

Gene	Atrial Expression	P-value Atrial	AV-Canal Expression	P-value AV-Canal	Branchial Arches Expression	P-value Branchial Arches	Heart Tube Expression	P-value Heart Tube	Outflow Tract Expression	P-value Outflow Tract	Ventricle Expression	P-value Ventricle	DMP Expression
ANXA8	0.5198948	2.06E-06	.	.	.	.	.	.	.
AOX1	0.5509519	3.65E-07	.	.	.	.
AP1G1	yes
AP1S2	0.6304566	1.75E-09	.	.	.	.
AP2A1	0.5755808	8.11E-08	.	.	.	.
AP2A2	0.5231232	1.74E-06	.	.	.	yes
AP2B1	.	.	0.3856024	0.0006917	.	.	.	0.3627604	0.0014911	.	.	.	yes
AP2M1	.	.	0.3058334	0.0080514	.	.	.	0.5540625	3.04E-07	.	.	.	.
AP3S2	0.5971295	1.96E-08	.	.	.	.
AP4B1	0.6818703	2.26E-11	.	.	.	.
AP4M1	0.4498771	5.79E-05	.	.	.	.
AP5M1	.	.	0.4228619	0.0001745	.	.	.	.	.	.	.	.	.
APBB3	0.8176531	6.18E-19	.	.	.	.
API5	.	.	0.304364	0.0083758	.	.	.	.	.	.	.	.	yes
APLP2	yes
APOBEC2	.	.	0.371223	0.0011291	.	.	.	0.6059198	1.06E-08	.	.	.	.
APOL2	0.7004016	3.77E-12	.	.
APP	.	.	0.4656247	2.91E-05	.	.	.	.	.	.	.	.	yes
APPBP2	.	.	0.3832262	0.0007512	.	.	.	0.3034976	0.0085724	.	.	.	.
AQPEP	0.6233326	3.00E-09	.	.
ARCN1	.	.	0.4239242	0.0001674	.	.	.	.	.	.	.	.	yes
ARF3	.	.	0.4011574	0.0003969	.	.	.	0.4474078	6.43E-05	.	.	.	yes
ARF4	.	.	0.3829508	0.0007584	.	.	.	0.3229998	0.005002	.	.	.	yes
ARFGEF1	0.4999935	5.74E-06	.	.	.	.
ARFGEF2	0.5968985	1.99E-08	.	.	.	.
ARFIP2	0.4716403	2.22E-05	.	.	.	.	.	.	.
ARG1	yes
ARHGAP1	.	.	0.5885073	3.50E-08	.	.	.	.	.	.	.	.	.
ARHGAP28	0.4803116	1.49E-05	.	.	.	.	.	.	yes
ARHGAP29	.	.	0.5167883	2.43E-06	.	.	.	.	.	.	.	.	.
ARHGAP31	.	.	0.5646834	1.60E-07	.	.	.	.	.	.	.	.	.
ARHGAP35	0.4595253	3.81E-05	.	.	.	yes
ARHGAP40	0.5515258	3.53E-07	.	.
ARHGAP44	0.5272564	1.39E-06	.	.
ARHGDI1	0.6423991	6.85E-10	.	.	.	yes
ARHGDI10L	0.4582224	4.04E-05	.	.	.	.	.	.	.	.	.	.	.
ARHGDI12	.	.	0.4009294	0.0004002	.	.	.	0.4631047	3.26E-05	.	.	.	.
ARHGDI17	0.4504889	5.64E-05	.	.	.	yes
ARHGDI2	0.4410577	8.38E-05	.	.	.	.
ARHGDI3A	0.3491214	0.0022986	.	.	.	yes
ARHGDI4	yes
ARHGDI5	0.532725	1.03E-06	.	.	.	.
ARHGDI6	yes
ARHGDI7	.	.	0.3230629	0.004993	.	.	.	.	.	.	.	.	yes
ARHGDI8	.	.	0.484132	1.24E-05	.	.	.	.	.	.	.	.	.
ARHGDI9	0.5266442	1.44E-06	.	.	.	.
ARHGDI10	.	.	0.3799275	0.0008416	.	.	.	.	.	.	.	.	.
ARHGDI11	yes
ARHGDI12	.	.	0.4033799	0.0003658	.	.	.	0.3608965	0.0015838	.	.	.	.
ARHGDI13	0.5084453	3.75E-06	.	.	.	.
ARHGDI14	0.641925	7.11E-10	.	.	.	.
ARHGDI15	0.6394362	8.67E-10	.	.	.	.
ARHGDI16	0.6922022	8.46E-12	.	.	.	.
ARHGDI17	.	.	0.3798428	0.000844	.	.	.	.	.	.	.	.	yes
ARHGDI18	.	.	0.3886265	0.0006222	.	.	.	0.6511819	3.35E-10	.	.	.	.
ARHGDI19	0.4516112	5.37E-05	.	.	.	.
ARHGDI20	.	.	0.5308613	1.14E-06	.	.	.	0.4527694	5.11E-05	.	.	.	yes
ARHGDI21	0.6178504	4.51E-09	.	.	.	.
ARHGDI22	0.6258804	2.48E-09	.	.	.	.
ARHGDI23	0.5748337	8.50E-08	.	.	.	.
ARHGDI24	yes
ARHGDI25	.	.	0.4127017	0.0002581	.	.	.	.	.	.	.	.	.
ARHGDI26	0.4569327	4.27E-05	.	.	.	.
ARHGDI27	0.6418797	7.14E-10	.	.	.	.
ARHGDI28	0.6669659	8.70E-11	.	.
ARHGDI29	.	.	0.435106	0.000107	.	.	.	.	.	.	.	.	.
ARHGDI30	0.4528522	5.10E-05	.	.	.	.	.	.	.
ARHGDI31	0.6504802	3.55E-10	.	.	.	.
ARHGDI32	0.3010636	0.0091465	0.5083101	3.77E-06	.	.	yes
ARHGDI33	0.5305908	1.16E-06	.	.	.	.
ARHGDI34	0.4990471	6.02E-06	.	.
ARHGDI35	0.3605635	0.0016008	0.5398979	6.90E-07	.	.	.
ARHGDI36	0.8351468	2.27E-20
ARHGDI37	0.4616699	3.47E-05
ARHGDI38	0.5015044	5.32E-06

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BCKDK	.	.	0.3146307	0.0063299	0.4647273	3.03E-05	.	.	.
BCL10	.	.	0.4158404	0.000229	0.5684243	1.27E-07	.	.	.
BCL7A	0.4943917	7.57E-06	.	.	.
BCL9	0.3529551	0.0020392	.	.	yes
BCLAF1	yes
BCOR	0.2981216	0.0098849	0.4880233	1.03E-05	.	.	.	.
BCORL1	.	.	0.5839965	4.71E-08	.	.	.	.	.	.	.	.	.
BCR	0.5911152	2.94E-08	.	.	.
BECN1	0.4367819	1.00E-04	.	.	.
BEND4	.	.	0.3631052	0.0014746	.	.	.	.	0.7263324	2.41E-13	.	.	.
BFSP1	.	.	0.3823648	0.0007739	.	.	.	.	.	.	.	.	.
BHLHB9	0.5577449	2.44E-07	.	.	.
BICD2	0.5549787	2.88E-07	.	.	.
BID	0.322749	0.0050379	0.4991653	5.98E-06	.
BIK	0.6646876	1.06E-10	.	.	.
BIRC6	yes
BLMH	0.3858381	0.0006861	.	.	yes
BLOC1S1	.	.	0.4369775	9.92E-05	.	.	.	.	.	.	.	.	.
BLOC1S4	0.6591108	1.72E-10	.	.	.
BLOC1S6	0.4560526	4.44E-05	.	.	.
BMP4	0.3480129	0.0023789	0.4852898	1.17E-05	.	.	.	.
BMP7	.	.	0.4731951	2.07E-05	.	.	.	.	0.3868376	0.0006625	.	.	.
BMPER	.	.	0.6101742	7.86E-09	.	.	.	.	.	.	.	.	.
BMPR1A	.	.	0.3847677	0.0007121	.	.	.	.	.	.	.	.	yes
BMS1	yes
BNIP2	0.5357477	8.71E-07	.	.	.	.	.	.	.
BNIP3	.	.	0.5653639	1.54E-07	.	.	.	.	.	.	.	.	.
BNIP3L	0.7023971	3.08E-12	.	.	.
BOD1	0.4789826	1.58E-05	.	.	.
BPIFB2	0.4377461	9.61E-05	.	.	.	.	.	.	.
BPTF	yes
BRAF	.	.	0.3825238	0.0007697	.	.	.	.	.	.	.	.	.
BRCC3	0.5682106	1.29E-07	.	.	.
BRD2	yes
BRD3	yes
BRD4	.	.	0.4003201	0.0004092	.	.	.	.	.	.	.	.	yes
BRD9	.	.	0.5018982	5.22E-06	.	.	.	.	.	.	.	.	.
BRF2	.	.	0.3251922	0.0046978	.	.	.	.	0.4686908	2.54E-05	.	.	.
BRI3	0.4466553	6.63E-05	.	.	.
BRI3BP	.	.	0.4425761	7.87E-05	.	.	.	.	0.4183911	0.0002076	.	.	.
BRSK1	0.6664703	9.09E-11	.	.	.
BRWD3	0.4599469	3.74E-05	.
BSG	0.3432006	0.0027575	.	.	yes
BTAF1	0.4567686	4.30E-05	.	.	.
BTBD1	.	.	0.3862718	0.0006758	.	.	.	.	0.3070284	0.0077958	.	.	.
BTBD6	0.4599604	3.74E-05	.
BTG4	0.6749837	4.25E-11	.
BTK	0.5921671	2.74E-08	.	.	.
BTN1A1	.	.	0.4093999	0.0002924	.	.	.	.	.	.	.	.	.
BTNL10	0.4379381	9.53E-05	.	.	.
BTRC	.	.	0.4363312	0.0001018	.	.	.	.	.	.	.	.	.
BUB1	.	.	0.3725024	0.0010819	.	.	.	.	.	.	.	.	yes
BUB1B	.	.	0.3070581	0.0077895	0.3226516	0.0050519	.	.	.	.	.	.	yes
BUB3	0.4438373	7.47E-05	.	.	yes
BVES	.	.	0.5879964	3.62E-08	.	.	.	.	.	.	.	.	.
BZW1	yes
BZW2	yes
C10orf118	.	.	0.457534	4.16E-05	.	.	.	.	.	.	.	.	.
C11orf58	0.536534	8.33E-07	.	.	.
C11orf86	0.5009653	5.47E-06	.	.	.	.	.	.	.
C12orf4	0.5224048	1.81E-06	.	.	.
C12orf5	0.764819	2.17E-15	.	.	.
C12orf65	0.6142503	5.86E-09	.	.	.
C12orf68	0.6906305	9.85E-12	.
C14orf119	0.4860629	1.13E-05	.	.	.
C14orf142	0.5399547	6.87E-07	.	.	.	.	.	.	.
C14orf159	0.6365091	1.09E-09	.
C14orf169	.	.	0.3939847	0.0005145	.	.	.	.	0.3446477	0.0026384	.	.	.
C14orf180	0.6127261	6.55E-09	.
C14orf2	.	.	0.4267039	0.00015	.	.	.	.	.	.	.	.	.
C14orf37	0.4551483	4.61E-05	0.7962125	2.26E-17	.	.	.
C15orf38-AP3S2	0.5399439	6.88E-07	.	.	.
C16orf52	0.6631091	1.22E-10	.	.	.
C16orf59	0.5715739	1.04E-07
C16orf72	0.4396207	8.90E-05	.	.	.

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C16orf74	0.6731376	5.02E-11	.	.	.
C16orf80	.	.	0.3484269	0.0023486	0.4858084	1.15E-05	.	.	.
C16orf91	.	.	0.3833144	0.000749
C17orf49	.	.	0.4207129	0.0001897	.	.	.	.	.	.	.	.	.
C17orf59	.	.	0.3383798	0.00319	.	.	.	.	.	.	.	.	.
C17orf96	0.6747911	4.33E-11	.	.	0.567434	1.35E-07	.	.	.
C19orf66	0.4474298	6.42E-05	.	.	0.3069132	0.0078201	.	.	.
C19orf68	0.5610289	2.00E-07	.	.	.
C1GALT1	0.6543551	2.57E-10	.	.	.
C1orf106	0.605643	1.08E-08	.	.	.
C1orf109	0.4961923	6.93E-06	.	.	.
C1orf111	0.5863359	4.04E-08	.	.	.	.	.	.	.	.	.	.	.
C1orf174	0.4901904	9.29E-06	.	.	.
C1orf198	.	.	0.4153687	0.0002332	.	.	.	.	0.4407132	8.50E-05	.	.	.
C1orf21	0.4822302	1.36E-05	.	.	.
C1orf227	.	.	0.3970575	0.0004607	.	.	.	.	.	.	.	.	.
C1orf43	0.6504828	3.55E-10	.	.	.
C1orf86	0.5359466	8.61E-07	.	.	.	.	.	.	.
C1QBP	0.4313607	0.0001245	.	.	.	.	yes
C20orf194	.	.	0.3945207	0.0005047	.	.	.	.	.	.	.	.	.
C21orf59	.	.	0.3031871	0.0086438	.	.	.	.	0.5853455	4.31E-08	.	.	.
C2CD5	0.7000136	3.91E-12	.
C2orf43	0.6320838	1.54E-09	.	.	.
C3orf80	.	.	0.4799585	1.51E-05	.	.	.	.	.	.	.	.	.
C4orf17	0.4628865	3.29E-05	.
C4orf46	0.5836283	4.83E-08	.	.	.
C5AR2	0.7111131	1.25E-12	.	.	.
C5orf15	.	.	0.4688893	2.51E-05	.	.	.	.	0.6044517	1.18E-08	.	.	yes
C5orf24	.	.	0.38267	0.0007658	.	.	.	.	.	.	.	.	yes
C5orf42	0.4560374	4.44E-05	.
C6orf106	0.5551622	2.85E-07	.	.	.
C6orf211	0.6070675	9.81E-09	.	.	.
C6orf222	.	.	0.4045984	0.0003497	.	.	.	.	.	.	.	.	.
C6orf47	.	.	0.3902335	0.0005879	.	.	.	.	.	.	.	.	.
C6orf62	.	.	0.4448905	7.14E-05	.	.	.	.	.	.	.	.	.
C7orf26	0.4544922	4.75E-05	.	.	.	.	.	.	.
C7orf50	0.4691904	2.48E-05	.	.	.	.	.	.	.
C7orf55	.	.	0.4379611	9.52E-05	.	.	.	.	0.7329449	1.14E-13	.	.	.
C8G	0.438069	9.48E-05	.	.	.
C8orf4	0.6714504	5.85E-11	.	.	.
C9orf116	0.5108247	3.32E-06	.	.	.	.	.	.	.	.	.	.	.
C9orf41	0.7174707	6.38E-13	.	.	.
C9orf72	0.4869713	1.08E-05	.	.	.
CA4	0.5349759	9.09E-07	0.3326	0.0037875	.	.	.
CAB39	.	.	0.3849788	0.0007069	.	.	.	.	.	.	.	.	.
CAB39L	.	.	0.4172228	0.0002172	.	.	.	.	.	.	.	.	.
CABP5	0.5658587	1.49E-07	.
CACNA1E	0.5455426	5.00E-07	.
CACNA1S	0.4898594	9.44E-06	.	.	.
CACNA2D2	.	.	0.4718868	2.19E-05	.	.	.	.	.	.	.	.	.
CACNB3	.	.	0.4358726	0.0001037	.	.	.	.	.	.	.	.	.
CACNG7	0.5103633	3.40E-06	.	.	.
CACTIN	.	.	0.3962238	0.0004748	.	.	.	.	0.3527454	0.0020527	.	.	.
CAD	yes
CADPS	0.6940904	7.04E-12	.
CADPS2	0.4518119	5.33E-05	.
CALCA	0.7473192	2.05E-14	.	.	.	.	.	.	.	.	.	.	.
CALR	.	.	0.336274	0.0033971	.	.	.	.	0.7865607	9.98E-17	.	.	yes
CALU	.	.	0.3432506	0.0027533	.	.	.	.	.	.	.	.	yes
CAMK2A	0.7480006	1.88E-14	.	.	.
CAMK2G	.	.	0.3752711	0.0009858	.	.	.	.	.	.	.	.	.
CAMLG	0.6394252	8.68E-10	.	.	.
CAMSAP3	0.5626585	1.81E-07	.
CAMTA2	0.4493563	5.92E-05	.	.	.
CAND1	.	.	0.4474914	6.40E-05	.	.	.	.	.	.	.	.	yes
CAND2	yes
CANX	0.5086632	3.71E-06	.	.	yes
CAP1	yes
CAP2	.	.	0.4041537	0.0003555	.	.	.	.	0.5887012	3.46E-08	.	.	.
CAPG	.	.	0.5609485	2.01E-07	.	.	.	.	.	.	.	.	.
CAPN2	.	.	0.3321371	0.0038394	.	.	.	.	0.6519788	3.13E-10	.	.	.
CAPN6	.	.	0.3533622	0.0020132	.	.	0.4230464	0.0001732	.	.	.	.	yes
CAPNS1	.	.	0.3009242	0.0091803	0.633679	1.36E-09	.	.	.
CAPRIN1	0.5145407	2.73E-06	.	.	0.3677581	0.0012664	.	.	yes
CAPS2	0.5758258	7.98E-08	.

