977	0.02035238	0.270874146
Ndufv1	0.114336089	-0.028159186	-0.086176902	-0.609809787	-0.285501822	-0.434306552	0.01625296	0.214900231
Tmem109	-0.115210378	-0.190624605	0.305834983	0.715376637	0.567737039	0.614783726	0.01692949	0.222391893
Tmem43	0.193682863	-0.064647945	-0.129034919	1.218987873	0.836636243	1.510878431	0.00555908	0.072554937
Prdx3	-0.198749927	0.219271013	-0.020521086	0.738325729	1.390535037	1.386064315	0.00916943	0.118908663
Colgalt1	0.252395938	-0.345149091	0.092753154	0.918792599	0.77508123	1.19951766	0.01143895	0.147394876
Idh2	-0.406888143	0.371607068	0.035281075	0.868176028	1.223883739	1.595500392	0.01626521	0.208256472
Ahsg	-0.05557035	0.025509271	0.030061079	-0.300669793	-0.324149311	-0.45604836	0.00295974	0.037657528
Ldhd	-0.065222955	0.298830301	-0.233607345	0.832080787	1.517546311	1.213011715	0.00934991	0.118217857
Inmt	-0.077990072	-0.049222794	0.127212866	-1.087297562	-0.481073021	-0.378983453	0.04782691	0.600955569
Aldh7a1	-0.291948705	0.147507917	0.144440788	0.467912322	0.895061153	0.547506699	0.03151812	0.393587358
Ndufs8	0.108244477	-0.053547469	-0.054697007	-0.450200748	-0.185200067	-0.433363638	0.02454364	0.304612107
Maoa	0.062089858	-0.012940526	-0.049149332	0.804760374	0.477560339	0.768699309	0.00325751	0.040182623
Sucla2	-0.40492878	0.273973476	0.130955304	0.460221028	0.79172876	0.89789858	0.04307699	0.528150009
Fitm2	0.035071942	-0.175772363	0.140700422	0.70405896	0.592232477	0.978347969	0.00681953	0.083107902
Apex1	-0.014620152	-0.041665712	0.056285864	-0.662242078	-0.510192739	-0.684642168	0.00056884	0.006890818
Echdc2	-0.031129986	-0.011456153	0.042586139	0.390176413	0.86858427	0.770254985	0.0101483	0.122202499
Vcp	-0.105455045	-0.03240595	0.137860995	0.289224256	0.28849204	0.21431395	0.02575722	0.308324623
Atp1b1	-0.112154876	-0.044036092	0.156190968	-0.828018107	-0.490432582	-0.496053785	0.01173888	0.139692662
Rps23	0.025498552	0.076630066	-0.102128619	-0.224866129	-0.252046969	-0.316903998	0.0114388	0.135325683
Acad9	0.13384764	-0.046652827	-0.087194813	-0.346363789	-0.246061538	-0.329272141	0.01467758	0.172632214
Cyb5r3	0.177654253	-0.140371119	-0.037283134	0.467533568	0.25409474	0.418281193	0.02882546	0.337074545
Pex1	-0.051381296	0.006052646	0.04532865	0.493094587	0.363589883	0.666320016	0.00528181	0.061408681
Vimp	-0.121890017	0.082908096	0.038981921	-0.320765393	-0.578347176	-0.324902957	0.01803508	0.208485552
Dhrs7	0.052255986	-0.104104576	0.05184859	0.830053822	0.42953765	0.584295353	0.0085661	0.098461488
Etfb	-0.240097667	0.198493141	0.041604526	0.379651329	0.839707951	0.811186044	0.0261852	0.299280549
D10Jhu81e	-0.448006225	0.240448676	0.207557548	0.468501176	0.921481982	0.998587742	0.0460219	0.523046685
Iars2	-0.65458318	0.144622751	0.50996043	0.886261432	1.094705948	1.076542928	0.04369104	0.493782
Pgrmc2	0.070226673	-0.140704971	0.070478298	0.766614991	0.646614178	1.132426703	0.00637139	0.071607379
Sfxn1	-0.009710082	-0.018475324	0.028185406	-0.327743889	-0.126851673	-0.373343085	0.02313844	0.25861356
Me1	-0.135681568	0.260949867	-0.125268298	0.954828823	0.867911818	1.447770834	0.00808201	0.08983461
Akr1c14	0.009177686	0.255534491	-0.264712177	-1.079021212	-0.683130585	-0.810746505	0.01075254	0.118865482
Por	0.005563408	-0.034754994	0.029191586	-0.146740425	-0.393535852	-0.436465725	0.02419076	0.265966861
Snx3	-0.148630295	0.150564781	-0.001934486	-0.399496516	-0.557204623	-0.355071111	0.01452184	0.15879831
Cml1	-0.288506934	0.184381613	0.104125321	-0.657298363	-0.423913446	-0.969338433	0.03365464	0.36603943
Pex16	-0.015293682	0.006331276	0.008962406	0.696206702	0.670096267	0.900658196	0.00049939	0.005402513
Tmem120a	-0.093293315	-0.094041835	0.187335151	0.987614012	0.470972579	0.996794626	0.01430483	0.153929082
Ube2n	0.166664093	0.071992956	-0.238657049	-0.873105959	-0.881203821	-0.467463032	0.01563278	0.167328642
Hmgcl	-0.155765924	0.002196768	0.153569156	0.452380797	0.678863708	0.701046647	0.00693564	0.07384633
Suclg1	-0.04659738	0.004468116	0.042129264	0.384144109	0.701043254	0.789856362	0.00765837	0.081114524
Hsp90ab1	0.092548107	0.079433792	-0.1719819	-0.532634078	-0.3984836	-0.420214053	0.00922341	0.097182046
Ndufa5	0.103282586	-0.034861345	-0.068421241	-0.52376342	-0.379513806	-0.328026106	0.00644643	0.067570594
Etfa	-0.312428536	0.274227902	0.038200634	0.459879078	0.854920382	0.58463918	0.0374305	0.390319103
Tuba4a	-0.005906136	0.028499225	-0.022593089	-0.71930689	-0.666316944	-0.558232299	0.00020019	0.00207686
Gsdmdc1	0.226845711	0.074752016	-0.301597727	-1.002175552	-1.454507916	-0.902165024	0.00840782	0.086780707
C8a	-0.231089059	0.19804176	0.033047299	1.244216182	0.576209357	1.176833253	0.01541153	0.158261565
Acly	0.135606114	-0.41099048	0.275384366	0.517358369	1.080282758	0.854843111	0.03706061	0.378654578
Pex3	-0.05637103	0.057724217	-0.001353187	0.595135112	0.618558761	0.754294789	0.00038609	0.003924917
Erp29	0.250813877	-0.15219017	-0.098623706	0.629537468	0.289607229	0.56455942	0.03916619	0.396166052
Acaa2	-0.368599328	0.103249164	0.265350164	0.360520981	0.650355224	0.67613956	0.05937269	0.597566947
Cyp2c38	-0.021915737	-0.022157976	0.044073713	1.134795798	0.890664462	0.69786439	0.00210748	0.021106059
Scp2	-0.257452969	-0.125471023	0.382923992	0.599384443	0.524342241	0.867185542	0.03994388	0.398061386
Acot13	-0.100192818	0.111871027	-0.011678209	0.642165821	1.194463438	1.052353345	0.0054988	0.054529781
Aldh6a1	-0.378776858	0.288338637	0.090438221	0.58831415	1.041970767	0.603751517	0.0395883	0.39066894
Cyp2c37	-0.122395755	-0.016708883	0.139104638	-0.983865155	-1.334295548	#DIV/0!	#DIV/0!	#DIV/0!
Rmdn3	-0.042138407	0.097375154	-0.055236746	0.315280184	0.170943188	0.348633902	0.01907458	0.186414822
Echs1	-0.322740158	0.160151502	0.162588656	0.471331667	1.022855067	0.726762484	0.03095537	0.301070688
Abca6	-0.131544491	0.043786471	0.08775802	-0.249270623	-0.492543209	-0.470911666	0.01696907	0.164250828
Atp5h;Gm10250	-0.042423215	0.056176413	-0.013753198	-0.387262419	-0.251700558	-0.435752094	0.00455537	0.043883398
Tm9sf2	0.120500262	-0.123785393	0.003285131	-0.491067074	-0.670761091	-0.346258894	0.01283115	0.123020948
Rab18	0.056251109	0.043411537	-0.099662645	0.774606673	0.382320225	0.936951913	0.01538937	0.146852296
Pigr	0.032421402	-0.062177562	0.02975616	-0.594452647	-0.349063764	-0.749152829	0.00944772	0.089731116
C3	-0.085398601	0.016540512	0.068858089	0.302904495	0.240728488	0.310790427	0.00483817	0.045736532
Amdhd1	-0.126560003	-0.071427817	0.19798782	-1.210220983	-0.435564576	-0.62985219	0.04019057	0.37816522
Gpt2	-0.136487627	0.292760422	-0.156272795	0.724566756	1.175366224	1.47392647	0.01280182	0.11989849
Apmap	0.005959799	-0.042228379	0.03626858	0.417227061	0.333149729	0.558063005	0.00328789	0.030651585
Acad11	0.083044846	-0.248145663	0.165100817	0.316365352	0.441448271	0.532722063	0.03801364	0.352759621
Mpst	-0.245353416	0.250681198	-0.005327783	0.858787599	1.069740529	0.879619275	0.00408258	0.037712586
Uqcrb	-0.063077077	0.008443218	0.054633859	-0.580239306	-0.210117503	-0.556419911	0.02258618	0.207690218
Rpl38	0.115321228	-0.032283253	-0.083037975	-0.23014803	-0.338565176	-0.407136117	0.01445707	0.13233781
Pacsin3	-0.152037692	0.23588738	-0.083849688	-0.699186564	-0.576883258	-0.592401783	0.00771337	0.070288913
Atp5a1	-0.027441606	0.021299555	0.006142051	-0.328126752	-0.22388275	-0.269926175	0.00120656	0.010945621
Tex264	-0.25605809	-0.002936618	0.258994707	0.48410199	0.565460649	0.554169043	0.02393325	0.216147145
Ndufs3	0.213452395	-0.046509298	-0.166943097	-0.593027819	-0.397583847	-0.524306013	0.01602662	0.144097105
Adh5	-0.070516926	0.097944584	-0.027427659	-0.778745504	-0.597409172	-0.312692984	0.01770074	0.15844514
Hint2	-0.298475743	0.179860891	0.118614852	0.332829204	0.668499193	0.664363503	0.04114884	0.366714081
Hpx	0.029753045	-0.001921401	-0.027831644	0.482979303	0.203381002	0.54636021	0.01827007	0.162106842
Ecsit	0.314104166	-0.09036921	-0.223734956	-0.571803317	-0.811538049	-0.863151816	0.01548898	0.136830561
Tcirg1	-0.025009663	0.129409404	-0.104399741	-0.272832346	-0.722609397	-0.766914093	0.02694715	0.237017793
Pfn1	0.000670327	0.140658977	-0.141329304	-0.48827555	-0.437121605	-0.223158252	0.02911219	0.254952193
Mrpl37	0.207300504	-0.07783453	-0.129465974	-0.431161524	-0.424904819	-0.794382352	0.02678745	0.233581926
Selenbp1	0.06122435	0.125639436	-0.186863786	-0.70259654	-0.719844527	-0.557215305	0.00367291	0.031889649
Gstp1	-0.383794623	0.32197909	0.061815533	-1.173931104	-0.897150454	-0.611350267	0.02708087	0.234122246
Akr1d1	-0.255498131	0.040569842	0.214928289	-1.056208323	-0.344598884	-0.834004174	0.04126416	0.355222914
Mrc1	0.048537606	-0.020572989	-0.027964617	-0.260473861	-0.38857357	-0.26002697	0.00353367	0.030290734
Hibadh	-0.366449277	0.211477243	0.154972034	0.537099651	0.918979623	0.478749845	0.04860158	0.414856523
Cd82	-0.0981971	0.174287048	-0.076089949	-0.619031749	-0.818772024	-0.697436858	0.00246617	0.020962438
Pah	-0.079043303	-0.080412638	0.159455941	-0.571244902	-0.681705569	-0.432758534	0.00638374	0.054034771
Ces1e	0.154089454	-0.427811269	0.273721815	0.410200244	0.894623117	0.660340084	0.06398175	0.539312872
Acacb	0.427473551	-0.411621237	-0.015852314	0.842446794	0.544836239	1.198819505	0.04858358	0.407819874
Ndufa8	0.0606861	-0.106083487	0.045397387	-0.687127062	-0.332790904	-0.590692439	0.01054396	0.088142245
Hspe1	-0.615574911	0.537896372	0.077678539	0.718124292	1.091530805	0.736423091	0.07598513	0.63258406
Pdia5	0.21309745	-0.078283922	-0.134813529	-0.310166383	-0.483462489	-0.496068549	0.02523503	0.209223209
Ephx2	-0.029741411	-0.232787649	0.26252906	0.495434842	0.486503637	0.439842737	0.03069409	0.253445518
Aqp1	0.275041847	-0.166890583	-0.108151264	-0.837902042	-0.570223258	-0.588883609	0.01512238	0.124360023
Slc22a30;Slc22a28	-0.181547566	0.252864766	-0.0713172	-0.596844877	-0.480661881	-0.572502234	0.01520543	0.124536756
Arpc2	0.189013378	-0.002429325	-0.186584052	-0.411934378	-0.520098226	-0.51587331	0.01335327	0.108926044
Mrpl17	0.156052308	-0.018745007	-0.137307301	-0.825664582	-0.57228431	-1.090552523	0.00853806	0.069367485
Elovl5	-0.265706446	-0.29360564	0.559312086	1.102237736	0.912875846	1.423267545	0.02243623	0.181553946
Mthfd1	-0.209044524	0.054987203	0.154057322	-0.446451235	-0.446534397	-0.530201901	0.01326886	0.106943816
Atp6v0d1	-0.024847919	0.095972559	-0.07112464	-0.30541561	-0.620604333	-0.260142097	0.0331176	0.265860748
Pdxk	-0.073231889	0.087037758	-0.013805869	-1.170211347	-0.73945683	-0.651328639	0.00692417	0.055366021
Pgrmc1	-0.189644034	0.090338527	0.099305507	0.379022204	0.394652372	0.55351482	0.01585208	0.126254922
Ctnnd1	0.018342243	0.025932687	-0.04427493	-0.564427478	-0.710103231	-0.421923927	0.00278259	0.022075222
Cd1d1;Cd1d2	0.131707285	-0.013930254	-0.117777031	-0.60593972	-0.917971128	-0.696995932	0.0032487	0.025672346
0610011F06Rik	0.08243845	-0.080212813	-0.002225637	-0.971461478	-1.145648996	-0.304487281	0.03631171	0.285831089
Htatip2	-0.209090747	-0.051062861	0.260153608	0.6578474	0.9772138	1.449211408	0.01852542	0.145259359
Gpd1	-0.319419312	0.040727174	0.278692138	0.628365407	0.321812638	0.858234343	0.06098859	0.476370324
Alcam	-0.063902399	-0.043682288	0.107584688	-0.305572368	-0.765204632	-0.968364903	0.02877898	0.223922566
Ndufa9	0.215313818	-0.112321857	-0.102991961	-0.502599907	-0.295074152	-0.490822739	0.02773	0.214934069
Pbld2	-0.238351548	0.113181186	0.125170361	-0.607909211	-0.39641956	-0.302823578	0.04350217	0.335896553
Ca14	0.383930071	-0.498601545	0.114671473	-1.174838681	-0.938567706	-1.723039741	0.02160763	0.166206233

Cox6b1	0.066710016	-0.00305698	-0.063653037	-0.600446651	-0.296017866	-0.420879997	0.0102457	0.078511588
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Kdsr	0.349457497	-0.249673114	-0.099784383	0.83344292	0.695914953	1.303905583	0.02142465	0.162940094
Parl	-0.018577784	-0.085402253	0.103980038	-0.291375686	-0.336435287	-0.404608379	0.00593849	0.044994617
Fkbp2	0.147980832	-0.123101161	-0.024879671	0.971390666	0.612298579	0.408877369	0.02199121	0.166000838
Hp	0.030944496	0.055744031	-0.086688527	1.105074481	0.473845906	1.087935558	0.01381723	0.10391176
Hsp90aa1	-0.033582264	0.109132863	-0.0755506	-0.422695028	-0.356218313	-0.248682481	0.0105039	0.078701441
Tmem30a	-0.0756072	0.200954524	-0.125347325	-0.662170194	-0.934948735	-0.606921768	0.00688201	0.051373824
Eif4b	-0.11543863	0.050355539	0.065083091	-0.505248583	-0.201686674	-0.714336152	0.04127173	0.306958498
Pex13	-0.059559839	0.092433674	-0.032873834	0.791689024	0.398853756	0.613115596	0.00807781	0.059858616
Gstt2	0.05445089	-0.265658597	0.211207707	-0.997392461	-0.668368557	-0.770712682	0.00892152	0.065869434
Gusb	0.016736697	-0.269115266	0.252378569	0.811956806	0.317805331	0.822646724	0.04424838	0.325507138
Serpinc1	-0.097690962	-0.004959751	0.102650713	0.514382741	0.304505265	0.285063591	0.01701631	0.124724601
Hsd17b6	0.189405125	-0.608019759	0.418614635	-1.070790156	-0.96419788	-1.87585592	0.03707685	0.270781474
Hoga1	-0.224823742	0.026509457	0.198314285	0.228531512	0.586249686	0.480597543	0.05640441	0.410453676
Mdh1	-0.20298437	0.101727684	0.101256686	-0.7094446	-0.360255583	-0.255770273	0.06072767	0.440330019
Acox3	-0.060612901	-0.16295755	0.22357045	0.793425125	0.768190647	0.880316707	0.00250509	0.018099254
Ndufs2	0.220791931	-0.027721725	-0.193070207	-0.47561007	-0.35364546	-0.485119167	0.02638636	0.18996302
Txndc12	0.169952956	-0.20065395	0.030700995	0.760800686	0.364240941	0.828830059	0.0226875	0.162754625
Plin2	-0.245762765	-0.377812072	0.623574838	2.146730086	1.336193804	2.312974982	0.01137178	0.081290111
Atp5o	0.16836918	-0.099527284	-0.068841896	-0.447837178	-0.31613702	-0.4547793	0.01331095	0.094817075
Gnas	0.280231873	-0.127738512	-0.152493361	-0.707460611	-0.663782273	-0.481343875	0.01686138	0.119686236
Mrpl9	0.077854167	-0.053732685	-0.024121482	-0.775605754	-0.423301942	-0.899389274	0.00914865	0.064712281
D17Wsu104e	0.248521433	-0.2874932	0.038971767	0.6632719	0.348592749	0.410477862	0.06087494	0.429094087
Rps17	0.101908233	-0.041245948	-0.060662285	-0.133662134	-0.356132626	-0.269389671	0.03749042	0.263344194
Cyp4f15	0.109826289	-0.289771921	0.179945633	-0.507264733	-0.502162211	-0.821521617	0.02772071	0.194044995
C8g	0.005264276	-0.067727657	0.062463381	0.844149379	0.533483806	0.86827325	0.00279977	0.019530793
Tbrg4	-0.210952198	-0.258352934	0.469305133	0.70293234	0.754188434	0.673580801	0.03968473	0.275883876
Ghitm	0.008072811	0.09210872	-0.100181531	0.253399542	0.356384638	0.388512101	0.00849804	0.058875092
Ndufa12	0.00675911	0.04591446	-0.052673569	-0.647390921	-0.299278497	-0.342005734	0.0192452	0.132877274
Sec23a	-0.178737039	0.025633762	0.153103277	-0.198281401	-0.377058268	-0.595929807	0.06009767	0.413529185
Hax1	-0.063274335	-0.026235735	0.08951007	-0.438505277	-0.541112817	-0.500875462	0.00084471	0.005792728
Derl1	0.123313341	0.048983667	-0.172297008	0.559784252	0.244353427	0.381495455	0.03611175	0.246804301
Tor1b	-0.070499711	0.314539941	-0.244040231	0.38864704	0.965287571	0.822312875	0.03876307	0.264032603
Vapb	-0.128355808	0.077177601	0.051178206	0.423130515	0.288755916	0.603871312	0.01722855	0.116957598
Slc25a11	0.002475654	0.056846581	-0.059322235	-0.345667199	-0.156194153	-0.185283829	0.02782736	0.188276757
H6pd	0.082694442	-0.201649481	0.118955039	0.592865087	0.236623183	0.351753973	0.05418208	0.365367828
Ero1l	-0.053944655	-0.110432379	0.164377034	0.755038083	0.394953278	0.593974961	0.01216528	0.081761987
Dlst	0.144113212	-0.332008516	0.187895303	0.331593429	0.595223073	0.465726746	0.06427158	0.430534478
Ces1	0.140383673	-0.120058377	-0.020325296	0.749714296	0.501274769	0.26418759	0.03389777	0.226320742
Enpp1	0.228582705	0.057798777	-0.286381482	-0.85627892	-1.102646193	-0.871317737	0.00528547	0.035172707
Cyp17a1	-0.098760696	-0.297045292	0.395805988	1.502778834	2.505468844	2.610478992	0.00570153	0.037817054
Pon3	-0.031709372	-0.029022999	0.060732371	0.379408861	0.108578573	0.375415749	0.03834825	0.253524512
Acad8	0.007659564	-0.049057949	0.041398385	0.265952818	0.589389325	0.750677576	0.0209524	0.138067436
Agpat2	0.147530641	-0.149912312	0.002381671	0.487139742	0.260389987	0.228565404	0.05138967	0.337536696
Apoe	-0.176165021	0.073974421	0.1021906	0.46251841	0.407703989	0.862174344	0.02652952	0.17368682
Cyc1	-0.064154342	0.023996293	0.040158049	-0.332899162	-0.171619559	-0.379190433	0.01411863	0.092135419
Abhd14b	-0.142654794	0.12574969	0.016905104	-0.509224005	-0.318175132	-0.234986425	0.03462388	0.225222195
Abcb11	0.454797396	-0.300044002	-0.154753394	-1.327159491	-0.984783372	-0.622283325	0.03368887	0.218437775
Ass1;Gm5424	0.478774621	-0.294774238	-0.184000383	-1.321709209	-0.753824323	-1.053284294	0.02332516	0.150756571
Hnrnpk;Gm7964	-0.089908295	0.125337635	-0.035429341	-0.339490556	-0.297725033	-0.377175143	0.00786436	0.050667535
Ppp1r3b	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc2a2	-0.095247603	-0.144575583	0.239823187	-0.686682799	-0.52385526	-0.565007654	0.01047208	0.067041183
Aifm1	-0.09779476	0.012918253	0.084876507	-0.191558665	-0.120234184	-0.267624285	0.0469913	0.299884569
Comtd1	0.184206602	0.049338109	-0.233544711	0.941544511	0.388398523	0.747268196	0.02720428	0.173063727
Ddx5	0.075784608	0.067372479	-0.143157087	-0.254132648	-0.353734029	-0.313119423	0.01647319	0.104467885
Cp	0.234850245	0.007630911	-0.242481156	0.553468957	0.34607401	0.557110304	0.03474756	0.219669723
Atl3	0.217295138	-0.19283757	-0.024457568	0.54663387	0.182569664	0.494360019	0.06833421	0.430654517
Acsl1	0.025007912	-0.073155138	0.048147226	-0.152431048	-0.062777057	-0.217214651	0.06845831	0.430096776
Ces1d	0.265625297	-0.352881354	0.087256057	0.815714178	0.459981334	0.43176247	0.06198308	0.38820984
Ugt3a2	0.185214576	-0.098357182	-0.086857394	-0.248437267	-0.495168926	-0.419208947	0.03031623	0.189289326
Ndufb7	0.113213741	-0.054211164	-0.059002577	-0.315984291	-0.283386358	-0.620564199	0.02857026	0.177838907
Hagh	-0.205677271	0.014891543	0.190785729	-0.631360312	-0.232699152	-0.552430111	0.04776672	0.296417423
Tufm;Gm9755	-0.121594072	0.101634334	0.019959738	0.2036425	0.712715433	0.53363311	0.04113868	0.254506294
Pex6	0.24255557	-0.100946174	-0.141609396	0.499074481	0.211321193	0.678620625	0.06434639	0.396868108
Slc27a4	0.215173755	-0.165125959	-0.050047796	0.814778441	0.290563194	0.839725273	0.03745902	0.230333096
Pls3	0.034271028	0.025189351	-0.05946038	-0.421513704	-0.510089195	-0.320731876	0.00258321	0.015835886
Mlec	0.061915578	0.04792959	-0.109845168	0.383204476	0.225623187	0.646950286	0.03594019	0.21965863
Mut	-0.132191578	0.167165132	-0.034973554	0.20584068	0.643482743	0.555870866	0.04303742	0.262243084
Aldh1a7	-0.049219158	0.184799424	-0.135580267	0.303208886	0.603513915	0.890526762	0.037043	0.225038986
Rpl22l1	0.024821538	0.345932533	-0.370754072	-0.898036742	-1.001289373	-0.579695931	0.02726652	0.165150203
Tgm1	-0.011179043	0.128272045	-0.117093001	-0.522305184	-1.222869171	-0.724384805	0.02008218	0.121272356
Atp5i	0.122372109	-0.03168403	-0.090688079	-0.285271461	-0.25051007	-0.277500173	0.01357716	0.081745837
Atad3	-0.029520825	0.03554527	-0.006024445	-0.202692486	-0.11306918	-0.251294902	0.01341581	0.080534666
Cbs	0.109905721	-0.211608428	0.101702707	-0.949962673	-0.346834866	-0.435000376	0.05552275	0.332315127
Fam210a	0.112692645	-0.10684966	-0.005842985	-0.375980075	-0.294873972	-0.487757419	0.01028537	0.061378484
Npm1;Gm5611	-0.239016675	-0.053077638	0.292094313	-0.54466359	-0.824319266	-0.618739384	0.01993714	0.118625965
Ece1	-0.07501218	0.068691834	0.006320346	-0.198531494	-0.550710775	-0.52735079	0.02456782	0.145749875
Ctsa	-0.029023536	-0.130676305	0.159699841	-0.435438192	-0.556572938	-0.727109231	0.00879942	0.052050343
Haao	-0.311139592	0.035455201	0.275684391	-0.887873988	-0.445205238	-0.408105624	0.06488784	0.382705809
Copb1	0.134267502	-0.04680254	-0.087464961	-0.128465505	-0.598241942	-0.350183862	0.07731467	0.454673199
Ctsb	-0.0365813	-0.139368936	0.175950236	-0.309549407	-0.346817554	-0.351561992	0.02312169	0.135580208
Ndufa2	0.036545341	-0.062022214	0.025476872	-0.605562462	-0.234836853	-0.355609519	0.0246352	0.144037611
Sigmar1	0.114576913	-0.020807309	-0.093769603	0.286229787	0.314136986	0.338859789	0.00761261	0.044381305
Ndufb5	0.07044829	0.053516036	-0.123964326	-0.47842456	-0.395111377	-0.398674157	0.00334343	0.019436104
Man2a1	0.212128809	-0.074752339	-0.13737647	-0.424945407	-0.772765328	-0.177722301	0.08723108	0.505640352
Gsr	-0.181512198	0.210701664	-0.029189466	0.380386288	0.695961605	1.053092161	0.0345288	0.199576481
Insr	0.061588811	-0.122012514	0.060423703	-0.15313526	-0.330982388	-0.398676088	0.03665983	0.211290133
Ddx3y	0.016875679	0.067707681	-0.084583361	-0.119561266	-0.508213729	-0.396887384	0.05104937	0.293388845
Scamp3	-0.135666237	0.159979158	-0.024312921	-0.213613993	-0.647639787	-0.456099795	0.04488515	0.257231331
Cttn	0.139403016	-0.075041321	-0.064361696	-0.679077995	-0.65054966	-0.667560931	0.00069217	0.003955533
Pck1	-0.3893616	0.164367557	0.224994043	-0.782215396	-0.999275308	-0.293086975	0.07295652	0.415749404
Pxmp4	0.212276363	-0.144071944	-0.068204419	0.787496738	0.460415541	0.583519331	0.01338453	0.076058726
Aco1	-0.064119091	0.022553031	0.04156606	-0.497421297	-0.333867224	-0.149267906	0.03648745	0.206762188
Oasl1	0.270178583	0.102791614	-0.372970197	0.78986015	0.552404851	0.511393568	0.04305873	0.24331793
Ttpa	0.390658224	-0.090754312	-0.299903912	-0.557869148	-1.213003826	-0.762154794	0.03997295	0.225251491
Mbl2	-0.021634199	0.136713142	-0.115078943	0.894691271	0.246724149	0.616554612	0.04379105	0.246081344
Napg	-0.062023694	-0.313161047	0.375184741	0.58573049	0.442976183	0.526790436	0.06499952	0.36424938
Dnm2	0.699216983	-0.319318062	-0.379898921	-1.720072614	-2.230260213	-1.251198144	0.01825006	0.101988583
Slc9a3r1	0.04152765	0.325802379	-0.367330029	-0.632590376	-0.86275224	-0.631233874	0.03018105	0.168199087
Pebp1	-0.414521793	0.510314705	-0.095792912	0.513522859	0.596444335	0.867358843	0.08659321	0.481258414
Bsg	-0.124777185	0.001008011	0.123769173	0.313961051	0.280688363	0.469563463	0.01846914	0.1023646
Cbr4	0.280321312	-0.238964969	-0.041356343	0.293617812	0.494429147	0.520779034	0.05972291	0.330107777
Retsat	0.078186681	-0.248409595	0.170222915	-0.400270716	-0.423511397	-0.350491585	0.0384642	0.212024719
Ganab	0.046764903	-0.11604528	0.069280378	0.31997866	0.105286501	0.223141839	0.06423628	0.353124983
Clybl	-0.128807384	0.150633156	-0.021825772	0.397470087	1.082384802	0.83772734	0.02333986	0.127958076
Fh	-0.301987526	0.043860002	0.258127524	0.384655653	0.625100595	0.375388644	0.06466745	0.353573633
Rhot1	0.190127625	-0.0640851	-0.126042526	-0.280647488	-0.294261599	-0.51436954	0.04174338	0.227619566
Bphl	-0.212937625	0.174589302	0.038348323	0.35026212	0.780766802	0.297785156	0.06676104	0.363057993
Ces2c	-0.052562706	0.113462304	-0.060899598	0.830846456	0.394434372	0.344069619	0.03362764	0.182382594
Eci1	-0.323036186	0.280843057	0.042193129	0.393046739	0.912678676	0.505760094	0.06279855	0.339683037
Tln1	0.316604562	0.034961109	-0.351565671	-0.725725483	-0.817102526	-0.574228992	0.02673017	0.144200336
Cyp4a12a	0.328556943	-0.143019906	-0.185537037	0.427454628	0.489618792	0.479097216	0.04851169	0.26100838
Actg1	0.111267569	0.029887431	-0.141155	-0.248565798	-0.40957581	-0.35138141	0.01873356	0.100525194
Vnn1	0.289963348	-0.795770519	0.505807171	1.357164871	0.744637386	0.890267319	0.08755625	0.468588068
Cycs;Gm10108	0.074754775	-0.016087076	-0.058667699	0.408070266	0.194712613	0.297596127	0.01478223	0.078903557
Lman2	0.06318769	0.12447243	-0.18766012	-0.134539463	-0.416833907	-0.317085165	0.08364557	0.445302587
Scamp1	0.235662551	-0.097505857	-0.138156694	-0.553020364	#DIV/0!	-0.508071537	#DIV/0!	#DIV/0!
Crat	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nadk2	-0.734858811	0.410591245	0.324267566	0.599018995	0.984583555	0.751946126	0.11319333	0.597885393
Acnat1	-0.196666613	-0.117221229	0.313887843	0.870966527	0.610178518	0.645658869	0.01648497	0.086846571
Lss	0.142268355	-0.103186847	-0.039081508	-0.336127296	-0.773940443	-0.214177664	0.07566478	0.397584036
Steap4	0.032615919	-0.196181672	0.163565753	-0.188083146	-0.509843004	-0.324845585	0.07226585	0.378740469