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CDC16	yes
CDC20	0.4831638	1.30E-05
CDC20B	0.6821265	2.21E-11
CDC27	0.5579846	2.40E-07	.	.	.	yes
CDC34	0.5800877	6.08E-08	.	.	.	.
CDC37	0.7129599	1.03E-12	.	.	.	yes
CDC40	0.6915654	9.00E-12	.	.
CDC42	yes
CDC42BPB	yes
CDC42EP5	.	.	0.623166	3.04E-09	.	.	.	.	.	.	.	.	.
CDH11	yes
CDH13	.	.	0.4047166	0.0003482	.	.	.	0.310936	0.0070088	.	.	.	.
CDH18	0.4482777	6.19E-05	.	.	.	.	.	.	.
CDH2	.	.	0.4845644	1.22E-05	.	.	.	0.3992792	0.000425	.	.	.	.
CDH20	.	.	0.4846635	1.21E-05	.	.	.	.	.	.	.	.	.
CDH23	0.4955802	7.14E-06	.	.	.	.
CDH3	0.5528789	3.26E-07	.	.	.	.
CDIP1	0.3902791	0.000587	0.61493	5.58E-09	.	.	.
CDK1	yes
CDK16	.	.	0.382011	0.0007834	.	.	.	.	.	.	.	.	yes
CDK2AP1	0.3016332	0.0090092	.	.	0.5422511	6.03E-07	.	.	.
CDK4	yes
CDK6	.	.	0.4090533	0.0002962	.	.	.	0.3750576	0.000993	.	.	.	.
CDK9	.	.	0.3779084	0.0009016	.	.	.	0.3008781	0.0091915	.	.	.	.
CDKL1	.	.	0.4446428	7.22E-05	.	.	.	.	.	.	.	.	.
CDKN1C	0.4853132	1.17E-05	.	.	.	yes
CDR2L	0.470776	2.31E-05	.	.	.	.
CDT1	0.486056	1.13E-05	.	.	.	.	.	.	.
CELF1	.	.	0.3437028	0.0027156	.	.	.	.	.	.	.	.	yes
CEND1	0.6126498	6.58E-09	.	.	.	.
CENPE	.	.	0.4882225	1.02E-05	.	.	.	.	.	.	.	.	.
CENPF	yes
CENPM	0.561598	1.93E-07	.	.
CENPN	0.4831196	1.30E-05	.	.	.	.
CENPO	0.4879172	1.04E-05	.	.
CENPT	0.5506751	3.71E-07	.	.	.	.
CEP19	0.442931	7.75E-05	.	.	.	.
CEP55	.	.	0.5111123	3.27E-06	.	.	.	.	.	.	.	.	.
CEP68	0.6634068	1.19E-10	.	.	.	.
CERS5	.	.	0.4155689	0.0002314	.	.	.	.	.	.	.	.	.
CES1	0.6952951	6.25E-12	.	.
CFDP1	yes
CFL1	0.6607398	1.49E-10	.	.	.	yes
CGNL1	.	.	0.3966744	0.0004671	.	.	.	0.538987	7.26E-07	.	.	.	yes
CHAF1A	yes
CHCHD10	0.318088	0.0057477	0.6122355	6.78E-09	.	.	.	.
CHCHD3	0.6505889	3.51E-10	.	.	.	.
CHD2	.	.	0.3980045	0.0004452	.	.	.	0.3120485	0.0067979	.	.	.	.
CHD3	yes
CHD4	0.7145499	8.73E-13	.	.	.	yes
CHD5	0.6220695	3.30E-09	.	.
CHD7	0.3601516	0.0016222	.	.	.	.	.	.	yes
CHD8	0.4543818	4.77E-05	.	.	.	.	.	.	yes
CHERP	.	.	0.3713795	0.0011232	.	.	.	.	.	.	.	.	yes
CHIT1	.	.	0.420826	0.0001889	.	.	.	.	.	.	.	.	.
CHML	.	.	0.5377241	7.80E-07	.	.	.	.	.	.	.	.	.
CHMP1A	0.6733036	4.95E-11	.	.	.	.
CHMP1B	0.4550907	4.63E-05	.	.	.	.
CHMP4B	.	.	0.2999468	0.0094209	.	.	.	0.6542362	2.59E-10	.	.	.	.
CHMP6	.	.	0.4688673	2.52E-05	.	.	.	.	.	.	.	.	.
CHRD	0.8307254	5.41E-20	.	.	.	.
CHRNA10	.	.	0.3881347	0.0006331	.	.	.	.	.	.	.	.	.
CHST14	.	.	0.3008699	0.0091935	.	.	.	0.6312272	1.65E-09	.	.	.	.
CHST15	0.4899395	9.40E-06	.	.	.	.
CHST8	0.6997042	4.04E-12	.	.
CHSY1	0.5936481	2.48E-08	.	.	.	.
CHTF8	yes
CIAO1	0.4378355	9.57E-05	.	.	.	.
CIAPIN1	0.7263887	2.39E-13	.	.	.	.
CIR1	.	.	0.4149203	0.0002372	.	.	.	.	.	.	.	.	.
CISD3	0.5628457	1.79E-07	.	.	.	.
CIT	0.5932889	2.54E-08	.	.
CITED1	0.6602847	1.55E-10	.	.
CITED4	.	.	0.470932	2.29E-05
CKAP4	.	.	0.3475045	0.0024165	.	.	.	0.6769187	3.57E-11	.	.	.	yes

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CKAP5	.	.	0.4055782	0.0003372	yes
CLASP1	yes
CLASP2	0.627014	2.27E-09	.	.
CLCN5	0.4446834	7.21E-05
CLDND1	.	.	0.4279668	0.0001426	.	.	.	.	.	.	.	.	.
CLEC2D	0.5070944	4.01E-06	.	.	.	.	.	.	.
CLIC1	.	.	0.4713055	2.25E-05	.	.	.	0.55931	2.22E-07	.	.	.	.
CLIC4	.	.	0.4920626	8.48E-06	.	.	.	0.6320192	1.55E-09	.	.	.	yes
CLIP3	0.4990881	6.01E-06	.	.	.	.	.	.	.
CLK3	.	.	0.4083362	0.0003043	.	.	.	.	.	.	.	.	.
CLN5	.	.	0.5230409	1.74E-06	.	.	.	0.4705412	2.33E-05	.	.	.	.
CLN6	0.5737702	9.10E-08	.	.	.	.
CLN8	.	.	0.5482195	4.28E-07	.	.	.	.	.	.	.	.	.
CLOCK	0.6915327	9.02E-12	.	.
CLPP	0.4671709	2.72E-05	.	.	.	.
CLPTM1	0.7511936	1.27E-14	.	.	.	.
CLPTM1L	.	.	0.4444788	7.27E-05	.	.	.	0.6521363	3.09E-10	.	.	.	.
CLTA	0.6604841	1.53E-10	.	.	.	.
CLTC	yes
CLUH	0.8185925	5.22E-19	.	.	.	.
CLVS2	0.4834159	1.28E-05	.	.	.	.	.	.
CMAS	.	.	0.3340244	0.0036317	.	.	.	0.545905	4.89E-07	.	.	.	.
CMTM5	0.5605009	2.07E-07	.	.	.	.	.	.
CMTM7	0.7463965	2.30E-14	.	.	.	.
CMTR1	0.4504221	5.65E-05	.	.	.	.
CNPB	yes
CNEP1R1	.	.	0.4087748	0.0002993	.	.	.	0.4214459	0.0001844	.	.	.	.
CNGA3	0.4680097	2.61E-05	.	.
CNIH1	.	.	0.3249695	0.0047279	.	.	.	0.7065333	2.02E-12	.	.	.	.
CNKSR2	0.5254997	1.53E-06	.	.	.	.
CNN1	0.7680528	1.40E-15	.	.	.	.
CNN2	.	.	0.3698941	0.0011801	.	.	.	0.7087505	1.61E-12	.	.	.	yes
CNN3	.	.	0.4298769	0.0001322	.	.	.	0.6084902	8.87E-09	.	.	.	yes
CNNM1	0.5673495	1.36E-07	.	.
CNOT1	0.5056764	4.31E-06	.	.	.	.	.	.	yes
CNOT10	.	.	0.3023654	0.0088354	.	.	.	0.5987887	1.75E-08	.	.	.	.
CNOT7	.	.	0.3929672	0.0005335	.	.	.	.	.	.	.	.	.
CNPY3	0.6935881	7.39E-12	.	.	.	.
CNST	0.5107417	3.33E-06	.	.	.	.
CNTNAP1	0.7002859	3.81E-12	.	.
CNTNAP3	0.7012598	3.45E-12	.	.
COA5	.	.	0.3516475	0.0021245	.	0.3086678	0.0074566	0.6310445	1.67E-09	.	.	.	.
COG6	0.5797495	6.21E-08	.	.	.	.
COG7	0.5331241	1.01E-06	.	.	.	.
COG8	0.5277532	1.35E-06	.	.	.	.
COL18A1	0.6885797	1.20E-11	.	.	.	yes
COL1A1	yes
COL1A2	yes
COL26A1	yes
COL2A1	0.9260268	3.46E-32	.	.	.	yes
COL3A1	yes
COL4A1	0.5086416	3.71E-06	.	.	.	yes
COL4A2	0.3752967	0.000985	.	.	.	yes
COL4A5	.	.	0.4917944	8.59E-06	.	.	.	.	.	.	.	.	.
COL4A6	.	.	0.4948974	7.39E-06	.	.	.	0.3319016	0.003866	.	.	.	.
COL5A1	0.4723413	2.15E-05	.	.	.	yes
COL9A3	.	.	0.5698349	1.16E-07	.	.	.	.	.	.	.	.	.
COLQ	0.7192236	5.28E-13	.	.	.	.
COMMD8	.	.	0.502355	5.10E-06	.	.	.	.	.	.	.	.	.
COMMD9	0.5912078	2.92E-08	.	.	.	.
COPA	.	.	0.4331389	0.0001159	.	.	.	.	.	.	.	.	yes
COPB1	.	.	0.390566	0.0005811	.	.	.	0.6569416	2.07E-10	.	.	.	.
COPB2	.	.	0.3608513	0.0015861	.	.	.	.	.	.	.	.	yes
COPG1	.	.	0.3171837	0.0058952	.	.	.	0.3606219	0.0015978	.	.	.	yes
COPG2	.	.	0.4408344	8.46E-05	.	.	.	.	.	.	.	.	.
COPS2	yes
COPS3	0.4542801	4.79E-05	.	.	.	.
COPS5	.	.	0.5539224	3.06E-07	.	.	.	.	.	.	.	.	.
COPS8	.	.	0.3831876	0.0007522	.	.	.	0.5777235	7.07E-08	.	.	.	.
COPZ1	0.5740221	8.95E-08	.	.	.	yes
COQ10B	.	.	0.4451157	7.08E-05	.	.	.	.	.	.	.	.	.
COQ3	0.4439873	7.42E-05	.	.	.	.
COQ6	0.5941698	2.40E-08	.	.	.	.
COQ7	.	.	0.3979745	0.0004457	.	0.3508422	0.0021787	.	.	.	.	.	.
CORO1C	0.8404458	7.71E-21	.	.	.	yes

Gene	Atrial Expression	P-value Atrial	AV-Canal Expression	P-value AV-Canal	Branchial Arches Expression	P-value Branchial Arches	Heart Tube Expression	P-value Heart Tube	Outflow Tract Expression	P-value Outflow Tract	Ventricle Expression	P-value Ventricle	DMP Expression
DVL3	0.5028565	4.97E-06	.	.	.	.
DYNC1H1	0.3358673	0.0034385	.	0.3324102	0.0038087	.	.	.	yes
DYNC1LI1	0.6847261	1.73E-11	.	.	.	.
DYNC1LI2	.	0.5166324	2.45E-06	.	.	.	.	0.4108916	0.0002764	.	.	.	.
DYNLL1	.	0.3698008	0.0011838	.	.	.	.	0.5997742	1.63E-08	.	.	.	.
DYNLL2	0.354383	0.0019495	.	.	.	yes
DYNLRB1	0.6129428	6.45E-09	.	.	.	.
DYRK2	0.6734366	4.89E-11	.	.	.	.
DYRK3	0.4587174	3.95E-05	.	.	.	.	.	.	.	.	.	.	.
E2F1	.	.	0.4110743	0.0002745	0.5659125	1.49E-07	.	.	.	.	.	.	.
E2F3	.	.	0.5316296	1.09E-06	.	.	.	.	.	.	.	.	.
E2F7	0.6007955	1.52E-08	.	.	.	.
EBF2	0.6749335	4.27E-11	.	.
ECE1	0.6516691	3.21E-10	.	.	.	yes
ECHS1	0.4682264	2.59E-05	.	.	.	.
ECM1	.	.	0.3296441	0.00413	.	.	.	.	.	0.4747682	1.92E-05	.	.
EDIL3	.	.	0.5379942	7.68E-07	.	.	.	.	.	.	.	.	.
EDN1	.	.	0.4086081	0.0003012	.	.	.	0.6071359	9.76E-09	.	.	.	.
EEF1A2	.	.	0.4972056	6.59E-06	.	.	.	.	.	.	.	.	.
EEF1B2	0.3471847	0.0024405	0.4040197	0.0003572	.	.	yes
EEF1D	0.5511764	3.60E-07	.	yes
EEF1G	.	.	0.376681	0.00094	.	.	.	0.3785493	0.0008821	.	.	.	.
EEF2	0.6597675	1.62E-10	.	.	.	yes
EEPD1	.	.	0.4008497	0.0004014	.	.	.	.	.	.	.	.	.
EFCAB2	.	.	0.4546915	4.71E-05	.	.	.	.	.	.	.	.	.
EFCAB4B	0.5647291	1.60E-07	.	.	.	.
EFCC1	0.5516775	3.50E-07	.	.	.	.
EFHD2	.	.	0.5726915	9.74E-08	.	.	.	0.5478268	4.38E-07	.	.	.	.
EFNA2	0.608429	8.91E-09	.	0.3082414	0.0075436	.	.	.	.
EFNB2	0.8502594	9.39E-22	.	.	.	.
EFTUD2	yes
EHBP1L1	.	.	0.4672782	2.70E-05	.	.	.	.	.	.	.	.	.
EHMT1	yes
EHMT2	0.5623528	1.85E-07	.	.	.	yes
EID1	.	.	0.6023969	1.36E-08	.	.	.	.	.	.	.	.	yes
EID2	0.6846495	1.74E-11	.	.	.	.
EIF1	0.4998694	5.78E-06	.	.	.	.	.	.	.
EIF1AD	0.4982743	6.25E-06	.	0.3122362	0.0067629	.	.	.	.
EIF1AX	0.4384511	9.33E-05	.	.	.	.
EIF2S1	.	.	0.3239278	0.0048712	.	.	.	0.6490566	3.99E-10	.	.	.	.
EIF2S3	.	.	0.3990752	0.0004282	.	.	.	.	.	.	.	.	.
EIF3A	.	.	0.4530084	5.06E-05	.	.	.	0.5016146	5.29E-06	.	.	.	yes
EIF3B	0.378562	0.0008817	.	0.5825466	5.18E-08	.	.	.	yes
EIF3C	0.3921521	0.0005493	.	.	.	yes
EIF3D	0.3903345	0.0005858	.	.	.	yes
EIF3F	yes
EIF3G	.	.	0.3729738	0.001065	.	.	.	0.5578843	2.42E-07	.	.	.	.
EIF3I	.	.	0.3237192	0.0049003	.	.	.	0.3583545	0.0017184	.	.	.	yes
EIF3K	0.4047831	0.0003473	.	.	.	yes
EIF3L	0.5273494	1.38E-06	.	.	.	yes
EIF4A2	yes
EIF4B	yes
EIF4E	0.5771198	7.35E-08	.	.	.	.
EIF4EBP1	.	.	0.4951647	7.29E-06	.	.	.	0.4479476	6.28E-05	.	.	.	.
EIF4G1	yes
EIF4G2	.	.	0.3079893	0.0075954	.	.	.	0.3890204	0.0006137	.	.	.	yes
EIF4G3	yes
EIF4H	.	.	0.4490906	5.98E-05	.	.	.	0.4613094	3.53E-05	.	.	.	yes
EIF5	0.7226582	3.63E-13	.	.	.	yes
EIF5A	.	.	0.3880135	0.0006358	.	.	.	0.4649461	3.00E-05	.	.	.	yes
EIF5A2	.	.	0.6011846	1.48E-08	.	.	.	.	.	.	.	.	.
EIF5B	.	.	0.3480416	0.0023768	.	.	.	.	.	.	.	.	yes
ELAVL1	0.7444109	2.93E-14	.	.	.	yes
ELAVL2	0.4636688	3.18E-05	.	.
ELF5	0.5626547	1.81E-07	.	.
ELL2	.	.	0.395227	0.0004921	.	.	.	.	.	.	.	.	.
ELMOD3	0.5160782	2.52E-06	.	.	.	.
ELMSAN1	0.8841492	1.69E-25	.	.	.	.
ELP2	0.3390238	0.0031289	.	.	.	.	.	.	yes
ELP6	.	.	0.3431247	0.0027639	.	.	.	0.5244811	1.61E-06	.	.	.	.
ELTD1	0.4752896	1.88E-05	.	.
EMC1	.	.	0.4082768	0.000305	.	.	.	.	.	.	.	.	.
EMILIN1	0.3438843	0.0027006	.	.	.	yes
EMILIN2	.	.	0.4138557	0.0002471
EML4	0.7956985	2.45E-17	.	.	.	yes

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FAM210A	.	.	0.3995292	0.0004212	0.3947632	0.0005003	.	.	.
FAM210B	0.4563896	4.37E-05	.
FAM213A	0.6358712	1.15E-09	.	.	.
FAM214B	.	.	0.3898798	0.0005953	.	.	.	.	.	.	.	.	.
FAM221B	.	.	0.4626359	3.32E-05	.	.	.	.	.	.	.	.	.
FAM26D	0.5036595	4.78E-06	.	.	.
FAM26E	.	.	0.4613849	3.51E-05	.	.	.	.	.	.	.	.	.
FAM43B	0.6744326	4.47E-11	.	.	.
FAM46D	0.5261248	1.48E-06	.
FAM58A	0.7526561	1.05E-14	.	.	.
FAM60A	0.6764763	3.71E-11	.	.	.
FAM69C	0.6665955	8.99E-11	.	.	.
FAM71E2	0.6689495	7.30E-11	.	.	.
FAM72A	.	.	0.4166866	0.0002217	.	.	.	.	.	.	.	.	.
FAM73B	.	.	0.3510125	0.0021671	.	.	.	.	0.4979351	6.36E-06	.	.	.
FAM76A	.	.	0.418288	0.0002084	.	.	.	.	.	.	.	.	.
FAM78A	.	.	0.6577965	1.92E-10	.	.	.	.	0.5361301	8.52E-07	.	.	.
FAM81A	.	.	0.3844043	0.0007212	.	.	.	.	.	.	.	.	.
FAM8A1	.	.	0.3343537	0.0035965	.	.	.	.	0.5777952	7.04E-08	.	.	.
FAM96B	.	.	0.4336395	0.0001136	.	.	.	.	0.5422606	6.03E-07	.	.	.
FAM98B	0.5267793	1.43E-06	.	.	.
FANCG	0.5107806	3.32E-06	.
FANCI	0.4877456	1.04E-05	.	.	.
FARP1	yes
FARSB	.	.	0.4016213	0.0003902	.	.	.	.	.	.	.	.	.
FASN	0.3553748	0.0018893	.	.	yes
FASTK	0.5121938	3.09E-06	.	.	.
FASTKD2	.	.	0.4152098	0.0002346	.	.	.	.	.	.	.	.	.
FASTKD3	0.515448	2.61E-06	.	.	.
FAT1	yes
FBLIM1	0.8814432	3.70E-25	.	.	.
FBLN1	.	.	0.4937668	7.81E-06	.	.	.	.	.	.	.	.	yes
FBLN2	.	.	0.3753916	0.0009818	.	.	.	.	.	.	.	.	.
FBN2	.	.	0.4558055	4.48E-05	.	.	.	.	.	.	.	.	yes
FBXL14	0.6784849	3.09E-11	.	.	.
FBXL17	0.614598	5.72E-09	.	.	.
FBXL19	0.3227135	0.005043	.	.	.	.	.	.	yes
FBXL3	0.4664799	2.80E-05	.	.	.
FBXL5	0.4749123	1.91E-05	.	.	.
FBXL6	0.5987231	1.76E-08	.	.	.
FBXL8	.	.	0.3997031	0.0004185	.	.	.	.	.	.	.	.	.
FBXO15	0.4931096	8.06E-06	.	.	.
FBXO18	.	.	0.3871217	0.000656	.	.	.	.	.	.	.	.	.
FBXO21	0.4707459	2.31E-05	.	.	.
FBXO27	0.5478427	4.37E-07	.
FBXO39	0.7885339	7.41E-17	.
FBXW7	0.4765669	1.77E-05	.	.	.
FBXW8	.	.	0.3872033	0.0006541	.	.	.	.	0.539442	7.08E-07	.	.	yes
FCGR1A	0.4609944	3.57E-05	.
FCRLA	0.6714725	5.83E-11	.
FDFT1	0.5428815	5.82E-07	.	.	.
FECH	.	.	0.4883196	1.02E-05	.	.	.	.	.	.	.	.	.
FEM1B	0.3398248	0.0030544	.	.	yes
FERMT2	0.4597358	3.78E-05	.	.	.	.	.	.	.	.	.	.	.
FFAR4	0.4620292	3.41E-05	.	.	.	.	.	.	.	.	.	.	.
FGD5	0.511514	3.20E-06	.	.	.
FGF11	0.3742182	0.0010214	0.4996559	5.84E-06	.	.	.
FGF12	0.5734831	9.26E-08	.
FGFR1	yes
FGFRL1	0.6293678	1.90E-09	.	.	.
FGL2	.	.	0.47374	2.01E-05	.	.	.	.	.	.	.	.	.
FHL2	.	.	0.6904115	1.01E-11	.	.	.	.	.	.	.	.	.
FIGN	0.5978837	1.86E-08	.	.	.	.	.	.	.
FIGNL2	0.5369408	8.15E-07	.	.	.	.	.	.	.
FITM1	.	.	0.4994303	5.90E-06	.	.	.	.	0.5023281	5.11E-06	.	.	.
FITM2	0.5898141	3.21E-08	.	.	.
FKBP14	0.4783221	1.63E-05	.	.	.
FKBP15	0.6948544	6.53E-12	.
FKBP1A	.	.	0.4957505	7.08E-06	.	.	.	.	.	.	.	.	yes
FKBP3	yes
FKBP4	0.5517192	3.49E-07	.	.	yes
FKBP8	yes
FKBP9	yes
FL11	0.6257285	2.51E-09
FLJ22184	0.4606583	3.63E-05	.

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GD11	0.5031024	4.91E-06
GD12	.	.	0.3525248	0.0020669	yes
GDPGP1	0.6456177	5.28E-10
GEM	.	.	0.3941071	0.0005123	.	.	.	0.6217498	3.38E-09	.	.	.	.
GEMIN6	0.5091966	3.61E-06	.	.	.	.
GFER	0.482891	1.32E-05	.	.	.	.	.	.	.
GF11	0.5365409	8.33E-07	.	.
GFM1	.	.	0.5446109	5.27E-07	.	.	.	0.5568278	2.58E-07	.	.	.	.
GFOD1	.	.	0.3864933	0.0006706	.	.	.	0.3964884	0.0004702	.	.	.	.
GFPT2	.	.	0.5821381	5.32E-08	.	.	.	.	.	.	.	.	.
GFRA1	0.7027339	2.98E-12	.	.
GGA2	yes
GGCX	0.8273446	1.04E-19	.	.	.	.
GHDC	0.4693997	2.46E-05	.	.	.	.
GHITM	.	.	0.5407884	6.56E-07	.	.	.	0.3457382	0.0025516	.	.	.	yes
GID4	.	.	0.2987719	0.0097174	.	.	.	0.5570612	2.54E-07	.	.	.	.
GID8	.	.	0.409611	0.0002901	.	.	.	.	.	.	.	.	.
GIMAP5	.	.	0.3859861	0.0006826	.	.	.	.	.	.	.	.	.
GINS1	0.4390752	9.10E-05	.	.	.	.	.
GIT2	0.4656449	2.91E-05	.	.	.	.
GJA1	0.5275587	1.37E-06	.	.	.	.	.	.	yes
GJA4	0.7995115	1.34E-17	.	.	.	.
GJA5	0.4903597	9.21E-06	0.4909874	8.94E-06	.	.
GJC3	.	.	0.4079904	0.0003082	.	.	.	.	.	.	.	.	.
GLDC	0.5430765	5.76E-07	.	.	.	.
GLE1	0.555311	2.82E-07	.	.	.	.
GLIPR1L2	.	.	0.5119748	3.12E-06	.	.	.	.	.	.	.	.	.
GLIPR2	.	.	0.418495	0.0002068	.	.	.	0.7270758	2.22E-13	.	.	.	.
GLMN	0.4879788	1.03E-05	.	.	.	.
GLO1	.	.	0.3437339	0.002713	.	.	.	0.5215727	1.89E-06	.	.	.	.
GLRA4	0.4663949	2.81E-05	.	.	.	.	.
GLRX5	0.7576747	5.55E-15	.	.	.	.
GLT8D1	.	.	0.4535626	4.94E-05	.	.	.	.	.	.	.	.	.
GLTSCR2	0.5064795	4.14E-06	.	.	.	.
GLYR1	yes
GM2A	.	.	0.3922692	0.000547	.	.	.	0.3730876	0.0010609	.	.	.	.
GMFB	yes
GMPPB	.	.	0.4480964	6.24E-05	.	.	.	0.3481839	0.0023663	.	.	.	.
GMPR	.	.	0.4546706	4.71E-05	.	.	.	0.537517	7.89E-07	.	.	.	.
GNA11	0.6222821	3.25E-09	.	.	.	.
GNA12	0.6013407	1.47E-08	.	.
GNAI2	yes
GNAI3	.	.	0.5005004	5.60E-06	.	.	.	.	.	.	.	.	yes
GNAO1	.	.	0.3774046	0.0009172	.	.	.	.	.	.	.	.	.
GNAT2	0.5688654	1.24E-07	.	.	.	.	.	.	.	.	.	.	.
GNB1	0.5761537	7.82E-08	.	.	.	yes
GNB2	.	.	0.3767466	0.0009379	.	.	.	.	.	.	.	.	yes
GNB2L1	0.4255143	0.0001572	.	.	.	yes
GNB3	.	.	0.5453878	5.04E-07	.	.	.	.	.	.	.	.	.
GNB4	.	.	0.5857147	4.21E-08	.	.	.	0.5003882	5.63E-06	.	.	.	.
NG7	0.4848875	1.20E-05	.	.	.	.
GNPAT	.	.	0.3551003	0.0019058	.	.	0.3076024	0.0076755	0.5090061	3.64E-06	.	.	yes
GNPDA2	.	.	0.4353343	0.000106	.	.	.	.	.	.	.	.	.
GNPTAB	0.6861625	1.51E-11	.	.	.	.
GNS	0.4508636	5.55E-05	.	.	.	.
GOLGA2	0.6099368	8.00E-09	.	.	.	.
GOLGA4	.	.	0.3882567	0.0006304	.	.	.	.	.	.	.	.	.
GOLGA7	0.4743719	1.96E-05	.	.	.	.
GOLIM4	.	.	0.5332095	1.00E-06	.	.	.	.	.	.	.	.	.
GOLM1	yes
GON4L	0.5539132	3.06E-07	.	.	.	.
GOPC	0.5323924	1.05E-06	.	.	.	.	.
GORASP2	0.6749131	4.28E-11	.	.	.	.
GOT1L1	0.5554206	2.80E-07	.	.	.	.	.	.	.	.	.	.	.
GOT2	0.5305246	1.16E-06	.	.	.	.
GPATCH2L	.	.	0.4541733	4.81E-05	.	.	.	.	.	.	.	.	.
GPC1	0.3534436	0.0020081	.	.	.	.	.	.	yes
GPC3	0.4911221	8.88E-06	.	.	.	yes
GPD2	.	.	0.4030293	0.0003705	.	.	.	.	.	.	.	.	.
GPI	yes
GNP3	0.5327669	1.03E-06	.	.	.	.
GPR101	0.4727998	2.10E-05	.	.	.	.
GPR107	.	.	0.3370341	0.003321	.	.	.	0.5258882	1.50E-06
GPR113	0.848151	1.49E-21	.	.
GPR114	0.5086062	3.72E-06	.	.

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GPR124	0.6300236	1.81E-09	.	.	.	yes
GPR125	.	.	0.520262	2.02E-06	.	.	.	0.4463418	6.72E-05	.	.	.	yes
GPR126	0.7295459	1.68E-13
GPR171	0.4771104	1.72E-05	.	.
GPR180	0.5609434	2.01E-07	.	.	.	.
GPR182	.	.	0.681591	2.32E-11	.	.	.	.	.	.	.	.	.
GPR22	0.4837304	1.26E-05	.	.	.	.	.	.	.
GPR4	0.6170911	4.77E-09	.	.	.	.
GPR45	0.5428122	5.84E-07	.	.
GPR56	0.6170947	4.77E-09	.	.
GPR97	.	.	0.3775639	0.0009122	.	.	.	.	.	.	.	.	.
GPSM1	0.6384285	9.39E-10	.	.	.	.
GPX1	yes
GPX3	0.3025292	0.0087969	.	.	.	yes
GPX4	0.6297233	1.85E-09	.	.	.	.
GPX7	.	.	0.3989072	0.0004308	.	.	.	0.4224836	0.0001771	.	.	.	.
GRAP2	.	.	0.4013427	0.0003942	.	.	.	.	.	.	.	.	.
GRASP	0.5382238	7.58E-07	.	.	.	.
GRB10	0.4608462	3.60E-05	.	.	.	yes
GRB14	0.4430555	7.71E-05	.	.	.	.	.	.
GREB1	0.5428846	5.82E-07	0.2986335	0.0097528	.	.
GRHL1	0.6748756	4.29E-11	.	.
GRHRP	.	.	0.3735667	0.001044	.	.	.	0.4748366	1.92E-05	.	.	.	.
GRID1	0.5433673	5.66E-07	.	.	.	.
GRIN2C	0.668363	7.69E-11	.	.
GRPEL1	0.498405	6.21E-06	.	.	.	.
GSK3B	.	.	0.3727962	0.0010713	.	.	.	.	.	.	.	.	yes
GSPT1	0.6325122	1.49E-09	.	.	0.3565626	0.0018194	.	.	yes
GSR	0.6083176	8.98E-09	.	.	.	.
GSTCD	0.6704771	6.38E-11	.	.
GSTO2	0.4595246	3.81E-05	.	.	.	.
GTF2A2	.	.	0.7113468	1.22E-12	.	.	.	.	.	.	.	.	.
GTF2E2	.	.	0.4896096	9.55E-06	.	.	.	.	.	.	.	.	.
GTF2H4	.	.	0.4643577	3.08E-05	.	.	.	.	.	.	.	.	.
GTF2I	0.3678097	0.0012643	.	.	.	.	.	.	yes
GTF2IRD1	0.5570546	2.54E-07	.	.	.	.	.	.
GTF3C1	yes
GTF3C2	yes
GTPBP10	0.542931	5.80E-07	.	.	.	.
GTPBP4	0.6434466	6.29E-10	.	.	.	.
GTPBP8	0.4579491	4.09E-05	.	.	.	.
GUCD1	0.4947342	7.44E-06	.	.	.	.
GXYLT1	.	.	0.4117664	0.0002674	.	.	.	.	.	.	.	.	.
GYG1	.	.	0.3854004	0.0006966	.	.	.	.	.	.	.	.	.
GYS1	.	.	0.503616	4.79E-06	.	.	.	0.4264378	0.0001516	.	.	.	.
H1FO	.	.	0.3770317	0.0009288	.	.	.	0.428345	0.0001405	.	.	.	yes
H1FX	0.4730985	2.07E-05	.	0.5219988	1.84E-06	.	.	.	.
H2AFX	yes
H2AFY	yes
H2AFY2	yes
H6PD	.	.	0.3937422	0.000519	.	.	.	.	.	.	.	.	.
HADHA	.	.	0.493705	7.83E-06	.	.	.	0.3390718	0.0031244	.	.	.	.
HADHB	0.5151554	2.65E-06	.	.	.	.
HAND1	0.4453913	7.00E-05	0.5926391	2.66E-08	.	.	.	.
HAND2	.	.	0.4507957	5.56E-05	.	.	.	0.6694526	6.99E-11	.	.	.	.
HAPLN1	.	.	0.7314722	1.35E-13	.	.	.	0.4001859	0.0004112	.	.	.	.
HARS	0.7816186	2.07E-16	.	.	.	.
HAS2	.	.	0.4327464	0.0001178	.	.	.	0.7443907	2.93E-14	.	.	.	.
HAUS2	0.5075168	3.93E-06	.	.	.	.
HAUS4	0.7729152	7.17E-16	.	.	.	.
HAUS8	.	.	0.4298325	0.0001324	.	.	.	0.3034161	0.0085911	.	.	.	.
HBEGF	0.6039365	1.22E-08	0.3173907	0.0058612	.	.	.	.
HBG1	.	.	0.5699662	1.16E-07	.	.	.	.	.	.	.	.	yes
HBG2	yes
HBS1L	0.4913169	8.79E-06	.	.	.	.
HBZ	.	.	0.4411498	8.35E-05	.	.	.	.	.	.	.	.	yes
HCFC1	.	.	0.4056916	0.0003358	.	.	.	.	.	.	.	.	yes
HCFC1R1	.	.	0.3733288	0.0010524	.	.	.	0.8105859	2.13E-18	.	.	.	.
HCN4	0.4493895	5.91E-05	.	.
HDAC10	.	.	0.5434424	5.64E-07	.	.	.	.	.	.	.	.	.
HDAC2	yes
HDAC3	0.5831153	4.99E-08	.	.	.	.	.	.	.
HDAC5	0.6881054	1.25E-11	.	.	.	.
HDAC6	.	.	0.3910157	0.0005719	.	.	.	.	.	.	.	.	.
HDAC8	0.6851892	1.65E-11	.	.