Ndufb3	0.036261972	0.023780394	-0.060042367	-0.761733702	-0.268713728	-0.404826579	0.03328649	0.17400145
Krt18	-0.376803039	0.280385945	0.096417094	0.597835779	0.4236066	0.294480601	0.11040658	0.575650789
Pex14	-0.022868437	0.022713514	0.000154923	0.260937959	0.284568473	0.583501172	0.02282794	0.118717035
C6	0.189292695	0.006944104	-0.1962368	0.662296341	0.153769718	0.638055304	0.07207481	0.373864974
Cdc42bpb	0.315298581	-0.096549534	-0.218749047	-0.481016563	-0.667805291	-0.561575576	0.02865987	0.148283684
Echdc3	0.180105281	-0.020379505	-0.159725776	0.757235446	1.80247715	1.244322507	0.01624268	0.083823832
Farsa	0.08087467	-0.096644894	0.015770225	-0.095126622	-0.27798393	-0.273238433	0.05340715	0.274917739
Slc6a13	-0.014489942	-0.016036656	0.030526598	-0.262297521	-0.253683373	-0.523123319	0.01813986	0.093139449
Fkbp4	0.127152861	0.041892845	-0.169045707	-0.434447886	-0.32122317	-0.528879359	0.01588315	0.081345875
Opa1	-0.016027264	0.026289582	-0.010262317	-0.233541369	-0.137023901	-0.142489524	0.00732622	0.037426615
Cask	0.013140249	-0.001379457	-0.011760792	-0.281346624	-0.312611815	-0.278950455	2.38E-05	0.000121244
Fech	0.358703239	-0.128480485	-0.230222753	-0.681907796	-0.457082667	-0.582223572	0.04105047	0.208656025
Acsm3	-0.122073069	0.004347716	0.117725353	0.727516899	0.845696898	0.360922263	0.0162504	0.08239238
Acp6	-0.344970609	0.145638647	0.199331961	0.465691248	0.520091874	0.386302825	0.06152678	0.31117169
Phb2	-0.022996416	-0.007015824	0.03001224	-0.260774808	-0.181839704	-0.17815815	0.00267722	0.013506263
Iqgap2	0.119783027	0.308418961	-0.428201988	-0.490297466	-0.786197843	-0.592958517	0.05845528	0.294166744
Tapbp	0.16906933	0.026949892	-0.196019222	0.805036806	0.180782807	0.638181526	0.06528618	0.3277269
Arg1	-0.224106332	-0.00596762	0.230073952	-0.585131709	-0.275896011	-0.298111436	0.07882355	0.394703073
Atp5j2	0.072410258	0.076696599	-0.149106857	-0.381657825	-0.492020808	-0.289666477	0.01495294	0.07469086
Wdr1	0.049929292	-0.03155953	-0.018369762	-0.518789334	-0.497893521	-0.133835622	0.03963874	0.197510267
Tdo2	0.46584489	-0.109154147	-0.356690743	-0.787347131	-0.855419086	-0.84823751	0.0274091	0.136237344
Gstt1	-0.139964231	0.07638727	0.063576961	-0.615889833	-0.273377956	-0.242440157	0.05296759	0.262630946
Eif5a	0.488621645	-0.139599747	-0.349021899	-0.838502594	-0.674525448	-1.111198624	0.03617908	0.178949338
Uqcr10	-0.126573221	0.008491	0.118082222	-0.632688039	-0.182982091	-0.344618168	0.06069809	0.299493272
Pbld1	-0.255495779	0.094428185	0.161067595	-0.819632043	-0.232700521	-0.34692628	0.10274659	0.50573319
Kras;Hras1	0.16717488	-0.094467021	-0.072707859	-0.37569439	-0.602087018	-0.227304127	0.04316304	0.211938907
Eif4e	-0.231820705	-0.057836702	0.289657407	0.452421095	0.323636009	0.413203855	0.06608057	0.323682793
Nucb1	0.003571289	0.021907686	-0.025478975	0.513756161	0.319631244	0.293722176	0.00605658	0.029595317
Ugt2b35	0.028376557	0.261719674	-0.29009623	-0.601274886	-0.469389171	-0.285025503	0.07035364	0.342952778
Lactb	0.163158967	-0.065662433	-0.097496534	-0.294100367	-0.266781791	-0.305641206	0.02525522	0.122815651
Tubb2a	-0.08444169	0.175572094	-0.091130404	0.692410117	0.517882388	1.372661651	0.03521019	0.170815871
Eef2	-0.195593117	0.302872345	-0.107279228	-0.483763141	-0.342364173	-0.492505654	0.05252137	0.254188329
Anxa2	0.388762012	-0.336206276	-0.052555736	0.914874454	0.292845642	0.733299837	0.08222283	0.396985149
Carkd	-0.086051429	0.007429681	0.078621748	-0.436269659	-0.297082164	-0.162618638	0.03177582	0.153053538
Mrpl39	0.30514041	-0.045334656	-0.259805754	-0.599681838	-0.391872549	-0.740276329	0.04045965	0.19441776
Psme2	0.190125705	0.081001536	-0.271127241	-0.511765532	-0.713145138	-0.224635819	0.07179791	0.344187616
Arl8b	0.012261487	0.156268158	-0.168529645	-0.350749725	-0.521287996	-0.685876698	0.01829448	0.087493459
Ociad1	-0.229030631	0.178764386	0.050266245	0.221521593	0.271186673	0.331331965	0.091989	0.438900351
Tpd52l2	-0.04315148	-0.11972405	0.16287553	-0.513107798	-0.89764308	-0.513981974	0.01387325	0.066036665
Ugt2b1	-0.091860671	0.201508032	-0.109647361	-0.363264603	-0.215876501	-0.333660186	0.05115042	0.242904444
Ndufb4	0.079459565	0.093772105	-0.173231671	-0.670436755	-0.329727639	-0.308262128	0.04034958	0.191164389
Atpif1	0.008039501	0.051785669	-0.05982517	-0.431273401	-0.41773732	-0.345621974	0.00068815	0.00325265
Cobll1	0.046957399	0.280030541	-0.326987941	-0.558120975	-0.452970989	-0.925817294	0.04702663	0.221759619
Arl6ip1	-0.229271887	0.193201855	0.036070032	0.556377041	0.53032621	0.528290918	0.01211044	0.056975412
Pdia3	0.025066134	0.025533738	-0.050599872	0.433610065	0.143533649	0.200908303	0.04821582	0.226312281
Agmo	0.285215043	-0.454023214	0.168808171	0.839518483	0.352563092	0.594060763	0.09138746	0.42795563
Etfdh	0.04325691	-0.084397671	0.041140761	-0.342977042	-0.164973176	-0.134849031	0.05050926	0.235982044
Rpl27a	0.107101535	-0.053873368	-0.053228168	-0.196990343	-0.288865022	-0.122968206	0.04771035	0.222391798
Azgp1	-0.036503536	0.139588257	-0.103084721	0.454449219	0.235038874	0.455590401	0.02075801	0.096536674
Rps5	-0.000320124	-0.01371432	0.014034444	-0.239707398	-0.158189599	-0.168057465	0.00217896	0.010110191
Ugt1a9;Ugt1a8	-1.234792264	0.570889666	0.663902598	1.021177252	1.158238942	0.89327094	0.17535082	0.811749912
Ehd3	0.319791423	-0.152688297	-0.167103126	-0.718007576	-0.840764312	-0.489315166	0.02298789	0.10617468
Chdh	-0.091232829	-0.018165031	0.10939786	-0.477959185	-0.259100287	-0.140606353	0.0635538	0.292868652
Ndufs6	0.144516397	-0.027123506	-0.117392892	-0.648880748	-0.280809784	-0.361984885	0.03362859	0.154615098
Rps24	0.18525729	-0.015725977	-0.169531313	-0.395817199	-0.21685543	-0.283974656	0.06042934	0.277207583
Krt8	-0.456825246	0.282962654	0.173862592	0.542923023	0.524951874	0.386057676	0.10907422	0.499224318
Prdx1	-0.17056915	0.183731532	-0.013162382	-0.438642639	-0.278003119	-0.13355861	0.10402669	0.475047405
Hsd17b8;H2-Ke6	0.123052635	0.132942806	-0.255995441	0.212886406	0.472201599	0.635467539	0.06828289	0.311117747
Uba1	0.201235175	-0.016161137	-0.185074038	-0.557825364	-0.594589909	-0.246070937	0.04136244	0.188036451
Acsm1	-0.092128095	0.198172862	-0.106044767	0.434851328	0.535135689	0.279862838	0.02822874	0.128042001
Tm9sf3	-0.012989283	0.087610556	-0.074621272	-0.508263597	-0.672422227	-0.084244166	0.080856	0.365932201
Tcf25	0.113648762	-0.050184291	-0.06346447	0.179641157	0.363570034	0.413004281	0.02485318	0.112227645
Tomm40	0.044951803	-0.015464337	-0.029487466	-0.362441559	-0.137876588	-0.362460584	0.02130408	0.095987
Aox3	0.245525917	-0.199273701	-0.046252217	-0.466368129	-0.142719344	-0.488567735	0.10023435	0.450609069
Mrpl13	0.241447983	-0.093464598	-0.147983385	-0.650008007	-0.385266602	-0.431186934	0.02899012	0.130037742
Pon1	0.154427672	0.062844059	-0.217271731	-0.338929185	-0.379475803	-0.547363535	0.03057067	0.136824037
Ccbl2	-0.421781202	0.258730372	0.16305083	-0.828401166	-0.377804409	-0.950729237	0.05909855	0.263921322
Tpmt	-0.043457428	-0.202967513	0.24642494	-0.406837621	-0.430857134	-0.377542721	0.03770695	0.168020173
Sod2	-0.391396069	0.361456525	0.029939544	0.189118953	0.894009828	0.681379871	0.12304252	0.547065983
Reep5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Dbt	0.17282623	-0.206248762	0.033422532	-0.591738355	-0.122657319	-1.03496681	0.1108258	0.490592095
Cat	-0.177559215	-0.198808937	0.376368152	0.308963515	0.614989287	0.367511128	0.110122	0.486412257
Sptan1	0.240113081	0.058670319	-0.298783401	-0.247560883	-0.506450519	-0.486311881	0.08183984	0.360701502
Arhgdia	-0.240062481	0.259453341	-0.01939086	-0.844598388	-0.748431022	-0.301793151	0.04603956	0.202473975
Sfxn2	-0.078952098	0.071518951	0.007433148	-0.432610581	-0.106500624	-0.583114834	0.06397189	0.280726962
Fcgrt	0.017352777	0.103623861	-0.120976637	-0.259748112	-0.35487121	-0.436773338	0.01347222	0.058991998
Pccb	-0.099836639	-0.123460851	0.223297489	0.580279964	1.045188104	0.245530494	0.07255387	0.317011833
Itfg3	0.124112634	-0.07606437	-0.048048264	-0.438937845	-0.292392863	-0.216165272	0.02512189	0.109529269
Tmem214	-0.069530074	0.139615579	-0.070085506	-0.154404547	-0.343413382	-0.106492342	0.11558824	0.502871005
Eif3b	0.166739736	-0.123373642	-0.043366093	-0.144126747	-0.22613069	-0.375492145	0.08643384	0.375226748
Stard10	0.501360188	-0.249916285	-0.251443903	-1.021241665	-0.607169855	-0.610099418	0.05944487	0.257509555
Eefsec	0.123532415	-0.146337555	0.02280514	-0.238581548	-0.110224072	-0.428723827	0.09982604	0.431512993
Naa15	-0.10128144	0.017625396	0.083656044	-0.18649376	-0.217815908	-0.537620617	0.06530063	0.28166988
Keg1	-0.016922055	0.189449943	-0.172527887	-0.778540481	-0.155557555	-0.345271776	0.1146984	0.493691195
Acad10	0.29357594	-0.304701095	0.011125155	1.01372299	0.705903639	0.714292939	0.01546202	0.066411179
Ctnnb1	-0.022723386	0.117678421	-0.094955034	-0.258595659	-0.522732726	-0.191877671	0.05234532	0.224352911
Actn4	0.107441945	0.149266398	-0.256708343	-0.170797474	-0.514915712	-0.525913219	0.08081864	0.345657728
Atp5f1	-0.084412422	0.025294756	0.059117666	-0.52668704	-0.198353131	-0.355919833	0.02589387	0.1105133
Abcg2	0.259736284	-0.367956675	0.10822039	-0.712722895	-0.520986382	-0.251323903	0.09945407	0.423569655
Iyd	0.173388246	-0.200831615	0.02744337	0.374252034	0.205449918	0.178060367	0.11337734	0.481853708
Dars	0.162527151	-0.181754483	0.019227332	0.179672887	0.423794257	0.184647578	0.10998033	0.466436511
Fcgr2;Fcgr2b	0.193490368	0.024027026	-0.217517394	-0.234766326	-0.850678189	-0.586939716	0.06019154	0.254743694
Gnmt	-0.099693528	-0.052253507	0.151947035	-0.90441595	-0.129890583	-0.4255005	0.11091388	0.468431691
Pgk1	-0.257465658	0.194863035	0.062602623	-0.610376006	-0.404140614	-0.125925936	0.12196752	0.514042261
Cyp3a13	0.070384868	-0.090729666	0.020344798	0.252099791	0.14952764	0.209457636	0.0221924	0.093337262
Syvn1	-0.292479891	0.214490782	0.077989109	-0.333458982	-0.427428822	-0.255234509	0.10082499	0.423172108
Mrpl15	0.343719296	-0.149450065	-0.194269231	-0.674817771	-0.482801706	-0.93391659	0.0321837	0.134798414
Prdx6	-0.257614923	0.17357772	0.084037204	-0.635116576	-0.309036758	-0.154597369	0.13085953	0.546960373
Cyp2c67	-0.261793253	0.173006357	0.088786895	-0.502150789	-0.27439639	-0.226228698	0.10185636	0.424856537
Ppia	-0.107992206	0.214385246	-0.106393039	-0.603921042	-0.238991374	-0.203160402	0.10504517	0.437255902
Acox1	-0.176082048	-0.01963447	0.195716518	1.639349021	0.34829825	1.233749344	0.05349436	0.222215795
Clec4f	0.241515877	0.121577567	-0.363093445	-0.482667097	-0.481079537	-0.49288788	0.058393	0.242067706
Pcbp1	-0.124797028	0.220037608	-0.09524058	-0.301871246	-0.582687806	-0.250506914	0.06649513	0.275091287
Dpp4	0.075245398	-0.140915594	0.065670195	-0.623069415	-0.20622469	-0.155632979	0.11591698	0.478571541
Qdpr	-0.35370061	0.101675103	0.252025506	-0.863637111	-0.229254847	-0.39560596	0.1323904	0.545470003
Gpld1	-0.101416217	0.212139055	-0.110722838	-0.318334938	-0.366777439	-0.555416211	0.03226982	0.132686672
Vcl	0.136897251	0.088655685	-0.225552936	-0.291955541	-0.381153594	-0.463900653	0.03779332	0.155082931
Vim	0.185450955	-0.069046085	-0.116404871	0.453499046	0.232969651	0.408455368	0.03406933	0.13951872
Akr1c19	0.031582266	-0.344950912	0.313368646	-0.821494236	-0.890525863	-0.187628655	0.09751467	0.398529664
Dhx9	0.255629798	-0.18983087	-0.065798928	-0.336238601	-0.493718988	-0.360341465	0.0485947	0.198199764
Eprs	0.027223962	-0.039953324	0.012729363	0.242259564	0.357418158	0.03898605	0.08922753	0.363193727
C4b	0.232933311	-0.049854519	-0.183078792	0.68452617	0.128233175	0.512727498	0.09758323	0.39640737
Cyp2j5	0.007708502	-0.108856683	0.101148181	-0.358816217	-0.149986272	-0.159522591	0.07107906	0.288162217
Atp5b	0.196227098	-0.090561036	-0.105666062	-0.296785191	-0.304440124	-0.422909842	0.03259784	0.131890859
Msmo1	-0.007424394	0.236823911	-0.229399516	-0.30368297	-0.606959315	-0.467256734	0.04597443	0.185641265
Ninj1	-0.056557305	0.223039541	-0.166482236	-0.510901848	-0.434825175	-0.595252293	0.01468587	0.059182293
Glo1	-0.219297481	0.447905856	-0.228608375	-1.322167231	-0.742597793	-0.261176694	0.11076164	0.445468775
Acsf3	0.132371254	0.031924206	-0.16429546	0.454456648	0.60038931	1.106296483	0.02891034	0.11604289
Ndufa11	-0.147687642	0.135603162	0.012084481	-0.237678693	-0.129191573	-0.353940113	0.08315368	0.333108699
Hsd3b7	0.084759083	0.126181086	-0.210940168	-0.211030192	-0.508809522	-0.278450222	0.07520986	0.300690803
Cfl1	-0.175647696	0.166675406	0.00897229	-0.171649964	-0.395764416	-0.166146963	0.12105297	0.483018073
Nags	-0.161469916	0.280707285	-0.119237369	-0.849748913	-0.138425792	-0.830774416	0.09063641	0.360939871
Glrx5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Mrpl46	0.166006131	-0.132763617	-0.033242514	-0.559620256	-0.231848866	-0.736210627	0.04145496	0.16443802
Pex26	0.123310235	-0.028785904	-0.094524331	0.286541714	0.181597642	0.612656222	0.06778885	0.268369537
Rtn3	-0.259572439	0.143207877	0.116364562	0.335682326	0.413641617	0.188719953	0.09855007	0.389388258
Ndufb2	-0.215948542	-0.046005535	0.261954077	-0.555298223	-0.104482717	-0.766535534	0.11885839	0.468714477
Ddx39b;Ddx39a	0.171218587	0.249489784	-0.420708371	-0.272137198	-1.052174225	-0.891221279	0.0811004	0.319194768
Dlg1	-0.237686742	-0.015397824	0.253084567	-0.189970342	-0.441243921	-0.367571181	0.10637562	0.417859969
Ndufb11	-0.086953994	-0.055102289	0.142056283	-0.5000912	-0.17658704	-0.45007401	0.03830492	0.150176065
Ugt2b5;Ugt2b17	0.169126948	-0.025478144	-0.143648804	-0.206437472	-0.377320033	-0.408885882	0.04045029	0.15828033
Bzw1	0.02823266	0.057676052	-0.085908711	-0.457469124	-0.150547291	-0.538940879	0.038705	0.151158731
Hba-a1;Hba	0.447083029	0.078541852	-0.525624881	-0.952644912	-0.737020833	-0.289344655	0.1278701	0.498422357
Hsd17b11	0.243521024	-0.256856248	0.013335223	-0.127006229	-0.693973052	-0.970529566	0.10620367	0.413173127
Hmbs	-0.265868163	-0.001858845	0.267727008	-0.579710956	-0.96777324	-0.804445934	0.01473006	0.057195621
Pdia4	-0.073868554	0.051361928	0.022506626	0.393686755	0.214924331	0.217988079	0.0171545	0.066481903
Lonp1	0.171180554	-0.008743097	-0.162437457	0.633178024	0.543647504	0.565951068	0.00438372	0.016956529
Tomm70a	-0.045494497	0.08034158	-0.034847082	-0.301055939	-0.203035774	-0.282522931	0.00644509	0.024882489
Sds	0.196813817	-0.288566031	0.091752214	-1.364891315	-0.557269187	-0.443121401	0.07254563	0.279542476
Atp5c1	-0.121316444	0.019614673	0.101701771	-0.439244242	-0.118482485	-0.342366016	0.05971914	0.229680248
Actr2	0.08470486	-0.00134937	-0.08335549	-0.445668972	-0.391037616	-0.640496901	0.00541329	0.020780035
Lman1	0.090214313	-0.053613596	-0.036600716	-0.157431155	-0.325383325	-0.128376021	0.05589635	0.214163489
Gstm2	-1.08275944	1.024393118	0.058366322	0.872163386	0.923768369	1.465750104	0.16350649	0.62528098
Ndufa3	0.053232552	-0.010776545	-0.042456007	-0.561655842	-0.265003106	-0.323330691	0.01566971	0.059810987
Gnb2l1	-0.011778619	0.060049415	-0.048270796	-0.199274866	-0.245421818	-0.124663506	0.01611804	0.061406395
Hdhd3	-0.505253441	0.266545389	0.238708052	0.340291991	0.492253232	0.695101569	0.1354129	0.514925371
Pcca	-0.168520693	-0.092724932	0.261245625	0.392443101	0.988951161	0.254737215	0.10522691	0.399388456
Mrpl40	0.123699115	-0.008995774	-0.114703341	#DIV/0!	-0.371494881	-0.316933778	#DIV/0!	#DIV/0!
Eif3i	0.051796832	-0.053951436	0.002154604	-0.246256925	-0.196051308	-0.464849252	0.02637293	0.099724179
Nemf	-0.002557507	0.015018717	-0.01246121	-0.209647329	-0.158977623	-0.416202364	0.02970295	0.112106458
Calu	-0.098617837	0.013143278	0.085474559	-0.351430772	-0.299758604	-0.157466914	0.02690615	0.101361517
Cyfip1	0.227899328	0.101334545	-0.329233874	-0.229265738	-0.783894001	-0.580902631	0.08551158	0.321542601
Mup20	0.469395815	0.10719944	-0.576595255	2.053787078	1.478982947	0.720135545	0.04525883	0.16986757
Ermp1	0.733724378	-0.395361712	-0.338362666	1.147783336	0.433936784	1.141993782	0.10634831	0.39841228
Got1	-0.448977163	0.001840988	0.447136175	-1.543648422	-0.442410492	-0.280980622	0.18582165	0.694856189
Sec23b	0.478212269	-0.096119256	-0.382093014	-0.792907946	-0.667926128	-1.221798683	0.04212605	0.157234297
Rps27l	0.0871395	-0.094174913	0.007035413	-0.220685782	-0.264234056	-0.1295948	0.03571345	0.133053965
Pdia6	-0.01795887	0.090053341	-0.072094472	0.465067787	0.112790757	0.175018992	0.10170313	0.378208519
Hsd17b10	0.105245803	-0.173465695	0.068219892	0.344584214	0.513238422	0.160650824	0.06465115	0.239980336
Hnrnpc	0.367828085	-0.167826341	-0.200001744	-0.208750077	-0.825034605	-0.407935576	0.13667262	0.50638958
Prdx4	0.097113571	-0.115108728	0.017995156	0.18747188	0.069551995	0.162820299	0.12223565	0.452070778
Habp4	-0.42564437	0.1614213	0.264223071	0.521975903	0.20919557	0.555327836	0.15044748	0.555392785
Mettl7b	-0.127654953	0.095423261	0.032231692	-0.102386233	-0.213481382	-0.386444704	0.09178771	0.338226841
Copg1	0.184152001	-0.042929381	-0.14122262	-0.187580552	-0.603836466	-0.247822415	0.09885425	0.363603895
Fads2	-0.030731372	-0.060625214	0.091356586	0.500578418	0.271149177	1.142695234	0.07366175	0.27044959
Picalm	0.199844708	-0.159446022	-0.040398686	-0.115938911	-0.412844994	-0.254164192	0.12762667	0.467733236
Mrpl45	0.096843495	0.108265555	-0.20510905	-0.620826027	-0.327864414	-0.45434243	0.02460947	0.090027048
Ndufv3	0.240285952	-0.152350875	-0.087935077	-0.497396288	-0.64163743	-0.430649772	0.01860742	0.067947316
Bckdha	0.246854542	-0.24215269	-0.004701852	-0.42872079	-0.166746129	-0.769994235	0.11262887	0.410537298
S100a10	0.128114077	-0.153072917	0.02495884	0.583733784	0.114935689	0.54719908	0.07263331	0.264275527
Fam210b	0.081449143	-0.004405356	-0.077043787	-0.646413891	-0.197276573	-0.655675919	0.0341195	0.123920534
Mvp	0.129556391	-0.169996364	0.040439973	0.397119114	0.040661121	0.563756421	0.13399707	0.48579941
Abcc2	0.294995017	-0.331863062	0.036868045	-0.585351166	-0.348490245	-0.421587363	0.08130961	0.294256429
Gstz1	-0.259182311	0.149256788	0.109925522	-0.502080601	-0.245837401	-0.13710995	0.15618192	0.5642072
Hist1h4a	-0.382331551	0.104211118	0.278120433	0.599215663	0.095985207	0.851637251	0.15789956	0.569395369
Ppa1	-0.225978698	0.191177167	0.034801531	-0.357375363	-0.229678579	-0.184148427	0.12385528	0.445834937
Anpep	0.100026658	-0.067669953	-0.032356704	-0.492586411	-0.234750367	-0.048922818	0.13487644	0.484644823
Rab7a	0.100609598	-0.03247916	-0.068130438	-0.072180489	-0.438422485	-0.136173368	0.15724308	0.564011964
Rps13	0.113861968	-0.013724426	-0.100137542	-0.149689901	-0.255731621	-0.070141934	0.12596003	0.451003775
Ndufa13	0.330231951	-0.162969021	-0.16726293	-0.413634214	-0.450140035	-0.606556236	0.04910044	0.175495028
Itih2	0.349645536	-0.123934098	-0.225711438	-0.702509516	-0.530365094	-0.528254644	0.03455705	0.123296133
Ces1c	0.045720235	0.028058486	-0.073778721	0.274656142	0.292369352	0.131075253	0.02117284	0.075409608
Ndufb8	0.003851633	0.046125498	-0.049977131	-0.659764245	-0.124850319	-0.438262608	0.06096	0.216734757
Coro1b	-0.354245454	0.153809959	0.200435495	-0.240021107	-0.686765369	-0.412491911	0.11250982	0.399311152
Lamp2	0.016479068	0.071384634	-0.087863702	-0.06889854	-0.356562339	-0.341027914	0.07070861	0.250514032
Ndufb10	0.318031953	-0.133630071	-0.184401882	-0.408026861	-0.454483883	-0.542701996	0.04651729	0.164518325
Mrpl1	0.233433537	-0.365730201	0.132296663	-0.496276596	-0.163374794	-0.781282766	0.1352748	0.477593228
Cox5a	0.374229895	-0.106718818	-0.267511077	-0.233097812	-0.318425222	-1.074779851	0.17548713	0.618485127
Myl12b;Myl9	0.047835961	-0.052170548	0.004334588	-0.242022373	-0.330101377	-0.091453085	0.04274373	0.150383606
Pgd	-0.151908854	0.232161189	-0.080252335	0.290254999	0.394137714	1.074053739	0.09796415	0.344065052
Fkbp11	0.06873852	0.282305275	-0.351043795	-0.495019885	-0.811284128	-0.237935194	0.10776578	0.377833919
Slc25a4	0.180918204	-0.03655368	-0.144364524	0.269387681	0.271676055	0.542315933	0.05185734	0.181500689
Arf6	0.174274831	0.186906222	-0.361181052	-0.332326737	-0.734591687	-0.325296836	0.10889085	0.380459723
Uso1	-0.043017042	0.204389516	-0.161372474	-0.545943662	-1.288811812	-0.066235228	0.16335794	0.569781243
Tmem256	0.023563697	0.114276876	-0.137840572	-0.592450473	-0.857211165	-0.966664954	0.00378629	0.013183588
Abhd6	0.018732377	-0.013444445	-0.005287933	0.359466049	0.264062777	0.365345076	0.00064927	0.002256812
Zadh2	-0.238455645	0.112886699	0.125568946	0.162925332	0.366795774	0.416205115	0.09096977	0.315663542
Rpl10;Rpl10l	0.054989914	-0.016256467	-0.038733447	-0.122173661	-0.178085874	-0.086669307	0.0292841	0.10144131
Fkbp8	-0.07975846	0.074607104	0.005151356	0.162977181	0.1233904	0.261999435	0.03960962	0.136974806
Usmg5	-0.179347681	0.05459604	0.12475164	-0.53985784	-0.129358987	-0.315562942	0.0940344	0.324627286
Atp1b3	-0.087369601	-0.021861992	0.109231593	-0.279604712	-0.374672305	-0.21935409	0.01655833	0.057065595
Slc38a3	-0.306763083	0.162632831	0.144130251	-0.275413956	-0.219998957	-0.551010458	0.13163019	0.452870526
Ces3a	0.096797784	-0.062253458	-0.034544326	0.348973392	0.244447742	0.014483672	0.1400774	0.481114723
Rdh19	0.17495277	-0.167670681	-0.00728209	-2.524065933	-0.699842995	-2.792254532	0.03928954	0.134716518
Lpgat1	0.196889609	-0.081171942	-0.115717667	0.71211332	0.143711312	0.519836887	0.07739728	0.2649318
Purb	-0.42249932	0.106272293	0.316227027	0.270350249	0.437624679	0.537188123	0.14965401	0.511402134
Rpl15;Gm10020	-0.109988657	0.109243871	0.000744785	-0.361656771	-0.306417374	-0.163487849	0.03282292	0.111974313
Etf1	0.207627155	-0.129372264	-0.078254891	-0.300577093	-0.140610356	-0.419678859	0.09610657	0.327312453
Dap	-0.547966748	0.410824735	0.137142013	-0.468255177	-0.494402575	-1.625674189	0.14431421	0.490668327
Ndufa7	0.030041185	-0.061872948	0.031831763	-0.452035898	-0.15552008	-0.324892311	0.02715824	0.092183101
Ptprd	0.01061479	-0.100076224	0.089461434	-0.327455566	-0.264810369	-0.315009577	0.00653703	0.022151442
Adk	-0.321737302	0.230937836	0.090799466	-0.767475352	-0.276481021	-0.16179874	0.18184964	0.615186989
Uqcr11	0.252497328	-0.212497321	-0.040000007	-0.916667564	-0.174178393	-0.824002632	0.07743626	0.261525123
Glg1	-0.000671846	0.033144729	-0.032472883	-0.557996058	-0.125834471	-0.594113313	0.04834302	0.162996564
Eps8l2	0.185759754	0.225217082	-0.410976837	-0.493623999	#DIV/0!	-0.551672844	#DIV/0!	#DIV/0!
Apol9a	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cox7a2	-0.051017027	0.034347722	0.016669305	-0.420657697	-0.080651968	-0.423740833	0.05756324	0.193118475
Eif5	0.569819445	-0.285181475	-0.28463797	-0.685369927	-0.696505748	-0.610392567	0.08109674	0.27162036
Cand1	0.2463661	-0.006713842	-0.239652258	-0.258686876	-0.673834309	-0.27343764	0.10881844	0.363867291
Tecr	0.007946751	-0.028527199	0.020580447	0.295891137	0.019856047	0.4545108	0.11501287	0.383945594
Slc26a1	-0.146994547	0.098475537	0.04851901	-0.558923929	-0.206839227	-0.216688336	0.0763828	0.254567386
Cox4i1	0.033888425	0.054839289	-0.088727715	-0.407212669	-0.189447306	-0.273786439	0.02014735	0.067036314
Tor1aip2	-0.045685338	0.072890863	-0.027205524	0.173169265	0.163885423	0.36982323	0.03706012	0.123107767
Ech1	-0.174893355	-0.102170206	0.277063561	0.020163316	0.612082294	0.492181638	0.17648436	0.585291563
Fkbp3	-0.207103628	0.139112779	0.067990848	-0.297893064	-0.092429157	-0.731214061	0.1583153	0.524176507
Actc1;Actg2;Acta2;Acta1	0.061482365	0.24753341	-0.309015774	-0.261037826	-0.437005312	-0.389385712	0.10251928	0.33888317
Gnpnat1	-0.284995626	0.049663921	0.235331705	-0.387468877	-0.639995	-0.527612481	0.03730221	0.123103372
Dcxr	-0.37208011	0.187308974	0.184771137	-0.816434272	-0.130561361	-0.911569728	0.11498841	0.378862464
Ola1	0.055579894	-0.053470507	-0.002109387	-0.149209217	-0.199554101	-0.314025683	0.01901002	0.062532155
Tmbim6	0.026420398	-0.034818317	0.008397918	0.290578286	0.125556525	0.103842092	0.04835054	0.158787577
Ugt1a1	0.81845607	-0.421612867	-0.396843202	-0.559264428	-1.142850557	-1.643533705	0.09649751	0.316392954
Gpx1	0.252115684	-0.160139084	-0.091976599	-0.695374076	-0.42285441	-0.46527335	0.02612034	0.085503968
Rps2;Gm6139;Gm18025;Gm5786;Gm6576;Gm4968;Gm5070	0.028454681	0.053392313	-0.081846994	-0.083949899	-0.207340419	-0.169806937	0.04989936	0.163079802
Hsp90b1	-0.056886663	0.101518924	-0.04463226	0.26578693	0.097288374	0.134060362	0.08323137	0.271575909
Adck5	0.340711187	-0.126784338	-0.213926849	-1.241163739	-1.094768488	-0.957268562	0.00451861	0.014720052
Cth	-0.335619655	-0.041111738	0.376731393	-0.66579329	-0.124134308	-0.699941322	0.14898906	0.484573748
Iah1	-0.087075198	0.056757506	0.030317692	-0.222188703	-0.247985934	-0.565245724	0.0439213	0.142620853
Mgll	0.147522548	-0.236040338	0.08851779	1.012241088	0.143162006	1.069951748	0.08300737	0.269108814
Eif2s1	0.099127557	-0.147847911	0.048720354	-0.204807826	-0.237061301	-0.204079166	0.04741621	0.1534768
Pacsin2	0.539476651	-0.149104107	-0.390372544	-0.627423949	-1.181406932	-0.602651139	0.07532723	0.243429689
Slc25a15	-0.228757928	0.206252765	0.022505164	-0.334044351	-0.069230141	-0.420794079	0.17037334	0.54970537
Cox6c	-0.130760559	0.084542807	0.046217752	-0.516356894	-0.147346578	-0.396878412	0.05000453	0.161081474
Grpel1	-0.24546963	0.282555587	-0.037085956	0.524506261	0.729974913	0.464895334	0.02972154	0.095590887
Cyp27a1	0.221922104	0.006723059	-0.228645163	-0.296257777	-0.255473325	-0.193154219	0.13646228	0.438195554
Apoa4	-0.748815658	0.464051666	0.284763993	2.120656775	1.830544989	3.914553188	0.02534852	0.081267926
Nomo1	0.054813865	0.003914232	-0.058728097	0.179891904	0.081406281	0.514850375	0.12828203	0.41062428