Gene	Atrial Expression	P-value Atrial	AV-Canal Expression	P-value AV-Canal	Branchial Arches Expression	P-value Branchial Arches	Heart Tube Expression	P-value Heart Tube	Outflow Tract Expression	P-value Outflow Tract	Ventricle Expression	P-value Ventricle	DMP Expression
HDGF	yes
HDLBP	yes
HEATR1	0.4716584	2.22E-05	.	.	.	.	.	.	.
HEATR2	.	.	0.3233892	0.0049467	.	.	.	0.5970636	1.97E-08	.	.	.	.
HEATR5A	.	.	0.5318414	1.08E-06	.	.	.	.	.	.	.	.	.
HEATR5B	.	.	0.4505226	5.63E-05	.	.	.	.	.	.	.	.	.
HECTD1	yes
HEG1	.	.	0.4497052	5.83E-05	.	.	.	.	.	.	.	.	.
HELT	0.4870532	1.08E-05	.	.	.	.
HERC6	.	.	0.4010821	0.000398	.	.	.	.	.	.	.	.	.
HERPUD2	0.5242738	1.63E-06	.	.	.	.
HES7	0.4410544	8.38E-05	.	.
HESX1	.	.	0.3867134	0.0006654	.	.	.	.	.	.	.	.	.
HEY2	.	.	0.4556895	4.51E-05	.	.	.	0.694317	6.88E-12	.	.	.	.
HGS	0.7464764	2.27E-14	.	.	.	.
HIBADH	.	.	0.4118756	0.0002663	.	.	.	.	.	.	.	.	.
HIF1A	.	.	0.3451725	0.0025963	.	.	.	0.5003944	5.63E-06	.	.	.	yes
HIF1AN	0.7179886	6.03E-13	.	.	.	.
HIGD2A	.	.	0.525262	1.55E-06	.	.	.	0.3955964	0.0004856	.	.	.	.
HINT3	0.5426443	5.90E-07	.	.	.	.	.	.	.	.	.	.	.
HIP1	0.3800356	0.0008384	0.610784	7.53E-09	.	yes
HIPK3	0.6996566	4.06E-12	.	.	.	.
HIST3H2A	.	.	0.3811159	0.0008079	.	.	.	.	.	.	.	.	.
HK1	0.6813577	2.37E-11	.	.	.	.
HK2	.	.	0.3157462	0.0061366	0.4303374	0.0001298	.	.	.	.	.	.	yes
HLA-DMA	.	.	0.3909807	0.0005726	.	.	.	.	.	.	.	.	.
HLA-DOB	0.4764741	1.78E-05	.	.
HLCS	0.4978879	6.37E-06	.	.
HLTF	0.6550622	2.42E-10	.	.	.	.
HM13	.	.	0.4200525	0.0001947	.	.	.	.	.	.	.	.	.
HMCE5	0.4697349	2.42E-05	.	.	.	.
HMG20B	.	.	0.5822541	5.28E-08	.	.	.	.	.	.	.	.	.
HMGA2	yes
HMGCR	yes
HMGCS1	yes
HMGNT2	0.4897123	9.50E-06	.	.	.	.	.
HMX3
HN1L	.	.	0.3115481	0.0068921	.	.	.	0.5125291	3.04E-06	.	.	.	.
HNRNPA0	0.3945681	0.0005039	.	0.5728836	9.62E-08	.	.	.	yes
HNRNPA2B1	.	.	0.4751073	1.89E-05	.	.	.	.	.	.	.	.	yes
HNRNPAB	yes
HNRNPC	0.4629764	3.27E-05	.	.	.	yes
HNRNPD	0.3486032	0.0023358	.	.	.	.	.	.	yes
HNRNPF	0.6018911	1.41E-08	.	.	.	.
HNRNPH1	0.5744073	8.74E-08	.	.	.	yes
HNRNPK	0.3407688	0.0029686	.	.	.	.	.	.	yes
HNRNPL	0.4396155	8.90E-05	.	.	.	.	.	.	yes
HNRNPM	.	.	0.3326497	0.0037819	.	.	.	.	.	.	.	.	yes
HNRNPR	0.6319833	1.55E-09	.	.
HNRNPU	.	.	0.3004309	0.0093011	0.3509928	0.0021685	.	0.55748	2.48E-07	.	.	.	yes
HNRNPUL1	.	.	0.3452718	0.0025884	.	.	.	.	.	.	.	.	yes
HNRNPUL2	yes
HOMER2	.	.	0.3389572	0.0031352	.	.	.	0.487763	1.04E-05	.	.	.	.
HOOK2	0.4526132	5.15E-05	.	.	.	.
HOXA9	0.4732179	2.06E-05	.	.
HOXB1	.	.	0.3964101	0.0004716	.	.	.	.	.	.	.	.	.
HOXC4	0.6930019	7.82E-12	.	.
HP1BP3	yes
HPRT1	.	.	0.3520563	0.0020975	.	.	.	0.5088173	3.68E-06	.	.	.	.
HRC	.	.	0.3568101	0.0018052	.	.	.	0.6300615	1.80E-09	.	.	.	.
HS1BP3	.	.	0.5767918	7.51E-08	.	.	.	.	.	.	.	.	.
HS3ST1	.	.	0.3770902	0.000927	.	.	.	.	.	.	.	.	.
HSBP1L1	.	.	0.4019193	0.000386	.	.	.	.	.	.	.	.	.
HSD17B12	.	.	0.4617445	3.46E-05	.	.	.	.	.	.	.	.	.
HSD17B4	.	.	0.4921423	8.45E-06	.	.	.	0.3743934	0.0010154	.	.	.	.
HSDL2	.	.	0.44407	7.39E-05	.	.	.	.	.	.	.	.	.
HSF1	0.5330179	1.01E-06	.	.	.	.	.	.	.
HSP90AA1	yes
HSP90AB1	yes
HSP90B1	yes
HSPA14	0.6439533	6.04E-10	.	.	.	.
HSPA4	0.7036142	2.72E-12	.	.	.	yes
HSPA5	yes
HSPA8	0.3264	0.0045373	.	.	.	.	.	.	yes
HSPA9	.	.	0.3648854	0.0013915	.	.	.	0.5725754	9.81E-08	.	.	.	yes

Gene	Atrial Expression	P-value Atrial	AV-Canal Expression	P-value AV-Canal	Branchial Arches Expression	P-value Branchial Arches	Heart Tube Expression	P-value Heart Tube	Outflow Tract Expression	P-value Outflow Tract	Ventricle Expression	P-value Ventricle	DMP Expression
MDGA1	0.7108719	1.29E-12	.	.
MDH1	0.3582315	0.0017252	0.385445	0.0006956	.	.	.	.	.	.	.	.	yes
MDH2	.	.	0.5084106	3.75E-06	.	.	.	0.5493408	4.01E-07	.	.	.	yes
MDK	yes
MDM2	.	.	0.5118185	3.15E-06	.	.	.	.	.	.	.	.	.
MDN1	yes
MDP1	0.5896705	3.24E-08	.	.	.	.
ME2	.	.	0.4285812	0.0001392	.	.	.	.	.	.	.	.	.
MED12	0.68617	1.51E-11	.	.	.	.
MED24	0.603914	1.22E-08	.	.	.	.
MED28	0.6272271	2.24E-09	.	.	.	.
MED7	0.4575524	4.16E-05	.	.	.	.	.	.	.	.	.	.	.
MED8	0.5664893	1.43E-07	.	.	.	.
MEDAG	0.6078618	9.27E-09	.	.	.	.
MEF2A	.	.	0.4725208	2.13E-05	.	.	.	.	.	.	.	.	.
MEF2BNB	.	.	0.5864207	4.02E-08	.	.	.	0.4489508	6.02E-05	.	.	.	.
MEIS1	0.4079496	0.0003087	.	.	.	yes
MEIS2	yes
MEOX1	.	.	0.6409695	7.68E-10	.	.	.	.	.	.	.	.	.
MESP1	.	.	0.4193713	0.0001999	.	.	.	.	.	.	.	.	.
MEST	0.3094538	0.0072987	0.4309974	0.0001264	.	yes
METRN	yes
METTL10	0.7019434	3.22E-12	.	.
METTL13	0.6437387	6.15E-10	.	.
METTL20	0.6358124	1.15E-09	.	.	.	.
METTL21A	0.7462872	2.33E-14	.	.	.	.
METTL22	.	.	0.4904767	9.16E-06	.	.	.	0.6656643	9.75E-11	.	.	.	.
METTL3	.	.	0.3980797	0.000444	.	.	.	.	.	.	.	.	.
METTL4	0.57171	1.04E-07	.	.	.	.
MEX3A	.	.	0.4060597	0.0003312	.	.	.	0.3039496	0.0084693	.	.	.	yes
MFHAS1	0.5037361	4.76E-06	.	.	.	.
MFN1	0.7212266	4.24E-13	.	.	.	.
MFSD1	.	.	0.4051035	0.0003432	.	.	.	0.382437	0.000772	.	.	.	.
MFSD10	.	.	0.4331229	0.000116	.	.	.	.	.	.	.	.	.
MFSD8	0.6279149	2.12E-09	.	.	.	.
MFSD9	0.6956108	6.06E-12	.	.
MGAT4B	.	.	0.3861599	0.0006784	.	.	.	.	.	.	.	.	.
MGEA5	yes
MGRN1	0.6502024	3.63E-10	.	.
MICAL2	.	.	0.603775	1.24E-08	.	.	.	0.4924469	8.32E-06	.	.	.	.
MICALL2	0.6102871	7.80E-09	.	.	.	.	.	.	.
MICU1	.	.	0.4309863	0.0001264	.	.	.	.	.	.	.	.	.
MIDN	.	.	0.3271572	0.0044391	.	.	.	.	.	.	.	.	yes
MIEF1	.	.	0.4624143	3.36E-05	.	.	.	.	.	.	.	.	.
MIEF2	0.4539658	4.86E-05	.	.	.	.
MIEN1	0.707157	1.89E-12	.	.	.	.
MIER1	0.4437949	7.48E-05	.	.
MIF	.	.	0.4001954	0.0004111	.	.	.	0.5230493	1.74E-06	.	.	.	.
MINPP1	0.6347188	1.26E-09	.	.	.	.
MIS18A	.	.	0.4264622	0.0001514	0.4004667	0.000407	.	0.442289	7.96E-05	.	.	.	.
MKI67	yes
MKKS	0.7560382	6.85E-15	.	.	.	.
MKL2	.	.	0.4610107	3.57E-05	.	.	.	.	.	.	.	.	.
MKNK2	0.432327	0.0001198	.	.	.	.	.	.	yes
MKRN2	0.6611945	1.44E-10	.	.	.	.
MLEC	.	.	0.4087045	0.0003001	.	.	.	0.4993361	5.93E-06	.	.	.	yes
MLF2	0.4383833	9.36E-05	.	.	.	yes
MLLT1	0.4933258	7.98E-06	0.3917473	0.0005572	.	.
MLLT4	yes
MMD	.	.	0.4509025	5.54E-05	.	.	.	0.5154343	2.61E-06	.	.	.	.
MMP24	0.4956876	7.10E-06	.	.	.	.
MMP27	.	.	0.3957455	0.000483	.	.	.	.	.	.	.	.	.
MMRN2	0.5337902	9.71E-07	.	.	.	.
MNT	0.4489066	6.03E-05	.	.	.	.	.	.	.
MOB1B	.	.	0.4854095	1.17E-05	.	.	.	0.4199669	0.0001953	.	.	.	.
MOB2	0.5461097	4.84E-07	.	.	.	.
MOB3A	.	.	0.369769	0.001185	.	.	.	0.563383	1.73E-07	.	.	.	.
MOGAT2	0.6541637	2.61E-10	.	.	.	.	.	.	.
MORC2	0.6460698	5.09E-10	.	.	.	.
MORC3	0.6935179	7.44E-12	.	.
MORF4L2	0.3715516	0.0011168	.	.	.	.	.	.	yes
MOSPD1	0.514499	2.74E-06	.	.	.	.
MOSPD2	0.5442411	5.39E-07	.	.
MOV10L1	0.8772545	1.20E-24
MPHOSPH10	.	.	0.3484163	0.0023494	.	.	.	0.588085	3.60E-08