G3bp2	-0.768715189	0.372603162	0.396112026	0.562046877	0.458016275	0.718500657	0.2131952	0.681348961
Alb	-0.175765635	-0.101131641	0.276897276	0.433165985	0.30930157	0.132396264	0.15203667	0.485126461
Sult1a1	0.353901133	-0.125543554	-0.228357579	-0.698239605	-0.979931709	-1.055639122	0.01221887	0.038927209
Calr	-0.202606535	0.097637459	0.104969076	0.321010629	0.278150333	0.235693395	0.05587921	0.177741559
Mrpl4	0.005780849	0.12010224	-0.125883089	-0.499965362	-0.305782277	#DIV/0!	#DIV/0!	#DIV/0!
Aox1	0.036229568	0.13091927	-0.167148839	0.810962923	0.888612065	0.536162091	0.00575519	0.018248815
Ufd1l	-0.492523905	0.347661281	0.144862624	0.722249712	0.578458897	0.957439769	0.0526872	0.166801558
Comt	0.262401738	-0.110648875	-0.151752864	-0.210197053	-0.648715153	-0.320787632	0.1023463	0.323510265
Dhcr24	0.010499793	0.031461772	-0.041961565	0.285582592	0.169434517	0.11669286	0.02490707	0.078606856
Slc22a1	-0.087824273	0.12865131	-0.040827037	-0.034443543	-0.469213029	-0.311611009	0.13033367	0.410693166
Faah	0.256841906	-0.160586797	-0.096255109	0.646887942	0.221852366	0.37713887	0.08182075	0.25742361
Cyp2c55	0.09240545	-0.050247911	-0.042157539	-1.251954454	-0.234334476	-2.398281852	0.10772123	0.338385153
Snd1	-0.038079136	0.047825707	-0.009746572	-0.120023211	-0.104550984	-0.116345571	0.0114952	0.036053938
Dhcr7	0.031862266	0.054080129	-0.085942395	0.505951001	0.029069516	0.385609545	0.10957537	0.343143927
Bri3bp	-0.065075306	-0.044388557	0.109463862	0.319886587	0.429989132	0.382066109	0.00405042	0.012664596
Scarb1	0.358982466	-0.256702633	-0.102279833	-0.568812147	-0.454895862	-0.321912148	0.08641751	0.269787995
Sdha	-0.084856497	0.056319566	0.028536931	-0.329824681	-0.045383121	-0.121261243	0.15771931	0.49162738
Cmbl	-0.218053798	0.053200958	0.16485284	-0.294272168	-0.121978825	-0.276517996	0.14118911	0.439423954
Mup2	0.072641816	0.088999571	-0.161641387	0.615111808	0.030414913	0.33520516	0.15576083	0.484030957
Fbp1	-0.321228471	0.193245254	0.127983218	-0.653895891	-0.208744765	-0.153222012	0.20907057	0.648695967
Abcc6	0.385378231	-0.376153385	-0.009224845	-0.633551064	-0.693584384	-0.644359166	0.04081151	0.126434435
Mgst3	0.229782919	-0.039656118	-0.190126801	0.690508697	0.781686723	0.397964333	0.02095072	0.064806275
Slc25a12	0.158752754	0.049220965	-0.207973719	-0.360566508	-0.516391704	-0.339863172	0.02935214	0.09065553
Mettl7a1	-0.004564305	0.046698258	-0.042133953	-0.00866763	-0.261286385	-0.422694723	0.13420618	0.413870595
Qars	0.189757837	-0.223321379	0.033563542	0.666952583	0.54666699	0.131208192	0.09079251	0.279563539
Actr3	0.156468033	-0.041674456	-0.114793577	-0.165500016	-0.237136801	-0.411221827	0.06762894	0.207923028
Fermt2	0.562125165	0.187808226	-0.749933392	-1.240236711	-1.18399232	-0.882937282	0.05313162	0.163103592
Rpl36	0.085652454	-0.014893973	-0.070758481	-0.27546495	-0.249774521	-0.240623666	0.00554615	0.016999787
Acot1	-0.084984534	-0.071330127	0.156314661	0.149762961	0.344058795	0.417983242	0.05319998	0.162819291
Ufsp2	-0.06294381	-0.021410617	0.084354428	0.212498033	0.081289247	0.372225937	0.07935495	0.24250008
Cdk5rap3	-0.077392531	0.05833125	0.019061281	-0.237710536	-0.244277961	-0.143000967	0.01597096	0.048731887
Nbas	0.112410914	-0.202279749	0.089868834	1.469226269	0.500933958	0.816922583	0.03727485	0.113564786
Csde1	-0.221873324	0.085065489	0.136807835	0.338808542	0.17693098	0.290617357	0.0919376	0.279683854
Erap1	0.219653408	-0.287565462	0.067912054	0.699165523	0.198697856	0.185917485	0.18543219	0.563257241
Decr2	0.119023873	-0.386096758	0.267072884	0.324002255	0.273287964	0.390222399	0.17615565	0.534277177
Uqcrq	-0.161480418	0.085453789	0.07602663	-0.493612996	-0.111002666	-0.471678721	0.07248128	0.219505438
Abca8b	0.423062706	-0.284806722	-0.138255984	-1.190956739	-1.301402819	-0.612597221	0.02704282	0.08177523
Sqstm1	0.081778911	-25.61010376	-0.081778911	0.877119935	0.373242915	0.679843483	0.04799592	0.144919029
Eif3c	0.213849035	-0.147767521	-0.066081514	-0.200337512	-0.222516076	-0.440508634	0.0976107	0.294286796
Cyp2c68	-0.072381904	0.324062123	-0.251680219	-0.555413719	-0.213205748	-0.353994937	0.13025637	0.392125954
Auh	-0.098534371	-0.022241749	0.12077612	0.177893894	0.917968058	0.732215984	0.05798446	0.174298007
Faf2	0.204493864	-0.117719794	-0.08677407	-0.258968561	-0.255963059	-0.102012865	0.14819567	0.44480689
Hpn	0.262969525	-0.110976877	-0.151992648	-0.523504527	-0.50501737	-0.209360771	0.06854933	0.205444877
Sptbn2	0.193831012	0.528222227	-0.722053238	-1.255800876	-1.350621548	-1.326155342	0.02495031	0.074666388
Nars	0.20999459	-0.065672409	-0.144322181	-0.586849353	-0.447193477	-0.262650408	0.03879601	0.115929584
Snrpd1	0.319313436	-0.318618694	-0.000694742	-0.744719149	-0.369621925	-0.568672972	0.05845347	0.174412045
Psmb8	0.252917861	-0.18577003	-0.067147832	0.737778955	1.008369483	0.02323543	0.14070908	0.419226013
Gsto1	-0.539953524	0.43295035	0.107003175	-1.809960798	-1.249345376	-0.954062321	0.02453141	0.07298093
Tardbp	0.266327919	-0.195722975	-0.070604944	-0.349656446	-0.340680881	-0.77680392	0.07021285	0.208576498
Ido2	0.268580504	-0.203929531	-0.064650973	-0.849913311	-0.755720746	-0.884813955	0.00465201	0.013799136
Arpc1b	0.233653768	0.103516147	-0.337169915	-0.354387118	-0.491701705	-0.173767239	0.15740809	0.46623216
Cap1	0.1051752	-0.071272721	-0.033902479	-0.374432397	-0.345920798	-0.007700443	0.1340657	0.396513037
Nmnat1	0.089151556	-0.086913756	-0.0022378	0.160490417	0.344942489	0.390352629	0.02623978	0.077493549
Copa	0.077306989	-0.058826544	-0.018480444	-0.046448774	-0.450497792	-0.128537202	0.18332952	0.540635006
Ict1	0.047266095	0.014246179	-0.061512274	-0.857932891	-0.260913983	-0.412333219	0.04863583	0.143217295
Anxa1	-0.472771855	0.22011479	0.252657065	-0.492876689	-0.223446955	-0.434932028	0.20006885	0.588283849
Cox6a1	0.013244986	-0.054065069	0.040820083	-0.361809591	0.012187798	-0.600681305	0.15422903	0.452837917
Prkaca	0.149353964	-26.22429554	-0.149353964	0.480148402	0.85859406	0.41359636	0.06944678	0.203609898
Hmgb1	0.777789211	-0.455241325	-0.322547886	-1.185787673	-1.038196151	-1.029464878	0.05126268	0.150078716
Cox5b	0.837760885	-0.372755833	-0.465005052	-0.891304677	-0.853653386	-1.144486629	0.08840096	0.258432293
Taco1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sec22b	0.078541238	-0.005178297	-0.073362941	0.479090204	-0.067395729	0.442848063	0.19225811	0.560429633
Pex11g	0.057151414	-0.116937296	0.059785883	0.686617374	0.297800056	0.067936074	0.13825691	0.402437031
Gulo	-0.051723288	0.158400941	-0.106677654	0.019491049	-0.420685943	-0.71465626	0.17830895	0.518274439
Ggcx	-0.013863163	-0.114132364	0.127995528	1.172756551	0.315721832	0.334208664	0.10529474	0.305611571
Gsta4	-0.573941298	0.149273877	0.424667421	-0.521947774	-0.479388456	-0.562491371	0.15594395	0.451969353
Mrpl21	0.216329212	-0.175521992	-0.04080722	-0.522596351	-0.382154979	-0.603175991	0.01890017	0.054699634
Tap2	0.412939587	-0.462957027	0.050017439	1.091184887	0.135198728	0.579880151	0.18390717	0.531491725
Ube2l3	0.056293698	0.016332533	-0.072626231	-0.477106509	-0.290753403	-0.215128246	0.01942605	0.056061195
Pgls	0.134495477	0.15452774	-0.289023216	-0.640815856	-0.40219066	-0.558380832	0.02931249	0.084471755
Flnb	0.24537542	0.144309407	-0.389684827	-0.413519771	-0.326131211	-0.37587483	0.1345194	0.387102063
Ergic1	-0.050268955	0.020821163	0.029447792	0.438352411	0.139082136	0.204791423	0.05052068	0.145175191
Fau	-0.022077281	-0.063505195	0.085582476	-0.43241683	-0.387448035	-0.033213531	0.10080295	0.289254431
Eif3l	0.27828378	-0.169813731	-0.108470049	-0.191538577	-0.186145628	-0.379141721	0.17661934	0.506091961
Fabp1	-0.155749065	0.098187127	0.057561938	-0.294390658	-0.244911577	-0.028976948	0.169928	0.486229618
Mrpl43	0.287036552	-0.312465054	0.025428502	-0.273554634	-0.284874734	-0.610212612	0.13112274	0.374662852
Pgm1;Pgm2	-0.321706844	0.149978887	0.171727957	-0.632573034	-0.2660592	-0.07905898	0.22741545	0.64888781
Ccdc51	-0.062357907	0.118262964	-0.055905056	-0.428883949	-0.294830857	-0.189830729	0.02869177	0.081751347
Rpl36a	-0.072921046	0.073336123	-0.000415077	-0.32019638	-0.297544419	-0.208268698	0.0071333	0.020296289
Npc1	0.526583662	-0.206653829	-0.319929833	-0.931701069	-1.338150449	-1.350487999	0.01563181	0.044414539
Sec24c	-0.228930186	0.099030839	0.129899347	-0.049320804	-0.494158094	-0.883557589	0.14935423	0.423763832
Cd47	0.362149169	-0.367294184	0.005145014	-0.740003515	-0.888751824	-0.506776589	0.04036396	0.114364554
Ndufs4	-0.013632404	-0.018206673	0.031839077	-0.556283352	0.013155754	-0.501360745	0.128391	0.363265717
Clptm1	-0.130688328	0.134116593	-0.003428264	0.244729416	0.074873913	0.344700709	0.1138507	0.321675942
Rpl8	-0.007427414	0.002575861	0.004851553	-0.209783292	-0.22854841	-0.077843059	0.02241445	0.063241885
Eif1ax	0.076535983	-0.117267118	0.040731134	-0.254651306	-0.376538335	-0.379123838	0.00961661	0.027095261
Sec31a	0.417930166	-0.310557806	-0.10737236	-0.28575402	-0.23682964	-0.663597284	0.19667259	0.553363894
Tbl2	-0.082509041	0.178266462	-0.095757421	0.20032399	0.153922768	0.384570696	0.09617574	0.27022711
Abat	-0.31151879	0.262169099	0.04934969	0.221624081	0.838166433	0.19463464	0.19465689	0.546173221
Erlin1	0.151566282	0.090597841	-0.242164123	-0.793285813	-0.49793676	-0.381323687	0.03231809	0.090553305
Ddah1	-0.232460817	-0.292438137	0.524898954	-0.412074716	-0.646173254	-0.709800847	0.10148637	0.283965324
Ddt	-0.352334485	-0.248451298	0.600785783	-1.020738708	-0.472417373	-0.351150282	0.16782867	0.468946673
Zmpste24	0.084594064	-0.048797554	-0.035796509	0.320537994	-0.023307257	0.28725289	0.17245146	0.481199028
Yif1b	0.196132592	-0.015460301	-0.180672291	-0.383684604	-0.609312788	-0.595226719	0.01567237	0.043671066
Fus	-0.284363677	0.299916965	-0.015553288	-0.378403967	-0.360224171	-0.272210348	0.12169724	0.338643077
Rps6	-0.066835848	0.007946542	0.058889306	-0.202786665	-0.231666423	-0.095549754	0.03289355	0.091406107
Hbb-b1	0.586638349	-0.032395549	-0.5542428	-0.825883009	-0.819755208	-0.439860549	0.12072078	0.335004317
Acat3	0.077958657	-0.144628384	0.066669727	-0.339483814	-0.216214777	-0.154375959	0.05918394	0.164012482
Cyp4a12b	0.444230754	-0.309920969	-0.134309785	0.127592516	0.468862333	0.819170533	0.19429546	0.537701393
Tmx1	0.160291261	0.053062972	-0.213354233	0.476812973	0.100426076	0.486267477	0.10359843	0.286310953
Cnpy2	0.108251157	-0.16996375	0.061712593	0.501338127	0.078700292	0.158986749	0.18843468	0.520059141
Txndc5	0.364845536	-0.17899148	-0.185854056	0.684454718	0.208712739	0.232286226	0.19196293	0.529074938
Xylb	0.028004926	0.061563361	-0.089568287	-0.272763393	-0.17544908	-0.072705754	0.07807117	0.214881601
Atp5d	-0.231149193	0.097097522	0.134051671	-0.489762197	-0.058168347	-0.433239071	0.14062655	0.386531952
Bpnt1	-0.293317468	0.073047832	0.220269635	-0.588990609	-0.314743727	-0.171782341	0.14091608	0.386802217
Rpl9	0.106915773	0.090967618	-0.19788339	-0.123307606	-0.191570916	-0.208086977	0.16387329	0.449208211
Anxa11	0.165030863	-0.207869571	0.042838709	-0.160095695	-0.361311633	-0.490021389	0.08184869	0.224059401
Ugt1a5;Ugt1a2	1.169588427	-0.776965278	-0.392623149	1.14751903	0.677626893	1.192061689	0.17873356	0.4886189
Lgals8	0.081009672	-0.114488369	0.033478697	0.649636625	-0.00786943	0.481975632	0.14293226	0.39021857
Slc29a1	-0.080092095	0.029857933	0.050234162	-0.287447353	-0.347369538	-0.324262172	0.00191831	0.005230097
Pura	0.014217809	-0.189264972	0.175047163	0.540290322	0.131522007	0.332329448	0.10187179	0.277370961
Naa50	-0.093153975	0.063384828	0.029769146	-0.371083293	-0.102662621	-0.434667522	0.05431755	0.147694099
Itpr2	0.182849605	-0.180337563	-0.002512042	-0.30290985	-0.862089108	-0.569375293	0.03983557	0.108170962
Clint1	0.326797499	0.009246622	-0.336044121	-0.156077533	-0.51875431	-0.398359246	0.17787675	0.482365505
Sec14l2	-0.018864795	-0.107574381	0.126439177	-0.277910579	-0.423504429	-0.009631265	0.16356814	0.442969687
Csad	-0.079103643	0.77632762	-0.697223977	0.361845356	0.609220111	1.374808942	0.2105119	0.569338997
Vdac1	-0.015457981	0.078293172	-0.062835191	-0.133925257	-0.062825995	-0.086096522	0.11223755	0.303146288
Snrpd3	0.156840057	-0.031425227	-0.125414831	-0.14961635	-0.567203678	-0.167469651	0.13846616	0.373489394
Rala	0.300381708	-0.22393714	-0.076444568	#DIV/0!	-0.416249161	-0.204560129	#DIV/0!	#DIV/0!
Ptrh2	0.097123052	0.046889252	-0.144012304	0.220757075	0.0942035	0.138505823	0.14006722	0.376803158
Eif3k	0.237047266	-0.082084152	-0.154963114	-0.155729654	-0.247940359	-0.502866729	0.13009056	0.349499605
Dhrs3	0.279850443	-0.130796621	-0.149053823	-0.607818301	-0.341685467	-0.438368362	0.04464202	0.119775598
Slc25a46	0.058206321	0.144689054	-0.202895375	-0.767761061	-0.094634695	-0.394557186	0.13080821	0.350496695

Lasp1	-0.604541056	0.254295673	0.350245383	-0.238987333	-0.386521726	-0.51622584	0.2920952	0.781625105
Bche	0.314291388	-0.211986094	-0.102305294	1.530336267	0.832014591	0.899780247	0.01657996	0.044308138
Sec14l4	-0.047898669	0.046124807	0.001773862	-0.405661326	-0.527141544	0.039807397	0.16317932	0.435503653
Atl2	0.002711426	-0.112459146	0.109747721	0.400088273	0.053813656	0.286885351	0.10967991	0.292335263
Snx2	-0.120844938	0.023182203	0.097662735	-1.750792242	-0.739156622	-0.352067781	0.08808228	0.234461112
Rps25	0.066890615	-0.062037309	-0.004853307	-0.035634619	-0.275918977	-0.144440605	0.12613778	0.335317647
Dnaja3	0.134344989	0.038945041	-0.17329003	-0.268089987	-0.279173179	-0.416236747	0.03522042	0.09350512
Mospd2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Eif3g	0.053311383	-0.005927507	-0.047383877	-0.382443174	-0.256550485	-0.279407318	0.00322378	0.008536253
Tgm2	-0.117235987	0.122755022	-0.005519035	0.225267732	0.01392634	0.442609209	0.18438527	0.487596591
Hmox2	0.164492096	-0.242988534	0.078496439	-0.123268077	-0.498483066	-0.133872925	0.22326159	0.589632122
Slc25a21	-0.12788494	0.232196808	-0.104311868	0.26204589	0.268351055	0.238571835	0.09292514	0.245094599
Dhtkd1	-0.17502578	-2.264966482	2.439992262	2.328258369	3.45214827	2.031851636	0.1423061	0.374850561
Igtp	0.446255808	0.224279486	-0.670535294	1.740963702	0.442608109	0.500582682	0.17531192	0.461191183
Mtnd1	0.356165505	-0.264175168	-0.091990337	-0.447983071	-0.45444312	-0.559594604	0.06088914	0.159972381
Cideb	-0.256510809	-0.087563836	0.344074645	0.537655666	0.261812714	0.292605766	0.14131082	0.370780528
H2-D1	0.146973835	0.032853142	-0.179826978	0.64628119	-0.014205923	0.475717907	0.16840683	0.441304426
Eif3a	0.110269277	-0.151807838	0.041538561	-0.142536437	-0.212810248	-0.339752424	0.07607099	0.199083598
Aimp1	0.297603962	-0.259630467	-0.037973495	0.530326833	0.331626872	0.083881762	0.20267479	0.529730094
Lgals9	0.061830711	0.000167525	-0.061998236	-0.17752492	-0.355349215	-0.134302903	0.04381237	0.114364417
Isoc1	-0.39782652	0.124487009	0.273339511	0.670850625	0.555073613	0.640432789	0.03940703	0.102732512
Rps14	0.05609207	-0.032138863	-0.023953207	-0.17073987	-0.192401602	-0.106925055	0.01468031	0.038221701
Nat8	0.434529911	-0.444008765	0.009478854	0.384572532	1.111469269	0.393063789	0.14622403	0.380220053
Prkcsh	-0.167436392	-0.060863219	0.22829961	0.342349585	0.148210824	0.273478688	0.12415107	0.322410276
Apom	0.152426808	0.213372655	-0.365799463	#DIV/0!	-0.67004636	-0.610694245	#DIV/0!	#DIV/0!
Ca3	-0.167622878	0.04327571	0.124347168	-0.703862993	0.076274756	-0.495634536	0.2069963	0.53617607
Rpl7	0.002630283	0.026557807	-0.02918809	-0.189729049	-0.195902599	-0.062923452	0.03187799	0.082466968
Rmdn2	-0.087952445	0.207258235	-0.119305789	0.227585876	0.162269879	0.17640588	0.14926634	0.38565238
Rps16	-0.078342575	0.019682797	0.058659778	-0.2181806	-0.220039977	-0.104350388	0.0318099	0.082080892
Psma7	0.19041102	-0.324254707	0.133843688	0.413138899	0.684459757	-0.038083463	0.25554079	0.658546529
Mtx1	0.068497403	0.020951601	-0.089449004	-0.267869711	-0.035435787	-0.155766643	0.13475169	0.346822736
Eif2s3x	0.135754888	-0.015361534	-0.120393354	-0.148239913	-0.164530171	-0.109463356	0.13813049	0.355067323
Rps27	0.010964481	0.146974181	-0.157938662	-0.500320391	-0.338570953	-0.357892423	0.01730919	0.044437168
Acsm5	-0.290315586	0.155988566	0.13432702	0.099927468	0.334995979	0.243714484	0.23173862	0.594178983
Rdh16	0.300563754	-0.386504656	0.085940902	0.961468508	0.182296276	0.327886022	0.19289022	0.493945451
Cpt2	-0.013519223	-0.049806673	0.063325896	-0.439062992	-0.100612327	-0.055569425	0.18913594	0.483719359
Ahcy	-0.264806485	0.017596998	0.247209487	-0.91669909	-0.026595855	-0.283692021	0.24854165	0.634848177
Mtfr1l	0.50932227	-0.274809036	-0.234513234	-1.266911445	-0.873106196	-1.105872667	0.01795211	0.04579711
Hnrnpu	0.148526266	-0.033556196	-0.11497007	0.008406366	-0.391887434	-0.222193934	0.22199429	0.565610138
Msn	0.804204168	0.048363783	-0.852567951	-0.770564281	-0.836872178	-0.699146981	0.18484187	0.470358612
Slc16a1	-0.164624122	-0.023868396	0.188492519	0.163518839	0.18042736	0.681787316	0.16022456	0.407203873
Mrps18a	0.040833344	-0.077355011	0.036521667	-0.241233974	-0.083592497	-0.416584345	0.07566048	0.192046604
Cald1	-0.103940174	0.10223949	0.001700684	-0.414000233	-0.517077245	-0.084854964	0.07737426	0.196150532
Zc3h15	-0.012550349	-0.014411737	0.026962086	0.193244709	0.07900192	0.076528011	0.04640589	0.117495764
	-0.292018213	0.092944846	0.199073367	0.249992918	0.175443027	0.291516769	0.19333057	0.488884672
Hprt1	-0.080253634	-0.041524481	0.121778114	0.012898597	0.30429566	0.638324207	0.17071988	0.431168933
Eif3h	0.202885488	-0.136821364	-0.066064124	-0.113358379	-0.18324925	-0.456190061	0.16329865	0.411911671
Mtfp1	0.013284162	0.137655057	-0.15093922	-0.263333244	-0.170002562	-0.590822342	0.08880223	0.223719689
Slc10a1	-0.32851291	0.182544062	0.145968848	-0.273123142	-0.28492796	-0.103558387	0.27542661	0.693019927
Rpl31	-0.020836868	0.094909021	-0.074072153	-0.196274969	-0.294185916	-0.060702219	0.09422409	0.236789239
Gckr	0.186328562	-0.374270066	0.187941503	-0.790040332	-0.939972769	-0.478170417	0.03348148	0.084036014
Rps4x	0.073211207	-0.019569779	-0.053641427	-0.153588005	-0.232930795	-0.069802911	0.06563338	0.164530771
Ftcd	0.285979659	-0.423803339	0.13782368	0.270262037	0.594829167	0.213362403	0.21875989	0.54771196
Lap3	-0.268195445	0.030687166	0.237508279	0.050309323	0.603836769	0.226010203	0.25245157	0.63128494
Mrpl38	0.380253841	-0.387399981	0.00714614	-1.253719441	-0.286603686	-1.193095136	0.07624285	0.190418863
Btd	0.053754751	0.016260222	-0.070014972	0.118926213	0.376124706	0.307541582	0.03482079	0.086858767
Ociad2	-0.16624606	0.082450254	0.083795806	0.580997067	0.213679759	0.200908514	0.09108174	0.226919152
Mpdu1	0.224881234	-0.271059575	0.046178341	1.305004135	0.555656729	0.62359551	0.04156393	0.103424146
Slc35d1	-0.260671512	-0.074301649	0.334973161	0.386841796	0.28091826	0.254429654	0.16378454	0.407046828
Psme1	0.227540815	0.17544647	-0.402987285	-0.399839189	-0.46816306	-0.095802546	0.23871208	0.592533162
Ndufa4	-0.030701537	0.003767083	0.026934454	-0.340376206	-0.071847716	-0.211980319	0.05862478	0.145340604
Ndufab1	0.371610236	-0.176487139	-0.195123097	-0.560371769	-0.243184315	-0.695388961	0.09470943	0.234513076
Surf1	-0.186910432	0.094846968	0.092063464	-0.323680386	-0.428135233	-0.172633343	0.06114903	0.151227971
Cd302	0.356548976	-0.253932079	-0.102616897	-0.135150691	-0.499221058	-0.480437583	0.16406372	0.405251419
Manf	0.234854457	-0.007718122	-0.227136335	0.780212205	0.222247805	0.048373662	0.24601514	0.60693736
Sntb1	-0.023268759	0.192700515	-0.169431756	-0.037666382	-0.503091078	-0.163365774	0.24940582	0.614552959
Pex19	-0.008544142	0.188052785	-0.179508642	0.529585511	0.323266243	-0.000705633	0.20404701	0.5021741
Cpox	-0.302382535	0.040221662	0.262160873	0.641767803	0.395402406	-0.003657103	0.23971712	0.589243896
Spr	-0.092119484	0.099571921	-0.007452437	-0.451484637	-0.436853403	0.083586552	0.21964462	0.539248856
Aldh4a1	-0.28866778	0.204352596	0.084315184	0.160149224	0.598572263	0.153433287	0.21959493	0.538473396
Agpat6	0.013092122	-0.243055126	0.229963004	0.999952107	0.089193132	0.309962875	0.20273228	0.496522278
Man1a1;Man1a	0.102874739	0.052224122	-0.155098861	-0.287519373	-0.342389634	-0.117413454	0.07472526	0.18279225
Cisd2	0.154320166	-0.16131763	0.006997464	0.39678163	0.034638561	0.378898585	0.1440883	0.352041816
Aqp11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc25a23	0.073024326	0.124264071	-0.197288397	-0.28904254	-0.082817804	-0.163627551	0.19993537	0.48731235
Tmem33	-0.131177321	0.050809246	0.080368075	0.870884492	0.168639529	0.292544858	0.12124934	0.295171384
Abhd16a	0.015106932	-0.051711841	0.036604909	0.268873055	0.020188847	0.400582445	0.1154541	0.280725522
Rpsa	0.208611079	-0.035046385	-0.173564694	-0.070055751	-0.359842947	-0.246708862	0.18237664	0.442914693
Mtx1	0.134042099	0.053516932	-0.187559031	-0.444144561	-0.257717737	-0.233129716	0.05664684	0.137405942
Lta4h	-0.305454163	0.213046338	0.092407825	-0.613659811	-0.020558322	-0.725430454	0.16734446	0.405434551
Psma4	0.151249246	-0.339876607	0.188627361	0.577685322	0.739510065	-0.154307589	0.29686442	0.718369283
Lima1	-0.033560958	-0.0629732	0.096534158	-0.055274194	-0.342834838	-0.333233586	0.08348938	0.201790937
Tst	-0.248628816	0.197122121	0.051506695	-0.035817231	0.611889399	0.331889955	0.25663578	0.619539592
Eif4a3;Gm8994	0.162941389	0.126682023	-0.289623412	-0.629677822	-0.344672018	#DIV/0!	#DIV/0!	#DIV/0!
Nnt	0.016756495	-0.039112292	0.022355797	-0.172250572	-0.051149992	-0.139629492	0.0423783	0.102061073
Gna13	0.017623902	-0.013462727	-0.004161175	-0.205586506	#DIV/0!	-0.102825643	#DIV/0!	#DIV/0!
Tpi1	-0.351451891	0.218131335	0.133320557	-0.568626813	-0.37655745	0.028392422	0.28846475	0.693069096
Akr1c12	-0.017994073	0.114556619	-0.096562546	-0.675866805	-0.7547741	-0.074914273	0.08793888	0.211032442
Ndufa1	0.11245447	-0.301804743	0.189350273	-0.458205293	-0.306376695	-0.269849872	0.10196441	0.244400475
Bcs1l	0.222903378	-0.034526222	-0.188377156	-0.630212713	-0.277497867	-0.50839146	0.04074125	0.097537937
Cryz	-0.437615089	0.201480115	0.236134974	0.12296514	0.265909077	0.537104144	0.28528254	0.682182711
Sacm1l	-0.024876427	-0.053383472	0.078259899	0.41368723	0.00051325	0.138362987	0.22316411	0.533011798
Eif3e	0.383529159	-0.249059741	-0.134469418	-0.209058237	-0.238976749	-0.618555148	0.20489886	0.488809419
Crot	-0.324316215	-0.115861867	0.440178082	0.273037063	0.250862334	0.458452473	0.24000785	0.571891496
Metap2	-0.046099491	-0.107139997	0.153239489	-0.21805978	-0.36150384	-0.128304333	0.08561169	0.203755822
Mrps17	0.336115072	-0.36185824	0.025743168	-0.164757497	-0.288982086	-0.653856513	0.21320444	0.506830293
Timm17b	-0.206127178	0.209303421	-0.003176243	-0.413299739	-0.415181267	-0.189348713	0.07445395	0.176784437
Mrps22	0.189412489	-0.132186405	-0.057226084	-0.469471174	0.045626057	-0.760675911	0.19639648	0.465779692
Pam16	0.409606554	-0.295483813	-0.114122741	-0.189767169	-0.509657978	-0.393344968	0.19016729	0.450478242
Pex11b	-0.229334102	0.164423421	0.064910681	0.191192799	0.175839676	0.561027567	0.14774697	0.349581429
Pisd;Gm20671	0.311576195	-0.255018473	-0.056557721	0.489167009	0.270046645	0.543923773	0.07965555	0.188251371
Rpl6;Gm5428	-0.035457859	0.080294122	-0.044836264	-0.237392055	-0.211538939	-0.138185392	0.01735598	0.040969837
Soat2	-0.090932495	0.101114183	-0.010181688	-0.416741084	-0.296059363	0.002000632	0.15721255	0.370677141
Oxsr1	0.356946709	0.007281586	-0.364228295	-0.511881852	#DIV/0!	-0.706207339	#DIV/0!	#DIV/0!
Myh9	0.001951081	-0.037985653	0.036034572	-0.179443027	-0.342215147	0.05685778	0.2587971	0.608775031
Gbe1	-0.118041097	-0.090594714	0.208635811	0.634070506	0.95894139	-0.292849766	0.32804483	0.770771997
Ran;1700009N14Rik	-0.060064144	0.16961913	-0.109554986	-0.246723351	-0.476266107	-0.027274209	0.18318976	0.429922143
Myl6	0.170608171	0.005872276	-0.176480447	-0.13824292	-0.303030972	-0.048575508	0.26119174	0.612272185
Ctsc	0.084584184	-0.338642317	0.254058133	-0.517024848	-0.26629159	#DIV/0!	#DIV/0!	#DIV/0!
Apoa5	-0.080534702	-0.014327731	0.094862433	-0.24308875	-0.36195143	-0.107399361	0.05690071	0.133075308
Synj2bp;Gm20498	0.037752249	0.01009457	-0.047846818	-0.315639228	-0.04868353	-0.191441932	0.08450411	0.197403944
Sec13	0.300603965	-0.217587068	-0.083016897	-0.080245821	-0.291070125	-0.443152332	0.22127796	0.516315244
Arpc3	0.444968926	-0.30295677	-0.142012156	-0.335716454	-0.418468733	-0.357498768	0.18037766	0.42039632
Isoc2a	-0.0130057	0.158778923	-0.145773224	1.175150708	0.872746913	0.477842378	0.01874964	0.04364848
Ctage5	-0.062524064	0.052859519	0.009664544	0.208118106	-0.032550875	0.208490614	0.21536348	0.500781965
Atp5e	-0.022756387	0.075061317	-0.05230493	-0.657759335	-0.144363232	-0.145308375	0.14589448	0.338857089
Psmd6	0.321902084	-0.291466587	-0.030435497	0.388120833	0.604731327	0.0136749	0.24713916	0.573351517
Banf1	0.228828363	0.095452824	-0.324281187	-1.837119249	-0.284457838	-1.423916591	0.07468868	0.173075824
Capza1	0.424939332	-0.287017786	-0.137921546	-0.392511229	-0.586946901	-0.432085534	0.10442382	0.241704095
Mug1	0.0637413	0.100283843	-0.164025143	-0.130782429	-0.033133665	-0.180957975	0.28575593	0.660667705
Psmb1	0.260399744	-0.38554467	0.125144926	0.54514013	0.677954965	-0.090957142	0.2879666	0.665018767
Cluh	0.39162022	-0.360777307	-0.030842913	-0.285744629	-0.215587431	-0.382681196	0.25700685	0.592844751
Mrpl16	0.376648405	-0.289657332	-0.086991073	-0.353342981	-0.550807893	#DIV/0!	#DIV/0!	#DIV/0!

Ptplb	-0.222646	-0.034375992	0.257021992	0.664065679	0.044111084	0.380211032	0.18538718	0.42666469
Cyp2d26	0.068521038	-0.167832399	0.099311361	0.023114154	-0.168100807	-0.569344352	0.28676099	0.659224412
Eif3d	0.200050802	-0.209011267	0.008960465	-0.017166476	-0.207032609	-0.49345344	0.25903977	0.594821174
Rps7;Gm6472;Gm9493	0.109441101	-0.045963336	-0.063477766	-0.062280332	-0.225762075	-0.113648476	0.14111755	0.323674377
Stom	0.229112899	-0.18925287	-0.039860029	-0.275443196	-0.437698246	-0.039544234	0.21040945	0.482059257
Abcf2	-0.150535099	0.14066197	0.009873129	0.2315299	0.063337865	0.253759448	0.15186752	0.347542981
Sec61g	0.34889216	-0.114014006	-0.234878154	-0.577498246	-0.261159578	-0.701352969	0.08085588	0.184826502
Rars	0.218656913	-0.250481261	0.031824347	0.251295005	0.402530985	0.000204056	0.29223538	0.667259779
Acadsb	0.084421973	0.000631057	-0.08505303	0.059326167	0.483177975	0.075442722	0.23389733	0.533454666
Tmod3	0.047120607	0.221074404	-0.268195011	-0.788049498	#DIV/0!	-0.623536165	#DIV/0!	#DIV/0!
Letmd1	-0.022228558	0.144242046	-0.122013488	-0.529101039	-0.200844378	-0.280530911	0.05526308	0.125756149
Glod4	-0.061330323	-0.060053396	0.121383718	-0.348654596	-0.204457046	-0.143529494	0.05394841	0.122626548
Amfr	0.024928844	0.055110104	-0.080038948	0.408784666	-0.030677008	0.259325175	0.19154273	0.434894427
Pemt	-0.54442773	0.266339672	0.278088058	0.289078506	0.545322352	0.372189644	0.22763662	0.516265562
Slirp	-0.121388615	-0.211756161	0.333144776	0.411536551	0.764466197	0.075658516	0.184787	0.418616018
Ywhah	-0.144934225	0.413870537	-0.268936312	0.204389285	0.303406661	0.61062952	0.19980225	0.452125226
Fgb	0.018978756	0.024537466	-0.043516222	-0.056037764	-0.215198483	-0.424118433	0.10014132	0.226352952
Ppif	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Serpina1b	0.099204859	0.076211159	-0.175416018	1.602086819	0.567984166	0.328200527	0.10618154	0.239470742
Rps10	0.105460745	-0.078621161	-0.026839584	0.011594692	-0.197608398	-0.254602723	0.20733151	0.467073092
Ncln	0.077232333	-0.025655234	-0.051577099	0.129648267	-0.007938668	0.443906226	0.24757267	0.557107344
	0.383019145	-0.018385818	-0.364633327	-1.151724159	-0.176053488	-0.529062353	0.15869866	0.35671932
Pdcd4	0.495782666	-0.274546479	-0.221236188	-0.610061491	-0.517740941	-27.27482168	0.17867356	0.401172703
Eef1e1	0.173920356	-0.600126436	0.42620608	0.797497579	0.704318134	-0.145071978	0.35267888	0.79098601
Nmnat3	0.06322917	-0.214373357	0.151144186	-0.258461847	-0.189541697	-0.912565651	0.15038172	0.336901684
Rps29	0.062605895	-0.178721976	0.116116082	-0.354818733	-0.293846806	-0.235198465	0.03854877	0.08626566
Ces2g	0.53933608	-0.341620529	-0.197715551	1.099803042	0.444612862	0.197068804	0.20454323	0.457227573
Ifi47	0.497740795	-0.088872002	-0.408868793	-0.298190029	-1.011267182	-0.696258098	0.11764183	0.262681491
Bcap31	-0.210555452	0.058385753	0.152169699	0.223006202	0.220679089	0.336321074	0.08698782	0.194020232
Trabd	0.013399092	0.294682573	-0.308081665	-0.53375245	-0.163936709	-0.292135557	0.18300985	0.407741117
Jup	0.145114067	-0.099344218	-0.045769849	-0.585799582	-0.614575469	-0.200964138	0.03760805	0.083697555
Usp10	-0.203031416	0.150670072	0.052361344	0.297716068	0.019410631	0.438302441	0.19517383	0.433886441
Dnajb12	-0.244441927	0.119595139	0.124846788	0.166463976	0.059600151	0.458346907	0.25236659	0.560414492
Nploc4	0.307255459	-0.212425311	-0.094830148	-0.543590153	-0.392468206	-0.611536256	0.03869978	0.085843925
Hint1	-0.577459849	0.27861327	0.298846579	-0.830782923	-0.3408291	-0.09442625	0.30716836	0.680615109
Coro1c	-0.448567436	-0.038696517	0.487263953	-0.089023144	-0.757049714	-0.615661513	0.22358023	0.494860828
Ssb	0.533931023	-0.19174199	-0.342189033	-0.334242498	-0.527867994	-0.409510624	0.1997659	0.441668221
Cyp3a11	-0.296313014	0.410713249	-0.114400236	0.728081484	0.704282774	-0.242542584	0.35952391	0.794014054
1300002K09Rik	-0.012683071	-0.06046378	0.073146851	-0.123861981	-0.349410468	-0.760343882	0.0968884	0.213746154
Mrpl12	-0.148527609	-0.044128827	0.192656436	-0.379324932	0.047517829	-0.470999387	0.22970165	0.506194377
Tmem97	-0.180976905	0.322687468	-0.141710563	0.982823052	0.737367495	-0.032866438	0.17946097	0.395048463
Stt3b	0.086244887	0.01262669	-0.098871577	0.185736689	-0.01242683	0.201416236	0.22597995	0.496910258
Csnk2a1	0.984984399	-0.910466296	-0.074518103	-0.976047289	-1.052611154	-1.011870859	0.13855078	0.304330333
Fxr1	-0.208292267	0.183735082	0.024557185	0.249185435	0.285381022	0.246673538	0.08534936	0.187268709
Lcp1	0.330815692	0.045561322	-0.376377014	-0.448827493	-0.537404369	-0.205485063	0.15659889	0.343228118
Eif2b4	0.241535435	0.152323115	-0.39385855	-0.608119412	-0.248737499	-0.09390153	0.27414569	0.60021291
Serpina1d	0.146320404	-0.092546115	-0.053774289	0.387037793	0.078716898	0.053510843	0.25472686	0.557094527
	0.544781521	-0.32909263	-0.215688892	-0.888929976	-0.965688711	-0.785737012	0.03446081	0.075285334
Gna11	0.365039614	-0.204585036	-0.160454578	-0.2116712	-0.74183883	-0.583881768	0.10080666	0.219991227
Mrpl55	0.076182028	-0.033674431	-0.042507597	-0.5792195	-0.21586646	#DIV/0!	#DIV/0!	#DIV/0!
Dgat1	-0.246111106	0.118144163	0.127966944	-0.175161127	-0.220888401	-0.261402471	0.15591396	0.33951984
Uggt1	0.165024517	-0.054537463	-0.110487054	0.295025683	0.086185983	0.059526256	0.26093339	0.567600274
Gphn	0.073086979	0.065421662	-0.138508642	-0.214626802	-0.050966845	-0.622512715	0.18202199	0.39552146
Upf1	0.086318612	-0.226425845	0.140107233	0.238453502	0.039993237	0.268485242	0.2479147	0.538123858
Tap1	0.340860295	-0.180566149	-0.160294146	1.531271244	0.135000318	0.60012145	0.16443347	0.356536882
Mrpl47	0.037175971	-0.061551182	0.024375211	-0.348054857	-0.123426713	#DIV/0!	#DIV/0!	#DIV/0!
Rbp4	0.022664618	0.158210409	-0.180875027	0.334973151	0.226372604	0.143601953	0.10619578	0.229769054
Ctnna1	-0.01718916	0.094877728	-0.077688568	-0.042235992	-0.393359874	-0.476511838	0.09957005	0.215203206
Lyn	0.338500036	-0.21914433	-0.119355706	-0.300504756	-0.484444142	-0.454331147	0.08444008	0.182307659
Ssr4	-0.052119338	0.142664878	-0.090545541	-0.246807897	-0.237176728	-0.032753103	0.16143589	0.348171433
Ica;1300017J02Rik	0.000459754	0.086481798	-0.086941552	0.512172164	0.132009693	0.109338969	0.14708368	0.316879968
Btf3	0.080894014	0.053272488	-0.134166502	-0.094958804	-0.130711366	-0.207282716	0.12755948	0.274524291
Hadha	0.21266801	-0.154630058	-0.058037952	-0.319179848	-0.289375014	0.005984901	0.25470049	0.547565441
Sec24d	0.008971179	0.150468372	-0.15943955	-0.082288497	-0.419701328	-0.295409148	0.1166252	0.250459436
Sar1b	-0.335088888	0.070552543	0.264536344	0.45947518	0.108438215	0.374585306	0.2017249	0.432756604
Coq9	-0.296114805	0.076225119	0.219889686	-0.071140291	0.593076973	0.345584503	0.30735278	0.65865962
Rac1;Rac3	-0.084419742	0.148585962	-0.06416622	-0.262790681	-0.467248337	0.041461393	0.23780345	0.509075538
Bckdhb	0.483418857	-0.415116926	-0.068301931	-0.33900829	-0.129169154	-0.696849336	0.27814187	0.594800215
Rps20	0.007008981	0.059885665	-0.066894646	-0.344145352	-0.09247265	-0.122983534	0.09974347	0.213073948
Uox	0.101792635	-0.263365068	0.161572434	-0.375678334	-0.00359987	-0.266650304	0.2805781	0.598744195
Rplp2	-0.026390599	0.082730594	-0.056339994	-0.136724725	-0.089491819	-0.207894593	0.05667234	0.120809431
Endog	0.122679989	-0.389213114	0.266533125	-0.534043593	0.105333493	-1.177945665	0.27178987	0.578769369
Spcs3	0.083375059	0.085173	-0.168548059	-0.102931577	-0.177692645	-0.160383585	0.16730916	0.355905809
Slco1b2	-0.148350962	0.063212192	0.08513877	0.080416456	-0.581878621	-0.367461836	0.23772947	0.505175127
Gsta3	-0.379106264	0.258210765	0.1208955	-0.582831519	-0.179436133	-0.072064211	0.32547554	0.690909767
Gng12	-0.157143023	-0.097555912	0.254698935	-0.265987399	-0.28399254	-0.081617825	0.21717932	0.46053854
Cpt1a	-0.074911611	0.028201626	0.046709985	0.089842856	0.02509197	0.394691122	0.23003419	0.487287084
Cyp51a1	0.234939524	-0.028168672	-0.206770852	-0.053059754	-1.016725927	-0.078050082	0.32602099	0.689895872
Ap3d1	0.436167112	-0.403534805	-0.032632307	-1.075028514	-0.1744734	-0.296986957	0.23830546	0.503753337
Naga	0.425890757	-0.432079906	0.006189149	-0.484869785	-0.352960719	#DIV/0!	#DIV/0!	#DIV/0!
Vtn	0.153592376	0.002751675	-0.156344051	-0.113902643	-0.248404459	-0.165495874	0.14605212	0.30809535
Sdhb	-0.167755857	0.073520136	0.094235721	-0.486698732	-0.055960553	-0.106491704	0.24727425	0.521078964
Serpina1e	0.760803734	0.144641586	-0.90544532	-0.321631818	-0.794786268	-0.751360404	0.28865078	0.607638427
Pla2g12b	-0.165517332	0.136661309	0.028856023	0.404534571	0.24889709	0.16880325	0.07112969	0.149579386
Snx9	0.158244385	-0.131207196	-0.027037189	-0.298152882	#DIV/0!	-0.498674414	#DIV/0!	#DIV/0!
Mup3;Mup21	-0.074292012	0.314844831	-0.240552819	0.7521966	0.542086138	-0.053575107	0.22975022	0.482141807
Esd	-0.375824896	0.213840349	0.161984547	-0.481627887	-0.241740328	-0.021577289	0.34219968	0.71737818
Lonp2	0.166443913	-0.069199089	-0.097244824	0.276302312	-0.058079872	0.257401711	0.31138829	0.652110258
Samm50	-0.008342193	-0.030381649	0.038723842	-0.099995662	-0.052424046	-0.041371962	0.07627394	0.159567919
Mrps7	0.14839918	-0.238691573	0.090292393	-0.161527446	-0.181796236	-0.542270058	0.1625441	0.339697023
Gorasp2	-0.246501201	-0.082806282	0.329307483	-0.132383643	-0.428562664	-0.26122326	0.22576744	0.471339045
Ifitm3	0.05765276	-0.152002256	0.094349496	-0.308756763	-0.473738055	-0.167936107	0.05370708	0.112009714
Ehhadh	0.024385875	-0.526472816	0.502086941	0.340475993	0.465840479	0.273144936	0.30000797	0.62504235
Hspa9	-0.154761049	0.113831666	0.040929383	-0.089071708	0.417525121	0.223745606	0.33468056	0.696562527
Gm17669;Rpl29;Gm10709;Gm5218	-0.224214404	0.213959356	0.010255048	-0.3599724	-0.367464534	-0.051030681	0.18874547	0.392427628
Pigk	0.00489634	-0.1016007	0.096704361	0.324016183	-0.029039217	0.268007526	0.20363988	0.422960446
Hnrnpf;Gm6430	0.476460989	-0.205216719	-0.27124427	-0.306068467	-0.588641043	-0.719388641	0.11542669	0.239495588
Ndufs5	-0.17037722	0.170336882	4.03E-05	-0.33667431	0.00045531	-0.388574382	0.19791746	0.410232604
Lin7c	-0.038604863	0.057081572	-0.018476709	-0.066774089	-0.407838011	-0.390436884	0.06572232	0.136086238
Ugp2	0.061910039	-0.077299952	0.015389913	-0.039861267	0.383460144	0.115719032	0.30489451	0.630676477
Slc4a1	2.247099207	-0.900401701	-1.346697506	-1.189353672	-2.0022157	-2.871119878	0.17593347	0.363547918
Fam162a	-0.177661118	0.027563841	0.150097277	-0.245336965	-0.08176656	-0.164093556	0.19948261	0.411789101
Uqcrh	1.145389319	-0.7352712	-0.410118119	-0.775739615	-0.798138111	-0.914091349	0.2272406	0.468611346
Rplp1	0.258673678	0.035981367	-0.294655046	-0.331777023	-0.247577984	-0.907457214	0.13190307	0.271731067
Tubb5	0.236692004	-0.029540493	-0.207151511	-0.285227831	-0.477856214	-0.086951383	0.17360008	0.357266501
Psma5;Gm8394	0.02112524	-0.187712085	0.166586845	0.51426628	0.775531662	-0.282595028	0.3722296	0.765264705
Eef1d	-0.223409417	0.102252393	0.121157024	0.186526765	0.203430295	0.038597779	0.31172436	0.640221712
Mri1	-0.259093053	0.366500063	-0.107407009	-0.756672166	-0.354242168	-0.080399955	0.2183008	0.447893013
Acsl4	-0.289890064	0.015881812	0.274008251	-0.193782259	-0.339977432	#DIV/0!	#DIV/0!	#DIV/0!
Arpc1a	0.582717876	-0.350789833	-0.231928043	-0.357032624	-0.561947193	-0.630341929	0.1652805	0.338423531
BC017158	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rpl21	-0.0540076	0.005351833	0.048655766	-0.263509809	-0.263058066	-0.136148759	0.01299106	0.02654638
Rps15a	0.010109699	-0.031922443	0.021812744	-0.281964411	-0.204010331	-0.024471745	0.09448374	0.192876486
Ltn1	0.008571048	0.028062729	-0.036633777	-0.676070639	#DIV/0!	-0.4107005	#DIV/0!	#DIV/0!
Stt3a	0.029522052	0.048863531	-0.078385583	-0.13457229	-0.174695445	-0.065615716	0.06974565	0.142090079
Rab2a;Rab2b	-0.053821163	0.04354005	0.010281113	0.451907273	-0.091789551	0.338407899	0.23810212	0.484588116
Ube2d3	-0.07232585	0.15628119	-0.08395534	-0.324494196	-0.207453116	-0.052620233	0.15397388	0.313054432
Eif3f	0.354690726	-0.218881845	-0.135808881	-0.03947004	-0.312656759	-0.579212023	0.26087736	0.529874405
Fga	-0.078936715	0.045979832	0.032956883	-0.105965286	-0.347787275	-0.044669916	0.17420572	0.353478597
Hspa5	-0.042620793	0.114813798	-0.072193005	0.216922369	0.013392734	0.140772153	0.21051235	0.426719913
Rpl4	0.004718275	0.033655669	-0.038373945	-0.138152176	-0.2832144	-0.033234353	0.11495072	0.232778079
Dnpep	0.139300173	-0.170267251	0.030967078	0.206060594	0.692462103	-0.050055583	0.29671035	0.600245034
mt-Co2;Mtco2	0.311857232	-0.041194861	-0.270662371	-0.143020356	-0.2290051	-0.622788518	0.21413437	0.432761076

Dpyd	0.152329724	-0.217360665	0.065030941	-0.564602814	0.100528173	-0.378866313	0.28419786	0.573784696
Gpx4	-0.056711567	0.03486205	0.021849517	0.082095556	0.071417568	1.065690884	0.28670495	0.578269315
Prhoxnb	0.103650925	0.167219005	-0.27086993	#DIV/0!	-0.53516959	-0.184836947	#DIV/0!	#DIV/0!
Hadhb	0.186597839	-0.183713793	-0.002884046	-0.304369625	-0.245159658	0.048128122	0.33510984	0.674554429
Gbf1	-0.025020586	0.045524717	-0.02050413	-0.473212253	-0.34094363	-0.643102341	0.00578826	0.011639819
Agpat3	0.175223137	-0.250078549	0.074855412	0.5552603	-0.067865304	0.326552154	0.29004719	0.582686666
Akap9	-0.127600034	0.199902259	-0.072302225	-0.28810547	-0.517314711	-0.035706853	0.17844375	0.358126689
Cyp4a10;Cyp4a32	1.356635289	-1.431016836	0.074381548	-0.785027105	-0.308399806	-1.694931554	0.36123871	0.724267492
Rpl37a	-0.118625726	0.091239384	0.027386342	-0.168390074	-0.167436856	-0.153968696	0.0587226	0.117619616
Rps3a;Rps3a2;Rps3a3	-0.022220678	0.020931465	0.001289214	-0.202722221	-0.186407218	-0.053284571	0.03943241	0.078903819
Rpl18	-0.027328018	0.006003142	0.021324876	-0.319032211	-0.095699865	-0.062862808	0.12332309	0.246524319
Bhmt	0.062691292	-0.178342926	0.115651634	-0.336183979	-0.130790528	-0.017029216	0.28248618	0.564135771
Kars	-0.022448639	-0.233244466	0.255693106	0.150066802	0.462557699	0.039269489	0.31660395	0.631646745
Dhrs1	-0.204048273	0.227352816	-0.023304543	0.274532914	-0.080123041	0.489142434	0.33451421	0.66672143
Usp5	0.085238697	0.19184877	-0.277087468	-0.831971774	-0.298286399	-0.122920737	0.17824691	0.354914866
Sepsecs	0.212229973	-0.214338003	0.00210803	-0.156709363	0.009347408	-0.683529101	0.31705635	0.630683383
Ca2	0.428856421	-0.156829718	-0.272026703	-0.471922026	-0.266844511	-0.183718823	0.25787556	0.512458005
Prkar2a	0.089314164	0.076447008	-0.165761171	0.144331497	0.341678969	0.018913099	0.25044475	0.497202872
Rps19	-0.010822671	-0.103337173	0.114159844	-0.140949616	-0.199467421	-0.100964328	0.10066788	0.199657955
Psmb9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Snap47	0.061767255	0.098545845	-0.160313101	-0.489357434	-0.153319676	-0.230860408	0.08836078	0.17490592
Vat1	-0.105459577	0.042831164	0.062628413	0.498646563	-0.01229056	0.155142083	0.25102267	0.496401632
Tmem19	-0.088699048	0.060301778	0.02839727	0.126869506	0.224947295	0.046986599	0.12451544	0.245990955
	0.002559426	0.113764788	-0.116324213	-0.034520208	-0.21828681	-0.240406781	0.15223989	0.300469566
Gcn1l1	0.117838038	-0.007910114	-0.109927924	-0.094544891	-0.532299383	-0.377121868	0.08089451	0.159502535
Epn1	0.347314678	-0.106985721	-0.240328957	-0.307286571	-0.630722468	-0.319333452	0.1128794	0.22235154
Kmo	0.023602074	-0.004330691	-0.019271383	0.04678283	-0.103846362	-0.414391138	0.31328702	0.616517154
Park7	-0.360798367	0.266906831	0.093891536	-0.55373527	-0.144294541	-0.023202665	0.38478297	0.756478088
Hspa4	-0.01243817	0.000361056	0.012077115	-0.202186403	-0.247774043	-0.027524457	0.07781787	0.152840332
Mrpl3	0.283705629	-0.357518251	0.073812622	-0.183858198	-0.292963491	-0.228486894	0.28662492	0.562407572
Afg3l2	0.071561444	0.013887725	-0.085449169	-0.191287983	-0.138308018	-0.08117878	0.07014648	0.137506127
Psmd3	0.263424739	-0.275178422	0.011753683	0.442950475	0.463807199	-0.137444988	0.36480319	0.714420957
Amy1	-0.098021865	0.122004811	-0.023982946	0.209487014	0.131615531	0.151196939	0.0753897	0.147498411
Capzb	-0.067965249	-0.055540243	0.123505493	-0.207065963	-0.216910543	-0.175607369	0.03394049	0.066339715
Timm9	-0.026922026	0.244622655	-0.21770063	-0.125610354	-0.100366104	-0.733482744	0.26445765	0.516407164
Aldh9a1	-0.258725402	0.173190409	0.085534993	-0.071319596	0.361168259	0.27827477	0.36829345	0.718474101
Bnip1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fahd1	-1.048044834	0.640060267	0.407984567	0.701802413	1.023262627	0.454699624	0.25940895	0.505085961
Tmed4	0.035168051	-0.196823106	0.161655055	0.083280689	0.101605039	0.358470076	0.25818469	0.502218869
ptplad1	0.104698388	-0.077654164	-0.027044224	0.202703931	-0.004086426	0.205800013	0.20109385	0.390790443
Lrrc47	0.451949216	-0.161587868	-0.290361347	0.012267415	-0.583601713	-0.825910363	0.24065813	0.467227818
Mbl1	-0.315086502	0.134699727	0.180386775	0.587825726	0.079720222	0.132271649	0.30326714	0.588216123
Kpnb1	0.366215237	-0.040129629	-0.326085608	-0.568888312	-0.578747755	-0.405632723	0.06801898	0.131803058
Cml2	-0.052952231	0.054809969	-0.001857738	-0.019342085	-0.116446646	-0.031702712	0.26946083	0.521645216
Rpl27	-0.037463194	0.017537017	0.019926177	-0.415864887	-0.234041206	-0.02871836	0.11678312	0.22586257
Sec62	-0.294455596	0.156913648	0.137541948	0.147345955	0.172926666	0.280989803	0.26017086	0.502698813
Adh1	-0.105131867	0.131529626	-0.026397759	-0.283164938	-0.360397674	0.06184167	0.25833731	0.498679748
Slc25a25	-0.29600864	0.06617848	0.22983016	-0.047028577	-0.33686163	-0.562888191	0.21686368	0.418222335
Acss2	0.257417622	-0.180165699	-0.077251923	-0.591594035	-0.32177357	-0.179135549	0.11178107	0.215364862
Stx4	0.114267598	0.021218737	-0.135486334	-1.259495091	-0.290587462	-0.184985435	0.17341218	0.333789566
Aldh1b1	-0.14989716	-0.445787102	0.595684262	0.142144982	1.246648128	0.184609301	0.33234674	0.639104051
Mrpl19	0.448311291	-0.130820625	-0.317490666	-0.280730463	-0.378190533	-1.027112803	0.16244457	0.312084869
Gm20390;Nme2	-0.319838656	0.267438818	0.052399839	-0.466999443	-0.146188055	-0.061547317	0.34726429	0.666523393
Actn1	0.263235724	0.06404475	-0.327280474	-0.22809265	-0.144742876	-0.556323386	0.22166431	0.4250492
Abcb7	0.313101345	-0.036544628	-0.276556717	-0.195328693	-0.235568347	-0.35569325	0.21441496	0.410758953
Cpne3	0.070485231	-0.056540962	-0.013944268	-0.03321302	-0.030086267	-0.251127012	0.27100023	0.518669307
Blmh	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc33a1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pdcd6	0.222805569	-0.155376611	-0.067428958	0.003928678	-0.243872934	-0.522509174	0.25242434	0.481749466
Prodh2	-0.322727263	0.052379131	0.270348132	-0.619962069	0.028467505	-0.161673008	0.38711911	0.73811683
Ufc1	0.468547985	-0.186935785	-0.281612199	-0.546064736	-0.057216313	-0.508009865	0.26116113	0.497484899
Slc27a5	-0.09593332	-0.050569102	0.146502422	-0.063667336	-0.060512898	-0.148794491	0.31799929	0.605185862
Mrpl23	0.300145974	-0.02233794	-0.277808034	#DIV/0!	-0.481408462	#DIV/0!	#DIV/0!	#DIV/0!
Ap2b1	0.242111935	-0.072172124	-0.169939812	-0.108114203	-0.332341422	-0.051298524	0.338824	0.643606526
Fam213a	0.249825201	-0.293930083	0.044104882	0.607575427	-0.006162228	0.176576021	0.34301257	0.650951618
Hist1h2bp;Hist1h2bk;Hist1h2bc;Hist2h2bb;Hist1h2bh;Hist1h2b	-0.482899972	0.155119862	0.32778011	0.34726156	-0.039737195	0.712977028	0.35911625	0.680873639
Psma3	0.098102164	-0.408161503	0.310059339	0.229992236	0.662473778	-0.018923037	0.37449315	0.70936296
Rps27a	-0.098239329	0.210553363	-0.112314034	-0.338004347	-0.321464532	-0.06526837	0.15366186	0.290793208
Fam134c	0.0760903	-0.237792845	0.161702545	0.440213725	0.008577203	0.133991562	0.33303759	0.629658914
Ctsz	-0.104059251	0.010445854	0.093613397	-0.222748156	-0.263086049	-0.069214131	0.08780561	0.165855032
Gnb1	0.207909187	-0.158726414	-0.049182773	-0.056957262	-0.374064296	-0.087127096	0.3091247	0.583357522
Cdc37	-0.018196588	-0.152637374	0.170833963	-0.24825518	#DIV/0!	-0.896145934	#DIV/0!	#DIV/0!
Fam98a	0.020071682	0.107533311	-0.127604993	0.377000018	-0.070116824	0.260360179	0.27724542	0.522222984
Mrpl32	-0.196804028	0.366174972	-0.169370944	-0.216174848	-0.212441363	-0.273797382	0.27287142	0.513505943
Chp1	-0.138318907	-0.175719869	0.314038776	0.461816351	0.053811664	0.203016057	0.29174469	0.548512551
Abhd11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ap2m1	0.17788909	-0.018078917	-0.159810173	-0.12057771	-0.306101366	-0.048188378	0.27227091	0.510949959
Tmco1	-0.230141493	0.053919544	0.176221949	0.045497993	0.178395877	0.297188701	0.28432933	0.533084548
Mrpl11	-0.141318412	0.066991718	0.074326694	-0.268359041	-0.45350827	#DIV/0!	#DIV/0!	#DIV/0!
Ca5a	-0.0838927	0.151032839	-0.067140139	0.464281588	0.126734264	0.112650579	0.16348873	0.305955318
Bcl2l13	-0.078072971	0.041143	0.036929971	-0.097490777	-0.331908691	0.008068713	0.2625392	0.490865803
Lactb2	-0.28933605	0.088303567	0.201032482	0.040780176	0.249827542	0.19726854	0.36965958	0.690509075
Phb	0.124088966	-0.022212304	-0.101876662	-0.0548444	-0.272174955	-0.342470349	0.10993216	0.205159363
Adck3	0.021392944	-0.042519373	0.02112643	-0.461327302	-0.061256672	0.01360977	0.31828178	0.593441516
Akr7a2	-0.241212024	0.163963473	0.077248551	0.002661908	0.104445068	0.436468525	0.37058548	0.690326362
Tmpo	-0.731826171	0.441790391	0.290035779	0.637091748	0.257317064	0.657280703	0.2562538	0.476910253
Fgg	-0.057538041	0.111648858	-0.054110817	-0.048435138	-0.266274713	-0.17396102	0.12540908	0.233182512
Rps15	0.008830484	-0.101552893	0.092722409	-0.012919461	-0.147228812	-0.334964472	0.20465131	0.380174112
Copz1	0.26431406	-0.196952526	-0.067361534	-0.04422938	-0.37773337	-0.145587449	0.32599036	0.605026135
Pyroxd2	0.043342991	0.026840303	-0.070183294	-0.171351973	0.423221147	0.430717754	0.32420564	0.601162253
Rps9	0.018344921	-0.02753003	0.009185109	-0.148920612	-0.149681536	-0.031915125	0.05694202	0.105488734
Hal	-0.122984365	-0.219214354	0.342198719	-0.755339623	0.246629284	-0.718499183	0.3320788	0.614634404
Ppp1ca	0.005989115	0.00447365	-0.010462764	0.235713935	0.042092198	0.058450141	0.1459755	0.269934585
Derl2	0.216127036	-0.074526783	-0.141600253	0.737865839	0.041442334	0.341412166	0.17909241	0.330871188
Ncstn	0.276177217	-0.300806214	0.024628996	-0.278582316	-0.006259568	-0.206306114	0.42804089	0.79007913
Rpl22	0.127891347	0.019665247	-0.147556595	-0.168543404	-0.240841447	0.048702346	0.3668757	0.676562934
Myo18a	0.417489824	0.161356514	-0.578846338	-0.752978301	-0.543790014	-0.021030306	0.30038726	0.553445745
Slc25a22	-0.299550895	0.161550133	0.138000762	-0.049163251	-0.119223965	-0.28137321	0.41481716	0.763580638
Slc22a18	-0.203647463	0.075723259	0.127924204	0.249765474	-0.056532694	0.410154264	0.30542133	0.561697587
Mrpl22	0.201658828	-0.269529597	0.067870768	-0.403253051	-0.098823836	-0.327648934	0.17387529	0.319482032
F2	-0.132379811	0.004140427	0.128239384	1.600297069	0.469098719	-0.202513347	0.30657275	0.562791903
Eif2s2	0.022928289	-0.118146433	0.095218144	-0.089173758	-0.234366869	-0.131330995	0.11697819	0.214548402
Zc3hav1	-0.197269775	0.447604	-0.250334225	0.250506263	0.304197765	0.554375975	0.20293838	0.371869866
Ebpl	-0.324055609	-0.150335658	0.474391267	0.601762672	0.871448149	-0.024514236	0.25028379	0.458211855
Psmd12	0.136188753	-0.17635662	0.040167867	0.185150309	0.578173774	-0.063053272	0.32519435	0.59481752
Psmd8	0.32615948	-0.354706765	0.028547285	0.285773329	0.737580546	-0.096718279	0.37739881	0.689681836
Ilvbl	0.245518095	-0.228746462	-0.016771633	0.474167448	-0.028302736	0.247453177	0.31177882	0.569249602
Hnrnpa2b1	-0.187407329	0.047853748	0.139553582	-0.018831139	-0.282784423	-0.173937676	0.26986646	0.492281199
Tmem126a	0.20827118	-0.135247817	-0.073023363	-0.066894387	-0.203046278	-0.533257854	0.19907495	0.362818588
Snap23	0.050199009	-0.051256124	0.001057114	-0.24263639	-0.294454839	0.030150418	0.18235708	0.332050746
Clcc1	-0.066754385	0.127709028	-0.060954642	-0.305363745	-0.348475234	-0.001101231	0.15974729	0.290619389
Dap3	0.498981875	-0.322954895	-0.176026979	-0.450977117	0.011962324	-0.731679726	0.30659291	0.557266363
Farsb	-0.013056252	-0.098066501	0.111122753	-0.00393221	-0.19841543	-0.093324671	0.29950399	0.543892795
Pgam1	-0.399753252	0.258931361	0.14082189	-0.698887843	-0.264292782	0.125745876	0.42259414	0.766733579
Rpl7a;Gm5619;Gm16477;Gm5459;Gm17415	-0.037150594	0.099181261	-0.062030667	-0.166234193	-0.202067885	-0.036099293	0.1307981	0.237100854
Apoa2	-0.537676868	0.084467276	0.453209592	1.634083614	0.583892823	0.572552477	0.11068343	0.200458891
Tpp2	0.836936386	-0.56170088	-0.275235506	-0.478611633	-0.519669681	-0.201652952	0.41289758	0.74713041
Aldob	-0.410628871	0.145312652	0.265316219	-0.180126542	0.2613642	0.895887967	0.4344699	0.785462561
H2-K1	0.116275429	0.032241978	-0.148517407	0.428730904	-0.128782682	0.310451365	0.33711026	0.608905414
Ago2	-0.100179623	-0.061410613	0.161590237	-0.308324778	-0.150727557	-0.186044265	0.08524313	0.153833058
Vamp7	0.094726344	0.017690616	-0.112416959	-0.112249406	-0.642463361	0.144861823	0.44389383	0.800354029
Preb	0.10250564	-0.107812908	0.005307268	0.216550882	-0.119428539	0.263750146	0.423495	0.76289438
Pabpc1	-0.260386001	0.072492066	0.187893935	0.198654772	0.084836023	0.193871922	0.31746788	0.571385686

Sqle	0.316466453	0.033223204	-0.349689658	0.247435623	#DIV/0!	0.297351853	#DIV/0!	#DIV/0!
Nqo2	-0.330444085	0.002410905	0.328033181	-0.824040297	-0.071539008	-0.111191332	0.33948566	0.609928505
Ywhaz	-0.133134723	0.178844477	-0.045709754	-0.180234091	-0.272041404	-0.010304359	0.26974101	0.484193495
Apoa1bp	-0.157709742	0.13793756	0.019772181	-0.350598169	0.583132987	0.312525843	0.56543782	1.014078637
Cfb;Gm20547;C2	0.340201181	-0.110673	-0.229528181	0.550745798	0.263968007	0.031567222	0.28631509	0.513034034
Psmb7	0.252612699	-0.341284512	0.088671813	0.384754909	0.67355093	-0.238137898	0.44376826	0.794462995
Eef1g	-0.445119017	0.238143735	0.206975282	0.236282149	0.387046301	0.073514548	0.3887109	0.695280424
Usp9x	0.243864761	0.111072081	-0.354936842	-0.443593923	0.038604892	-0.768232085	0.25759965	0.460356979
Sdr39u1	-0.018536249	0.074541062	-0.056004813	-0.089209187	0.128683549	0.750795635	0.35935939	0.641645221
Aass	-0.136891156	0.035336575	0.10155458	0.124438754	0.476455049	-0.102407639	0.4147304	0.739858555
Srp14	-0.064998084	0.034066044	0.03093204	-0.077735033	-0.2903402	0.056446116	0.3828477	0.68237965
Kng1	0.307920321	-0.143964187	-0.163956134	-0.086688165	-0.288022743	-0.163956134	0.33729104	0.60065121
Rab10	-0.110300134	0.024548843	0.085751291	-0.327136773	-0.206467876	0.012846566	0.20612689	0.366749955
Arpc4	0.235029828	-0.249206008	0.01417618	0.014342895	-0.326167011	-0.172181096	0.39915892	0.709576888
Rpl23	0.278009319	-0.138516377	-0.139492942	-0.053257659	-0.269876156	-0.277425871	0.27192954	0.482979325
Acot11	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sfpq	-0.105226498	0.034483697	0.070742801	0.51380589	-0.062230436	0.12862515	0.33762916	0.59861858
Ubap2l	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Psma2	0.201256506	-0.357465222	0.156208716	0.261816322	0.642890709	-0.174474375	0.45769137	0.810069683
Mrps36	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cope	0.065083473	-0.033055612	-0.032027862	0.058206361	-0.58842121	-0.240088453	0.24723815	0.436823394
Cyp3a25;Cyp3a59	-0.406216084	0.277486673	0.128729411	0.235024382	0.409975302	0.032101944	0.3904218	0.68920008
Itih4	0.167692713	-0.058541853	-0.10915086	0.638451581	-0.112158871	0.277495825	0.3139772	0.553771474
St13	0.145886269	-0.039705238	-0.106181031	-0.079104135	-0.193842561	-0.312164119	0.12586363	0.22179627
Anxa7	-0.870444983	0.4809539	0.389491083	0.746593278	0.337682592	0.188721222	0.41478042	0.730287899
Ywhab	-0.255271334	0.186253083	0.069018251	-0.278780437	-0.174668099	-0.118591245	0.24524342	0.431415154
Gfm2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	0.315546656	0.011881605	-0.327428261	0.235512661	-0.985570017	-0.521339789	0.35060264	0.615685011
Mcu	0.18225941	-0.110133206	-0.072126204	-0.368044043	-0.218346338	-0.504488334	0.04220924	0.074058367
Tspan31	-0.527506986	0.219826321	0.307680665	-0.07068415	-0.660623682	-0.124929464	0.42947626	0.752886017
Hrg	1.046324787	-0.489848633	-0.556476154	-0.567545864	-0.438371555	-0.369531538	0.43317885	0.758719319
Stau1	-0.097844197	-0.026875148	0.124719345	0.160135211	0.097511737	0.14981655	0.11819306	0.206837853
Armc1	0.243517103	-0.10400825	-0.139508853	-0.015399711	-0.182678945	-0.624764662	0.27868902	0.487284258
Glyctk	-0.12840621	0.233124917	-0.104718707	0.296067898	0.030674134	0.640367852	0.20234562	0.353493262
Rps8	-0.002959919	0.05860065	-0.055640731	-0.160976756	-0.195570704	-0.020681925	0.11598705	0.202451946
Tpm3;Tpm3-rs7	-0.313028047	0.080274161	0.232753886	-0.295064906	0.075605782	-0.453155043	0.37695665	0.657399401
Bbox1	-0.059191874	-0.122852705	0.182044579	-0.431387394	-0.062542126	-0.016132237	0.35017962	0.610175172
Ap2a2	0.374806682	-0.159053985	-0.215752697	-0.000131851	-0.453250843	-0.173685344	0.41449937	0.721628417
Psma1	0.020676788	-0.322103181	0.301426393	0.224965811	0.731772224	-0.108909318	0.40475589	0.704059477
Ptdss1	0.089462811	0.230053061	-0.319515872	0.621284655	-0.115210806	0.422266159	0.32322899	0.561763089
Selt	0.17310921	-0.147953637	-0.025155573	0.597326821	0.192644635	0.148688245	0.1407296	0.244374223
Rps12	0.063328066	-0.004147736	-0.05918033	-0.084884619	-0.099579451	-0.054613658	0.1028091	0.178372902
Mp68	-0.772777841	-0.322920443	1.095698284	-0.843654492	-0.123521963	-0.532493121	0.45189879	0.783368681
Galm	-0.378249513	0.334734685	0.043514828	-0.281872641	-0.144752362	-0.168205279	0.40109162	0.694698919
Ces3b	0.056494522	-0.094166101	0.037671578	0.091484287	-0.126225248	-0.376991576	0.39275226	0.679673067
Rpl3	-0.111965242	0.056134282	0.05583096	-0.17141408	-0.187319755	-0.056955355	0.11667331	0.201735125
Mal2	0.003041467	0.323574629	-0.326616096	0.443104805	-0.277365488	0.563253257	0.49332192	0.852254696
Cyp4f13	0.341284247	-0.157392524	-0.183891723	-0.191263642	-0.604439554	-0.449541987	0.11804329	0.203755613
Mov10	0.586337764	-0.204714812	-0.381622952	-0.026643304	-0.554728201	-0.316979619	0.42123839	0.726483606
Kynu	-0.323238799	0.272449623	0.050789175	-0.373523311	-0.279110063	0.062553191	0.41899203	0.721993937
Stip1	-0.211694085	0.053107163	0.158586922	-0.054890233	-0.030185174	-0.355026698	0.38845743	0.668807978
Gclm	-0.210945182	0.201772307	0.009172875	-0.483693133	-0.219163582	0.065674006	0.34475666	0.593063545
Ahsa1	0.395879933	0.023381645	-0.419261578	-0.554261235	-0.489515804	-0.269456758	0.15594584	0.268036058
Snrpb;Snrpn	0.136191386	0.012616227	-0.148807613	-0.060504851	-0.401866309	-0.498592317	0.10994594	0.188812079
Rab32	-0.182630043	0.151913445	0.030716598	-0.155982112	-0.15195285	-0.263862715	0.14202831	0.243700824
Rras	0.27810265	-0.304379598	0.026276948	-0.322435394	-0.235175215	-0.062253385	0.32701839	0.560642542
Tmem56	-0.193436062	-0.144290275	0.337726337	0.536223098	-0.064210285	0.337161063	0.33227155	0.569166249
Cdh2	-0.127362434	0.256524832	-0.129162398	-0.274828087	-0.008638686	-0.236704639	0.3199624	0.547617537
Eci2	0.086105847	-0.192476683	0.106370836	0.243867709	0.404883703	0.060210765	0.16338654	0.279400649
Irgm1	0.393841659	-0.030786932	-0.363054728	0.677027207	0.145490027	0.08217334	0.3557284	0.607802838
Rpl30	-0.112789434	0.062051463	0.050737971	-0.118020528	-0.164924739	-0.079981898	0.12101095	0.20658662
Mrps23	0.4033326	-0.219655999	-0.183676601	-0.370945719	0.024387372	-0.877089516	0.28396381	0.484366597
Gltpd2	0.626407623	-0.213461143	-0.41294648	-0.351931241	-0.723474534	-0.575785639	0.17701968	0.301694026
Rpl35a	-0.172908782	0.020562348	0.152346434	-0.213513901	-0.155956947	-0.097590711	0.19523111	0.332451634
Rps11	-0.037051138	0.024773625	0.012277513	-0.162947159	-0.14367908	-0.050710516	0.0392097	0.066712544
Mrpl24	0.285172245	-0.200634197	-0.084538048	-0.110887625	-0.136267896	-0.286440464	0.31888425	0.542103231
Emc8	-0.199414997	0.041152965	0.158262033	0.125962024	0.08511523	0.272529934	0.24923019	0.423335571
C1sa;C1s	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mlycd	0.465894444	-0.201054708	-0.264839736	0.219774952	0.500062877	0.336243391	0.22786381	0.386394371
Ivd	-0.524892863	0.317979963	0.2069129	0.100685809	0.763536215	0.007175798	0.46009678	0.779544214
Glrx	-0.099071751	0.272705021	-0.17363327	-0.292110553	-0.263083495	-0.137769666	0.18863826	0.319343258
mt-Nd4;Mtnd4	0.498625148	-0.235620739	-0.263004409	-0.638674566	-0.209409931	-1.020164402	0.1428502	0.241627056
Rpl17	0.006198896	0.04992391	-0.056122806	-0.130774804	-0.150723873	-0.033429915	0.09179324	0.155135949
Jagn1	-0.14214692	-0.040068558	0.182215478	0.640006731	-0.054004066	0.299662863	0.25444997	0.429676365
Rpl13	-0.103318783	0.068609466	0.034709316	-0.2080407	-0.20422708	0.005141203	0.19746648	0.333173224
Ssr1	0.285526608	-0.069694805	-0.215831804	-0.062399691	-0.335024172	-0.415825793	0.21321398	0.359443227
Ormdl2	-0.345145996	0.191165477	0.153980519	0.227360471	0.208431371	0.229479795	0.2692404	0.453516516
Eif4g2	-0.072761361	-0.011481686	0.084243046	-0.084945456	-0.34461904	-0.087855822	0.15146139	0.254913806
Flot1	-0.087708944	-0.022755711	0.110464654	-0.18875439	-0.316030447	-0.019641642	0.16740128	0.281506896
Timm50	-0.038142496	0.054974546	-0.01683205	0.036254541	-0.218634175	-0.203372521	0.21438815	0.360221956
Dpm1	0.114848615	0.037279939	-0.152128554	0.912572366	0.118281667	0.082109501	0.2591652	0.435096439
Hgd	-0.118979452	-0.042764054	0.161743506	-0.014225312	0.460068456	0.004600183	0.44228517	0.74190954
Capns1	-0.03563081	-0.089359793	0.124990603	0.244341883	-0.098935337	0.858104425	0.30891963	0.517766711
Pnpt1	0.326357759	0.017902379	-0.344260138	-0.563422156	-0.099120004	-0.193771674	0.30016822	0.502682366
Rps3	-0.016383003	0.052841568	-0.036458565	-0.142254027	-0.152164229	-0.004269341	0.14375554	0.240543797
Clta	0.081870028	-0.15389914	0.072029112	-0.121347311	-0.433796717	-0.380827933	0.06490722	0.108518428
Ero1lb	-0.010972816	-0.252430031	0.263402847	0.745324837	-0.014297547	0.082830601	0.38956192	0.65077106
Eif4g1	-0.173445001	-0.014221248	0.187666248	0.270770126	0.119033026	-0.014448148	0.40030467	0.668165301
Magt1	0.079536789	0.034484546	-0.114021335	0.099753769	0.079874138	0.404670729	0.18070127	0.301367407
Ctsd	0.148539624	-0.244605808	0.096066184	0.039158948	-0.225324667	-0.204490352	0.43332587	0.722090803
Rps18;Gm10260	-0.01320963	0.038112001	-0.024902371	-0.19396005	-0.223283676	-0.026151875	0.08335265	0.138783876
Sbds	0.087689385	0.141727645	-0.229417031	-0.22268691	0.088887139	-0.743682418	0.33808887	0.562461987
Prodh	0.152771427	0.010812342	-0.163583769	-0.1047159	0.02144762	-0.207493281	0.43913181	0.729961913
Flii	0.150254006	-0.02155784	-0.128696166	-0.357149076	-0.072816616	-0.37424285	0.10260307	0.170415445
Abcf1	0.053532013	-0.065608203	0.01207619	0.106332175	0.059011458	0.106791151	0.0771997	0.128117303
Ftl1;Ftl2	0.195313221	-0.076899278	-0.118413943	-0.436152239	0.716358665	0.385580745	0.56729139	0.940680721
Yme1l1	0.097594797	0.005456476	-0.103051273	-0.040666325	-0.171365496	-0.156244753	0.15967073	0.264548634
Pcbd1	-0.668311524	0.708580212	-0.040268688	-0.530955339	0.105747387	-0.460051372	0.54443753	0.901306969
Srsf1	-0.32748471	0.140037574	0.187447136	0.077632402	-0.303482813	-0.130109507	0.58097329	0.961004882
Tefm	0.387160691	-0.341023586	-0.046137105	#DIV/0!	-0.245549039	-0.614152061	#DIV/0!	#DIV/0!
Gm8991;Hnrnpa3;Gm9242;Gm6793	0.047621052	0.079005042	-0.126626094	0.045875624	-0.267338182	-0.194955741	0.29121751	0.480924921
mt-Nd2;Mtnd2	0.274910901	-1.058221796	0.783310894	-0.141436082	-0.180777099	-0.430853026	0.67531856	1.114330712
Zw10	0.359730274	-0.25517576	-0.104554514	0.614864591	0.122083696	0.35093497	0.19534663	0.322075163
Fth1	0.209382701	0.057067521	-0.266450222	-0.879589345	1.133156782	0.496068869	0.70318256	1.158418824
Parp9	0.242424447	0.312184293	-0.55460874	0.910424741	0.207790002	-0.087612718	0.44522545	0.732864997
Hnrnpl	0.31503975	-0.006670962	-0.308368788	0.390930891	-0.339674941	0.750020484	0.50780137	0.835188752
Rpl23a;Gm10335;Gm3940;Gm10923	-0.025919805	0.025950508	-3.07E-05	-0.251769157	-0.137196023	-0.054270765	0.06701968	0.110138762
Agxt	-0.017453275	-0.47463816	0.492091436	-0.133454201	-0.219740056	-0.250672661	0.51395077	0.843930521
Mrpl48	-0.091326127	-0.049540128	0.140866255	-0.376316094	-0.186733816	#DIV/0!	#DIV/0!	#DIV/0!
Psma6	0.308327584	-0.434774802	0.126447218	0.347246104	0.733350024	-0.297190446	0.52419008	0.859348895
Nlrx1	0.28507572	-0.090812692	-0.194263029	0.536862435	0.24033687	0.11788297	0.19426169	0.318211658
Arcn1	0.105199739	-0.214133726	0.108933987	0.038555847	-0.44323595	-0.070547873	0.4307281	0.704986205
Sqrdl	0.311978208	-0.03828804	-0.273690168	-0.313520521	-0.321678112	0.106366964	0.47012025	0.768838539
Slc35a3	0.260433556	-0.10501527	-0.155418285	-0.267612726	-0.668027224	-0.211363847	0.12078248	0.197369103
Stx16	0.254985182	-0.084470012	-0.17051517	-0.44554246	-0.100578964	-0.258190294	0.17690496	0.28884482
Cnbp	-0.549310922	0.093400912	0.45591001	-0.257273284	-0.026368456	-0.370010869	0.52195259	0.851540391
Ptbp3	0.079919068	-0.128013062	0.048093994	-0.175984325	-0.061687559	-0.22360827	0.12894051	0.210190695
Hdlbp	-0.276353101	0.255825753	0.020527348	-0.19101893	-0.10781345	-0.065235694	0.4861469	0.791847976
Pef1	-0.120909829	-0.095790146	0.216699975	0.553950028	0.105036418	-0.067594269	0.41052986	0.668143127
Mrpl49	-0.02974579	-0.166424944	0.196170733	-1.650261869	-0.036946281	-1.801497311	0.11294733	0.183675605
Txlna	-0.004272201	-0.041924537	0.046196738	0.025011265	-0.236688414	-0.236721872	0.17544982	0.285088336
Grhpr	-0.303323587	0.207227347	0.09609624	-0.194497635	-0.235541302	-0.046438169	0.39108264	0.634960013
Mars	0.170023264	-0.266948245	0.096924981	0.274250029	0.378533563	-0.176327415	0.50548461	0.820044395