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MPHOSPH6	0.5203076	2.02E-06
MPHOSPH8	0.5315834	1.10E-06
MPO	0.5042505	4.64E-06
MPP2	0.7163535	7.20E-13	.	.	.	.
MPP6	0.6039513	1.22E-08	.	.	.	.
MPPE1	0.601094	1.49E-08	.	.	.	.
MPPED2	0.4428121	7.79E-05	0.4546692	4.71E-05	.	.	.
MPRIP	0.5754377	8.18E-08	0.3031564	0.0086509	yes	.
MPZL1	0.6384351	9.39E-10	.	.	.	.
MRE11A	0.5402141	6.77E-07	.	.	.	.	.
MRGBP	0.4797894	1.52E-05	.	.	.	.
MRGPRE	0.4713428	2.25E-05	.	.	.	.
MRM1	0.8146405	1.05E-18	.	.	.	.
MROH8	0.4798839	1.52E-05	.	.
MRPL12	0.6205073	3.71E-09	.	.	.	.
MRPL16	.	0.3913405	0.0005653	.	.	.	.	.	.	.	.	.	.
MRPL17	0.5653303	1.54E-07	.	.	.	.
MRPL3	.	0.4125832	0.0002593	.	.	.	.	0.6035216	1.26E-08	.	.	.	.
MRPL30	.	0.3216873	0.0051924	.	.	.	.	0.5730246	9.53E-08	.	.	.	.
MRPL34	0.7387362	5.78E-14	.	.	.	.
MRPL36	.	0.3592706	0.0016687	.	.	.	.	0.6632405	1.20E-10	.	.	.	.
MRPL38	.	.	.	0.346048	0.0025275	.	.	0.5632843	1.74E-07	.	.	.	.
MRPL44	.	0.3639521	0.0014345	.	.	.	.	0.5044465	4.59E-06	.	.	.	.
MRPL45	.	0.4158001	0.0002294	0.4020183	0.0003846	.	.	0.4622837	3.38E-05	.	.	.	.
MRPL52	.	0.3599122	0.0016347	.	.	.	.	0.5190609	2.16E-06	.	.	.	.
MRPL55	0.6500299	3.68E-10	.	.	.	.
MRPL9	0.5023564	5.10E-06	.	.	.	.
MRPS11	.	0.443646	7.53E-05	.	.	.	.	.	.	.	.	.	.
MRPS22	0.4684367	2.56E-05	.	.	.	.
MRPS23	.	0.4103567	0.0002821	.	.	.	.	.	.	.	.	.	.
MRPS26	.	0.4217516	0.0001822	.	.	.	.	.	.	.	.	.	.
MRPS27	.	0.453279	5.00E-05	.	.	.	.	.	.	.	.	.	.
MRPS30	.	0.4063621	0.0003275	.	.	.	.	0.5945537	2.33E-08	.	.	.	.
MRPS34	0.6651343	1.02E-10	.	.	.	.
MRPS35	0.6482816	4.25E-10	.	.	.	.
MRPS7	0.5279874	1.34E-06	.	.	.	.
MRPS9	.	0.4770328	1.73E-05	.	.	.	.	.	.	.	.	.	.
MS4A1	0.5291305	1.25E-06	.	.
MSANTD1	.	0.5392063	7.17E-07	.	.	.	.	.	.	.	.	.	.
MSH6	yes
MSI1	.	.	.	0.5931696	2.56E-08	.	.	.	.	.	.	.	.
MSN	.	0.3027955	0.0087347	.	.	.	.	0.404457	0.0003515	.	.	.	yes
MST1R	0.6199759	3.85E-09	.	.
MSTO1	0.4425881	7.87E-05	.	.	.	.
MSX2	.	0.7048955	2.39E-12	.	.	.	.	.	.	.	.	.	.
MT3	.	0.4995188	5.88E-06	.	.	.	.	.	.	.	.	.	.
MTA1	yes
MTA2	yes
MTAP	.	.	.	0.5542772	3.00E-07	.	.	.	.	.	.	.	.
MTCH1	yes
MTF1	0.6752941	4.13E-11	.	.	.	.
MTF2	0.4634025	3.21E-05	.	.	.	.
MTFR1L	0.5442563	5.38E-07	.	.	.	.
MTIF3	0.5404708	6.68E-07	.	.	.	.
MTMR14	0.5723369	9.96E-08	.	.	.	.
MTMR3	.	0.3762519	0.0009537	.	.	.	.	0.4733115	2.05E-05	.	.	.	.
MTMR4	.	.	.	0.3292216	0.0041811	.	.	.	.	.	.	.	yes
MTNR1A	0.6047146	1.16E-08	.	.
MTO1	.	0.3839721	0.0007321	.	.	.	.	0.5166659	2.45E-06	.	.	.	.
MTPN	.	0.3349489	0.0035336	.	.	.	.	0.3421897	0.0028436	.	.	.	yes
MTSS1	.	0.3356577	0.00346	.	.	.	.	0.4838775	1.26E-05	.	.	.	.
MTSS1L	.	.	.	0.3583355	0.0017195	.	.	0.5253441	1.54E-06	.	.	.	.
MTUS2	0.6508971	3.43E-10	.	.	.	.
MUS81	.	0.5013333	5.37E-06	.	.	.	.	.	.	.	.	.	.
MUSK	0.6681775	7.82E-11	.	.
MYADM	0.6552394	2.39E-10	.	.	.	.
MYBBP1A	yes
MYBPC3	0.6847301	1.73E-11	.	.	.	.
MYBPHL	0.4078198	0.0003102	0.4419432	8.08E-05	.	.	.	.	.	.	.	.	.
MYCN	0.7101961	1.38E-12	.	.	.	.	.	.	.
MYH1	0.6158154	5.23E-09	.	.
MYH10	.	0.3408809	0.0029586	0.3463477	0.0025043	.	.	.	yes
MYH4	0.6305532	1.74E-09
MYH6	0.6644186	1.09E-10	.	.	.	yes
MYH7	0.8096118	2.52E-18

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MYH9	0.6593256	1.69E-10	.	.	.	yes
MYL12A	.	.	0.3138579	0.0064669	.	.	.	0.5352286	8.96E-07
MYL2	0.632706	1.47E-09	.	.
MYL3	.	.	0.4338239	0.0001127	.	.	.	0.6953798	6.20E-12	.	.	.	.
MYL4	0.9941315	2.71E-71	.	.	.	yes
MYL6	0.6765136	3.70E-11	.	.	.	.
MYL7	.	.	0.5020509	5.18E-06	.	0.4248988	0.0001611	0.5133324	2.91E-06	.	.	.	yes
MYL9	.	.	0.693923	7.15E-12	.	.	.	.	.	.	.	.	.
MYLK3	.	.	0.3146094	0.0063336	.	.	0.3165035	0.0060084	0.6978034	4.88E-12	.	.	.
MYLK4	0.5425836	5.92E-07	.
MYO18A	0.4478489	6.31E-05	.	.
MYO18B	0.4925159	8.30E-06	.	.	.	.
MYO1G	0.4851548	1.18E-05	.	.	.	.
MYO3B	0.6708858	6.15E-11	.
MYO7A	0.6979348	4.82E-12	.
MYO9B	0.6515185	3.25E-10	.	.	.	.
MYOCD	0.3065396	0.0078995	0.5501781	3.82E-07	.	.	.	.
MYOM1	.	.	0.3212934	0.0052508	.	.	.	0.4696379	2.43E-05	.	.	.	.
MYPOP	0.4679674	2.62E-05	.	.	.	.	.	.	.
MYRF	.	.	0.3833106	0.0007491	.	.	.	.	.	.	.	.	yes
MZT1	0.4423845	7.93E-05	.	.	.	.
MZT2B	0.5039578	4.71E-06	.	.	.	.
NAA15	0.3227609	0.0050362	.	.	.	yes
NAA40	0.5811773	5.66E-08	.	.	.	.
NAA50	.	.	0.3625993	0.001499	.	.	.	.	.	.	.	.	yes
NAB1	.	.	0.4727576	2.11E-05	.	.	.	.	.	.	.	.	.
NACC2	.	.	0.4565293	4.35E-05	.	.	.	.	.	.	.	.	.
NADK2	0.7388599	5.69E-14	.	.	.	.
NAP1L1	0.3395351	0.0030811	0.4926845	8.23E-06	.	.	yes
NAP1L4	.	.	0.3338654	0.0036488	.	.	.	.	.	.	.	.	yes
NARFL	.	.	0.3510742	0.002163	.	.	.	0.6501033	3.66E-10	.	.	.	.
NARS	0.325936	0.0045983	.	.	.	.	.	.	yes
NARS2	.	.	0.5629886	1.78E-07	.	.	.	.	.	.	.	.	.
NASP	yes
NAT9	0.4784103	1.62E-05	.	.	.	.
NAV3	0.6289999	1.96E-09	.	.
NBN	0.5793325	6.38E-08	.	.	.	.
NBR1	0.6726965	5.23E-11	.	.
NCAM1	.	.	0.3832354	0.000751	.	.	.	.	.	.	.	.	.
NCAPD2	0.4274879	0.0001454	.	.	.	yes
NCBP1	yes
NCBP2	0.5001167	5.71E-06	.	.	.	.
NCK2	.	.	0.3896717	0.0005997	.	.	.	.	.	.	.	.	.
NCKAP1	yes
NCKAP5L	0.4749246	1.91E-05	.	.	.	.	.	0.318411	0.0056958	.	.	.	.
NCL	yes
NCLN	0.7123364	1.10E-12	.	.	.	.
NCOA1	0.6364394	1.10E-09	.	.
NCOA6	.	.	0.4766131	1.76E-05	.	.	.	.	.	.	.	.	.
NCOR1	.	.	0.342177	0.0028447	.	.	.	.	.	.	.	.	yes
NCOR2	yes
NDFIP1	.	.	0.521433	1.90E-06	.	.	.	0.395726	0.0004833	.	.	.	.
NDUFA10	.	.	0.5231784	1.73E-06	.	.	.	0.5141555	2.79E-06	.	.	.	.
NDUFA2	.	.	0.5334168	9.91E-07	.	.	.	0.430458	0.0001291	.	.	.	.
NDUFA3	.	.	0.4460389	6.81E-05	.	.	.	.	.	.	.	.	.
NDUFA5	.	.	0.4244562	0.0001639	.	.	.	0.3003021	0.0093328	.	.	.	.
NDUFA6	.	.	0.459859	3.76E-05	.	.	.	.	.	.	.	.	.
NDUFA9	.	.	0.4195804	0.0001983	.	.	.	.	.	.	.	.	.
NDUFAF2	0.4888604	9.90E-06	.	.	.	.
NDUFAF6	0.7407355	4.56E-14	.	.
NDUFB10	.	.	0.3592431	0.0016702	.	.	.	0.7262046	2.44E-13	.	.	.	.
NDUFB7	.	.	0.4057804	0.0003347	.	.	.	0.7009564	3.56E-12	.	.	.	.
NDUFB8	.	.	0.4267561	0.0001497	.	.	.	.	.	.	.	.	.
NDUFS2	.	.	0.4148605	0.0002378	.	.	.	0.3539907	0.0019738	.	.	.	yes
NDUFS3	.	.	0.3508648	0.0021771	.	.	.	0.5946194	2.32E-08	.	.	.	.
NDUFS5	.	.	0.4132355	0.0002529	.	.	.	0.3487356	0.0023262	.	.	.	.
NDUFS8	0.5104345	3.38E-06	.	.	.	.
NDUFV1	.	.	0.4447013	7.20E-05	.	.	.	0.5122184	3.09E-06	.	.	.	.
NDUFV2	.	.	0.3599948	0.0016304	.	.	.	0.6054139	1.10E-08	.	.	.	.
NDUFV3	.	.	0.3255178	0.004654	.	.	.	0.6708466	6.17E-11	.	.	.	.
NECAP1	0.4804606	1.48E-05	.	.	.	.
NEDD4	.	.	0.5088208	3.68E-06	yes
NEIL1	0.5987838	1.75E-08	.	.
NEIL3	.	.	0.578504	6.73E-08
NEK3	0.5341096	9.54E-07

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PELP1	0.4491035	5.98E-05
PER3	0.4852711	1.18E-05	.	.
PES1	.	.	0.3054373	0.0081378	.	.	.	0.5932659	2.55E-08
PEX2	0.4687395	2.53E-05	.	.	.	.
PEX6	0.49494	7.37E-06	.	.	.	.
PEX7	0.4499451	5.77E-05	.	.	.	.
PF4	.	.	0.4323826	0.0001195	.	.	.	.	.	.	.	.	.
PFAS	0.6115425	7.13E-09	.	.	0.3714684	0.0011199	.	.	.
PFKL	0.6880447	1.26E-11	.	.	.	yes
PFN1	yes
PGAM1	.	.	0.424251	0.0001652	.	.	.	0.5689306	1.23E-07	.	.	.	.
PGAM2	.	.	0.3448098	0.0026253	.	.	.	0.6897964	1.07E-11	.	.	.	.
PGAM5	.	.	0.4113906	0.0002713	.	.	.	.	.	.	.	.	.
PGD	0.3811085	0.0008081	.	.	.	yes
PGK1	.	.	0.3447137	0.002633	.	.	.	0.4542822	4.79E-05	.	.	.	.
PGM1	.	.	0.3004394	0.009299	.	.	0.3742422	0.0010206	0.5520899	3.41E-07	.	.	.
PGRMC1	yes
PHACTR1	0.5991839	1.70E-08	.	.
PHAX	0.5837001	4.81E-08	.	.	.	.
PHB	0.5087823	3.68E-06	.	.	.	.
PHB2	yes
PHC1	0.4658813	2.88E-05	.	.	.	.	.	.	.
PHC2	0.3201919	0.0054171	.	.	.	yes
PHF2	0.3495658	0.002267	0.4725575	2.13E-05	.	.
PHF20L1	0.685519	1.60E-11	.	.
PHF5A	0.5102666	3.41E-06	.	.	.	.
PHIP	yes
PHKA2	0.4716422	2.22E-05	.	.	.	.
PHLDA2	0.902758	4.32E-28	.	.	.	.
PHLDB1	0.6740787	4.62E-11	.	.
PHPT1	.	.	0.3994436	0.0004225	.	.	.	.	.	.	.	.	.
PHRF1	0.6942484	6.93E-12	.	yes
PHTF1	.	.	0.3874815	0.0006478	.	.	.	.	.	.	.	.	.
PI15	0.4393048	9.01E-05	.	.	.	.	.
PIANP	0.4813968	1.41E-05	.	.	.	.
PIAS1	0.4527881	5.11E-05	.	.	.	.
PIAS2	.	.	0.4422395	7.98E-05	.	.	.	.	.	.	.	.	.
PICALM	.	.	0.3932315	0.0005285	.	.	.	.	.	.	.	.	yes
PIEZO2	0.4976917	6.44E-06	.	.	.	.
PIK3C2A	0.6899173	1.05E-11	.	.	.	.
PILRA	0.5427495	5.86E-07	.	.	.	.	.
PIM1	0.5469116	4.62E-07	.	.	.	.
PIP4K2B	0.6245917	2.73E-09	.	.	.	.	.	.	.
PIP5K1A	.	.	0.4545027	4.75E-05	.	.	.	.	.	.	.	.	.
PITPNB	.	.	0.5162536	2.50E-06	.	.	.	.	.	.	.	.	.
PITPNM1	0.5995289	1.66E-08	.	.	.	.
PITPNM3	0.6067216	1.01E-08	.	.
PITRM1	0.3847493	0.0007126	.	.	.	yes
PITX2	.	.	0.4213643	0.000185	.	.	.	.	.	.	.	.	.
PIWIL4	0.3487806	0.002323	.	.	0.4619105	3.43E-05	.
PKD2L2	0.5387261	7.37E-07	.	.
PKDCC	yes
PKIG	0.4517839	5.33E-05	.	.	.	.
PKM	0.3982383	0.0004414	.	yes
PKP2	.	.	0.3114292	0.0069146	.	.	.	0.7556431	7.21E-15	.	.	.	.
PLA2G12A	.	.	0.5070483	4.02E-06	.	.	.	.	.	.	.	.	.
PLA2G5	0.5364736	8.36E-07	.	.	.	.
PLAGL1	.	.	0.4727688	2.11E-05	.	.	.	.	.	.	.	.	yes
PLAT	.	.	0.56396	1.67E-07	.	.	.	.	.	.	.	.	.
PLBD2	0.4560259	4.44E-05	.	.	.	.
PLCG1	yes
PLEK	.	.	0.4040164	0.0003573	.	.	.	.	.	.	.	.	.
PLEK2	.	.	0.4155813	0.0002313	.	.	.	.	.	.	.	.	.
PLEKHA1	0.7808606	2.31E-16	.	.	.	.
PLEKHA3	.	.	0.5549673	2.88E-07	.	.	.	.	.	.	.	.	.
PLEKHA7	0.5547631	2.91E-07	.	.
PLEKHD1	0.5275063	1.37E-06	.	.	.	.	.	.	.
PLEKHM3	.	.	0.408961	0.0002972	.	.	.	.	.	.	.	.	.
PLEKHO1	.	.	0.4317144	0.0001228	.	.	.	0.4132442	0.0002529	.	.	.	.
PLIN3	.	.	0.4096696	0.0002894	.	.	.	0.3705887	0.0011532	.	.	.	.
PLK4	.	.	0.5495951	3.95E-07	.	.	.	.	.	.	.	.	.
PLN	0.4926545	8.24E-06	0.4998844	5.77E-06	.	.
PLOD3	0.5432632	5.70E-07
PLSCR1	0.6937441	7.28E-12	.	.
PLVAP	.	.	0.3146822	0.0063208	.	.	.	0.7592586	4.52E-15