Mrps30	0.584212895	-0.367669241	-0.216543654	-0.219454215	-0.44680259	-0.981769384	0.21366687	0.346352626
Rpl18a	0.047537957	-0.039531993	-0.008005963	-0.075316471	-0.219040208	-0.010310935	0.20259504	0.328142326
Smpd2	0.026488246	0.023693496	-0.050181742	0.357300835	-0.312905822	0.608315725	0.47476528	0.768360126
Mtx2	0.207942525	-0.041774414	-0.166168112	-0.086807354	-0.114030503	-0.253877888	0.28047908	0.453564492
Clic4	-0.437596157	0.488410124	-0.050813968	0.175691303	-0.627842662	-0.559378716	0.41578904	0.671838033
Srp54	-0.248174703	0.203262947	0.044911756	0.309943034	0.001553439	0.179914786	0.3627862	0.585727432
Sec11a	0.14959055	0.06048528	-0.210075831	-0.048671633	-0.04661006	-0.348513748	0.37261625	0.601118561
Cyp2f2	0.226352873	-0.252099083	0.02574621	-0.28746434	-0.023113094	-0.038784103	0.51446781	0.829297512
Psmb2	0.464113382	-0.514821351	0.05070797	0.525657391	0.783968397	-0.349185095	0.51170537	0.824187866
Cox7c	-0.114643753	-0.013887875	0.128531628	-0.626764568	0.040951129	-0.275255186	0.23471152	0.377741767
Dtx3l	0.151747498	-0.069838098	-0.0819094	0.985459401	0.009288286	0.030510885	0.35985626	0.578687767
Lmf2	0.067947455	0.101953007	-0.169900462	0.373494322	0.021047685	0.110977011	0.28302789	0.454777934
Stx5;Stx5a	-0.171433038	0.103288271	0.068144767	-0.11056855	-0.370117751	0.080974429	0.44291156	0.711119111
Emc7	0.095486523	0.08002433	-0.175510854	-0.003846962	0.030119604	0.352737395	0.4287663	0.687862197
Hsd17b2	0.197526109	-0.02903557	-0.168490539	0.067575269	-0.208141821	-0.222434173	0.44339166	0.710761748
Cfh	0.05913404	-0.141509375	0.082375335	0.194564308	0.105416041	0.032350399	0.26317175	0.421533218
Sar1a	-0.364477329	0.152148819	0.21232851	-0.379312852	0.556576398	0.441411109	0.58417347	0.934954844
Gsn	0.534527637	-0.42429171	-0.110235927	-0.119540466	-0.36919631	-0.188552548	0.48239766	0.771454912
Cyp4a14	1.58349799	-2.507725326	0.924227336	0.474358645	0.42913403	-1.51628813	0.89316572	1.42723084
Mcat	0.221111036	-0.089567918	-0.131543119	-0.068410457	-0.166337544	-0.436048604	0.22596535	0.360795497
Sel1l	0.250369152	0.004518847	-0.254887999	-0.090402247	-0.483347202	-0.147025122	0.27594267	0.440246071
Nceh1	0.389505351	-0.080268304	-0.309237047	0.375867331	-0.251219066	0.693781069	0.47393096	0.755525868
Sdr42e1	0.482471293	-0.378413794	-0.104057499	-0.158480574	-0.467908837	-0.180603921	0.37986774	0.605096402
Tor1a	-0.119484498	0.136645265	-0.017160767	0.998480306	0.092941463	0.279311942	0.18529593	0.294928142
Dnajb11	-0.042681508	0.14298499	-0.100303482	0.143335334	0.057292458	0.094165333	0.27369689	0.435289946
Fabp2	-0.168666464	0.047091314	0.12157515	0.103604543	-0.156980779	0.731773604	0.46126191	0.733018724
Mybbp1a	-0.173526969	0.277775013	-0.104248044	-0.256347096	-0.018812368	-0.337426942	0.29544079	0.469134001
Coa3	-0.107735316	0.175716252	-0.067980935	-0.529938134	-0.178992673	0.08247366	0.35174979	0.558109661
Stx12	-0.01285282	0.199088718	-0.186235898	-0.151779145	-0.628534698	-0.20008178	0.15726847	0.249337074
Rpl13a	-0.136076279	0.118875235	0.017201044	-0.16958991	-0.184416479	-0.017533962	0.2464302	0.390390207
Rptor	0.315099032	-0.567073063	0.25197403	-0.069692528	-0.342616759	-0.529103874	0.37400472	0.59202781
Fam98c	0.410176464	-0.09393385	-0.316242614	-0.272016097	#DIV/0!	-0.020565043	#DIV/0!	#DIV/0!
Larp1	-0.112109057	-0.001810868	0.113919925	0.074214805	-0.148019135	-0.214431525	0.42775953	0.676060572
Yif1a	-0.155350651	0.168185422	-0.012834771	0.232812621	-0.023854639	0.458907605	0.25566637	0.403757269
Aldh8a1	-0.121733649	0.024834739	0.09689891	-0.370121371	-0.032126653	0.007638031	0.38826911	0.612689863
Gnai3	0.182373755	-0.012417705	-0.16995605	0.07636926	-0.506193733	-0.20870279	0.33997654	0.536065886
Mrps34	0.380369567	-0.292502628	-0.087866939	-0.334906217	0.033720047	-0.243575737	0.47021674	0.74084771
Mrps9	-0.159411575	-0.047728833	0.207140407	-0.359432586	-0.052170968	-0.241571848	0.19647986	0.309321989
Anxa5	-1.286819554	0.446985472	0.839834082	0.357631788	-0.667744287	-0.656595833	0.68431031	1.076485029
Ces2a	0.210595373	-0.281022625	0.070427252	0.603654375	0.181279258	-0.183933268	0.50002954	0.785982726
Dnajc22	-0.06917538	-0.081125899	0.150301278	-0.022371585	-0.324742424	-0.127668169	0.24501077	0.384826694
Enpep	-0.155297161	0.078966332	0.076330829	-0.082972955	-0.129089737	-0.033671239	0.37642711	0.590777385
Larp4b	-0.380448858	0.123192372	0.257256486	0.404395032	0.164794382	0.247689837	0.25761738	0.403999974
Hnrnph1	0.176773305	0.118746378	-0.295519682	-0.139466721	-0.147389234	-0.105783768	0.4300479	0.67388606
Vamp3;Vamp2	-0.002082938	0.047014683	-0.044931745	-0.055528877	-0.439694786	-0.016040232	0.2835513	0.443981646
Adhfe1	-0.042583321	0.146395142	-0.103811821	-0.252855796	0.100059202	-0.287536627	0.36844119	0.576455167
Akap1	0.062328174	0.381109773	-0.443437948	0.028106819	0.407936345	0.298775246	0.4080979	0.63800777
Cyp2c29	-0.182536832	0.09432782	0.088209012	-0.007698845	0.109902928	-0.777674743	0.48496872	0.757599781
Cfl2	-0.471010035	0.105634752	0.365375282	-0.197670105	0.183075086	-0.432998487	0.6507999	1.015870526
Tmed7	-0.056134735	0.095953144	-0.039818409	0.240433675	-0.000699945	0.160856078	0.19448859	0.30335422
Hsd11b1	0.075305552	-0.263442839	0.188137287	-0.043914025	0.028896868	-0.372778032	0.52004197	0.810512258
Arf1;Arf3;Arf2	-0.135895193	0.203453679	-0.067558487	-0.157726654	-0.115114595	-0.040023888	0.39358805	0.612955068
Timm44	-0.213132077	0.118747462	0.094384616	0.141388386	-0.020957677	0.263724797	0.39632189	0.616737837
Copb2	0.086465658	-0.018560843	-0.067904815	0.057038789	-0.28704567	-0.04099591	0.46518905	0.723349306
Ap1g1	0.365210189	-0.009471232	-0.355738957	0.052375475	-0.233753791	-0.360903268	0.49559932	0.770044106
Ap3b1	0.746486145	-0.281199641	-0.465286504	-0.331747334	-0.437270981	-0.198595131	0.44742371	0.694657068
Cers2	0.057964547	0.084108625	-0.142073173	0.201132924	0.003749044	0.053957161	0.40511519	0.628487745
Rbpms2	-0.214611866	0.13487621	0.079735656	0.609583746	0.263456458	0.053096617	0.18884257	0.29274216
Ap2s1	0.191603121	0.130245664	-0.321848785	-0.203763953	-0.131316333	-0.097334408	0.43143364	0.668292686
Apob	0.156774756	-0.0469759	-0.109798856	0.205419336	-0.031958139	0.21492721	0.31952328	0.494564338
Eif2s3y	-0.032042771	0.044008139	-0.011965368	-0.411269143	-0.062821774	-0.033022402	0.24302596	0.375872718
Hao1	0.039816568	-0.205139083	0.165322515	0.012819989	-0.00827577	0.340150583	0.50406969	0.77901679
Atp5l	0.341875524	-0.077882277	-0.263993247	-0.132261844	-0.293657011	-0.51187897	0.21126991	0.326258797
Timm10	0.013183881	0.122113333	-0.135297215	-0.348847556	-0.010963348	-0.358770969	0.15416594	0.237892979
Rpn1	0.077213273	0.06943285	-0.146646123	-0.050851662	-0.170155246	0.027204861	0.52609937	0.811203518
Nudt7	-0.091758863	-0.017399145	0.109158009	-0.035365813	-0.051001119	-0.180460901	0.29863148	0.460115379
Hnrnpm	-0.00367232	0.094117912	-0.090445592	-0.408611491	-0.612036319	0.175488797	0.30902318	0.47576399
Eif3m	0.340833167	-0.27134925	-0.069483916	0.165213153	-0.24442106	-0.744858422	0.43758755	0.67318601
Farp2	-0.422140271	0.396111413	0.026028858	0.030925063	-0.370010803	-0.397693137	0.42093787	0.64708002
Fdx1	-0.74508581	0.448904688	0.296181122	0.24520753	0.718263666	0.244351711	0.3785498	0.581477784
Mrps26	0.3252683	-0.260672167	-0.064596133	-0.259848635	0.091433191	-0.366776998	0.46466045	0.713207953
Rbm3	0.012001315	0.191134679	-0.203135994	-0.237570648	-0.162537314	#DIV/0!	#DIV/0!	#DIV/0!
Gapdh;Gm7293	-0.056819098	0.115484827	-0.058665729	-0.151996225	-0.057360652	0.79545745	0.55884461	0.856471705
Tysnd1	0.055227647	-0.19733886	0.142111213	1.169105012	0.121284067	0.098684394	0.27617434	0.422937697
Ap1b1	0.393882671	-0.182536843	-0.211345828	0.139702439	-0.506692196	-0.321232026	0.45151917	0.69094045
Mogs	0.262944565	-0.142092718	-0.120851847	0.045145886	-0.375029736	-0.136188991	0.43497202	0.665115946
Fggy	0.01251214	0.125247316	-0.137759456	-0.443511346	-0.774615483	0.127659668	0.25576188	0.390790241
Mogat1	-0.226973017	-0.276259399	0.503232417	0.661522573	-0.150260844	0.409545453	0.42751672	0.652729304
Rap1b	-0.09764645	0.258737956	-0.161091506	-0.121320978	-0.357240938	-0.055345205	0.32725771	0.499277782
Ak2	-0.564487397	0.182173963	0.382313435	0.209945802	0.318456769	0.182710201	0.46113075	0.702989827
Rpl14	-0.037148865	0.118816252	-0.081667387	-0.118476348	-0.179067646	-0.015176555	0.24905954	0.3794032
Rpl35;Gm10269	0.026384854	0.105167768	-0.131552622	-0.197507206	-0.252585916	0.033945625	0.28332615	0.431278261
Eif2ak2	-0.531470197	0.343095233	0.188374964	0.134095409	0.848852789	0.13351642	0.35935136	0.546592329
Timm21	0.004166229	0.143385271	-0.1475515	#DIV/0!	-0.089349328	-0.280986293	#DIV/0!	#DIV/0!
Ptcd3	0.766380935	-0.597973787	-0.168407147	-0.323705492	-0.185092372	-0.607311835	0.4272667	0.648919319
Psmb4	0.208253897	-0.387127744	0.178873847	0.15632317	0.588722927	-0.169636485	0.54829028	0.832101445
Mgst1	-0.156166826	0.371295594	-0.215128768	-0.061781519	0.347661992	0.280803611	0.44929418	0.681350926
Dnaja1	0.091030373	0.040841587	-0.13187196	-0.113895972	-0.224040397	-0.077189991	0.1613487	0.244500691
Apoo	-0.058311737	0.126568603	-0.068256866	-0.279547831	0.092017594	-0.192957228	0.38080521	0.576623459
C1qbp	0.028825868	0.195876167	-0.224702034	0.303593685	0.381577351	-0.081991232	0.34595103	0.523454705
Rps21	-0.125773881	0.086673517	0.039100364	-0.228070567	-0.046664378	-0.136261937	0.17408986	0.263216582
Adrm1;Gm9774	0.000281768	-0.413260901	0.412979133	0.508489294	0.479933451	-0.400642036	0.63505666	0.959462001
Marc2	-0.048548287	0.070227596	-0.021679309	-0.252292831	0.145892375	-0.231902112	0.44855322	0.67718147
Phkb	0.181428612	-0.178883118	-0.002545494	0.094009717	0.106105699	0.136460141	0.34461274	0.519874408
Tubb4b;Tubb4a	0.146947681	-0.011675356	-0.135272325	-0.24888138	-0.248894841	0.09052866	0.38572791	0.581466146
Ddx6	-0.134302714	-0.049457169	0.183759884	-0.099840622	-0.372594616	0.024241724	0.37827379	0.569804819
Abcb4	0.130027439	-0.161535132	0.031507692	-0.131946864	-0.512427625	0.144675249	0.46978007	0.707116878
Surf4	-0.068426911	0.112418186	-0.043991274	0.822316232	0.189501437	-0.172417663	0.39826417	0.599024837
M6pr	-0.162858762	0.025278968	0.137579794	-0.03150041	-0.252836334	-0.292112298	0.18290902	0.274907093
Naca	-0.080333293	0.123754917	-0.043421624	-0.042069995	-0.092208827	-0.061588228	0.36842436	0.553320324
Dpys	-0.113933478	-0.097805835	0.211739313	-0.260945503	-0.002669073	-0.153524098	0.34431157	0.516722784
Ccbl1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rplp0	0.111116296	-0.016129661	-0.094986635	0.054664365	-0.190869772	-0.079884684	0.48174735	0.721907323
Eif5b	0.277337221	-0.29144356	0.014106339	-0.073931522	-0.147827451	-0.124823196	0.52427905	0.785060345
Sptbn5	-0.016204318	0.202666708	-0.18646239	#DIV/0!	-0.100626822	-0.133269451	#DIV/0!	#DIV/0!
Tmed9	0.072766545	0.063622673	-0.136389217	-0.030717106	-0.133416557	-0.103254284	0.29896929	0.447017642
Odr4	-0.055392191	-0.036312909	0.0917051	-0.000361154	0.05829244	0.584937235	0.32632852	0.487564694
Slc25a1	-0.067550164	0.131044577	-0.063494413	0.11525509	-0.001792471	0.089659745	0.41509603	0.61973378
Cfi	0.215392929	0.054042134	-0.269435063	0.405983537	-0.154555413	0.287984261	0.46401593	0.692259759
Gls2	-0.667742872	0.133864795	0.533878077	-0.700967751	0.38176451	-0.735753923	0.5278739	0.786948346
Afg3l1	0.452401756	-0.115649408	-0.336752348	0.279599602	-0.058833179	0.412694554	0.48354619	0.720334276
Dynll2;Dynll1	-0.184369142	0.149162099	0.035207043	-0.145285259	-0.012447135	-0.194050783	0.35387634	0.526778392
Clu	0.25574683	-0.147485859	-0.108260971	0.229906258	-0.051198244	0.170481258	0.49250927	0.732607538
Farp1	0.276130979	-0.278498289	0.002367309	-0.262240003	-0.539510562	-0.258986437	0.12878731	0.191430368
Cox7b	-0.479908946	-0.013140299	0.493049246	-0.373960907	0.265735214	-0.261749242	0.73754596	1.095488607
Vps35	-0.125826146	0.025694911	0.100131235	0.067188806	-0.220432925	-0.218777162	0.34690979	0.514892514
	0.187273378	-0.273774692	0.086501314	-0.056491608	-0.251085723	-0.074228196	0.45259216	0.671256556
Asl	-0.224859038	0.076759709	0.148099329	-0.841533704	0.173036662	-0.053148849	0.50406536	0.747050714
Ddost	0.137309705	0.053438621	-0.190748326	0.022665107	-0.247318929	-0.068410682	0.48266575	0.714811728
Slco2b1	-0.090818086	0.099000603	-0.008182517	0.100453234	0.008322388	0.272300644	0.25167313	0.372446768
Echdc1	0.328575224	0.019480507	-0.348055731	-0.46264232	-0.204082555	-0.058681994	0.3495857	0.516967736
Mrpl10	0.665435301	-0.49896753	-0.166467772	-0.167041357	-0.596696732	-0.938488006	0.24046952	0.355346854
Vkorc1	-0.281844446	0.056128432	0.225716014	0.050301169	0.224133258	0.217219444	0.36263772	0.535486208

Tfrc	-0.375040403	0.14465792	0.230382483	0.723872449	-25.67439936	-25.67439936	#DIV/0!	#DIV/0!
Pfkl	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Shmt2	-0.140280522	0.090735168	0.049545354	-0.021289414	0.302932984	-0.024450791	0.5451317	0.803205709
Stoml2	0.253873855	-0.046943376	-0.20693048	-0.088347921	-0.216380652	-0.085534314	0.41085222	0.604915598
Ecm29;AI314180	0.221436737	-0.16981889	-0.051617847	-0.333591245	0.006797615	-0.451382134	0.22237957	0.327181003
Rpl12	0.059817122	-0.001173895	-0.058643227	-0.027505633	-0.170356251	-0.028669344	0.26612847	0.391262999
Cyp7a1	0.535883987	-0.161080164	-0.374803823	-0.175514636	-0.570121218	-0.321910041	0.2985416	0.438598158
Edf1	-0.065426315	-0.155476925	0.22090324	0.085000967	0.188236742	0.156551833	0.2897453	0.425366279
Cdv3	-0.286874832	0.265735002	0.02113983	0.16335182	-0.25856671	-0.383068792	0.52634417	0.772149564
Dhx15	0.68131236	-0.348424093	-0.332888267	#DIV/0!	#DIV/0!	-0.389314879	#DIV/0!	#DIV/0!
Tgoln1	-0.085753011	0.073168465	0.012584546	-0.022037134	-0.216242612	-0.054739341	0.26711501	0.391291568
Ptges2	0.132019206	0.028952259	-0.160971466	0.071486031	-0.263676705	-0.262780035	0.3419162	0.500503965
Iars	0.32846221	-0.225783315	-0.102678896	0.29034916	0.271309595	-0.080711449	0.48159371	0.704457026
Idh3b	-0.223305217	0.268415373	-0.045110156	0.072656816	0.197851589	0.192571692	0.35996607	0.526164283
Hspa13	0.377024185	-0.081915501	-0.295108684	-0.302926231	-0.279528286	-0.058574276	0.37261194	0.544255569
Tkt	0.031250144	0.105361323	-0.136611467	-0.068409134	-0.023266253	0.42008646	0.5579946	0.814446656
Mpv17	-0.662957546	0.242789369	0.420168176	0.330617475	0.372771527	0.058602784	0.50770145	0.740504712
Fis1	0.018083262	0.195831877	-0.213915139	-0.069884971	-0.099853677	-0.110585579	0.47709511	0.695362689
Ube4a	-0.328840626	0.187974803	0.140865823	0.477195214	0.121041283	0.057911611	0.35719668	0.520236773
Tpt1	-0.250606293	0.331659699	-0.081053406	-0.064582327	-0.197416999	-0.31504337	0.36277921	0.527987293
Aadat	-0.213677197	0.334950799	-0.121273602	0.267195043	0.428197823	-0.08510853	0.42166595	0.613249618
Mavs	-0.559521438	0.379949826	0.179571612	0.289574838	0.095181043	0.245788384	0.51102784	0.742679106
Psmc2	0.257818636	-0.274528725	0.01671009	0.194918828	0.357206525	-0.127409654	0.53659082	0.779270081
Cltb	0.208012683	-0.078361013	-0.12965167	0.178444186	-0.272531483	-0.329732223	0.50267001	0.729484527
Srsf2	-0.281241351	0.015656008	0.265585343	-0.05838329	-0.147704327	-0.365109159	0.35551967	0.515567227
Helz2	-0.161330165	0.18336064	-0.022030475	0.103621847	-0.372849704	-0.105951535	0.5036704	0.729889128
Elovl2	-0.123437446	-0.01638911	0.139826556	0.171944899	-0.042252988	0.19574076	0.37026843	0.536186847
Tars	0.149779905	-0.081536617	-0.068243287	-0.176981823	-0.089109436	4.81E-06	0.38368058	0.555211592
Paqr7	0.18133465	-0.220754626	0.039419976	0.108792509	0.005031797	0.17150529	0.49666444	0.718193106
Ybx1	-0.231238621	0.015877609	0.215361012	0.06459818	0.09596436	0.20742683	0.41885148	0.605240382
Abcd3	0.007036803	-0.101279243	0.09424244	0.069804831	-0.06104008	0.171190241	0.53219214	0.768468735
Gdi2	0.007843145	-0.069680209	0.061837065	-0.107379697	-0.338309033	-0.014971224	0.21189165	0.305746648
H2afj;Hist1h2ah;Hist1h2ak;Hist1h2af;Hist3h2a;Hist1h2ab;Hist1	-0.002091115	0.431006619	-0.428915503	0.502960376	0.96906279	-0.417644231	0.50218558	0.724106499
Idh3g	-0.07174937	0.431430401	-0.359681031	#DIV/0!	#DIV/0!	0.288685582	#DIV/0!	#DIV/0!
Eppk1	0.087012304	0.232590811	-0.319603115	1.060300574	0.10891302	0.287042888	0.22150054	0.318929242
Tm9sf4	0.760396317	-0.113303093	-0.647093224	-0.105452476	-0.782885831	-0.214750599	0.46963603	0.675728092
Drg1	0.06876416	-0.026432651	-0.04233151	0.343630568	-0.046528518	-0.019342978	0.5170848	0.743470181
Arf5	-0.267274384	0.160641897	0.106632487	0.133212939	0.004623598	0.5589911	0.34049887	0.489225287
Paqr9	-0.39684102	0.289873986	0.106967034	0.04576988	0.121802997	0.32164183	0.50188541	0.720592039
Sardh	-0.193088697	0.232299392	-0.039210694	-0.055540831	0.639922384	-0.141923244	0.62257954	0.893247095
Rps28;Gm10263	-0.033568097	-0.008923208	0.042491305	0.03853299	-0.069873626	-0.207546302	0.34618933	0.496343737
Gk;Gyk	-0.172915609	0.391741453	-0.218825845	0.353100917	-0.317880402	0.499990836	0.60607636	0.868337443
Mug2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Iigp1	0.313657125	0.133574624	-0.447231749	0.300303844	-0.471954178	-0.467913874	0.56944411	0.814699743
Anxa4	-0.107436557	0.006262716	0.101173841	0.139033238	-0.200348959	-0.239798709	0.49703265	0.710598616
Cd81	0.801636484	-0.394450267	-0.407186217	-0.039086716	-0.903113138	-0.479828598	0.37217825	0.531720763
Slc25a3	-0.19014276	0.218656176	-0.028513416	-0.217963278	0.073660868	-0.138093436	0.55757259	0.796026362
Serpina3m	-0.655529594	0.336544575	0.318985019	0.479740147	0.315667	0.079628217	0.44882168	0.640314704
Capza2	0.296470765	-0.083607853	-0.212862912	0.102723589	-0.413440248	-0.203970908	0.4678077	0.666930916
Ywhag	-0.060588002	0.128989316	-0.068401314	0.213455483	0.016905645	0.018750635	0.41660531	0.593515874
Golga2	0.022296988	0.075115507	-0.097412495	-0.349916885	-0.67899846	0.030546978	0.19032566	0.270956228
Prpf19	0.365002479	-0.066359558	-0.298642921	-0.206457887	-0.867034499	#DIV/0!	#DIV/0!	#DIV/0!
Hm13;H13	0.084243282	0.134925136	-0.219168418	0.06399083	-0.317667405	-0.030180364	0.5846592	0.831177479
Lrrc59	0.045156352	0.019005213	-0.064161565	0.328765454	-0.169623541	0.186867828	0.48988364	0.695951271
Anxa6	0.192611544	-0.302550412	0.109938868	0.158118488	-0.12426203	-0.456092154	0.58062328	0.824281327
Ywhae	0.124373434	0.051886103	-0.176259537	0.107553292	-0.36751215	-0.543960448	0.27986914	0.397037349
Mpc1	0.028754594	0.011014736	-0.039769329	-0.064743261	-0.049512837	-0.315616177	0.18145593	0.257242711
Mrps35	0.143635828	-0.333429135	0.189793306	#DIV/0!	0.32656731	#DIV/0!	#DIV/0!	#DIV/0!
Matr3	0.255605727	0.086464512	-0.342070239	0.071154988	-0.575676706	-0.28366174	0.36626207	0.518508166
Atp13a1	0.270805031	-0.10040951	-0.170395521	0.036138018	-0.382399568	-0.055856588	0.51255495	0.725103957
Ak3	-0.01923387	0.162247932	-0.143014062	-0.500188884	0.081883958	-0.022990148	0.50254897	0.710451821
Coq6	-0.301617127	0.120585848	0.181031279	0.183269871	0.244748423	0.13584027	0.29214449	0.41271529
Ugt1a6	0.7015309	-0.232862416	-0.468668484	-0.155017468	-0.435841314	-0.03914445	0.60648095	0.856183505
Hist1h2al;Hist2h2ac;Hist2h2aa1	0.023401952	-0.027561889	0.004159937	0.903510048	-0.259656519	0.353007105	0.37901072	0.534685277
Spcs2	-0.123680537	0.078484992	0.045195545	-0.022899324	-0.070106358	-0.15063815	0.3273903	0.46154047
Cyb5b	0.02201804	-0.021863768	-0.000154272	0.112121051	0.204549511	0.075145052	0.03216606	0.045314718
Dhx30	0.185032187	-0.24939447	0.064362284	-0.191431619	#DIV/0!	-0.434462906	#DIV/0!	#DIV/0!
Eif6	-0.077794933	0.231205327	-0.153410393	-0.049693009	-0.106575457	-0.183273746	0.41248882	0.580295467
Ptgs1	0.173691384	-0.15454831	-0.019143074	0.163930434	-0.726879847	-0.565304086	0.26455378	0.371919593
Cyp2e1	-0.083116897	0.089233472	-0.006116575	0.153822611	-0.120081893	-0.342584896	0.53528095	0.751995384
Eif2b5	0.43454054	-0.156108991	-0.278431548	-0.200293243	-0.179809469	0.014271631	0.62476411	0.877097706
Sdf2l1	-0.034658579	0.096588232	-0.061929653	0.041525118	-0.057110349	-0.412515557	0.38460927	0.539573193
Eif3j1;Eif3j2	0.298555018	-0.199825912	-0.098729107	0.114748063	-0.305918995	-0.56850287	0.36919535	0.517589883
Acbd5	-0.050821215	0.043427095	0.007394119	0.003028704	0.028639204	0.16715363	0.31622156	0.443016763
Rpl37	-0.220914641	-0.122832582	0.343747223	-0.189872162	-0.0839777	-0.143076955	0.47593301	0.666306212
Dpp7	-0.161030832	0.143332161	0.017698671	-0.291783945	-0.799570038	0.094042132	0.29088305	0.406954645
Usp14	-0.159824406	-0.109682298	0.269506704	0.222044374	0.517539138	-0.318245677	0.64198199	0.89753253
Asph	0.211206374	0.052204408	-0.263410782	0.136478467	-0.01810664	0.168228904	0.56101958	0.783800148
Vdac3	-0.218946019	0.122708502	0.096237517	-0.107750472	-0.01121057	-0.058228826	0.62946432	0.878817335
Dpm3	-0.267006427	0.250886294	0.016120132	0.062495069	0.073886843	0.28212775	0.44766036	0.624563389
mt-Co1;Mtco1	0.181181678	-0.10899686	-0.072184818	-0.023920769	0.025809088	-0.49058181	0.43526508	0.606851314
Nme1	-0.433050629	0.280546683	0.152503946	-0.422606235	0.218845367	-0.264407648	0.62177344	0.866286266
Ppib	0.19693792	-0.066402583	-0.130535337	0.024318801	-0.091676145	-0.217051858	0.48067808	0.669244155
Zfpl1	0.235864796	-0.228891681	-0.006973116	-0.20285014	-0.232264093	0.075971262	0.51143562	0.711577888
Shmt1	-0.049025127	-0.015527807	0.064552934	-0.325068652	0.059286054	0.024942171	0.56261259	0.782244172
Caprin1	-0.192027713	0.065261924	0.126765788	0.324919387	-0.063986096	0.030161867	0.5591806	0.776938428
Rpl26	-0.140203316	0.045741749	0.094461566	-0.21571957	-0.15551959	-0.014093204	0.24015302	0.333445131
Rdh7	0.04068708	-0.133126946	0.092439866	0.337466137	-0.038817737	-0.027643345	0.55708447	0.772964248
Ebp	-0.144631204	0.109171837	0.035459368	-0.244601864	-0.195078031	0.056655002	0.34703141	0.481182002
Slc25a42	0.151514739	-0.006489585	-0.145025154	-0.060185813	-0.161973308	-0.072621568	0.34318749	0.475526233
Rdh11	-0.006009626	0.047125369	-0.041115743	0.011692713	-0.052039054	0.288697264	0.48492052	0.671453936
Ufm1	0.426340957	-0.325793845	-0.100547112	0.152085009	-0.826678525	-0.746472847	0.28580134	0.39546929
Emc10	0.183192939	-0.31517675	0.131983811	0.061875593	0.025318975	0.358174302	0.47859449	0.661788559
Scfd1	-0.026419015	0.125403298	-0.098984283	0.412088923	-0.138580878	0.111299913	0.49812847	0.688329167
Nmi	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sdhd	-0.555480701	0.226291539	0.329189162	-0.199422039	0.102475366	-0.354056976	0.6528968	0.900961956
Creld1	0.116348225	0.170298634	-0.286646858	0.248774378	0.155642352	-0.005316347	0.45804133	0.631641178
Epb4.1;Epb41	0.251214757	-0.433546249	0.182331492	-0.751349665	-0.028175276	-0.382710689	0.26832822	0.369773834
Coasy	0.506008793	-0.264248213	-0.241760581	-0.371640093	-0.567421239	0.091915423	0.42711275	0.588188632
Apool	-0.073292853	0.180408322	-0.107115469	-0.18063056	-0.089578023	0.010489225	0.46071494	0.634031518
Sdhc	-0.651255478	0.387248702	0.264006776	0.212238307	0.288356801	0.162150491	0.53942216	0.741842979
Cyp2d22	-0.016794497	-0.114758913	0.13155341	0.032664168	-0.123265584	-0.084408951	0.53283555	0.7322869
Ndufaf2	-0.053281436	0.201671233	-0.148389798	-0.152233153	-0.013900668	-0.240355235	0.33437439	0.459225661
Sec63	-0.067244975	0.098996835	-0.031751859	0.062411024	-0.054363166	0.170733557	0.50926633	0.698945577
Rpl24	-0.189450408	0.07104093	0.118409478	-0.147349246	-0.136556673	-0.012606048	0.39991201	0.548489492
Emc3	0.291251226	-0.194101088	-0.097150138	0.13347683	-0.047773521	0.283755395	0.52391516	0.718076129
Prdx5	-0.020004718	0.014189963	0.005814755	0.026414468	0.069142405	0.228183231	0.15799159	0.216396067
Ept1	-0.034257628	-0.086852223	0.121109852	0.208879285	-0.066447686	0.240054579	0.33225655	0.454773343
Os9	-0.702669363	0.382363373	0.32030599	-0.425175873	0.067959394	0.13957481	0.86288461	1.180267455
Ugt1a10	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Tmem11	0.326384123	-0.157873426	-0.168510697	-0.141204076	-0.270696835	-0.22974795	0.27104872	0.370244131
Spcs1	0.049572079	0.294244888	-0.343816967	0.181206555	0.011980872	0.345837488	0.43915187	0.599463044
Khk	-0.101245857	0.181543942	-0.080298085	-0.381409083	-0.150804286	0.135669231	0.49221657	0.671445805
Anp32a	-0.088557332	0.228108339	-0.139551007	-0.235398408	-0.29803009	0.112204149	0.45958198	0.626505621
Rbm47	0.139534438	-0.158356228	0.01882179	0.24215079	0.012300947	0.037027691	0.43871448	0.597656157
Arl6ip5	0.300633464	-0.226860951	-0.073772513	0.541744166	-0.004332817	0.104859902	0.40252541	0.547987147
Slc39a7	-0.10362059	0.11807599	-0.0144554	-0.04587994	0.09840672	0.155318238	0.47485978	0.646026452
Dlat	0.333425944	-0.203946713	-0.129479231	0.213908852	0.128471053	0.074119328	0.46710561	0.635050173
Yars	0.627177821	-0.310162386	-0.317015434	-0.054496048	-0.391441629	-0.021610679	0.6660841	0.904961803
Cltc	0.391503665	-0.066223597	-0.325280068	0.101875977	-0.274772282	-0.13198252	0.68962397	0.936314957
Abcb8	0.208905773	-0.009012427	-0.199893346	-0.049100171	-0.175266942	-0.163064375	0.35902114	0.487122576
Rps26	-0.039225239	-0.084410898	0.123636137	-0.019919471	-0.102102277	-0.14571181	0.28949247	0.392522301
Fndc3a	-0.142852256	0.174082789	-0.031230533	-0.204799261	-0.016632544	-0.041375998	0.47038723	0.637369967

Scrn2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Sec24a	0.331814458	-0.219324755	-0.112489703	0.280924187	-0.563318252	-0.844458222	0.3765265	0.509507095
mt-Atp8;Mtatp8	-0.142113495	0.042519401	0.099594094	-0.370101417	0.013112369	-0.126581566	0.29419661	0.397834055
H1f0	-0.328887968	0.182271626	0.146616342	0.195917704	-0.133883293	0.312132274	0.58812941	0.794780088
Txndc15	-0.051926902	0.097049306	-0.045122404	0.461850688	-0.0390543	-0.02893886	0.48852158	0.659732418
Sord	-0.380751781	0.283590074	0.097161708	-0.445895854	-0.091304233	0.155310221	0.65461955	0.883452538
Chchd3	-0.133314621	0.095615706	0.037698915	-0.337853263	-0.003883896	0.04929493	0.52260439	0.704819116
Psmc6	0.471916482	-0.525261581	0.0533451	0.358464314	0.436629445	-0.208363217	0.60943311	0.821374543
Lrpprc	0.084219412	-0.072827641	-0.011391771	-0.012933486	0.326648726	-0.066318065	0.56394577	0.759562114
Lypla1	0.073468019	0.034956408	-0.108424426	-0.375343447	0.010792636	0.011985027	0.44932405	0.604778809
	0.015653561	-0.15736029	0.141706729	-0.256492574	-0.079774611	0.049597449	0.48403874	0.651070731
Srsf7	-0.086622717	0.091044256	-0.004421539	0.210852973	-0.220603238	0.33028251	0.57451923	0.772260734
Sfxn5	-0.065201475	-0.006592634	0.07179411	-0.0082989	0.229636041	-0.013687265	0.4824821	0.64811507
Rsu1	-0.083071587	0.249073201	-0.166001614	-0.16174311	-0.127490244	#DIV/0!	#DIV/0!	#DIV/0!
Canx	-0.021638443	0.025700403	-0.004061961	0.107268205	0.017089863	0.072223452	0.09170553	0.123024058
Psmd5	0.566948852	-0.534520396	-0.032428457	#DIV/0!	-0.258936429	0.242838392	#DIV/0!	#DIV/0!
Gclc	-0.17584907	0.27776126	-0.10191219	-0.479477319	-0.188873654	0.196802309	0.54993189	0.736763057
Psmd1	0.460685895	-0.292548704	-0.168137191	0.568629379	0.459128183	-0.366931919	0.58966531	0.789472483
Mup8	0.176543394	0.143419324	-0.319962718	0.732441484	0.289483319	-0.318016954	0.53273057	0.712773772
Csnk1a1	0.172459087	-0.143444639	-0.029014448	-0.122305557	0.047324869	-0.224855667	0.45783563	0.612162251
Minos1	-0.378764255	0.301806342	0.076957913	-0.034262819	0.431296419	0.029041461	0.59701933	0.797734541
Ccdc124	-0.122669916	0.079687891	0.042982025	-0.350083785	0.029669379	-0.133932279	0.29687941	0.39642709
Nsdhl	0.21292868	0.174481843	-0.387410523	0.223308419	-0.63110523	-0.065454574	0.64504782	0.860772914
C5	0.672391244	-0.073483394	-0.59890785	0.322119674	-0.576943129	-0.32769366	0.69209463	0.92294492
Psmd11	0.29428177	-0.305521485	0.011239715	0.096969946	0.401999061	-0.152036404	0.6497332	0.865882914
mt-Co3;Mtco3;Cerk	-0.369191817	0.214152888	0.155038929	-0.244375869	0.005992799	-0.147709182	0.55343205	0.737059267
Aldh16a1	0.091990206	-0.316121823	0.224131617	0.292114121	0.660998947	-0.580806141	0.77321912	1.029093603
Slc25a5	-0.152471764	0.165786862	-0.013315098	-0.154615461	-0.007398091	-0.004786435	0.62311725	0.828774626
Rab1A	0.02896553	-0.054520313	0.025554783	0.166709099	-0.186713092	0.17569572	0.69340231	0.92165103
Cox15	0.319698362	-0.282956801	-0.036741561	-0.249001139	-0.039556034	-0.223087655	0.41323059	0.548893942
Mfn2	-0.102036632	0.05088547	0.051151161	0.031420023	0.285730491	-0.072128284	0.52667114	0.699117928
Rpn2	0.378510149	-0.029146443	-0.349363706	0.018915563	-0.211902852	-0.160717932	0.62339761	0.826972701
Serpina3k	0.118052147	-0.078591186	-0.039460961	0.464915286	-0.20346256	0.100318936	0.5832768	0.773243102
Hist1h3b	0.685956123	-0.303630117	-0.382326006	1.397273223	-0.08897121	-0.235624746	0.59767999	0.791818344
Eef1b	-0.226154997	0.08966261	0.136492387	0.286199294	0.248104025	-0.241918745	0.65876538	0.872174324
mt-Nd5;Mtnd5	0.399522657	-0.126835228	-0.272687428	0.079881738	-0.456933076	-1.016105047	0.28499616	0.377074705
Sptbn1	-0.002430256	0.211737415	-0.20930716	-0.151999394	-0.115069929	0.038108132	0.60144003	0.795237373
Urah	-0.030494955	-0.176101643	0.206596598	-0.204049769	-0.007477947	0.012694452	0.64003445	0.845715022
Nudc	-0.373177719	0.478973872	-0.105796153	#DIV/0!	0.296499637	#DIV/0!	#DIV/0!	#DIV/0!
ORF11;0610007P14Rik	-0.075737619	0.182897593	-0.107159974	2.172500772	0.275392977	-0.31476389	0.40015776	0.528062069
Mboat7	0.095386606	-0.240052754	0.144666148	0.153103444	0.003499493	0.242472731	0.39438377	0.520103242
Idh1	-0.402144947	0.168413456	0.233731491	-0.033865984	0.065526997	0.338638507	0.62087143	0.818255961
B2m	-0.062050114	0.04904378	0.013006334	0.416406136	-0.218276129	0.072595989	0.65347904	0.860669333
Plg	0.18493172	-0.051105093	-0.133826627	0.040477159	-0.07255072	-0.131748892	0.63982864	0.842142708
Ap2a1	0.509776277	-0.130079653	-0.379696624	0.06541779	-0.655022694	-0.038437093	0.57930715	0.761988534
Pigs	0.346877779	-0.264176782	-0.082700997	0.743521106	-0.250697859	0.211332733	0.52749385	0.693385348
Acox1	-0.045314707	0.074976696	-0.029661989	1.350470834	0.213138626	-0.658577011	0.63206507	0.830303653
A2m;Pzp	0.233047837	-0.161564172	-0.071483664	0.251920841	0.122215923	-0.112849904	0.61546249	0.807969254
Setd3	0.208699436	-0.119511341	-0.089188094	0.097251978	-0.231731956	-0.463605473	0.36108341	0.473717087
Serbp1	-0.249754324	-0.010650124	0.260404448	-0.041364274	-0.108373437	-0.058155873	0.66551562	0.87254575
Fabp5	-0.122832937	0.248297656	-0.125464719	#DIV/0!	-0.593049757	0.10306521	#DIV/0!	#DIV/0!
Tmem38b	0.179934833	-0.22739039	0.047455557	0.415179773	0.131372171	-0.151818883	0.55207167	0.722874423
Gyg1;Gyg	0.107498028	-0.154719601	0.047221573	0.187852586	0.0720874	-0.015251345	0.4551563	0.595589392
Aacs	0.15180369	0.133521096	-0.285324787	0.146649518	-0.044920594	0.443001088	0.41806488	0.546700226
Bst2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Itsn1	1.164041697	-0.44484637	-0.719195326	-0.248467977	-0.512912956	-0.853091239	0.42949251	0.560918881
Acadvl	-0.344719402	0.186578471	0.158140931	-0.225918442	-0.153720262	0.143639977	0.72237063	0.942810182
Poldip2	0.389712884	-0.178141406	-0.211571478	-0.141671624	0.096277637	-0.166742426	0.75584092	0.985858276
Cyp2u1	0.179819912	-0.122012169	-0.057807743	-0.274025782	0.269949066	-0.420808001	0.57020772	0.743254005
Pdha1	0.273552793	-0.290108547	0.016555754	0.277362377	0.10443013	-0.085411252	0.63688147	0.829627306
Rmnd1	0.041127527	-0.006674845	-0.034452682	-0.166290557	0.024836188	-0.258616883	0.19731857	0.256869666
Msr1	1.461239178	-0.704418919	-0.756820258	-0.22128047	-0.56361535	-0.870932087	0.50499091	0.656975312
Cmpk1	-0.26108327	0.090244944	0.170838326	-0.097233246	0.061926924	0.375807555	0.5863591	0.762342194
Gm4788	0.132345823	-0.166942404	0.034596581	0.085532073	-0.27625318	-0.286252125	0.35101427	0.456070568
Metap1	-0.046406346	-0.083177699	0.129584045	0.328212736	-0.040502535	-0.002003528	0.51703257	0.671345879
Nme3	-0.224308417	0.235236581	-0.010928164	#DIV/0!	-0.060480464	#DIV/0!	#DIV/0!	#DIV/0!
Coq7	-0.283134118	-0.072167079	0.355301197	-0.84534261	0.681497306	-0.148088626	0.83897481	1.087978236
Lclat1	0.223002473	-0.134917041	-0.088085431	0.038199635	0.197989131	0.205931137	0.30341087	0.393209601
Lamtor1	-0.038362128	0.265070964	-0.226708836	0.04677793	-0.293432447	-0.200270453	0.44394267	0.574965439
Cisd3	-0.33155235	0.137147326	0.194405024	-0.202194944	0.15868534	0.392538093	0.65341047	0.845712971
Rpl19	-0.015464976	-0.021049788	0.036514764	-0.277850765	-0.172779251	0.112354945	0.3934122	0.508870133
Abcb6	0.388033413	-0.30621319	-0.081820223	0.080865677	-0.486299052	-0.170778773	0.50448109	0.652118363
Ahcyl1	0.205198654	0.115761659	-0.320960312	-0.11489965	-0.098536111	-0.118509008	0.53368514	0.689428498
Tuba1c;Tuba8	0.081342358	0.076226464	-0.157568822	-0.161292887	-0.2604895	0.166334639	0.60323574	0.7787785
Rer1	-0.204894409	0.181452463	0.023441946	-0.012477172	0.060905364	0.298566354	0.47326021	0.610590184
Erlin2	0.107154877	-0.106110486	-0.001044391	-0.149080949	-0.243781064	0.146981667	0.57057924	0.735679924
Ap1m1	0.449320131	-0.145614149	-0.303705982	0.200699519	-0.472569025	-0.185826891	0.6389246	0.823276733
Hsd17b13	0.04845839	-0.24186249	0.193404101	0.198924014	-0.274612697	-0.213525438	0.64889841	0.835596109
Hspg2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Letm1	-0.113886226	0.062688618	0.051197608	-0.008411504	0.079233195	0.037670452	0.59331237	0.763045729
Srp72	-0.194009513	0.100345944	0.093663569	0.084998707	-0.074154508	0.170479976	0.64265466	0.825978639
Mrpl53	0.307467974	-0.235663184	-0.07180479	-0.15305029	-0.155614913	#DIV/0!	#DIV/0!	#DIV/0!
Thrsp	0.754578841	-0.312154882	-0.442423959	0.022773774	-0.50800058	-0.099630748	0.66053339	0.84788011
Hnrnpd	-0.084169856	-0.183192026	0.267361882	0.148250341	0.094456836	-0.008501524	0.61705452	0.791567088
Gjb1	-0.047048212	-0.058256766	0.105304978	0.079943817	0.098941783	-0.005475604	0.40227077	0.515712151
Pgam5	0.112132476	-0.047002332	-0.065130144	-0.151066724	-0.117396112	0.020682373	0.34393412	0.44064517
Flot2	-0.150209218	0.029542359	0.120666858	-0.257824748	-0.285795118	0.063429877	0.30884963	0.395444815
Dhdh	-0.002235849	0.038958125	-0.036722276	-0.107901018	-0.242778992	-0.126189869	0.02879589	0.036846353
Sep15	0.405620755	-0.239903439	-0.165717317	0.614679546	0.000855179	-0.097157452	0.59784052	0.764495181
Rab6a;Rab6b	5.03E-05	0.090715607	-0.090765902	-0.075298156	-0.258693036	0.087821691	0.507843	0.648999617
Abhd12	0.287176721	0.055083833	-0.342260554	0.178956273	-0.079584158	-0.452508622	0.67368813	0.860398408
Stbd1	-0.277437266	0.035586683	0.241850583	0.106778521	-0.237401328	0.424074066	0.70838371	0.904138956
Mtdh	-0.227925208	0.174882519	0.053042689	-0.033250448	0.015590661	0.234480571	0.64415403	0.821641614
Yipf5	-0.146753218	0.014653325	0.132099892	-0.016981894	#DIV/0!	0.196214904	#DIV/0!	#DIV/0!
Serpinh1	0.168469837	-0.165112543	-0.003357293	0.554412284	-0.309893706	#DIV/0!	#DIV/0!	#DIV/0!
Pdhb	0.178046479	-0.200094767	0.022048287	0.17012928	0.182084507	-0.140152672	0.66647446	0.848507128
Apoa1	0.055245023	-0.069564957	0.014319934	0.122077124	-0.161168517	0.260212342	0.59927046	0.762468009
Aup1	0.017605889	0.043370703	-0.060976591	0.354131861	-0.578727068	-0.447449164	0.48747112	0.619832854
Osbp	0.314698478	-0.210881075	-0.103817403	-0.287300305	-0.469128101	0.114006249	0.41435154	0.526528371
Timm22	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Utrn	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Eif4a2	0.036699522	0.046661854	-0.083361376	0.217233207	-0.062742507	-0.506394107	0.61398257	0.778737768
Otc	-0.082426251	0.127115839	-0.044689588	-0.178150238	0.560338866	-0.163882252	0.78727359	0.997903804
Txn	-0.475708516	0.348021255	0.127687261	-0.181778285	0.006067729	-0.086226567	0.74655064	0.945693137
Ptbp1	0.143970517	-0.063336042	-0.080634475	0.123571661	-0.258269068	-0.18437609	0.48209321	0.610309487
Dnaja2	0.158710276	-0.010903162	-0.147807115	-0.095450184	-0.173075386	0.084399887	0.6274223	0.793793192
Gstm1	-0.534687673	0.406764327	0.127923346	0.006057434	0.025058861	0.435060932	0.64490201	0.815397973
Pdap1	-0.115790413	0.195637256	-0.079846843	0.087971034	0.072048159	0.167459012	0.34773363	0.439391089
Hspa1a;Hspa1b	0.015485684	0.152814124	-0.168299809	-0.347404331	0.116883258	-0.059734066	0.58735875	0.74171458
Dhx29	0.486819299	-0.181362582	-0.305456717	0.811163823	0.027529824	-0.04534109	0.51251889	0.646803309
Ube2g2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Prps1;Prps1l3	0.621387347	-0.491818443	-0.129568904	0.040669804	0.171442332	-0.558855599	0.78568538	0.990306238
Psmb5	0.087331632	-0.144376376	0.057044744	-0.225585993	0.544486266	-0.079578081	0.76297754	0.961085656
Aimp2	0.551288733	-0.331685993	-0.21960274	0.540008049	0.430613514	-0.056083085	0.41117543	0.51761537
Skiv2l	0.307903014	-0.099889647	-0.208013367	0.370973694	-0.584827367	-0.620775848	0.48362059	0.608435601
Nsf	-0.170913771	-0.086726422	0.257640193	0.446231223	0.113113368	-0.176011758	0.59652219	0.750008938
Abcc3	-0.205191509	-0.047845296	0.253036805	-0.407150715	-0.035965308	0.152003406	0.67128972	0.84349013
Lrpap1	0.396490499	-0.202655576	-0.193834923	0.425143444	-0.173052808	0.168026387	0.62298104	0.782303319
Aldoa;Aldoart2	-0.139888291	0.121056045	0.018832246	-0.517955419	-0.366042805	0.255119801	0.44617023	0.559927032
Lars	0.204172846	-0.191503208	-0.012669638	0.039311943	0.320052825	-0.061625345	0.57239894	0.717894016
Asah1	0.561293054	-0.232162058	-0.329130995	0.349560717	-0.627694643	-0.592593009	0.53361558	0.668837864
H2afv;H2afz	-0.730519296	0.699610458	0.030908839	0.091693092	0.058261325	0.013953106	0.90131921	1.129020899
Hebp1	-0.415102653	0.004674129	0.410428524	-0.309133392	0.078852838	-0.005455863	0.78226595	0.979284665

Fads1	-0.006502088	0.001429482	0.005072605	-0.038513844	-0.26533426	0.470328024	0.81122385	1.014907759
Apoh	0.060028451	-0.115384433	0.055355983	0.041753582	0.076218715	0.016918706	0.49673194	0.621068426
Rpl28	-0.101436988	0.055004668	0.04643232	-0.098067188	-0.140502823	0.034268042	0.40446649	0.505395739
Srsf5	-0.772570588	0.347590437	0.424980151	0.175107512	0.180450477	-0.267085237	0.94667911	1.182180142
Rab5b	0.02314842	-0.155543404	0.132394984	0.206325533	-0.300381199	-0.370678295	0.48223665	0.601828962
Nudt19	-0.11757407	-0.215085935	0.332660004	0.07761554	0.355460673	0.010488316	0.49879323	0.622107714
Serpina1c	0.226063311	-0.147973949	-0.078089362	0.304828793	-0.109803132	0.039213501	0.66443753	0.82819293
Rpl10a	-0.031530153	0.094977135	-0.063446982	-0.051698517	-0.027480902	-0.037531299	0.47066543	0.586303055
Rab5c	-0.189986069	0.010589668	0.1793964	0.036285425	-0.037251858	0.178977644	0.65777899	0.818884245
Aars	0.025179871	0.042583415	-0.067763286	-0.004371571	-0.409736981	-0.022810951	0.34617747	0.430699278
Slc25a45	-0.000108401	0.15156865	-0.151460248	0.12239542	0.055148338	-0.016351594	0.60631561	0.753888427
Snapin	0.123037888	-0.304968403	0.181930515	1.822519555	-0.183705888	-0.236883719	0.53813901	0.66870713
Ddx3x;D1Pas1	0.023420182	-0.067343539	0.043923357	0.342517653	-0.469226298	-0.372430782	0.55449412	0.688607491
Gcdh	-0.590128141	0.070148195	0.519979946	0.034073522	0.048048259	-0.261615094	0.86802793	1.077313193
Dync1h1	0.453470644	-0.360221296	-0.093249348	0.027118438	-0.233789905	-0.101478365	0.70338081	0.872433712
Txnl1	-0.329962058	0.050321144	0.279640914	-0.124758843	0.315093435	0.101988307	0.67866325	0.841259652
Srp68	-0.230564398	0.077476625	0.153087773	0.10103928	-0.062361947	0.164021832	0.64382702	0.797588521
Opa3	-0.305719487	0.043073608	0.26264588	0.100685952	0.576933885	-0.273285765	0.67300172	0.833220615
Pipox	-0.084837608	-0.205422765	0.290260373	0.087167899	0.174096027	-0.026691827	0.6509782	0.8054611
Nmt1	0.03885531	-0.047650139	0.008794829	0.310154661	0.125117469	-0.221529034	0.67517155	0.83488511
Bet1	0.131810099	0.365715039	-0.497525138	1.451787668	-0.369352167	0.029089839	0.57631643	0.712210229
Alg11	0.1221952	-0.116779775	-0.005415425	0.041066786	-0.258890178	0.00656678	0.58046497	0.716899047
Cyp4b1	0.537489464	-0.393814288	-0.143675176	0.682066505	-0.17055966	0.102008829	0.61452359	0.75849983
Bdh1	-0.004150777	-0.072342664	0.076493441	-0.018663113	-0.139990127	0.057182624	0.66189557	0.816472406
Mpc2	-0.093964378	0.016551501	0.077412877	-0.041723492	0.051182932	-0.150130362	0.57453738	0.708281001
Igh-6	1.596810222	-1.014679096	-0.582131126	1.091497872	0.038779323	-0.65587077	0.87644854	1.079814492
Akr1a1	-0.336183984	0.327534516	0.008649468	-0.202494858	-0.179871203	0.167480968	0.76711766	0.94453988
Mia3	-0.196690622	0.157654035	0.039036588	0.071559669	-0.088393432	0.225661289	0.64066257	0.788357889
Srsf3;Gm12355	-0.298535954	0.187065162	0.111470793	0.363512551	-0.096647298	-0.026260676	0.71934833	0.884645387
Ubxn4	0.105454556	-0.089796619	-0.015657937	-0.204395497	-0.112903051	0.153257018	0.67581878	0.830608378
Sts	0.127886235	-0.222842553	0.094956318	0.016190812	0.081916711	0.097984235	0.59891258	0.735640654
Gstt3	0.08198764	-0.058635894	-0.023351746	0.088151576	-0.077808824	-0.286811496	0.4728757	0.58047788
Pygl	0.070299801	-0.114577355	0.044277554	0.060219545	0.099958541	-0.065570382	0.70071074	0.859634824
Rab21	-0.011381318	0.12057827	-0.109196952	0.18912877	-0.116672252	0.168205848	0.53717426	0.658608192
FAM120A	-0.003678575	-0.066460825	0.0701394	0.004106343	0.021137569	0.098130144	0.44801278	0.548958119
Mfn1	-0.265260914	0.132783016	0.132477898	-0.060650746	-0.041777715	-0.062427855	0.70023742	0.857494132
Stim1	0.330406912	-0.113105053	-0.217301859	-0.048312583	-0.170265021	-0.074580799	0.60023441	0.73458815
Rrbp1	-1.03148715	0.574997097	0.456490053	-0.002809927	-0.17111351	0.171814907	0.99899837	1.221870433
Alg5	0.26366373	-0.160173207	-0.103490523	0.182419332	-0.174652862	0.227907546	0.69136543	0.845095024
Rpl5	-0.049220763	0.048651932	0.000568832	-0.140056614	-0.108416923	0.046372521	0.35294391	0.431162763
Cds2	0.212184367	-0.164785617	-0.04739875	0.218681708	-0.113898858	0.179860407	0.56888966	0.694546637
Rdh9	-0.033572128	-0.038236345	0.071808473	1.117310686	-0.712084573	-0.453570346	0.97890106	1.19440099
Abhd15	0.626927852	-0.308218607	-0.318709245	0.020449282	-0.361482159	-0.296865114	0.56005414	0.682935215
Srp9	-0.146460981	0.144385572	0.002075408	0.028825705	-0.238098596	0.05010252	0.69328042	0.844883312
Ubr4	1.037394604	-0.293074587	-0.744320018	0.145163461	-0.096601033	-0.876085547	0.67807085	0.825850294
Aldh1l1	-0.015718658	-0.124425616	0.140144274	-0.170775246	0.261487176	-0.338459717	0.69299241	0.843516028
Cct3	0.286987643	-0.293487718	0.006500075	0.116843118	0.229646037	-0.092282057	0.68225727	0.829949767
Naa10	0.005716802	0.128588249	-0.134305051	0.003313912	-0.134728408	-0.008744774	0.62298633	0.757392634
Pygb	0.513134921	-0.338018662	-0.175116258	0.335495847	0.065827054	0.115322641	0.56334728	0.684475403
Dazap1	-0.443550234	0.097805534	0.345744699	-0.022745846	0.35477103	0.147018702	0.56852917	0.690356851
Ddb1	0.196680963	-0.051186305	-0.145494658	0.053008823	0.058949262	0.031917577	0.66382488	0.80558952
Myo1e	0.075827929	-0.122451917	0.046623988	0.035397355	0.00338233	0.155915909	0.44843023	0.543869515
Gpi;Gm1840	-0.222842025	0.219968628	0.002873397	-0.234649056	-0.082182493	0.517386996	0.8116902	0.983852168
Pcyt2	-0.263263044	0.304161822	-0.040898778	-0.28490735	0.039352993	0.687725409	0.67838973	0.821785887
Ap1s1	0.370874538	-0.293096249	-0.07777829	0.280415282	-0.439620867	#DIV/0!	#DIV/0!	#DIV/0!
Sco1	0.237504332	0.10289553	-0.340399861	0.029564477	-0.267784017	0.08267722	0.81354462	0.9843306
Ugt2a3	0.020816374	-0.04774694	0.026930566	0.050357089	0.016791872	0.024128705	0.3071413	0.371396805
Cyp2d10	0.034817214	-0.126525236	0.091708022	0.182144764	-0.056574302	-0.002000746	0.69412264	0.838835187
Mcfd2	0.16961354	-0.057881917	-0.111731623	0.226891719	-0.251378306	-0.107504488	0.8038949	0.970913061
Pcbp2	-0.074981085	0.094190567	-0.019209483	0.055322643	-0.095639182	-0.083531524	0.5841909	0.705142122
Ndufaf6	0.492053386	-0.155584344	-0.336469042	0.187734618	-0.339762665	-0.369967986	0.60445727	0.729169386
Dbi	-0.294759521	0.347735119	-0.052975598	-0.063197607	-0.028460371	-0.034020282	0.83429076	1.005822531
Emc4	-0.206452043	0.2897278	-0.083275757	0.012441824	-0.037382429	0.401366259	0.57119687	0.688225887
Gaa	0.153792396	-0.587152464	0.433360068	0.121357988	-0.750744959	#DIV/0!	#DIV/0!	#DIV/0!
Rap1a	0.107100569	-0.032373654	-0.074726915	0.146922837	-0.330731658	-0.032506977	0.65529343	0.788613089
Pitrm1	0.278876965	-0.15605396	-0.122823005	-0.278365537	-0.01926048	-0.114704791	0.43592858	0.524306492
Idh3a	-0.144782293	0.391438994	-0.246656702	-0.228875181	0.004101524	0.06404018	0.81725835	0.982361045
Ssr2	-0.422676883	-0.033137497	0.45581438	-0.110139405	0.154657693	-0.742231254	0.56163848	0.674699907
Oat	-0.907569158	0.588421885	0.319147272	0.152848061	0.495908685	-1.386348386	0.75624407	0.907941687
Lsr	0.124915137	0.14947762	-0.274392757	0.161754386	-0.221208258	0.251143074	0.7649565	0.917857062
Rpl11;Gm10036;Gm10288;Gm7589	-0.088201373	0.058223373	0.029978	-0.080453335	-0.041992578	-0.043451399	0.30084046	0.360758889
Rdh14	-0.065173097	0.138672239	-0.073499142	-0.146094445	-0.292177127	0.193480837	0.63633117	0.76261727
Ttyh2	-0.082310339	-0.065385315	0.147695654	0.028908211	-0.159576342	-0.176310617	0.35983411	0.430991353
Alad	-0.222478409	-0.227690842	0.45016925	-0.349359371	0.023949981	0.13056197	0.8204428	0.982104013
	-0.056457412	0.250518185	-0.194060773	0.209716501	-0.172782235	-0.3148662	0.67396274	0.806284228
Vkorc1l1	-0.127157275	0.069990553	0.057166722	0.409862866	-0.107466314	0.153425815	0.4023286	0.481034731
Eno1	-0.938454629	0.456047399	0.48240723	-0.155141019	0.178462444	0.652322819	0.68976357	0.824212465
Fbl	0.20294754	0.018837332	-0.221784872	-0.061919007	-0.335554616	0.065553201	0.55210858	0.659336276
Timm23	-0.307410246	0.056734864	0.250675382	0.143912588	-0.111099934	-0.212587173	0.77388874	0.923644206
Mmgt1	0.607940433	-0.399224948	-0.208715485	0.165144779	-0.532145516	-0.422795938	0.52368609	0.62465623
Arl1	0.044954773	0.08297387	-0.127928643	0.84387986	-0.028762465	-0.234596216	0.59645043	0.711030776
Sept7	0.140283233	-0.088921486	-0.051361747	0.057943829	#DIV/0!	-0.292838332	#DIV/0!	#DIV/0!
Dnajc19	-0.241401975	0.178454064	0.062947911	-0.142394784	0.033592355	-0.045559648	0.72280147	0.860640007
Prpf8	-0.073549812	0.223454892	-0.14990508	0.51951883	-0.161126027	0.198296469	0.45991103	0.547294126
Pi4ka	0.549465769	-0.314472125	-0.234993644	0.35297739	-0.257666551	-0.405950533	0.78818577	0.937389657
Efr3a	0.122039992	-0.044216207	-0.077823785	0.262000745	-0.123203177	0.063568376	0.62404037	0.741735408
Ptpmt1	0.332999339	-0.16449901	-0.168500329	0.22615442	-0.194092325	0.326365117	0.63161328	0.750295748
Ldha	-0.284417664	0.195317059	0.089100605	-0.064830249	-0.141048922	0.38790056	0.79640554	0.94549789
Ppt1	-0.007467819	-0.076135703	0.083603522	0.227750969	-0.046231904	-0.496511348	0.65253095	0.774234663
Nit1	-0.485251014	0.242625507	0.242625507	0.011500717	0.282024293	0.037162991	0.69062589	0.818954379
Phyh	-0.292761787	-0.143739957	0.436501744	-0.124542785	0.08000882	-0.099099369	0.84630387	1.00297172
Trap1	-0.002204621	0.275802425	-0.273597805	-0.287998929	0.173710811	0.307535522	0.80182599	0.949703735
Strap	-0.384342019	0.15206735	0.232274669	0.116293156	0.159868318	-0.015816873	0.68765628	0.814001552
Syncrip	0.241447405	-0.206651269	-0.034796136	0.101059108	-0.154727512	-0.087470198	0.77139295	0.912589438
Gm4951	-0.271157711	0.254606705	0.016551006	0.122873273	-0.137818298	0.260289126	0.6915616	0.817667517
Gosr2	0.082218176	-0.064419487	-0.017798688	0.33487777	-0.486576243	-0.367036288	0.54219045	0.640684163
Vapa	-0.098327058	0.1057069	-0.007379843	-0.115818672	-0.009638224	-0.001895277	0.57445684	0.678415753
Hist1h1e	0.052869814	-0.097926752	0.045056938	-0.187366092	-0.473186531	0.222596557	0.5210474	0.61498185
Ddx1	0.150057673	-0.033123568	-0.116934105	0.053212335	-0.243269086	0.049114902	0.72794439	0.858677262
Atp6v0a1	0.020753836	0.039319333	-0.060073169	0.011704055	0.011245822	0.204781364	0.34699456	0.409073419
Timm13	-0.355650161	0.201791872	0.153858289	-0.029880847	0.262728312	-0.503737074	0.76784447	0.904688037
Psmd4	0.69156328	-0.539539401	-0.152023879	0.474299703	0.522761681	-0.429741325	0.71230276	0.838759303
Galk1	-0.01405154	0.100626887	-0.086575347	0.115119502	-0.262064839	0.415864481	0.6824071	0.80308875
Blvrb	-0.386526366	0.388029274	-0.001502908	-0.340528697	-0.115723116	0.249344629	0.81883726	0.963085911
Cpne1	-0.689742285	0.171773867	0.517968418	0.429574652	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Prkra	-0.038175501	-0.021765583	0.059941083	0.114709745	-0.131384384	0.108099792	0.74224674	0.871989054
Sc5d	-0.451715813	0.156232883	0.29548293	0.063394714	0.038141654	0.334602507	0.58959188	0.692248617
Ak4	0.163086771	0.01159797	-0.174684741	-0.055747611	-0.04334841	-0.020196828	0.70633893	0.828842025
Agl	0.028081907	-0.154195896	0.12611399	0.105250034	-0.144018162	-0.064822351	0.76975528	0.902733291
Hnrnpab	0.002663129	-0.016008746	0.013345617	0.077522899	-0.198411425	-0.011064631	0.61925626	0.725814261
Rnf213	0.192565976	-0.215728173	0.023162197	1.221578982	-0.46518333	-0.331846258	0.81104446	0.950053817
Rab35	-0.189471022	0.087054756	0.102416266	0.023422664	-0.015674334	0.144768634	0.65781529	0.770115932
Naprt1	-0.292524321	0.251013049	0.041511272	-0.524530521	-0.084587189	0.356049315	0.79214218	0.926838421
Coq3	0.15753195	-0.186937772	0.029405822	-0.047346211	-0.103464018	-0.109366588	0.44491815	0.520271344
Gcat	0.212209725	0.006811317	-0.219021042	-0.31393466	0.201968478	-0.099018778	0.73616256	0.860344807
Uba52;Gm7808;Kxd1;Ubc;Ubb;Gm5239	0.001962576	-0.582290106	0.58032753	-0.421430467	-0.065966137	-0.354238517	0.47111871	0.550273186
Dcaf8	0.465010271	-0.260860808	-0.204149463	0.130247305	-0.28391876	-0.092940647	0.76939726	0.898148099
Tmx2	0.387110369	-0.357713889	-0.02939648	0.446305732	-0.228903359	0.131462768	0.70956101	0.827821178
Rmdn1	-0.233204511	-0.112994856	0.346199367	0.145383649	0.147408668	-0.058295496	0.70079732	0.817125634
Btf3l4	-0.124264931	-0.072772829	0.19703776	0.109435981	-0.116831141	-0.108813955	0.77067426	0.898084122
Kif13b	0.270023296	0.069323983	-0.339347279	0.244627452	-0.641391263	-0.306881633	0.49716384	0.579022713
Rpl32	-0.184676507	0.121085121	0.063591386	-0.168914712	-0.060387828	0.041875148	0.60617918	0.705581409
Qprt	-0.087225894	0.001793885	0.085432009	-0.539521762	-0.02405804	0.220122208	0.64391103	0.749069582