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PLXNA1	0.3979827	0.0004455	.	.	.	yes
PLXNA4	.	.	0.5242184	1.64E-06	.	.	.	0.2980589	0.0099012
PLXNB1	yes
PLXNB2	yes
PLXNC1	.	.	0.6874793	1.33E-11	.	.	.	.	.	.	.	.	.
PLXND1	.	.	0.3617964	0.0015384	.	.	.	0.7255271	2.64E-13	.	.	.	yes
PMM2	0.6679024	8.01E-11	.	.	.	.
PMS2	0.4702528	2.36E-05	.	.	.	.
PNCK	0.5734974	9.25E-08	.	.
PNISR	yes
PNKD	0.4653132	2.95E-05	.	.	.	.
PNNMT	.	.	0.5677906	1.32E-07	.	.	.	.	.	.	.	.	.
PNN	yes
PODXL	.	.	0.5904833	3.07E-08	.	.	.	0.3372888	0.0032959	.	.	.	yes
POFUT2	0.6277102	2.16E-09	.	.	.	.
POLB	0.5058786	4.27E-06	.	.	.	.
POLD1	0.6259577	2.46E-09	.	.	.	.	.	.	.
POLDIP3	yes
POLE3	.	.	0.3762599	0.0009534	.	.	.	0.3636607	0.0014482	.	.	.	.
POLL	0.4685417	2.55E-05	.	0.3480286	0.0023777	.	.	.	.
POLR1C	0.4600599	3.72E-05	.	.	.	.
POLR1D	.	.	0.456663	4.32E-05	.	.	.	.	.	.	.	.	.
POLR1E	0.5681101	1.30E-07	.	.	.	.
POLR2A	0.5782724	6.83E-08	.	.	.	yes
POLR2B	yes
POLR2C	.	.	0.3302478	0.0040579	.	.	.	0.5390006	7.26E-07	.	.	.	.
POLR2D	.	.	0.3976545	0.0004508	.	.	.	.	.	.	.	.	.
POLR2E	0.5773972	7.22E-08	.	.	.	.
POLR2F	.	.	0.3291278	0.0041925	.	.	.	0.6280586	2.10E-09	.	.	.	.
POLR2M	0.4751347	1.89E-05	.	.	.	yes
POM121L2	0.4840246	1.25E-05	.	.
POMT2	0.4492894	5.93E-05	.	.	.	.
PON2	0.5407211	6.58E-07	.	.	.	.
POPDC2	0.6728481	5.16E-11	.	.	.	.
PPARD	0.6978581	4.85E-12	.	.	.	.
PPHLN1	.	.	0.5719839	1.02E-07	.	.	.	.	.	.	.	.	.
PPIA	0.523812	1.67E-06	.	.	.	.
PPIB	0.612541	6.64E-09	.	.	.	.
PPIC	.	.	0.4232487	0.0001719	.	.	.	.	.	.	.	.	.
PPID	.	.	0.4428122	7.79E-05	.	.	.	.	.	.	.	.	.
PPIE	0.4948762	7.39E-06	.	.	.	.	.	.	.
PPM1E	0.5113509	3.23E-06	.	.
PPM1G	0.841844	5.76E-21	.	.	.	yes
PPM1J	.	.	0.3616884	0.0015438	.	.	.	0.6840284	1.85E-11	.	.	.	.
PPM1K	.	.	0.3500313	0.0022344	.	.	.	0.4805882	1.47E-05	.	.	.	.
PPME1	0.5884138	3.52E-08	.	.	.	.
PPOX	0.5158418	2.56E-06	.	.	.	.	.	.	.	.	.	.	.
PPP1CA	.	.	0.3563606	0.0018312	.	.	.	.	.	.	.	.	yes
PPP1CB	.	.	0.3273228	0.0044179	.	.	.	0.6070118	9.85E-09	.	.	.	yes
PPP1R13B	0.5132553	2.92E-06	.	.	.	.
PPP1R14B	0.7494672	1.57E-14	.	.	.	.
PPP1R14C	.	.	0.5543285	2.99E-07	.	.	.	.	.	.	.	.	.
PPP1R15A	0.4446745	7.21E-05	.	.	.	.
PPP1R15B	0.6663357	9.20E-11	.	.	.	.
PPP1R17	.	.	0.6532535	2.82E-10	.	0.3069402	0.0078144	.	.	.	.	.	.
PPP1R37	.	.	0.3248325	0.0047465	.	.	.	0.6102515	7.82E-09	.	.	.	.
PPP1R3D	0.64523	5.45E-10	.	.	.	.
PPP1R9A	.	.	0.4067171	0.0003232	.	.	.	.	.	.	.	.	.
PPP2CA	.	.	0.3146596	0.0063248	.	.	.	0.5282614	1.32E-06	.	.	.	yes
PPP2R1A	yes
PPP2R2D	0.5202112	2.03E-06	.	.	.	.
PPP2R3A	.	.	0.4487381	6.07E-05	.	.	.	.	.	.	.	.	.
PPP2R4	yes
PPP2R5A	0.5167753	2.43E-06	.	.	.	.
PPP2R5D	yes
PPP4C	yes
PPP6R1	0.5563759	2.65E-07	.	.	.	.
PPP6R3	0.4793093	1.56E-05	0.5031632	4.90E-06	.	yes
PPTC7	0.6937521	7.27E-12	.	.	.	.
PRAM1	0.6359715	1.14E-09	.	.	.	.
PRDM6	.	.	0.4099765	0.0002861	.	.	.	.	.	.	.	.	.
PRDX1	0.6443591	5.85E-10	.	.	.	.
PRDX2	0.5390396	7.24E-07	.	.	.	yes
PRDX6	0.5448311	5.21E-07	.	.	.	yes
PRG3	0.676925	3.56E-11

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RAPGEF2	0.5931018	2.57E-08	.
RAPGEF3	.	.	0.3790259	0.0008679
RARA	0.356147	0.0018436	.	.	0.5492382	4.03E-07	.	.	.
RARB	.	.	0.3627552	0.0014914	.	.	.	.	0.5656466	1.51E-07	.	.	.
RASD1	0.5838226	4.77E-08	.	.	.	.	.
RASEF	0.5508642	3.67E-07	.
RASIP1	.	.	0.4776251	1.68E-05	.	.	.	.	.	.	.	.	.
RASL10B	.	.	0.5460625	4.85E-07	.	.	.	.	0.4718174	2.20E-05	.	.	.
RASL11B	.	.	0.4145586	0.0002405	.	.	.	.	0.7340636	9.99E-14	.	.	.
RASSF3	.	.	0.6651503	1.02E-10	.	.	.	.	.	.	.	.	.
RASSF5	0.8895709	3.32E-26	.	.	.
RB1CC1	.	.	0.4814059	1.41E-05	.	.	.	.	.	.	.	.	.
RBBP4	.	.	0.3059871	0.0080181	0.355287	0.0018946	.	.	.	.	.	.	yes
RBBP6	yes
RBBP7	.	.	0.5015763	5.30E-06	.	.	.	.	.	.	.	.	yes
RBFA	0.5827436	5.11E-08	.	.	.
RBFOX2	0.4601471	3.71E-05	.	.	.	.	.	.	yes
RBM12	0.6556867	2.30E-10	.	.	.
RBM20	.	.	0.437945	9.53E-05	.	.	.	.	.	.	.	.	.
RBM22	0.7281967	1.95E-13	.	.	.
RBM24	.	.	0.4587817	3.94E-05	.	.	.	.	0.6988374	4.40E-12	.	.	.
RBM25	yes
RBM27	0.6121114	6.84E-09	.	.	.
RBM28	.	.	0.5100288	3.45E-06	.	.	.	.	.	.	.	.	.
RBM39	yes
RBM6	0.5842503	4.64E-08	.	.	.
RBM8A	.	.	0.409956	0.0002863	.	.	.	.	.	.	.	.	.
RBMS2	.	.	0.3050328	0.0082268	.	.	.	.	0.5116311	3.18E-06	.	.	.
RBMXL1	.	.	0.3809552	0.0008124	.	.	.	.	.	.	.	.	.
RBPMS	.	.	0.3841113	0.0007286	.	.	.	.	.	.	.	.	.
RBPMS2	.	.	0.3867539	0.0006645	.	.	.	.	.	.	.	.	.
RCAN3	0.47582	1.83E-05	.	.	.
RCBTB2	.	.	0.3020168	0.0089178	.	.	.	.	.	.	.	.	yes
RCC2	yes
RCN1	.	.	0.5519704	3.44E-07	.	.	.	.	0.4967963	6.73E-06	.	.	yes
RDX	yes
RELA	0.444831	7.16E-05	.	.	.
RELL1	0.6413717	7.43E-10	.	.	.
RELT	0.5342273	9.48E-07	.	.	.
REPS1	.	.	0.382475	0.000771	.	.	.	.	.	.	.	.	.
RER1	.	.	0.404927	0.0003455	.	.	.	.	.	.	.	.	.
RERE	0.4605875	3.64E-05	.	.	yes
RETSAT	.	.	0.4138475	0.0002471	.	.	.	.	.	.	.	.	.
RFC1	0.3390897	0.0031227	.	.	yes
RFESD	0.5941267	2.40E-08	.	.	.
RFK	.	.	0.320326	0.0053966	.	.	.	.	0.5396498	6.99E-07	.	.	.
RFWD3	0.5890314	3.38E-08	.	.	.
RGP1	0.5165359	2.46E-06	.	.	.
RGS5	0.5740987	8.91E-08	.	.	.
RGS6	.	.	0.4096421	0.0002897	.	.	.	.	.	.	.	.	.
RGSL1	0.6981223	4.73E-12	.
RHBDD2	0.4878426	1.04E-05	.	.	.
RHO	0.6052608	1.11E-08	.
RHOB	.	.	0.4643095	3.09E-05	.	.	.	.	.	.	.	.	.
RHOBTB3	yes
RHOD	.	.	0.3480964	0.0023727	.	.	.	.	0.5222305	1.82E-06	.	.	.
RHOT1	.	.	0.4211966	0.0001862	.	.	.	.	.	.	.	.	.
RHOU	.	.	0.5244269	1.62E-06	.	.	.	.	0.5829279	5.05E-08	.	.	.
RIC8A	.	.	0.3357551	0.00345	.	.	.	.	0.6032866	1.28E-08	.	.	.
RIC8B	0.447712	6.34E-05	.
RIMKLB	0.5624233	1.84E-07	.
RIN1	0.5010392	5.45E-06	.	.	.	.	.
RIPK2	.	.	0.4118156	0.0002669	.	.	.	.	.	.	.	.	.
RIPPLY3	0.6132004	6.33E-09	.	.	.
RLF	0.4756185	1.85E-05	.	.	.
RLIM	yes
RMDN3	0.489978	9.38E-06	.	.	.
RNASE2	0.7645011	2.26E-15	.
RNF10	0.6318061	1.58E-09	.	.	yes
RNF112	0.5036805	4.77E-06	.	.	.	.	.	.	.	.	.	.	.
RNF114	0.6030914	1.30E-08	.	.	.
RNF139	0.5861707	4.09E-08	.	.	.	.	.
RNF145	0.4420609	8.04E-05	.	.	.
RNF149	0.4881779	1.02E-05	.	.	yes
RNF168	.	.	0.3966686	0.0004672	0.3058805	0.0080412	.	.	.

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RNF17	0.6777365	3.31E-11	.	.
RNF170	0.4399737	8.77E-05
RNF187	.	.	0.3051877	0.0081926	.	.	.	0.7481152	1.86E-14	.	.	.	yes
RNF207	.	.	0.6856473	1.58E-11	.	.	.	.	.	.	.	.	.
RNF219	0.4514173	5.42E-05	.	.	.	.	.	.	.
RNF25	.	.	0.4609191	3.59E-05	.	.	.	.	.	.	.	.	.
RNF44	0.4065533	0.0003252	.	.	.	yes
RNF5	.	.	0.4875031	1.06E-05	.	.	.	0.4917421	8.61E-06	.	.	.	.
RNMT	0.6015112	1.45E-08	.	.	.	.
RNMTL1	0.4585968	3.97E-05	.	.	.	.
ROCK2	0.548609	4.18E-07	.	.	.	.
RP11-503N18.1	0.596642	2.02E-08	.	.
RPA1	0.3820277	0.000783	.	.	.	yes
RPAP3	.	.	0.3240164	0.0048588	.	.	.	0.4746735	1.93E-05	.	.	.	.
RPF2	0.6824295	2.14E-11	.	.	.	.
RPGR	.	.	0.4281228	0.0001418	.	.	.	.	.	.	.	.	.
RPL13A	yes
RPL22	yes
RPL32	yes
RPL36A-HNRNPH2	0.5001735	5.69E-06	.	.	.	.
RPL37A	0.503503	4.82E-06	.	.	.	.
RPL3L	0.560284	2.09E-07	.	.
RPL4	yes
RPL7	0.6219135	3.34E-09	.	.	.	.
RPL7A	0.5567511	2.59E-07	.	.	.	.
RPL7L1	.	.	0.3276845	0.0043719	.	.	.	0.4863242	1.12E-05	.	.	.	.
RPL8	yes
RPLP0	0.3890254	0.0006136	.	.	.	yes
RPLP1	0.3510894	0.0021619	.	.	.	yes
RPN1	0.6490688	3.98E-10	.	.	.	yes
RPN2	0.5461062	4.84E-07	.	.	.	yes
RPP25L	0.5528353	3.27E-07	.	.	.	.	.	.
RPRD2	0.8906133	2.40E-26	.	.	.	.
RPS10-NUDT3	0.6593752	1.68E-10	.	.	.	.
RPS11	0.7340505	1.00E-13	.	.	.	yes
RPS12	.	.	0.6136279	6.13E-09	.	.	.	.	.	.	.	.	.
RPS14	yes
RPS15	.	.	0.4529107	5.08E-05	.	.	.	.	.	.	.	.	yes
RPS19	0.6178985	4.49E-09	.	.	.	.
RPS25	.	.	0.4131973	0.0002533	.	.	.	.	.	.	.	.	.
RPS26	yes
RPS27	0.4425611	7.87E-05	.	.	.	.
RPS3	yes
RPS5	yes
RPS9	yes
RPTOR	0.5050095	4.46E-06	.	.
RRAD	.	.	0.7478783	1.91E-14	.	.	.	.	.	.	.	.	.
RRAGD	0.5464521	4.74E-07	.	.	.	.
RRAS	.	.	0.4824415	1.34E-05	.	.	.	.	.	.	.	.	.
RRAS2	.	.	0.3958258	0.0004816	.	.	.	0.4867173	1.10E-05	.	.	.	.
RRM1	.	.	0.3860355	0.0006814	.	.	.	0.3345181	0.003579	.	.	.	yes
RRM2	0.3311378	0.0039536	.	.	.	.	.	.	yes
RRN3	.	.	0.3304236	0.0040371	.	.	.	0.5043144	4.62E-06	.	.	.	.
RRP1	yes
RRS1	0.481744	1.39E-05	.	.	.	.
RSG1	0.6344267	1.29E-09	.	.
RSL1D1	yes
RSL24D1	0.475867	1.83E-05	.	.	.	.
RSPH10B2	0.6100052	7.96E-09	.	.	.	.	.	.	.
RSPO3	0.5581565	2.38E-07	.	.	.	.
RTBDN	0.6409399	7.70E-10	.	.	.	.
RTF1	0.4760231	1.81E-05	.	.	.	.	.	.	.
RTKN	0.6366125	1.08E-09	.	.	.	.
RTN2	0.4844304	1.22E-05	.	.	.	.	.
RTN3	0.338637	0.0031654	.	.	.	yes
RTN4	.	.	0.6718773	5.63E-11	.	.	.	.	.	.	.	.	yes
RTN4RL1	.	.	0.4637772	3.16E-05	.	.	.	0.3678268	0.0012636	.	.	.	.
RUVBL1	0.5931658	2.56E-08	.	.	.	.	.	.	.
RUVBL2	0.3702147	0.0011676	.	.	.	.	.	.	yes
RWDD4	.	.	0.3094044	0.0073085	0.5025817	5.04E-06	.	.	.	.	.	.	.
RXRG	0.6962319	5.70E-12	.	.
RYK	0.4585639	3.98E-05	.	.	.	.
S100A1	.	.	0.6173332	4.68E-09	.	.	.	0.3469884	0.0024553
SAE1	0.827659	9.76E-20	.	.	.	yes
SAFB	0.4193404	0.0002001	.	.	.	yes