Spag5	0.285391834	-0.130303357	-0.155088477	-0.085018888	0.483827609	0.190815204	0.41765103	0.485579326
Elavl1	0.046459979	-0.074124052	0.027664073	0.416483946	-0.327190437	0.04510709	0.84715946	0.984378857
Spg7	0.751276611	-0.334478084	-0.416798527	-0.035326339	-0.005853888	-0.298020656	0.78505214	0.911687989
Emc1	0.193961069	-0.061136727	-0.132824342	0.07105142	-0.129290128	0.185856433	0.76897118	0.892500691
Ccdc47	-0.072377674	0.121584309	-0.049206635	-0.143067935	-0.083196189	0.094824747	0.66553919	0.772010197
Mtch1	0.196153185	-0.017104476	-0.179048708	0.378652627	-0.107040743	-0.066692197	0.73711058	0.854541379
Rhoa;Rhoc	-0.116815426	0.117320424	-0.000504997	0.020658646	-0.008396876	0.106754107	0.62888982	0.728662147
Gnaq	0.500911333	-0.239090202	-0.261821131	0.859472542	#DIV/0!	-0.19661893	#DIV/0!	#DIV/0!
Pabpc4;Gm10110	-0.157272109	-0.014896789	0.172168898	0.05240174	-0.245346391	0.072284531	0.78843236	0.912470629
C1qb	0.235648316	-0.174383756	-0.06126456	0.188715834	-0.415157043	0.157471084	0.92559249	1.070596691
Rdh13	0.015369575	0.173044225	-0.1884138	-0.039069964	-0.219478968	0.202299189	0.91282411	1.055224667
Tmed2	-0.050407904	0.053376964	-0.00296906	0.086544131	0.023949368	-0.018534433	0.51338824	0.593137866
Phkg2	0.051780483	0.163205719	-0.214986203	-0.206756203	-0.099979063	0.061585373	0.58205308	0.67208526
Cct4	0.335991823	-0.313286951	-0.022704872	0.128198222	0.308824894	-0.227736973	0.790109	0.911802917
Rgn	-1.744473307	0.879339756	0.865133551	0.096197274	0.368119384	0.281474641	0.79063997	0.911895468
Trim25	0.162532081	-0.044005211	-0.11852687	0.146512241	-0.124370853	-0.275935633	0.60159043	0.693457235
Psmb3;Gm5356	0.454404825	-0.449684483	-0.004720342	0.311819061	0.495939541	-0.526755795	0.83003735	0.956244626
Cyp2d9	0.270533297	-0.280458504	0.009925206	0.477423259	-0.20191156	-0.022401279	0.76017021	0.875255736
Dcakd	-0.133273178	0.11653008	0.016743098	0.071160527	-0.235117675	0.02989154	0.72917491	0.839090358
Cct7	0.38408402	-0.273248474	-0.110835546	0.237748217	0.248556356	-0.233499902	0.75639019	0.86991322
Hsd17b7	0.161271761	0.080812947	-0.242084708	0.265760895	-0.462368075	-0.038344857	0.76474618	0.879023586
Cdipt	0.348988967	0.136211199	-0.485200166	0.631588907	-0.230028803	0.053784374	0.69197229	0.7949233
Cept1	-0.219921421	0.156420363	0.063501058	0.20361169	0.112900429	0.018413338	0.42286711	0.485505199
L2hgdh	-0.211331276	0.005747127	0.205584149	-0.15992523	0.380451778	-0.151330542	0.9199089	1.055573283
Stx18	0.194668173	-0.119766223	-0.074901949	0.086043497	-0.152124236	0.24232425	0.71701392	0.822289773
Sec61a1	-0.051761601	0.198872759	-0.147111158	-0.099354122	-0.001976477	0.022952958	0.82348672	0.943860411
Txnrd2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Atp6v1b2	0.095328467	-0.342169791	0.246841324	-0.186554152	-0.03619702	0.120553544	0.87149258	0.997752961
Gys2	-0.069833677	-0.064793258	0.134626935	-0.118565763	0.081208752	0.113420845	0.8104713	0.927366196
Lmf1	-0.02554032	-0.011177211	0.036717531	0.004185633	-0.081874382	0.165405351	0.71608153	0.818899338
Grsf1	0.020310387	-0.094219492	0.073909105	-0.089445374	-0.001535124	-0.011212743	0.58140322	0.664507744
Napa	-0.040329915	0.006220931	0.034108984	0.049540014	-0.237040057	0.070091948	0.71938542	0.821748562
Eef1a1	0.051320265	-0.071692226	0.020371961	-0.161919344	0.002417378	0.224143854	0.86376131	0.986111244
Lipa	0.390374117	-0.027422588	-0.362951528	0.284700775	-0.044745572	-0.688992226	0.69852048	0.797014627
Pon2	0.324948343	-0.163974001	-0.160974342	0.209991086	0.001757432	0.027880495	0.67207062	0.766402968
Myo6	0.199259525	-0.077616176	-0.121643349	0.17820552	-0.148221071	0.074092808	0.81536031	0.929281076
Prpsap1	0.720959129	-0.384723293	-0.336235837	0.279740447	-0.015269503	-0.41447462	0.90948425	1.0359722
Fn1	0.047062106	0.034507834	-0.08156994	0.281606767	-0.157160442	-0.054803659	0.87521129	0.996371656
Pgap1	0.480029788	-0.210191897	-0.269837891	1.02522183	-0.406940294	-0.169261633	0.78137177	0.889041103
Dnajc3	-0.048476875	0.232354757	-0.183877882	0.08536237	-0.030855637	-0.12163515	0.87767714	0.998055563
Esrp2	-0.633064049	0.420256858	0.21280719	-0.221519013	#DIV/0!	0.322201945	#DIV/0!	#DIV/0!
Fdft1	0.370027482	0.094090382	-0.464117864	0.370619968	-0.466890272	0.297674808	0.86235704	0.979533014
Vps45	0.645356946	-0.559696218	-0.085660727	1.734791926	-1.143029844	-0.774420044	0.95294645	1.081824165
G6pc	-0.081646073	-0.208522711	0.290168784	0.559902217	-0.034235116	-0.217291982	0.73053517	0.828868568
Cct6a	0.471884214	-0.370034797	-0.101849418	0.022140514	0.141816873	-0.273065606	0.90196334	1.022798111
Bhmt2	1.179217171	-1.451138938	0.271921767	1.133998806	#DIV/0!	0.300806483	#DIV/0!	#DIV/0!
Hnrnpa1;Gm7729	-0.413858986	0.184993386	0.2288656	-0.08482749	-0.20340971	0.173268448	0.87849597	0.995071302
Timmdc1	-0.109947481	-0.070049975	0.179997456	-0.128391244	0.123167952	0.10334018	0.80104517	0.906835132
Tomm22	0.03408351	0.00056073	-0.03464424	0.266614635	-0.17468936	-0.389915362	0.63603689	0.719632345
Glul	0.339592068	-0.318222671	-0.021369397	0.302006143	0.04897734	-0.662899989	0.77867364	0.880523631
Dnm1l	0.143925494	0.013546694	-0.157472188	0.502774755	-0.676551642	-0.077357557	0.82344568	0.93063163
Srpr	-0.347739548	0.175226404	0.172513144	0.181539095	-0.053178847	0.033285661	0.78743478	0.889436387
Rab8a	-0.266467135	0.057136232	0.209330903	0.057882056	-0.116141261	0.203950273	0.78695441	0.888397747
Tm7sf2	0.01228165	-0.022833858	0.010552207	0.095581479	-0.398506255	0.104787143	0.71209501	0.803440162
Rnh1	-0.019591581	0.058096085	-0.038504504	0.193239807	-0.379980645	-0.192942089	0.50110954	0.565075029
Pecr	0.453326823	-0.471044474	0.017717651	0.146523367	0.273694347	-0.121115115	0.74933308	0.844512994
Hist1h1c	-0.225486021	0.008477293	0.217008728	0.007731734	-0.331960971	0.178373308	0.81726827	0.920564425
Prrc1	-0.720610965	0.278105062	0.442505903	0.297697433	0.015708972	0.01346472	0.78609494	0.884958296
Adck1	-0.403756187	0.243427164	0.160329023	0.009209662	0.475074566	-0.137029338	0.69500852	0.781981221
Nit2	-0.341514196	0.256704223	0.084809973	-0.011045134	0.001371109	0.18972672	0.7670791	0.862590892
Txnrd1	0.023736126	0.067536552	-0.091272677	0.229206291	-0.148235659	0.065094641	0.70359419	0.790761694
Ddx17	-0.166121106	0.194348554	-0.028227448	0.155041536	-0.017232277	-0.205041119	0.88680559	0.996117551
Pm20d1	0.188055257	-0.091762148	-0.096293109	0.167644589	0.039190325	-0.103342603	0.79195232	0.889078544
Erp44	0.064346407	-0.026148292	-0.038198115	0.15864347	-0.080081986	-0.159475441	0.80249496	0.900414482
Ufl1	0.09523717	-0.064278911	-0.030958259	0.204762834	-0.200852264	-0.150419874	0.73871026	0.828387395
Tspo	-0.100522112	0.361437336	-0.260915224	-0.16182275	0.516390188	-0.93932959	0.69359546	0.77736488
Tmed10	0.063211529	0.043751314	-0.106962843	0.004980957	-0.158462945	0.069143803	0.76147397	0.852968907
Prdx2	0.029276622	0.110510447	-0.139787068	-0.349481376	-0.120764295	0.284236792	0.77138298	0.863590353
Mup17;Mup13	0.214818376	0.016715155	-0.231533531	0.240045713	-0.20774378	-0.379529344	0.63457656	0.710037825
Slc25a51	-0.367330832	-0.137171762	0.504502594	0.415157997	-0.198651221	-0.322238972	0.92386904	1.033160349
Tor1aip1	0.18973211	-0.263133164	0.073401053	0.501790136	-0.024357292	0.202620504	0.32895299	0.367664031
Vti1b	0.193361999	-0.064325597	-0.129036402	0.165027243	0.074093356	0.03168707	0.44255482	0.494361343
Atp6v1a	0.191250229	-0.26390627	0.072656041	0.043878945	-0.304160938	0.149973381	0.85845873	0.958422746
	0.257913876	-0.158704166	-0.09920971	0.404214988	-0.535418732	-0.216383285	0.72334832	0.807133839
Mccc1	-0.034899551	-0.127598361	0.162497912	-0.483890748	0.513744367	-0.444516443	0.7028857	0.783868669
Tmem14c	0.080032845	0.178177515	-0.25821036	0.126949589	0.076877014	-0.420656139	0.75808508	0.844962052
Pdzk1	-0.002459706	0.122420734	-0.119961028	0.080969025	-0.198040691	0.180366839	0.8817663	0.982276004
Gigyf2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ugt2b36	0.023722472	0.035138227	-0.058860699	0.117235895	-0.055713381	-0.119637317	0.81305402	0.904735024
Eif2b1	0.819673653	-0.507181718	-0.312491935	#DIV/0!	1.022345137	0.003642436	#DIV/0!	#DIV/0!
Ythdf3	-0.328106045	0.166355252	0.161750793	0.189423479	-0.068496674	-0.010257844	0.8490238	0.943722612
Dad1	0.057269685	0.108001716	-0.165271401	-0.069331807	0.041767186	0.092805232	0.8329389	0.925335195
Ugt1a6b	0.568817803	-0.295182343	-0.273635461	0.401056589	-0.547317291	-0.06466989	0.8673153	0.962996073
Ywhaq	-0.1645713	0.114403705	0.050167595	0.250763758	-0.32537727	-0.20253915	0.65948761	0.731839516
Rtn4ip1	0.117076347	-0.09723585	-0.019840497	0.207756486	0.137469507	-0.170804247	0.68250847	0.756970741
Tram1	-0.259731622	0.291927727	-0.032196105	-0.027713478	-0.055099301	0.00714518	0.88315248	0.978968471
Rhot2	0.006410867	0.129748344	-0.136159211	-0.043564446	0.081708622	0.042360602	0.76871123	0.851644482
Cox8a	-0.321688598	0.501635307	-0.179946709	-0.489400636	0.467170654	-0.862412979	0.56481378	0.625406833
Emc6	-0.150436236	0.133127795	0.01730844	0.053331109	-0.088415533	0.214345287	0.64492819	0.71372523
Nipsnap1	0.159053427	-0.160255512	0.001202085	-0.114955005	0.063411252	0.128832888	0.83716815	0.925965648
Lgals3bp	0.81787514	-0.608957064	-0.208918076	0.379369844	0.371518937	0.296202387	0.45837381	0.506715964
Itgb1	0.193678946	-0.054821875	-0.138857071	0.308867569	-0.379777202	-0.231128912	0.68646935	0.758453029
Cndp2	-0.039035289	0.232154319	-0.19311903	#DIV/0!	-0.806297801	0.473478179	#DIV/0!	#DIV/0!
Psmc3	0.705292915	-0.508788133	-0.196504782	0.552141626	0.296653272	-0.419798868	0.77423559	0.854489143
Ldlr	0.212787122	-0.183804799	-0.028982323	0.308742252	-0.408663576	-0.152022268	0.74354453	0.820169348
Sept2	0.264952952	-0.21846185	-0.046491102	0.119143694	-0.529195281	0.109264871	0.71626583	0.789648928
Dera	0.681822028	-0.901460217	0.219638189	0.791697803	0.522675369	-0.408587866	0.63816265	0.703160697
Mmaa	0.440501956	-0.184978143	-0.255523813	0.074138482	0.630262247	-0.328586598	0.74215574	0.817300526
Cdc42	-0.134133544	0.161172779	-0.027039235	0.009972341	-0.186299947	0.265466072	0.8588438	0.945288901
G3bp1	-0.198759518	0.10119309	0.097566428	-0.046125821	-0.139641713	0.115703621	0.86006534	0.946118638
Tlcd2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Ppp1cb	0.070129733	-0.113516952	0.043387218	0.186529296	0.112577714	-0.228665766	0.87504233	0.961548415
Vars	-0.160225339	0.154729536	0.005495804	0.004879975	0.188608738	-0.122187453	0.86184999	0.946537746
C2cd2	0.094943273	-0.126998312	0.03205504	-0.223142756	-0.138036641	0.188883483	0.70636412	0.775352481
Actr1a	0.439931428	-0.338613826	-0.101317603	0.305999075	0.446978432	-0.494381515	0.82850344	0.908927576
Scfd2	0.165039126	-0.070272494	-0.094766633	0.018253623	-0.204338429	0.101527601	0.83035095	0.910460683
D10Wsu52e	0.086793537	0.051800792	-0.138594329	-0.023351311	-0.068731562	0.050290503	0.86717872	0.950326412
Clpb	0.231272076	-0.011229031	-0.220043046	0.443632162	-0.328664245	-0.00031534	0.88982981	0.974621386
Pex5	0.285815533	-0.20628607	-0.079529463	0.129605846	0.100558707	-0.257930861	0.96407109	1.055365702
Serpinf2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fdps	-0.002993437	0.259732864	-0.256739427	-0.424865227	-0.199803499	0.401696753	0.80926274	0.884939738
Ttc37	-0.248494706	0.164344383	0.084150323	0.098441298	-0.117705873	-0.084650461	0.82070095	0.896962738
Mrps18b	0.53981434	-0.40343632	-0.13637802	-0.123842482	0.222010178	-0.222899757	0.90023743	0.983358705
Igf2r	0.125098534	0.342415103	-0.467513637	0.082543904	#DIV/0!	0.153614038	#DIV/0!	#DIV/0!
Ppp2r1a	0.020141297	-0.010377958	-0.00976334	0.27576184	-0.339883317	-0.165557778	0.69791399	0.761531819
Eif2a	-0.822531102	0.463810326	0.358720775	0.125146307	0.101959914	0.233560466	0.72974472	0.79583481
Serping1	0.185549443	-0.148043359	-0.037506084	0.631239461	-0.347391943	-0.235873831	0.96305795	1.049712409
Dak	-0.16350413	0.168441851	-0.004937721	-0.173655338	-0.354026529	0.343829686	0.80311461	0.874906226
Pitpnb	-0.068372391	0.050511118	0.017861273	#DIV/0!	#DIV/0!	-0.032791011	#DIV/0!	#DIV/0!
Tmed1	0.133055169	-0.083942072	-0.049113097	-0.181336849	-0.010915761	0.176247521	0.96754775	1.0529043
Esyt1	0.8561465	-0.485127879	-0.371018621	0.331663115	-0.344895079	-0.049770077	0.96663647	1.051347085
Alg2	0.557849161	-0.275536115	-0.282313046	0.562768669	-0.345540668	0.055716676	0.82400522	0.895734847
Trim14	0.030070377	-0.010218772	-0.019851605	0.341181455	-0.212973514	-0.039993472	0.86674322	0.941687182

Pdhx	0.204312288	-0.233620987	0.029308699	-0.016060269	0.137063116	-0.026343471	0.83011687	0.901409787
Gfer	-0.524307398	0.302071821	0.222235576	0.114667138	0.22541396	-0.408338667	0.94799343	1.02885768
Mccc2	0.066089821	-0.220681672	0.154591851	-0.476703582	0.526871611	-0.395082763	0.75303905	0.816835391
Hrsp12	-0.140897255	-0.095253399	0.236150654	-0.412049892	0.170614405	0.118020484	0.86124717	0.933710088
Gldc	-0.17825464	0.009846174	0.168408466	-0.26366534	0.300694947	-0.163940704	0.84335912	0.913827265
Gadd45gip1	-0.169210663	0.116839328	0.052371335	-0.063853062	0.442746012	-0.12537362	0.69401797	0.751605111
Psmc5	0.162996844	-0.350446505	0.187449661	-0.006500872	0.37572121	-0.269863584	0.90355767	0.978008118
Hnrnpa0	0.108358014	-0.248623167	0.140265153	0.097586192	0.083433125	-0.071260718	0.80104895	0.866589316
Gm4952	-0.162679035	-0.023380435	0.18605947	-0.13685036	0.326650369	-0.347339793	0.82569811	0.892777812
Slc35a3	-0.027930682	0.025272817	0.002657865	-0.030396273	-0.113823298	0.072182931	0.6899317	0.745583242
	-0.108575236	0.070351064	0.038224172	0.303309284	-0.273604278	0.070098302	0.85957398	0.928413327
Osbpl8	0.532607299	-0.144440806	-0.388166493	0.590912825	-0.542980286	0.019803895	0.96043875	1.036802346
Gnai2	0.14593656	-0.093245378	-0.052691182	0.055956538	-0.147306545	0.142867781	0.88694083	0.956950028
Dnajc11	-0.064107986	0.120264726	-0.05615674	0.064671178	-0.020248262	-0.0060754	0.85512997	0.922136418
Golim4	0.021432953	0.087112553	-0.108545506	-0.079684727	-0.260154678	0.191799151	0.7480472	0.806233074
Ostc;Als2cr11	0.188064732	-0.090343799	-0.097720933	0.269655289	-0.244979422	-0.270486809	0.70234971	0.756577991
Fads6	0.038423053	-0.223364691	0.184941639	-0.24614999	0.003249943	0.137484982	0.84082192	0.905259574
Pigt	0.057489565	0.180476754	-0.237966319	-0.023933453	-0.022100197	0.111004021	0.87759876	0.94435228
Rbmxl1;Rbmx	0.009302563	-0.035533642	0.026231079	-0.149111601	-0.06565391	0.105285737	0.66067996	0.710555849
Tmem205	0.038334977	-0.136170272	0.097835295	-0.032974389	-0.120658101	0.213859591	0.8775812	0.943329841
Herpud1	0.259511255	-0.262936688	0.003425433	-0.258167255	0.073069322	0.241915438	0.93264298	1.00198447
Suox	-0.460877149	0.05559017	0.405286979	0.077263091	0.255448548	-0.387184601	0.95696138	1.027565222
Myo1c	0.026319595	-0.054546247	0.028226652	0.039325974	-0.310736082	0.172914959	0.8339459	0.894998702
Lamp1	-0.091019857	0.126681144	-0.035661287	0.151767305	-0.157058252	0.08163845	0.83434011	0.894946996
Tmed5	0.298643429	-0.166787563	-0.131855866	0.287739785	-0.304872509	-0.103491145	0.86942933	0.932090899
Nap1l4	-0.06762527	-0.099308798	0.166934068	-0.044702785	-0.182348783	0.045050285	0.60063606	0.643584085
Sco2	-0.002255966	0.119284116	-0.11702815	-0.052890435	-0.168942616	0.224517745	0.99503574	1.065620596
Sgpl1	-0.018924589	-0.040442833	0.059367422	-0.000198897	0.048732099	0.009234179	0.59964406	0.641841235
Psmc1	0.18830188	-0.2645743	0.07627242	-0.034586477	0.367864604	-0.287113081	0.95079616	1.017165855
Xdh	0.180785748	-0.05516752	-0.125618229	0.055178248	0.279453252	-0.248232428	0.87983209	0.940750697
Mrps2	0.634760316	-0.136651625	-0.498108691	0.181139937	0.297306929	-0.438103296	0.97507888	1.042041505
Higd1a	-0.209440921	0.540492982	-0.331052061	-0.098270377	0.471001001	-0.54430793	0.89341375	0.954263995
Tcp1	0.363075293	-0.293025228	-0.070050065	-0.023397516	0.279021385	-0.130305619	0.86372207	0.922063185
Adpgk	0.034449535	0.104693084	-0.139142619	0.091694487	-0.189600769	0.1541524	0.89078049	0.950447749
Sec16b	0.209419777	-0.099953525	-0.109466252	0.347791131	-0.151612089	-0.138737262	0.92646784	0.988004454
Cct8	0.298973359	-0.214930646	-0.084042713	-0.079123775	0.273136345	-0.107145854	0.89016719	0.948792527
Sec61b;Gm10320	-0.408232082	0.178278559	0.229953523	-0.039193289	0.081244579	0.113365156	0.81717218	0.870531497
Mtch2	-0.190863939	0.153388487	0.037475452	0.037010776	0.030931324	-0.004375714	0.84550755	0.90024304
Creg1	0.111268114	0.015363103	-0.126631217	0.242637338	-0.142988111	-0.253855151	0.77172304	0.821249714
Srp19	-0.089658005	-0.030602029	0.120260033	0.137474055	-0.120381117	-0.082687131	0.84050881	0.89397966
Psmd14	0.341943103	-0.249037955	-0.092905147	-0.098353526	0.457880063	-0.30058195	0.94880178	1.008631633
March5	-0.015186971	0.097061195	-0.081874224	0.043984546	0.029364055	-0.123438631	0.83425942	0.886400633
Cct2	0.496616517	-0.390641186	-0.105975331	0.161193502	0.127889711	-0.286451181	0.99779611	1.059601854
Ssr3	-0.287386935	0.121838709	0.165548226	0.1404676	-0.013215777	-0.043544168	0.86596409	0.919121386
Mrps31	-0.589804244	0.1474976	0.442306644	-0.394091019	0.547751193	-0.148609803	0.99697125	1.057615546
Psmd7	0.459512361	-0.345858117	-0.113654244	0.391853804	0.199766236	-0.491199755	0.93027539	0.986345443
Slc25a20	-0.096900698	-0.019334501	0.116235199	-0.0625504	0.034174789	0.004661459	0.91374523	0.968311477
Cbr1	-0.339959222	0.343371545	-0.003412323	-0.521969729	-0.066337266	0.566564454	0.98539692	1.043695273
Stxbp3	0.253937217	-0.059793625	-0.194143592	0.269233998	0.02654098	-0.335052609	0.95542134	1.011416726
Sec16a	0.148473699	-0.045796412	-0.102677287	0.232825446	-0.305620751	-0.064527081	0.80471603	0.851433326
Hyou1	0.009843758	0.012318612	-0.02216237	0.107164966	-0.033678522	-0.103356953	0.88190625	0.932617008
Hspa8	-0.055539931	0.031639276	0.023900655	-0.053730019	-0.040227577	0.122138649	0.88868833	0.939298061
Tfr2	0.157972177	-0.206293771	0.048321595	0.500408592	-0.534894754	-0.321121221	0.74021886	0.781964888
Atad1	-0.10694719	0.219046375	-0.112099185	-0.079980347	0.126239797	-0.074418176	0.94541971	0.998217157
Cyb5a;Cyb5	-0.079767575	0.084265633	-0.004498058	0.121721381	0.075106838	-0.171055761	0.9372034	0.989025815
Tpm1	-0.271690097	0.09679326	0.174896837	-0.101039846	0.13639967	0.096749283	0.79180803	0.835155185
Erlec1	-0.042594017	0.039212538	0.003381479	-0.185295278	-0.14706722	0.347945752	0.97753116	1.03050836
Slc4a4	0.243874904	-0.280829872	0.036954968	0.315943964	-0.145210343	-0.444761852	0.75105416	0.791345088
Prelp	0.395161924	-0.540973231	0.145811307	-0.033397127	0.664891751	-0.405186805	0.86631321	0.912312139
Cyp8b1	-0.095043913	0.089525029	0.005518884	-0.231133228	0.032714082	0.142393362	0.88668668	0.933281561
Rpl34	-0.123886969	0.101472606	0.022414363	-0.041105488	-0.076474868	0.077322937	0.87607654	0.921634346
Cct5	0.513217142	-0.335345126	-0.177872016	-0.010198838	0.236646869	-0.187482451	0.96620943	1.01592603
Pcyt1a	0.137694914	-0.007963753	-0.129731161	-0.005063244	-0.350413146	0.165623116	0.72908669	0.766203825
Fam63a	-0.485474921	0.349807181	0.13566774	-0.253600789	-0.146274813	0.52254617	0.91234165	0.958290319
Ormdl1	-0.193446868	0.13364047	0.059806398	-0.256319424	0.151073786	0.014466186	0.85507534	0.897673801
Plin3	0.112867467	0.083069931	-0.195937398	0.01599814	-0.296421575	0.312520597	0.96018958	1.007501822
Cox20	-0.099276905	-0.014485328	0.113762233	0.489323281	-0.257941065	-0.251174034	0.98064321	1.028429868
Ccdc115	0.057195757	0.020236468	-0.077432225	#DIV/0!	-0.144656491	0.134780411	#DIV/0!	#DIV/0!
Cps1	-0.391689538	0.217186837	0.174502702	-0.331944356	0.504460061	-0.346322145	0.87403846	0.915680896
Timm8a1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cse1l	0.321739971	0.153606211	-0.475346182	-0.502553981	0.592286245	-0.466625762	0.78630079	0.82291076
Dpy19l1	-0.073600921	0.047300277	0.026300644	0.065196946	-0.470669755	0.296827596	0.8826777	0.923297304
Slc38a4	-0.141379168	0.02595371	0.115425458	0.282902937	-0.124176827	-0.262487189	0.85711167	0.896091421
Rab1b	0.130042464	-0.108488583	-0.021553882	-0.129681039	-0.090593229	0.157435924	0.86286525	0.901640707
Fam73b	0.402063207	-0.127267665	-0.274795541	0.175005397	-0.03604266	0.020751005	0.81657858	0.852833488
Psmc4	0.423767625	-0.38302057	-0.040747055	0.019013158	0.330481976	-0.395365139	0.96354532	1.005806077
Slc37a4	0.273998908	0.007909695	-0.281908603	0.062733139	0.185582539	-0.142267952	0.85915952	0.896379425
H3f3a;H3f3c	-0.881671602	-0.239603893	1.121275495	0.402788964	-0.30565265	0.391506031	0.81029013	0.844957183
Elovl1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Spryd7	-0.150510164	-0.367687236	0.5181974	0.434297489	-0.648451678	-0.068760256	0.82977286	0.864382331
Psmd13	0.412449071	-0.295417605	-0.117031466	0.082387299	0.354173479	-0.375741536	0.9495172	0.988612096
Agk	0.318726044	-0.117824446	-0.200901598	0.357999924	-0.302766276	-0.17398808	0.88575031	0.921745304
Mat1a	-0.271242377	0.129629704	0.141612673	-0.490793895	-0.126053116	0.445276096	0.86008052	0.894572184
Gck	-0.008558585	-0.023975213	0.032533798	-0.255045401	-0.388400424	0.446654296	0.81293089	0.845097219
Slc25a16	0.186829069	0.080347437	-0.267176506	0.124693039	-0.075437764	0.022534672	0.87999696	0.91434712
Rab11b;Rab11a	-0.137858765	-0.038956587	0.176815352	-0.024545729	-0.192106713	0.186696012	0.94792601	0.984422139
Vps13c	-0.063035504	-0.016147286	0.07918279	-0.110537895	#DIV/0!	0.26029781	#DIV/0!	#DIV/0!
Emc2	0.136107004	-0.002828868	-0.133278135	-0.006306766	-0.247914948	0.206648402	0.92224422	0.95676926
Psmd2;Gm5422	0.355757226	-0.362310727	0.006553501	0.049306379	0.358691716	-0.365655811	0.96413116	0.999711597
Psmb6	0.332102701	-0.300790572	-0.031312129	-0.157941625	0.441785821	-0.27509684	0.99240588	1.028502608
Ehd1	-0.064252056	-0.156923636	0.221175692	-0.10416929	#DIV/0!	-0.018284258	#DIV/0!	#DIV/0!
Map4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Oplah	0.028756761	-0.158082214	0.129325453	0.134675361	-0.024784485	-0.083240337	0.93749962	0.970108305
Copg2	0.260097841	-0.380747065	0.120649225	0.631181402	-0.748970501	-0.352230671	0.74743012	0.77303228
Vdac2	-0.288725071	0.18368705	0.10503802	-0.055660733	0.053400323	0.063122691	0.89962254	0.929962389
Decr1	0.035430838	-0.004456681	-0.030974157	0.229152845	-0.034947345	-0.265430257	0.87719394	0.906314274
Rpl39	0.031374216	0.184496084	-0.2158703	-0.136273782	-0.05957787	0.175509895	0.96603714	0.997597309
Osbpl1a	0.130836909	-0.046999078	-0.083837832	-0.087227616	-0.211888877	0.277449608	0.96638685	0.997449286
Mrpl28	0.192196986	-0.081585104	-0.110611882	0.156539048	0.162840316	-0.263932762	0.91914402	0.948204159
Slc27a2	0.019778576	-0.137679156	0.11790058	0.056967602	-0.122102398	0.057043205	0.97880434	1.009236076
Itm2b	0.070927431	0.180025448	-0.250952879	-0.17250118	0.073219298	0.096349725	0.99528163	1.025702871
Cxadr	-0.082056251	-0.19707097	0.279127221	-0.021348232	-0.13239841	0.214080667	0.91458279	0.942057525
Uroc1	-0.159277315	-0.028818518	0.188095834	-0.183223236	0.192470106	0.004180066	0.97738627	1.006235327
Cd38	-0.165898973	0.022822543	0.14307643	-0.063179347	-0.095214975	0.233738153	0.86446991	0.889533386
Cisd1	-0.228486474	0.17676742	0.051719054	-0.165701129	0.207139475	-0.053521738	0.98146334	1.009405354
Cstb	-0.196349137	0.523439852	-0.327090715	-0.249129474	0.23687691	0.381947859	0.72470298	0.744956362
Ifi35	0.583328143	-0.147384337	-0.435943806	0.794270052	-0.182224672	-0.663899937	0.97532954	1.002078036
Gstm6	-0.536656634	0.497440141	0.039216493	-0.00112438	0.061779405	0.073756317	0.88853057	0.9124352
Stx7	0.015494467	0.017027589	-0.032522056	0.150869518	-0.212910468	-0.011899733	0.82827336	0.850125317
Msra	0.137327617	0.051151975	-0.188479591	-0.244225585	-0.168719563	0.371419374	0.95219604	0.976821795
Clpx	0.894433194	-0.342025741	-0.552407453	-0.060308427	0.160001294	0.534204675	0.68467341	0.702024481
Maob	-0.0864419	0.026825983	0.059615918	-0.030487369	0.16870048	-0.163670412	0.94016796	0.963505466
Cmas	0.696509719	-0.362457419	-0.3340523	0.43633202	-0.217535187	0.005769053	0.85986916	0.880767243
Prkag1	0.773712797	-0.391327953	-0.382384844	0.752562401	-0.557416506	-0.719440657	0.78726252	0.805987893
Larp4	-0.727910317	0.333063268	0.394847049	-0.084321299	0.065180315	0.228132868	0.86180865	0.881860852
Cpn1	0.136914032	0.025290999	-0.162205031	0.220778152	-0.211397747	-0.005831518	0.99417429	1.016792003
Shpk	-0.516193643	0.250223395	0.265970248	-0.731071865	0.023569894	0.440143115	0.84561468	0.864415615
Qil1	0.048187599	-0.118988482	0.070800883	0.328401097	-0.205233719	-0.203553591	0.89322274	0.91262101
Pcyox1	0.068856373	-0.10514283	0.036286457	0.158596002	-0.223164883	0.03803754	0.9468596	0.96693436
Gm10704	0.321690983	-0.160802959	-0.160888024	0.278034025	-0.225944082	-0.059585304	0.99143416	1.011943141
Pxmp2	0.466126479	-0.321978382	-0.144148097	-0.157905347	0.319537997	-0.10992488	0.95432947	0.973579689
Papss2	0.459894004	-0.21875115	-0.241142854	0.86708038	-0.66529954	-0.593834804	0.82378136	0.839974643
Atp2a2	0.030313309	0.075661165	-0.105974473	0.029992737	-0.074946745	0.044806824	0.99944526	1.01857822

Srd5a1	0.448877377	-0.442097345	-0.006780032	0.612567684	-0.413909348	-0.258567285	0.96349918	0.981449568
Mosc1	0.403653162	-0.224790066	-0.178863096	0.053740485	0.016733739	0.010760743	0.90018342	0.916492735
Ddrgk1	-0.132941372	0.044517302	0.08842407	0.155955455	-0.090455362	-0.071633189	0.98528095	1.002627446
Skiv2l2	-0.275601932	0.330888926	-0.055286994	#DIV/0!	-0.155879481	0.163422877	#DIV/0!	#DIV/0!
Ugt2b34	0.237269935	-0.05130722	-0.185962715	0.185272442	-0.14149413	-0.032384019	0.98191759	0.998200646
Taldo1	-0.279987129	0.193505213	0.086481916	-0.560087938	-0.036720441	0.460434385	0.89636346	0.910770105
Abhd1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acot2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
F10	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Gm8730;Rplp0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mocs1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pctp	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pex10	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acss3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pmpca	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acbd3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Fahd2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Yes1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Map2k2	-0.136521243	0.206801501	-0.070280258	#DIV/0!	#DIV/0!	0.11721991	#DIV/0!	#DIV/0!
U2af1	0.103878664	0.207430716	-0.31130938	0.038262727	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9030617O03Rik	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
U2af2	0.112479053	-0.084928223	-0.02755083	-0.287648094	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nop16	0.20756123	-0.205170717	-0.002390513	-25.77669493	-0.56361356	-25.77669493	#DIV/0!	#DIV/0!
Cul4a	-25.22236156	0	-25.22236156	-0.723795231	-0.378909704	-0.876251505	#DIV/0!	#DIV/0!
Afmid	0.134651375	-0.273583796	0.138932421	#DIV/0!	-0.726028339	#DIV/0!	#DIV/0!	#DIV/0!
Scpep1	0.431718103	-0.142435253	-0.28928285	-0.766273087	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Stat3	0.021976602	0.116979385	-0.138955987	#DIV/0!	#DIV/0!	-0.70773159	#DIV/0!	#DIV/0!
Ttc36	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Cab39	0.389968864	-0.172254631	-0.217714233	-1.234794874	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Atp5j	0.502994187	-0.00811237	-0.494881817	#DIV/0!	-1.163696543	#DIV/0!	#DIV/0!	#DIV/0!
Deptor	0.005630629	-0.037061383	0.031430754	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Naglu	0.229157376	-0.169400101	-0.059757275	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nt5c3a	0.150480725	0.087682539	-0.238163264	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Acbd4	0.211009006	0.084388817	-0.295397823	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Slc16a2	-0.229002697	0.249343739	-0.020341043	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Gimap4	0.096645177	0.105856807	-0.202501984	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Gstm3	-0.246328545	0.491849878	-0.245521333	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

TABLE S2. CLASSIFICATION OF ONC/TS CANDIDATES BASED ON LITERATURE.

ONCOGENES	HCC	PMIDs			Other cancers	PMIDs							
ANXA2	X	27060670	19020748	25385370	X	29115416	22855149	12431980	27821486	20826156	25347736	20686216	
LGALS1	X	27100895	25469885	14612929	X	16900348							
CDC42	X	27730394	25445114		X	29858187	29853638						
CAPN2					X	22427650	20730561	26358320	26358320				
CUL4A	X	26593394	12029633	28420424	X	28949373	28677427	28576144	28576144				
PRKACA	X	28923495	25698061		X	26042218	24909179						
SQSTM1	X	27404485			X	22320446							
AKAP9					X	25446987							
BANF1	X	29059470			X	27413115							
CRK					X	29296536	29171987						
CSNK2A1	X	26430962	24958341		X	29658601	28744813						
DNM2					X	25575811	28366933	27771248	27771248				
EIF5A	X	20112425	19998337	23029619	X	28381547							
GNAS	X	21835143	27939373		X								
HNRNPA2B1	X	22372738	29774077		X	28638733	28351333						
NOP16					X	24425784							
TLN1	X	28099903			X								
TPD52L2	X	25932170			X	29039566							
LASP1	X	19155088	23084841		X	29226323	29088849						
MAP2K2	X	16272159			X	27956260							
MGLL	X	27884159	27767105	27884159	X	28681540	28193521	25636199					
TFRC	X	26657500			X	30034931	29875008	29286585					
CTTN	X	27025610	23518204	15464244	X	27572123							
EGFR	X	29777095	29449645		X	29863162							
HMGB1	X	29571949	29558367	29848691	X	30258050	30257412						
STAT3	X	29805309	29725404		X	29885023	29874570						
CD36	X	26424075	22022213		X	29765537	28521628						
FASN	X	28118080	26857837		X	29569717	29541228	17350669	23725225	3525233			
ACP5	X	23604121			X	29500863	29637867						
APEX1	X	23418439	26367730		X	29064327	29111564						
C1QBP					X	26497555							
LONP1					X	27308364	26363553						
OAT	X	26288681			X	22989455							
HSPB1	X	26381739	28903396		X	29844172	29424489						
ACC1	X	30244972			X	28081256	27693630	27750213					
GALT	X	27919945			X	11936817	233300						
TUMOR SUPPRESORS													
SELENBP1	X	22512980	22848296		X	29535818	27583873						
PA2G4	X	25081333			X	26008146	24998263						
EIF4A2					X	23867391							
FH	X	28785178			X	30190474	29917289						
SDHB	X	29449614			X	29399091							
PDCD5	X	25436001	23807738	26498344	X	27826615							
GSTM1	X	29928420	24399650		X	26893866	30034435						
GSTT1	X	24852428	23959468		X	29909733	29765533						
HTATIP2	X	28604762	27418384		X	29336367	28604742	26718891					
CD82	X	18622748	18028322		X	29283339	28260006						
JUP	X	23555187	10836294		X	29924959	29660231	28681073					
MTAP	X	21356366	16081515		X	29270023	29243509						
NDRG2	X	28069379	23630579		X	29530788	29082216						
PDCD4	X	26871813	24334270	20359850	X	29806708	28927090	24982420	29021022	26026468			
SDHA	X	24203292			X	28500238	25053597						
MAOA	X	24607627			X	29435065	29844571						
ENDOG					X	17046751	17050806						
IQGAP2	X	25254002	18180285		X	22406297							
LGALS9	X	29316949	25823465	22938412	X	26797414	26260906	29387226					
MAT2A	X	25925782			X								
AIMP2					X	27197155	19622630						
MSRA	**X**	**17784942**			**X**	**20937881**							
ARHGDIA	**X**	**24859471**	**24228117**		**X**	**27726098**	**27557508**	**26416248**					
BAG3	X	26621836	24895585		X	29644001	29462756	29221135	29221135				
ONCOGENES OR TUMOR SUPPRESSORS													
PTPN11	X	25865556	21575863	28059452	X								
CREG1		28508477			X	26722374	21263217	9710587	9710587				
ENTPD5	X	25145583	19176496		X	27956623	25794010	22992974	22992974	22169232			
S100A11	X	24376686	15205326	29568350	X	29569474	29375710	28513300	28513300	18193636	21167017	27590262	30182496
SLC9A3R1	X	12830000	23483729		X	28739734	28739728						
OTHERS													
GSTA1	X	27936036			X	27424321							
GSTM3	X	21483640			X	29774096	24157827						
GSTP1	X	29507666			X	29666895							
CYP1A2	X	28040498	27203676		X	29247736							
CYP2E1	X	29467309	27203676		X	29604112	29156840						
ALDH2	X	28027570	26150517		X	29254255							
ABCB11	X	23213087	24819516		X	22294766	23462326						
ABCE1	X	21932399			X	26733164							
ADH4	X	22147505	28374914		X	27718498							
TXN2	X	25004829	25004829		X	19566940							
BLMH	X	21943823			X	23076812							
AMACR	X	21457159	18577240	25092674	X	29887709	28571147						
CYP17A1	X	29774122	29085212		X	29372682							
HYOU1	X	25389441			X	26918051	17968289						
SARDH	X	11866469			X	23633921	25550822						
PRDX3	X	26983019	12530083	22344546									
CPS1	X	24763545											
DUSP3					X	29020102	28389334						
PEBP1	X	20739083			X	29436617							
CAPNS1	X	28100026			X	27994509							
IDH2	-	-	-	-	X	29769206							
DMGDH	X	27119355											
TYMP					X	29463559	27127154						
SNX5					X	22486813	28771744						
UQCRC2					X	17899367							
UGDH	X	18853186			X	28971451	20863317						
UBE2N	X	29371970			X	30224375	24556694						
PAFAH1B2					X	29758199	25945974						
TXNRD2	X	12530083			X	27002142	28414076						
TMEM30A					X	19893039							
TF	X	25548740	23607437		X	29286585							
SPTBN2					X	24462599							
PSMB9					X	23360169	22249249						
PSMB8					X	28721901	26894977						
PMPCB					X	19580345							
PDCD6IP	X	29637568			X	26980041							
NUDT12	X	24653623											
NIF3L1					X	26121980							
MSN					X	29848673	29715096	29310601					
MRPS36					X	25165143							
MCCC1					X	29927011	24477574						
MBL2	X	27298104	21733090										
KNG1	X	24050542	27788588		X	29535795							
ITIH2					X	18226209							
HNRNPU	X	16568080			X	25833338	29657295						
HDLBP	X	28178326			X	22302350							
HDHD3					X	25314065							
H6PD					X	29295867							
GORASP2					X	29297744							
GCN1L1					X	24504440							
GC	X	30194503	1336385	3040297	X	30030213	29476020						
FKBP4	X	20807235			X	22074005							
FADS2	X	25339766			X	22140540							
F2	X	20890897			X	29959891	28365523						
EPHX1	X	23451147			X	29605894							
DHTKD1					X	18004749							
CP	X	24799124	11231303		X	29572010	28423673						
CORO1A					X	23252456							
COBLL1					X	29686105	28232743						
CECR5					X	16513838							
CDC42BPB					X	28193625							
CALD1					X	28857608							
ATP5O					X	28978020							
ATP5J	X	22908233			X	29484395							
ATP1B1					X	26506237	24452105						
ASPSCR1	X	25469175			X	18382356	18176180						
APRT					X	29084986							
AIFM1	X	29501488			X	24992339							
ACADVL					X	18156936							
ANXA5	X	26615672			X	24743186							
TDO2					X	29938775	29254698	28771034					
Sep-09					X	29849824							
GPHN	-	-	-	-	X	11579461							
KDSR					X	19019774							
GMPS	X	27939741			X								
ACADM					X	28977850							
ATP5B					X	26526033	25311765						
COX7A2L					X	16980608							
AACS	X	24452951			X	29137983							
APOB	X	23723369			X	26804063							
SEPHS2					X	17346238	17346238						
MTTP	X	22820290			X	23805328							
PLIN2					X	29749470	28560057						
FAHD1					X	21878618							
ACAD10					X	27984715							
THRSP	X	21391224											
ACSM1					X	18632593							
PCK1	X	29768256	27609066		X	28235541							
GCKR					X	26115082							
MOCOS	-	-	-	-	X	28339086	24743044						
APOM	X	26201458	19796793	15238217	X	29750961	29067439						
MOCS1	-	-	-	-	-	-	-	-	-				
CTSA					X	30013364	10749558						
ACSL5	X	23749645											
PKLR	X	26082033			X	26784545							

Table S3. Transcriptomic datasets used for mouse and human NAFLD.

Rodents datasets				
GEO dataset IDs	***Samples Source***	***Stage***	***Method***	***PMIDs***
GSE-53834	***3 WT mice fed a chow or HFD for 12 weeks***	***Steatosis***	*microarray*	25284781
GSE-57425	***3 WT mice fed a chow or HFD (60Kcal%fat) for 12 weeks***	***Steatosis***	*microarray*	*none*
GSE-53131	***3 WT mice fed a chow or HFD (60Kcal%fat) for 9 weeks***	***Steatosis***	*microarray*	24618914
GSE-49195	***6 WT vs 6 ob/ob mice***	***Steatosis***	*microarray*	24525044
GSE-54189	***3 WT mice fed a chow or HFD (20%fat, 1% cholesterol) for 16 weeks***	***Steatosis***	*microarray*	25524918
GSE-51432	***3 WT mice fed a chow or High-cholesterol/HFD (20%fat, 1% cholesterol) for 12 weeks***	***Steatosis***	*microarray*	24858832
GSE-35961	***4 WT mice fed a chow or HFD+MCD for 8 weeks***	***NASH***	*microarray*	23028442
GSE-63027	***5 WT vs 5 GNMT KO mice (3 months old)***	***NASH***	*microarray*	25993042
GSE-63027	***5 WT vs 5 MAT1A KO mice (3 months old)***	***NASH***	*microarray*	25993042
GSE-55747	***4 healthy WT mice vs 4 CCL4-treated mice***	***Fibrosis***	*microarray*	*none*
GSE-27641	***3 healthy Wistar rats vs 6 DEN-treated rats***	***Cirrhosis***	*microarray*	24677197
Human datasets				
GEO dataset IDs	***Samples source***	***Stage***	***Method***	***PMIDs***
GSE-33814	***13 healthy livers vs 19 steatotic livers***	***Steatosis***	*microarray*	23071592
GSE-33814	***13 healthy livers vs 12 steatotic livers***	***NASH***	*microarray*	23071592
GSE-25097	***6 healthy livers vs 40 cirrhotic livers***	***Cirrhosis***	*microarray*	22634754

Table S4. Potential interactions between ONC/TS candidates in humans.

Proteins	Relationship	PMIDs
LGALS1-ANXA2	*Interaction* *Co-expression*	*26496610* *-*
ANXA2-S100A11	*Interaction* *Co-expression*	*24806074* *18799458; 24808179; 22848640* *-*
ANXA2-PTEN	*Interaction*	26561776
PTEN-AKT1	*Interaction*	20605778; 10866658; 19903340
AKT1-FASN	*Interaction*	25640309
FASN-ACACA	*Co-expression*	

Table S5. S100 family members in HCC and ICC.

PROTEIN NAME	*ROLE IN HCC*	*REFERENCES (PMIDs)*	*ROLE IN ICC*	*REFERENCES (PMIDs)*
*S100A11	*Migration Angiogenesis Proliferation*	*29568350 24376686 15205326*	*EMT*	29569474
*S100A8	*Cell survival Proliferation*	*19670424 26404752*	*Unknown*	-
*S100A9	*Proliferation Migration Invasion*	*25907296 23354417*	*Unknown*	-
S100A10	*Proliferation*	*23598417*	*Unknown*	-
S100A4	*Stem cell properties Migration Invasion*	*29303514 24065232*	*Metastasis*	-
*S100A6	*Proliferation Migration Differentiation*	*24281831 21310450*	*Proliferation Migration Invasion*	28984474 12191675
S100A7	*Unknown*	-	*Proliferation Migration Invasion*	29387225
S100B	*Unknown*	-	*Unknown*	-
S100P	*Proliferation Migration*	*19885547 27784747*	*Migration Invasion*	21412073
S100A2	*Tumor growth*	*11810761*	*Metastasis*	25999659

Table S6. Transcriptomic datasets used for mouse and human HCC/ICC.

Mouse Hepatocellular carcinoma models			
GEO dataset IDs	**Sample source**	**Method**	**PMIDs**
GSE-25457	*5 HCCs vs matched non-tum parts MAT1AKO mice*	*microarray*	*21562899*
GSE-26538	*6 HCCs vs normal liver MAT1AKO mice*	*microarray*	*21571946*
GSE-31431	*4 HCC from PDGF overexpressing mice vs 4 WT livers*	*microarray*	*22651928*
GSE-54054	*3 Tumors from Aflatoxine-treated mice vs 3 normal livers*	*microarray*	*26035378*
GSE-77503	*4 tumors from AKT/βCat mice vs 3 non-tumoral tissues*	*microarray*	*26844528*
GSE-83596	*5 tumors vs matched non-tum part MAT1AKO from STAMTM mice*	*microarray*	*none*
GSE-63027	*4 tumors from GNMTKO mice vs 5 normal livers from WT mice*	*microarray*	*25993042*
GSE-19004	*4 tumors from Rb, p130 and p107 triple KO mice vs 4 normal livers from WT mice*	*microarray*	*none*
GSE-29813	*6 spontaneous HCCs vs matched non-tum parts*	*microarray*	*23262642*
GSE-2127	*3 hepatic tumors vs matched non-tum parts from 22-months old TxnipKO mice*	*microarray*	*16607285*
GSE-67316	*6 HCC from Ginkgo biloba-treated mice vs 6 normal livers*	*microarray*	*26289556*
GSE-73498	*3 HCC from DEN-treated rats vs 3 normal livers from untreated rats*	*microarray*	*22194203*
GSE-50431	*Normal hepatocytes (from 3 normal livers) vs HCC cells (3 DEN-treated mice)*	*microarray*	*24120137*

Human Hepatocellular carcinoma			
GEO dataset IDs	**Samples source**	**Method**	**PMIDs**
GSE-74656	*5 HCCs vs matched non-tum part*	*microarray*	*none*
GSE-57957	*37 HCC vs matched non-tum part*	*microarray*	*25093504*
GSE-60502	*18 HCC vs 18 matched non-tum part*	*microarray*	*25376302*
GSE-64041	*60 HCC vs matched non-tum part*	*microarray*	*27499918*
GSE-46408	*6 HCC vs matched non-tum part*	*microarray*	*none*
GSE-57555	*5 HCC vs matched non-tum part*	*microarray*	*26538415*
GSE-14811	*56 HCC vs matched non-tum part*	*microarray*	*15607117*
GSE-29721	*9 HCC vs matched non-tum part*	*microarray*	*15607117*
GSE-25097	*242 HCC vs matched non-tum part*	*microarray*	*none*
GSE-109211	*21 HCC samples Responder vs 46 Non-Responder to Sorafenib treatment*	*microarray*	*30108162*
GSE-76427	*52 HCC vs matched non-tum part*	*microarray*	*29117471*

	Human Cholangiocarcinoma		
GSE-26566	*59 ICC with matched non cancerous surrounding livers*	*microarray*	*22178589*
GSE-76311	*91 ICC vs matched non-tum tissues*	*microarray*	*28648284*
GSE-57555	*11 CCC and matched non-tum tissues*	*microarray*	*26538415*
GSE-45001	*10 ICC and matched non-tum tissues*	*microarray*	*26981414*

Table S7. Immunostaining results for S100a11 in Human Tissue Microarray (HCC vs matched non-tumoral tissues).

LVC 481					IHC score			
ID	Gender	Age	Grade	TMN	NT tissue	Tumors	Tumors	local
1	M	40	I	T2N0M0	++	+	+	
2	M	39	I	T2N0M0	+	+	+	
3	M	33	I	T2N0M0	-	-	-	
4	M	47	I	T2N0M0	++	+	+	
5	M	65	II	T2N0M0	++	-	-	
6	F	68	II	T2N0M0	+	+	+	
7	M	52	II	T2N0M0	-	++	++	Nuclear/cyto
8	F	46	II	T2N0M0	++	+++	+++	Nuclear/cyto
9	M	48	II	T2N0M0	++	++	++	
10	M	47	II	T2N0M0	+	+	+	
11	M	68	II	T2N0M0	-	-	-	
12	F	35	II	T2N0M0	++	++	++	
13	M	57	II	T2N0M0	++	+	+	
14	M	40	II	T2N0M0	++	-	-	
15	F	60	II	T2N0M0	+	+	+	
16	M	32	III	T2N0M0	++	+	+	
LVC 482					IHC score			
ID	Gender	Age	Grade	TMN	NT tissue	Tumors	Tumors	local
1	M	40	II	T2N0M0	+	-	-	
2	M	39	II	T2N0M0	+	+	+	
3	M	33	III	T2N0M0	++	-	-/+	
4	M	47	II	T2N0M0	+	-	-	
5	M	65	III	T2N0M0	++	+++	+++	Nuclear/cyto
6	M	68	III	T2N0M0	++	++	++	
7	M	52	I~II	T2N0M0	-	-	-	
8	F	46	II~III	T2N1M0	-	-	-	
9	F	52	II	T2N0M0	+	++	++	Nuclear/cyto
10	M	40	I~II	T2N0M0	+/++	+	+	
11	M	41	II	T2N0M0	+/++	-	-	
12	M	57	II	T2N0M0	++	++	++	
13	M	41	II	T2N0M0	++	-	-	
14	M	36	II~III	T2N0M0	+	+++	+++	Nuclear/cyto
15	M	61	I~II	T2N0M0	++	-	-	
16	M	43	I~II	T2N1M0	+	+	+	

Table S8. Immunostaining results for S100A11 in Human Tissue Microarray (HCC with unmatched non-tumoral tissues).

BC03116a					***IHC score***		
ID		***Gender***	***Age***	***Grade***	***TMN***	***Tumors***	***local***
1	Hepatocellular carcinoma	M	42	II	T3N0M0	**-**	
2	Hepatocellular carcinoma	M	55	I	T2N0M0	**+**	
3	Hepatocellular carcinoma	M	40	I	T2N0M0	**+**	
4	Hepatocellular carcinoma	M	52	II	T2N0M0	**+++**	
5	Hepatocellular carcinoma	M	50	II	T2N0M0	**-**	**Nuclear/ cyto**
6	Hepatocellular carcinoma	M	50	I	T3N0M0	**+**	
7	Hepatocellular carcinoma	F	37	II	T3N0M0	**-**	
8	Hepatocellular carcinoma	M	40	II	T2N0M0	**+++**	
9	Hepatocellular carcinoma	M	51	II	T1N0M0	**-**	**Nuclear/ cyto**
10	Hepatocellular carcinoma	M	49	II	T3N0M0	**++**	
11	Hepatocellular carcinoma	M	44	II	T2N0M0	**-**	
12	Hepatocellular carcinoma	F	46	II	T3N0M0	**-**	
13	Hepatocellular carcinoma	M	48	II	T3N0M0	**+**	
14	Hepatocellular carcinoma	F	41	II	T3N0M0	**-**	**Nuclear/ cyto**
15	Hepatocellular carcinoma	M	37	II	T3N0M0	**++**	
16	Hepatocellular carcinoma	M	42	II	T3N0M0	**+**	
17	Hepatocellular carcinoma	M	43	II	T3N0M0	**-**	
18	Hepatocellular carcinoma	F	60	-	T3N0M0	**-**	
19	Hepatocellular carcinoma	F	48	II	T1N0M0	**+**	
20	Hepatocellular carcinoma	F	27	II	T2N0M0	**+/++**	
21	Hepatocellular carcinoma	M	63	3	T2N0M0	**++/+++**	
22	Hepatocellular carcinoma	F	55	II	T3N0M0	**+**	
23	Hepatocellular carcinoma	M	67	II	T3N0M0	**++**	
24	Hepatocellular carcinoma	F	48	II	T3N0M0	**-**	
25	Hepatocellular carcinoma	M	53	II	T3N0M0	**+/-**	
26	Hepatocellular carcinoma	M	49	II	T3N0M0	**+**	
27	Hepatocellular carcinoma	M	66	-	T1N0M0	**+**	
28	Hepatocellular carcinoma	M	34	I	T3N0M0	**-**	
29	Hepatocellular carcinoma	M	47	II	T2N0M0	**+**	
30	Hepatocellular carcinoma	M	41	II	T3N0M0	**+**	
31	Hepatocellular carcinoma	M	59	II	T3N0M0	**+**	
32	Hepatocellular carcinoma	M	38	II	T3N0M0	**++**	
33	Hepatocellular carcinoma	M	62	3	T3N0M0	**+**	
34	Hepatocellular carcinoma	M	54	3	T3N0M0	**+++**	
35	Hepatocellular carcinoma	M	73	3	T3N0M0	**-**	
36	Hepatocellular carcinoma	M	70	3	T2N0M0	**++**	
37	Hepatocellular carcinoma	M	37	3	T3N0M0	**+**	
38	Hepatocellular carcinoma	M	34	3	T2N0M0	**+++**	
39	Hepatocellular carcinoma	F	63	3	T3N0M0	**++**	
40	Hepatocellular carcinoma	M	53	3	T2N0M0	**+**	
41	Hepatic tissue	F	14	-	-	**+**	
42	Hepatic tissue	F	27	-	-	**+/+++**	
43	Hepatic tissue	M	3	-	-	**-**	
44	Hepatic tissue	M	47	-	-	**-**	
45	Hepatic tissue with fatty degeneration	F	50	-	-	**++**	
46	Hepatic tissue	F	35	-	-	**-**	
47	Hepatic tissue with fatty degeneration	M	35	-	-	**++/-**	
48	Hepatic tissue	M	35	-	-	**+**	
49	Hepatic tissue	M	40	-	-	**++/+**	

BC03116a					IHC score		
ID		***Gender***	***Age***	***Grade***	***TMN***	***Tumors***	***local***
50	Hepatic tissue	M	40	-	-	**+/++**	
51	Hepatic tissue	M	38	-	-	**++**	
52	Hepatic tissue	M	45	-	-	**++**	
53	Hepatic tissue	M	47	-	-	**++**	
54	Hepatic tissue	M	16	-	-	**+**	
55	Hepatic tissue	F	18	-	-	**+**	
56	Hepatic tissue with fatty degeneration	F	21	-	-	**+**	
57	Hepatic tissue	M	43	-	-	**+**	
58	Hepatic tissue with fatty degeneration	M	35	-	-	**-**	
59	Adjacent normal hepatic tissue	M	34	-	-	**++/+**	
60	Adjacent normal hepatic tissue	F	61	-	-	**++**	
61	Adjacent normal hepatic tissue	F	57	-	-	**+/++**	
62	Adjacent normal hepatic tissue	M	60	-	-	**+++/+**	
63	Adjacent normal hepatic tissue	F	65	-	-	**++/+**	
64	Hepatic tissue with fatty degeneration	M	32	-	-	**+/++**	
65	Hepatic tissue with fatty degeneration	M	31	-	-	**+++/+**	
66	Hepatic tissue with fatty degeneration	M	31	-	-	**+/++**	
67	Adjacent normal hepatic tissue	M	27	-	-	**+**	
68	Adjacent normal hepatic tissue	F	35	-	-	**+**	
69	Hepatic tissue with fatty degeneration	F	25	-	-	**-/++**	
70	Hepatic tissue with fatty degeneration	F	23	-	-	**-**	

Table S9. Expression and role of potential S100A11 interactors in human HCC and liver tissues from control and LPTENKO mice (3 and 15-months old).

Protein name	GO Biological Process (Human)	LOG2 FC LPTENKO 3 months GSE70681	LOG2 FC LPTENKO 15 months GSE70681	Expression in human HCC	Role	(PMIDs)
NCL	Angiogenesis Cellular response to EGFR	0.21 (0.0834)	0.42 (0.0173)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*25230759* *21167017*
TACC1	Cell cycle, microtubule organization	1.50E-01 0.341	0.32 (0.0434)	unknown	unknown	-
IGBP1	Positive regulation of cell growth	0.204 (0.128)	-0.02 (0.919)	unknown	unknown	*27769251*
STAM	macroautophagy	0.426 (0.0179)	0.253 (0.153)	unknown	unknown	-
PLP2*	Chemotaxis, ion transport, cytokine-mediated signaling pathway	-0.106 (0.473)	1.84 (0.0000427)	unknown	unknown	-
UBE2F	Post-translational protein modification	0.374 (0.0121)	0.292 (0.133)	Up	Tumor progression	*29846044*
ANXA2	Angiogenesis, membrane raft assembly,	1.45 (0.0000428)	2.0 (0.0000615)	Up (Poor prognosis)	Tumor progression	*30935762*
ANXA1	Actin cytoskeleton reorganization	1.0 (0.00312)	1.56 (0.0000264)	Up (Poor prognosis)	Tumor progression	*25412936*
HDLBP	Cholesterol metabolic process	-0.152 (0.106)	0.179 (0.202)	unknown	unknown	-
PLA2G4A	Arachidonic acid metabolic process	0.364 (0.072)	0.5 (0.035)	unknown	unknown	-

Protein name	GO Biological Process (Human)	LOG2 FC LPTENKO 3 months GSE70681	LOG2 FC LPTENKO 15 months GSE70681	Expression in human HCC	Role	(PMIDs)
ANXA5	Negative regulation of apoptotic process	1.13 0.0001	1.36 (0.000586)	Up (Poor prognosis)	Tumor progression	*26615672*
ANXA1	Actin cytoskeleton reorganization	1.0 0.0031	1.56 (0.0000264)	Up (Poor prognosis)	Tumor progression	*25412936*
PRX	Cell redox homeostasis	-0.114 0.34	-0.39 (1.10)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*26500057* *12530083*
S100A6	Signal transduction	1.38 0.0235	2.45 (0.00000631)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*24281831*
S100A10	Membrane raft assembly	0.71 0.000259	0.05 (0.897)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*23598417*
S100B	Cellular response to hypoxia Positive regulation of apoptotic process	-0.136 (0.42)	1.70 (0.000174)	unknown	unknown	-
AHNAK	Protein complex oligomerization Regulation of RNA splicing	0.328 (0.227)	1.40 (0.0000445)	Down	Tumor progression	*30836988*
HSPA5	ATF6-mediated unfolded protein response	-0.012 (0.937)	-0.02 (0.923)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*31310747*
TIMP1	Cytokine-mediated signaling pathway Negative regulation of apoptotic process	0.204 (0.373	2.04 (0.000056)	Up (Poor prognosis)	Tumor progression	25909286 23029478
HSP90B1	Actin rod assembly ATF6-mediated unfolded protein response	0.038 (0.789)	-0.17 (0.285)	Up (Poor prognosis)	Tumor progression Cancer cells proliferation	*25798051* *25463537*

TABLE S10

#BioGRID Interaction ID	Official Symbol Interactor A	Official Symbol Interactor B	Experimental System	Pubmed ID	species	Role in HCC	Role in HCC PMIDs
253006	NCL	S100A11	Reconstituted Complex	14623863	*Homo sapiens*	Tumor progression/cancer cells proliferation	25230759
253007	NCL	S100A11	Affinity Capture-Western	14623863	*Homo sapiens*	Tumor progression/cancer cells proliferation	25230759
277308	S100A11	S100A11	Co-crystal Structure	10673436	*Homo sapiens*	unknown	-
279178	S100B	S100A11	Two-hybrid	10913138	*Homo sapiens*	Apoptosis	27600583
279182	S100B	S100A11	Affinity Capture-Western	10913138	*Homo sapiens*	Apoptosis	27600583
279784	ANXA1	S100A11	Reconstituted Complex	8557678	*Homo sapiens*	Tumor progression	25412936
737385	ATP6V1B1	S100A11	Affinity Capture-MS	21674799	*Homo sapiens*	unknown	-
746772	S100A11	HDLBP	Co-fractionation	22939629	*Homo sapiens*	unknown	-
747151	IGBP1	S100A11	Co-fractionation	22939629	*Homo sapiens*	unknown	27769251
747599	S100A11	STAM	Co-fractionation	22939629	*Homo sapiens*	unknown	-
747685	S100A11	TACC1	Co-fractionation	22939629	*Homo sapiens*	unknown	-
749436	PLP2	S100A11	Co-fractionation	22939629	*Homo sapiens*	unknown	-
751755	S100A11	UBE2F	Co-fractionation	22939629	*Homo sapiens*	Tumor progression	29846044
831225	ATF2	S100A11	Affinity Capture-MS	22304920	*Homo sapiens*	Resistance to sorafenib	29693700
861838	NPM1	S100A11	Affinity Capture-MS	23402259	*Homo sapiens*	Apoptosis	22528486
906039	AGO2	S100A11	Affinity Capture-RNA	19167051	*Homo sapiens*	Angiogenesis	25937637
1051620	SHMT2	S100A11	Affinity Capture-RNA	22658674	*Homo sapiens*	Tumor progression/cancer cells proliferation	26662310
1052029	MOV10	S100A11	Affinity Capture-RNA	22658674	*Homo sapiens*	unclear	27446907
1052975	NXF1	S100A11	Affinity Capture-RNA	22658674	*Homo sapiens*	unknown	-
1511446	MCM2	S100A11	Affinity Capture-MS	25963833	*Homo sapiens*	Tumor progression/cancer cells proliferation	27065331
1528348	ANXA1	S100A11	Reconstituted Complex	17932043	*Homo sapiens*	Tumor progression	25412936
1528349	ANXA1	S100A11	Affinity Capture-Western	17932043	*Homo sapiens*	Tumor progression	25412936
1528351	S100A11	ANXA1	Affinity Capture-Western	17932043	*Homo sapiens*	Tumor progression	25412936
1528352	S100A11	PLA2G4A	Affinity Capture-Western	17932043	*Homo sapiens*	unknown	-
2211310	CDH1	S100A11	Proximity Label-MS	25468996	*Homo sapiens*	Tumor progression/cancer cells proliferation	27212245
2362333	SOD1	S100A11	Affinity Capture-MS	29128334	*Homo sapiens*	Oxidative stress regulation	15531919
2462216	E2F6	S100A11	Affinity Capture-MS	27705803	*Homo sapiens*	Cell Cycle progression	24440307
2470454	S100A11	FOPNL	Reconstituted Complex	28765046	*Homo sapiens*	unknown	-
2489922	TNIP2	S100A11	Affinity Capture-MS	27609421	*Homo sapiens*	Cancer cells proliferation	27044843
2519974	ESR2	S100A11	Affinity Capture-MS	29509190	*Homo sapiens*	Cell Cycle regulation	25858474
2528262	AGR2	S100A11	Affinity Capture-MS	30575818	*Homo sapiens*	P53 response regulation to genotoxics	20299546
2528920	AGR2	S100A11	Proximity Label-MS	30575818	*Homo sapiens*	P53 response regulation to genotoxics	20299546
2536986	GPC1	S100A11	Affinity Capture-MS	27576135	*Homo sapiens*	unknown	-