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SAMD1	.	.	0.4120211	0.0002649	0.4235504	0.0001698	.	.	.
SAMD11	0.6979474	4.81E-12	.	.	.
SAMD4A	0.4812676	1.42E-05	0.47458	1.94E-05	.	.	.
SAMD4B	.	.	0.3949879	0.0004963	.	.	.	.	0.4720028	2.18E-05	.	.	.
SAMM50	.	.	0.333321	0.0037079	.	.	.	.	0.5424719	5.96E-07	.	.	.
SAP130	0.7237921	3.20E-13	.	.	.
SAP30	.	.	0.4347116	0.0001088	0.3388201	0.0031481	.	.	0.5233786	1.71E-06	.	.	.
SAP30L	.	.	0.3697636	0.0011852	.	.	.	.	0.5362765	8.45E-07	.	.	.
SAR1A	.	.	0.4059342	0.0003328	.	.	.	.	.	.	.	.	yes
SARS2	0.5953669	2.21E-08	.	.	.
SART3	0.4373378	9.77E-05	.	.	.	.	.	.	.
SAT1	0.5821067	5.33E-08	.	.	.
SBK1	0.3433238	0.0027472	.	.	.	.	.	.	yes
SBNO1	.	.	0.456548	4.34E-05	.	.	.	.	.	.	.	.	.
SCAF1	yes
SCAF11	.	.	0.4486393	6.10E-05	.	.	.	.	.	.	.	.	yes
SCAF4	0.7192861	5.24E-13	.
SCAMP4	0.5241808	1.64E-06	.	.	.
SCAND1	.	.	0.3942364	0.0005099	.	.	.	.	0.4711077	2.27E-05	.	.	.
SCCPDH	.	.	0.4188468	0.000204	.	.	.	.	.	.	.	.	.
SCGB1C1	0.6307239	1.71E-09	.
SCHIP1	0.5155124	2.60E-06	.	.	.
SCMH1	0.5048773	4.49E-06	.
SCML2	0.4960034	7.00E-06	.
SCO1	.	.	0.4025441	0.0003772	.	.	.	.	.	.	.	.	.
SCPEP1	0.4484828	6.14E-05	.	.	.
SCRIB	yes
SCRN2	.	.	0.423082	0.000173	.	.	.	.	.	.	.	.	.
SDC2	0.446075	6.80E-05	.	.	.
SDCCAG3	.	.	0.5829216	5.06E-08	.	.	.	.	.	.	.	.	.
SDHA	.	.	0.3347708	0.0035523	.	.	.	.	.	.	.	.	yes
SDHAF1	0.7417576	4.03E-14	.	.	.
SDHB	.	.	0.3261624	0.0045684	.	.	.	.	0.6410126	7.65E-10	.	.	.
SDHC	0.7050462	2.35E-12	.	.	.
SDHD	.	.	0.3499392	0.0022409	.	.	.	.	0.5558889	2.73E-07	.	.	.
SEC11A	.	.	0.4795933	1.54E-05	.	.	.	.	0.4300876	0.0001311	.	.	.
SEC14L1	.	.	0.5292237	1.25E-06	.	.	.	.	.	.	.	.	.
SEC23A	.	.	0.3794207	0.0008563	.	.	.	.	0.4573881	4.19E-05	.	.	.
SEC23IP	0.5667966	1.41E-07	.	.	.	.	.	.	.
SEC24C	yes
SEC31A	0.3848615	0.0007098	yes
SEC61a1	yes
SEC63	0.6145703	5.73E-09	.	.	.
SECISBP2	0.5135963	2.87E-06	.	.	.
SEH1L	0.3095088	0.0072877	.	.	yes
SELP	0.5447809	5.22E-07	.
SELT	.	.	0.5690892	1.22E-07	.	.	.	.	0.3032384	0.008632	.	.	.
SEPHS1	yes
SEPN1	0.4770817	1.73E-05	.	.	.
SERBP1	0.5615315	1.94E-07	.	.	yes
SERF2	0.450466	5.64E-05	.	.	.
SERHL2	0.4723793	2.14E-05	.	.	.
SERP1	yes
SERPIN8	0.5750086	8.41E-08	.	.	.
SERPINE1	0.668303	7.73E-11	.	.	.
SERPINH1	yes
SERPINI1	0.5934189	2.52E-08	.
SERTAD3	0.4499547	5.77E-05	.	.	.
SESTD1	0.5999778	1.61E-08	.
SETD1A	0.7138317	9.42E-13	.	.	.
SETD5	.	.	0.3061045	0.0079928	.	.	.	.	.	.	.	.	yes
SETD8	.	.	0.4197257	0.0001972	.	.	.	.	0.555343	2.82E-07	.	.	.
SF1	0.3952114	0.0004924	.	.	.	.	.	.	yes
SF3A1	yes
SF3B1	yes
SF3B2	yes
SF3B3	0.391098	0.0005702	.	.	yes
SF3B4	0.6191357	4.10E-09	.	.	.	.	.	.	.
SF3B5	0.5355244	8.82E-07	.	.	.
SFPQ	yes
SFR1	0.5615958	1.93E-07	.	.	yes
SFRP1	yes
SFT2D1	.	.	0.484595	1.21E-05	.	.	.	.	0.3068385	0.0078359	.	.	.
SFT2D2	.	.	0.5616853	1.92E-07	.	.	.	.	.	.	.	.	.
SGMS1	0.6328684	1.45E-09	.	.	.

Gene	Atrial Expression	P-value Atrial	AV-Canal Expression	P-value AV-Canal	Branchial Arches Expression	P-value Branchial Arches	Heart Tube Expression	P-value Heart Tube	Outflow Tract Expression	P-value Outflow Tract	Ventricle Expression	P-value Ventricle	DMP Expression
SLC50A1	0.6029546	1.31E-08	.	.	.	.
SLC7A14	0.5470413	4.58E-07	.	.	.	.	.	.
SLC7A6OS	.	.	0.4584348	4.00E-05	.	.	.	0.4492284	5.95E-05	.	.	.	.
SLC9B1	.	.	0.4356675	0.0001046	.	.	.	0.4296003	0.0001336	.	.	.	.
SLCO1C1	0.5358913	8.64E-07	.	.
SLCO3A1	.	.	0.5462476	4.80E-07	.	.	.	0.3863063	0.000675	.	.	.	.
SLCO4C1	.	.	0.4854803	1.16E-05	.	.	.	0.3215892	0.0052069	.	.	.	.
SLIRP	0.5420091	6.12E-07	.	.	.	.
SLITRK5	.	.	0.4691589	2.48E-05	.	.	.	.	.	.	.	.	.
SLMAP	0.4920504	8.49E-06	.	.
SLMO2	0.4953858	7.21E-06	.	.	.	.
SMAD5	yes
SMAD6	.	.	0.6379183	9.78E-10	.	.	.	.	.	.	.	.	.
SMAD7	.	.	0.4575985	4.15E-05	.	.	.	0.5253475	1.54E-06	.	.	.	.
SMARCA4	yes
SMARCA5	.	.	0.3801202	0.000836	.	.	.	.	.	.	.	.	.
SMARCB1	yes
SMARCC1	yes
SMARCC2	yes
SMARCD1	0.7456745	2.51E-14	.	.	.	.	.	.	yes
SMARCD3	0.647061	4.70E-10	.	.	.	.
SMC1A	yes
SMC2	yes
SMC3	yes
SMC4	0.3138048	0.0064764	.	.	.	yes
SMCHD1	.	.	0.3383976	0.0031883	.	.	.	.	.	.	.	.	yes
SMCR8	.	.	0.5701014	1.15E-07	.	.	.	.	.	.	.	.	.
SMG1	0.3250183	0.0047213	.	yes
SMIM12	0.7178358	6.13E-13	.	.	.	.
SMIM20	0.7203948	4.65E-13	.	.	.	.
SMIM7	.	.	0.5433941	5.65E-07	.	.	.	0.3256745	0.0046331	.	.	.	.
SMO	0.4214235	0.0001846	.	.	.	yes
SMPD2	0.4935647	7.88E-06	.	.	.	.
SMPDL3A	0.4496476	5.84E-05	.	.	.	.
SMPX	0.8482416	1.46E-21	.	.	.	.
SMS	0.4568975	4.28E-05	.	.	.	.
SMTNL2	0.7717686	8.41E-16	.	.	.	.
SMUG1	0.4541405	4.82E-05	.	.	.	.
SMURF1	0.5180128	2.28E-06	.	.	.	.
SMYD1	0.9612557	4.96E-42	.	.	.	.
SMYD5	0.300994	0.0091634	.	0.5612677	1.97E-07	.	.	.	.
SNAI2	0.5612198	1.98E-07	.	.	.	.	.	.	.
SNAP23	0.5325354	1.04E-06	.	.	.	.
SND1	0.7402005	4.86E-14	.	.	.	yes
SNED1	0.498508	6.18E-06	.	.	.	.
SNRNP200	.	.	0.3519722	0.002103	.	.	.	0.42629	0.0001525	.	.	.	yes
SNRNP40	0.6841477	1.83E-11	.	.	.	.
SNRNP70	yes
SNRPB	yes
SNRPD1	0.4425455	7.88E-05	.	.	.	.
SNRPD3	0.3517163	0.00212	.	.	.	.	.	.	yes
SNRPN	0.6787275	3.02E-11	.	.	.	.	.
SNTA1	0.4831425	1.30E-05	.	.	.	.
SNUPN	0.699389	4.17E-12	.	.
SNX14	0.571147	1.07E-07	.	.	.	.
SNX17	0.4906974	9.06E-06	.	.	.	.
SNX18	.	.	0.3759983	0.0009619	.	.	.	0.3184016	0.0056973	.	.	.	.
SNX21	0.6287193	2.00E-09	.	.	.	.
SNX3	.	.	0.4386216	9.27E-05	.	.	.	0.3414641	0.0029068	.	.	.	.
SNX5	0.3470471	0.0024509	.	.	.	.	.	.	yes
SOD1	.	.	0.3717526	0.0011094	.	.	.	0.5963951	2.06E-08	.	.	.	.
SOD2	.	.	0.4096672	0.0002895	.	.	.	.	.	.	.	.	.
SON	yes
SORBS1	0.3393943	0.0030942	0.496084	6.97E-06	.	.
SORT1	0.5781982	6.86E-08	.	.
SOST	0.4160465	0.0002272	.	.	.	.	.	0.467079	2.73E-05	.	.	.	.
SOX11	0.4086753	0.0003004	.	.	.	.	.	.	yes
SOX12	yes
SOX9	.	.	0.4301277	0.0001308	.	.	.	.	.	.	.	.	.
SP1	yes
SPAG4	0.694341	6.87E-12	.	.	.	.
SPARC	yes
SPAST	0.6335282	1.38E-09
SPATA13	0.6235244	2.96E-09
SPATA18	0.6814709	2.34E-11

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SPATA24	0.489543	9.58E-06
SPATA33	0.7018999	3.24E-12
SPATC1L	0.5225675	1.79E-06	.	.
SPATS2	0.6285607	2.02E-09	.	.	.	.
SPCS2	0.5496883	3.93E-07	.	.	.	.
SPCS3	0.46456	3.05E-05	.	.	.	.
SPEG	0.5383265	7.54E-07	.	.	.	.
SPIN1	0.462139	3.40E-05	.	.	.	.
SPINK5	0.6103436	7.77E-09	.	.
SPNS1	0.3303085	0.0040507	.	0.6485302	4.16E-10	.	.	.	.
SPOCK3	0.6957267	5.99E-12	.	.
SPON1	.	0.7912327	4.91E-17	.	.	.	.	.	.	.	.	.	.
SPPL3	0.5125913	3.03E-06	.	.	.	.
SPR	0.4617257	3.46E-05	.	.	.	.
SPRYD3	.	0.4275733	0.0001449	.	.	.	.	.	.	.	.	.	.
SPRYD7	0.4820368	1.37E-05	.	.	.	.
SPSB3	0.5587495	2.30E-07	.	.	.	.
SPSB4	0.526933	1.41E-06	.	.	.	.
SPTAN1	yes
SPTBN1	.	0.4228853	0.0001743	.	.	.	.	0.5491955	4.04E-07	.	.	.	yes
SPTSSB	0.5332254	1.00E-06	.	.
SRC	0.4526084	5.15E-05	.	.	.	.	.	.	.
SRCRB4D	0.4638992	3.14E-05	.	.
SREBF2	.	0.3328769	0.0037567	.	.	.	.	0.3082605	0.0075397	.	.	.	yes
SREK1	.	0.4742118	1.97E-05	.	.	.	.	0.3209349	0.0053044	.	.	.	.
SRF	0.5671652	1.37E-07	.	.	.	.
SRGAP2	0.4506149	5.61E-05	.	.	.	.
SRM	0.5434041	5.65E-07	.	.	.	.	.	.	.
SRP68	.	0.3347062	0.0035591	.	.	.	.	0.6539099	2.67E-10	.	.	.	.
SRPK3	0.702276	3.12E-12	.	.	.	.
SRRM1	0.4366976	0.0001003	.	.	.	yes
SRRM2	yes
SRR7	0.5895086	3.28E-08	.	.	.	yes
SRSF1	yes
SRSF11	0.4574908	4.17E-05	.	.	.	yes
SRSF2	yes
SRSF3	yes
SRSF6	.	0.3278855	0.0043465	.	.	.	.	.	.	.	.	.	yes
SRSF7	yes
SS18L1	0.6949775	6.45E-12	.	.
SS18L2	.	0.4179757	0.000211	.	.	.	.	.	.	.	.	.	.
SSB	yes
SSBP3	yes
SSBP4	0.504255	4.64E-06	.	.	.	.	.	.	.	.	.	.	.
SSH1	0.3433985	0.0027409	0.4867175	1.10E-05	.	.
SSR1	.	0.4156345	0.0002308	.	.	.	.	0.3100473	0.0071814	.	.	.	yes
SSR3	.	0.3671981	0.00129	.	.	.	.	0.7805458	2.42E-16	.	.	.	yes
SSRP1	0.3527494	0.0020524	.	0.5435994	5.59E-07	.	.	.	yes
SSU72	0.6106806	7.58E-09	.	.	.	.
SSUH2	.	0.4004605	0.0004071	.	.	.	.	.	.	.	.	.	.
ST13	yes
ST3GAL5	.	0.5310544	1.13E-06	.	.	.	.	.	.	.	.	.	.
ST6GAL2	0.6980491	4.76E-12	.	.
ST6GALNAC4	0.7793861	2.86E-16	.	.	.	.
ST6GALNAC5	0.7023218	3.10E-12	.	.
ST7L	.	0.4407147	8.50E-05	.	.	.	.	.	.	.	.	.	.
STAP1	0.6354786	1.18E-09	.	.	.	.
STAP2	.	0.4676347	2.66E-05	.	.	.	.	.	.	.	.	.	.
STARD3	0.4484756	6.14E-05	.	.	.	.	.	.
STARD5	0.4438514	7.46E-05	.	.	.	.
STEAP3	.	0.4692642	2.47E-05	.	.	.	.	.	.	.	.	.	.
STIP1	0.6873633	1.35E-11	.	.	.	yes
STK11	.	0.3951714	0.0004931	.	.	.	.	.	.	.	.	.	.
STK11IP	0.4612756	3.53E-05	.	.	.	.
STK16	0.6639714	1.13E-10	.	.	.	.
STK24	.	0.4342648	0.0001107	.	.	.	.	.	.	.	.	.	.
STK3	.	0.3430404	0.002771	.	.	.	.	0.4937549	7.81E-06	.	.	.	.
STK32A	0.6847042	1.73E-11	.	.	.	.
STK38L	.	.	.	0.4470651	6.52E-05	.	.	.	.	.	.	.	.
STK4	.	0.3948264	0.0004992	.	.	.	.	.	.	.	.	.	.
STRAP	.	0.4534732	4.96E-05	.	.	.	.	0.4311193	0.0001257	.	.	.	yes
STRN3	0.5244537	1.62E-06	.	.	.	.
STRN4	.	0.3827274	0.0007643
STT3A	0.5191457	2.15E-06	.	.	.	yes
STT3B	.	0.5833988	4.90E-08	0.4102633	0.000283	.	.	.	yes

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STX12	0.5482349	4.28E-07
STX1A	0.6285487	2.02E-09
STX1B	.	.	0.3966498	0.0004675
STX2	0.643983	6.03E-10
STXBP1	0.6227729	3.13E-09	.	.	.	.
STXBP5L	0.6397895	8.43E-10	.	.
STXBP6	0.520509	2.00E-06	.	.	.	.
SUB1	0.6052411	1.12E-08	.	.	.	yes
SUCLA2	.	.	0.4329541	0.0001168	.	.	.	.	.	.	.	.	.
SUCLG1	0.5490355	4.08E-07	.	.	.	.
SUDS3	0.7820522	1.94E-16	.	.	.	.
SUGP1	0.6043032	1.19E-08	.	.	.	.
SUGT1	.	.	0.5587178	2.30E-07	.	.	.	0.3083914	0.0075129	.	.	.	.
SULF2	yes
SUMO3	0.3393089	0.0031022	0.3265424	0.0045187	.	.	.	yes
SUPT16H	yes
SUPT5H	0.3665853	0.0013162	.	.	.	yes
SUPT6H	yes
SUPT7L	0.4471769	6.49E-05	.	.	.	.
SURF1	0.4674216	2.68E-05	.	.	.	.
SURF4	0.3070702	0.0077869	0.6656783	9.74E-11	.	.	.	yes
SUV39H2	0.4799006	1.51E-05	.	.
SVEP1	0.461043	3.57E-05	.	.	.	.
SYAP1	.	.	0.5421056	6.08E-07	.	.	.	0.316425	0.0060216	.	.	.	.
SYCE1	0.441973	8.07E-05	.	.	.	.
SYMPK	0.3798996	0.0008424	.	yes
SYN1	.	.	0.3817769	0.0007898	.	.	.	.	.	.	.	.	yes
SYNCRIP	yes
SYNE2	.	.	0.3105494	0.0070834	.	.	.	.	.	.	.	.	yes
SYNE3	0.4828393	1.32E-05	.	.
SYNGAP1	0.6747229	4.35E-11	.	.
SYNPO2	0.6239755	2.86E-09	.	.
SYNPO2L	.	.	0.398837	0.0004319	.	.	.	.	.	.	.	.	.
SYTL5	0.5145955	2.73E-06	.	.
SZRD1	0.4422042	7.99E-05	.	.	.	.
T	0.4555971	4.53E-05	.	.	.	0.3709964	0.0011377	.	.
TAB2	0.4100255	0.0002856	.	.	.	yes
TAB3	0.5359084	8.63E-07	.	.	.	.
TACC3	.	.	0.3154187	0.0061928	.	.	.	.	.	.	.	.	yes
TADA1	0.4819021	1.38E-05	.	.	.	.
TAF10	.	.	0.4405478	8.56E-05	.	.	.	0.5166035	2.46E-06	.	.	.	.
TAF13	.	.	0.4043771	0.0003526	.	.	.	0.4328596	0.0001172	.	.	.	.
TAF15	0.5173046	2.37E-06	.	.	.	.	.	.	yes
TAF5L	0.5093091	3.58E-06	.	.	.	.
TAF8	0.5045946	4.56E-06	.	.	.	.
TAF9	.	.	0.4242103	0.0001655	.	.	.	.	.	.	.	.	.
TAGLN	0.8356651	2.04E-20	.	.	.	.
TAGLN2	.	.	0.4257903	0.0001555	.	.	.	0.5326357	1.04E-06	.	.	.	.
TARDBP	yes
TARSL2	0.4396352	8.89E-05	.	.
TASP1	0.5783425	6.80E-08	.	.	.	.
TAX1BP3	.	.	0.4911952	8.85E-06	.	.	.	.	.	.	.	.	.
TBC1D1	0.5809293	5.75E-08	.	.	.	.
TBC1D16	yes
TBC1D17	0.530553	1.16E-06	.	.	.	.
TBC1D21	0.5219018	1.85E-06	.	.
TBC1D23	.	.	0.4196482	0.0001978	.	.	.	.	.	.	.	.	.
TBC1D31	.	.	0.4161775	0.0002261	.	.	.	.	.	.	.	.	.
TBC1D32	.	.	0.3850885	0.0007042	.	.	.	0.3733525	0.0010516	.	.	.	.
TBC1D7	0.5814669	5.56E-08	.	.	.	.
TBCB	.	.	0.4052758	0.000341	.	.	.	0.5348136	9.17E-07	.	.	.	.
TBCC	0.64235	6.87E-10	.	.	.	.
TBCCD1	.	.	0.3870782	0.000657	.	.	.	.	.	.	.	.	.
TBCE	0.4986687	6.13E-06	.	.	.	.
TBL3	0.481584	1.40E-05	.	.	.	.	.	.	.
TBRG1	.	.	0.3000606	0.0093926	.	.	.	0.5892617	3.33E-08	.	.	.	.
TBX18	.	.	0.5553393	2.82E-07	.	.	.	.	.	.	.	.	.
TBX20	.	.	0.4861277	1.13E-05	.	.	.	0.6787031	3.03E-11	.	.	.	.
TBX5	.	.	0.4691368	2.48E-05	.	.	.	.	.	.	.	.	.
TCAP	.	.	0.4352967	0.0001062	.	.	.	.	.	0.3663659	0.0013257	.	.
TCERG1	yes
TCF12	yes
TCF25	yes
TCF3	0.4028315	0.0003732	yes
TCFL5	.	.	0.4166087	0.0002224	.	.	.	0.3127359	0.0066704

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TCOF1	yes
TCP1	0.4441401	7.37E-05	.	.	.	yes
TCP11L1	0.8392736	9.81E-21
TCTA	.	.	0.3825319	0.0007695
TCTEX1D1	0.6733311	4.94E-11	.	.
TDFGF1	0.3153111	0.0062113	0.5883124	3.55E-08	.	.	.	.
TDRD7	0.6644034	1.09E-10	.	.	.	.
TEAD1	0.3159063	0.0061093	.	.	.	yes
TEAD2	0.3483575	0.0023536	.	.	.	.	.	.	yes
TEC	0.6222603	3.25E-09	.	.
TECR	0.550152	3.82E-07	.	.	.	.
TECRL	.	.	0.487697	1.05E-05	.	.	.	.	.	.	.	.	.
TECTA	0.6499077	3.72E-10	.	.
TENM3	yes
TESC	.	.	0.4958579	7.05E-06	.	.	.	.	.	.	.	.	.
TEX10	0.4393959	8.98E-05	.	.	.	.	.	.	.
TEX13B	0.6435768	6.23E-10	.	.	.	.
TEX261	.	.	0.3916359	0.0005594	.	.	.	.	.	.	.	.	.
TEX35	0.4863062	1.12E-05	.	.
TEX37	0.5383782	7.51E-07	.	.	.	.	.
TFAM	.	.	0.5318924	1.08E-06	.	.	.	.	.	.	.	.	.
TFCP2	0.5293221	1.24E-06	.	.	.	.
TFE3	.	.	0.2978981	0.0099431	.	.	.	0.5904735	3.07E-08	.	.	.	.
TFEB	.	.	0.4443645	7.30E-05	.	.	.	.	.	.	.	.	.
TFIP11	0.5662008	1.46E-07	.	.	.	.
TFPI	.	.	0.5346944	9.23E-07	.	.	.	.	.	0.3583841	0.0017168	.	.
TFRC	.	.	0.3583438	0.001719	.	.	.	.	.	.	.	.	yes
TGFB1	.	.	0.4618391	3.44E-05	.	.	.	0.4418036	8.13E-05	.	.	.	.
TGFB2	0.4573081	4.20E-05	.	.	.	.
TGFBR1	.	.	0.3936721	0.0005203	.	.	.	.	.	.	.	.	yes
TGFBRAP1	.	.	0.3238646	0.00488	.	.	.	.	.	0.5342322	9.47E-07	.	.
TGIF2	0.5635716	1.71E-07	.	.	.	.
THBS1	.	.	0.4722067	2.16E-05	.	.	.	.	.	.	.	.	.
THBS4	.	.	0.4748727	1.91E-05	.	.	.	.	.	.	.	.	.
THOC1	0.5186448	2.20E-06	.	.	.	.
THPO	0.646904	4.76E-10	.	.
THSD4	0.5758847	7.95E-08	.	.	.	.
THUMP1	.	.	0.3017046	0.0089921	.	.	.	0.5318337	1.08E-06	.	.	.	.
TIMELESS	.	.	0.5079476	3.84E-06	.	.	.	.	.	.	.	.	.
TIMM10B	.	.	0.3896377	0.0006005	.	.	.	.	.	.	.	.	.
TIMM13	0.6528975	2.90E-10	.	.	.	.
TIMM17A	.	.	0.3478262	0.0023927	.	.	.	0.4476613	6.36E-05	.	.	.	.
TIMM21	.	.	0.3806305	0.0008215	.	.	.	0.5224215	1.80E-06	.	.	.	.
TIMM22	0.7887535	7.17E-17	.	.	.	.
TIMM44	0.5742292	8.84E-08	.	.	.	.
TIMM8A	.	.	0.3942419	0.0005098	0.3740525	0.0010271	.	.	.	.	.	.	.
TIMM8B	.	.	0.4963735	6.87E-06	.	.	.	.	.	.	.	.	.
TIMM9	0.5108302	3.32E-06	.	.	.	.
TJP1	0.6986481	4.49E-12	.	yes
TJP2	0.6591139	1.72E-10	.	.	.	.
TKT	.	.	.	0.4699228	2.40E-05	.	.	.	.	.	.	.	yes
TLE3	.	.	0.3994332	0.0004227	.	.	.	.	.	.	.	.	yes
TLN1	.	.	0.3104186	0.0071088	.	.	.	0.3499843	0.0022377	.	.	.	yes
TLN2	0.5655494	1.52E-07	.	.	.	.
TLX1	0.8978211	2.35E-27	.	.	.	.
TM6SF1	0.691419	9.12E-12	.	.	.	.
TM7SF3	0.5475529	4.45E-07	.	.	.	.
TM9SF3	0.5601588	2.11E-07	.	.	.	yes
TM9SF4	0.5557371	2.75E-07	.	.	.	.
TMA16	.	.	.	0.4628095	3.30E-05	.	.	.	.	.	.	.	.
TMBIM1	.	.	0.6071287	9.77E-09	.	.	.	.	.	.	.	.	.
TMBIM6	yes
TMC7	0.5831807	4.97E-08	.	.	.	.	.	.
TMCO1	.	.	0.3820972	0.0007811	.	.	.	.	.	.	.	.	.
TMED10	0.5019624	5.20E-06	.	.	.	.
TMED4	0.45	5.76E-05	.	.	.	.
TMED9	yes
TMEM115	.	.	0.4010219	0.0003989	.	.	.	.	.	.	.	.	.
TMEM116	0.5138791	2.83E-06	.	.
TMEM123	.	.	0.6435244	6.26E-10	.	.	.	.	.	.	.	.	.
TMEM129	.	.	0.4121996	0.0002631	.	.	.	.	.	.	.	.	.
TMEM132A	yes
TMEM147	.	.	0.3314486	0.0039178	.	.	.	0.6771626	3.49E-11
TMEM14C	0.4102184	0.0002835	0.6035037	1.26E-08
TMEM150A	0.4474484	6.42E-05

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TPX2	.	.	0.3761558	0.0009568	yes
TRA2A	yes
TRABD	0.4413199	8.29E-05	.	.	.
TRABD2B	0.5302927	1.18E-06	.
TRAF7	.	.	0.3324028	0.0038095	.	.	.	.	0.4396412	8.89E-05	.	.	.
TRAFD1	0.4457508	6.89E-05	.	.	.
TRAK2	.	.	0.4378514	9.57E-05	.	.	.	.	.	.	.	.	.
TRAM1	0.5403561	6.72E-07	.	.	.
TRAPPC1	.	.	0.4320284	0.0001212	.	.	.	.	.	.	.	.	.
TRAPPC2L	0.4441368	7.37E-05	.	.	.
TRAPPC6B	0.6465532	4.89E-10	.	.	.
TREM2	0.5382116	7.59E-07	.	.	.
TREML1	.	.	0.4077784	0.0003107	.	.	.	.	.	.	.	.	.
TREML2	.	.	0.4824497	1.34E-05	.	.	.	.	.	.	.	.	.
TRIB2	.	.	0.4365478	0.0001009	.	.	.	.	.	.	.	.	.
TRIL	0.5343893	9.39E-07	.	.	.
TRIM11	.	.	0.3844693	0.0007196	.	.	.	.	.	.	.	.	.
TRIM13	.	.	0.5217526	1.87E-06	.	.	.	.	.	.	.	.	.
TRIM15	0.6487101	4.10E-10	.
TRIM28	0.5337815	9.71E-07	.	.	yes
TRIM35	.	.	0.3007524	0.0092222	.	.	.	.	0.3344506	0.0035861	.	.	yes
TRIM44	0.5625247	1.83E-07	.	.	yes
TRIM47	0.9002765	1.02E-27	.	.	.
TRIM5	.	.	0.5588338	2.28E-07	.	.	.	.	.	.	.	.	.
TRIM54	0.4861813	1.13E-05	.	.	.	.	.	.
TRIM56	0.8903994	2.57E-26	.
TRIM63	.	.	0.4410949	8.37E-05	.	.	.	.	0.6786968	3.03E-11	.	.	.
TRIM7	0.4717025	2.21E-05	.
TRIP12	0.5188719	2.18E-06	yes
TRIP13	0.4104733	0.0002808	0.525609	1.52E-06	.	.	.	.	.
TRMT1	.	.	0.3365086	0.0033735	.	.	.	.	0.4586263	3.97E-05	.	.	.
TRMT2A	.	.	0.4810051	1.44E-05	.	.	.	.	.	.	.	.	.
TRMT61A	0.6481344	4.30E-10	.	.	.	.	.
TROAP	.	.	0.5619386	1.89E-07	.	.	.	.	.	.	.	.	.
TRPC4	0.626319	2.40E-09	.	.	.	.	.	.	.
TRPC4AP	0.8181422	5.66E-19	.	.	yes
TRPC6	0.496486	6.83E-06	.	.	.	.	.
TRPM3	0.5086482	3.71E-06	.
TRPM7	.	.	0.5080324	3.83E-06	.	.	.	.	.	.	.	.	.
TRRAP	yes
TSC2	0.4399644	8.77E-05	.	.	.	.	.	.
TSC22D1	.	.	0.3210186	0.0052918	.	.	.	.	0.3100187	0.007187	.	.	yes
TSC22D4	.	.	0.5327579	1.03E-06	.	.	.	.	0.4136131	0.0002493	.	.	.
TSEN15	.	.	0.4070811	0.0003189	.	.	.	.	0.3420794	0.0028531	.	.	.
TSEN34	0.487592	1.05E-05	.	.	.	.	.	.	.
TSFM	0.600661	1.54E-08	.	.	.	.	.	.	.
TSG101	0.3964457	0.000471	.	.	0.5371712	8.04E-07	.	.	.
TSN	0.3797532	0.0008466	.	.	yes
TSPAN13	.	.	0.4309633	0.0001265	.	.	.	.	.	.	.	.	.
TSPAN18	.	.	0.3794258	0.0008561	.	.	.	.	0.5201973	2.03E-06	.	.	.
TSPAN3	yes
TSPAN6	.	.	0.3894589	0.0006043	.	.	.	.	0.638	9.72E-10	.	.	.
TSPAN7	0.4967627	6.74E-06	.	.	.	.	.	.	.
TSPAN9	.	.	0.3903525	0.0005855	.	.	.	.	.	.	.	.	.
TSPYL1	.	.	0.3681702	0.0012493	.	.	.	.	0.4754607	1.86E-05	.	.	.
TSPYL5	.	.	0.3917179	0.0005578	.	.	.	.	.	.	.	.	.
TSSC4	0.5910573	2.95E-08	.	.	.
TTC1	0.4836875	1.27E-05	.	.	.
TTC14	0.6484776	4.18E-10	.
TTC16	0.5617067	1.92E-07	.
TTC19	.	.	0.38014	0.0008355	.	.	.	.	.	.	.	.	.
TTC3	yes
TTC30A	.	.	0.3781125	0.0008953	.	.	.	.	0.34569	0.0025554	.	.	.
TTC33	0.5089421	3.65E-06	.	.	.
TTI2	0.6028279	1.32E-08	.	.	.
TTLL10	0.6167356	4.89E-09	.
TTLL12	0.4973769	6.54E-06	.	.	.
TTLL5	0.4400486	8.74E-05	.	.	.
TPPAL	0.5076049	3.91E-06	.	.	.
TTYH3	0.30935	0.0073194	.	.	.	.	.	.	yes
TUBA1A	.	.	0.3125699	0.0067011	.	.	.	.	.	.	.	.	yes
TUBAL3	0.4653305	2.95E-05
TUBB	0.3974037	0.000455	.	.	yes
TUBG1	0.744751	2.81E-14	.	.	.
TUFM	0.659687	1.64E-10	.	.	.

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TULP2	0.6987472	4.44E-12	.	.
TULP4	0.5483741	4.24E-07
TUSC2	.	.	0.3145305	0.0063475	.	.	.	0.5947963	2.30E-08
TWF2	.	.	0.3425269	0.0028146	.	.	.	0.5984507	1.79E-08	.	.	.	.
TWIST1	.	.	0.4585267	3.98E-05	0.426439	0.0001516	.	.	.	.	.	.	.
TXLNA	0.836054	1.89E-20	.	.	.	yes
TXLNB	.	.	0.4348669	0.0001081	.	.	.	0.6066798	1.01E-08	.	.	.	.
TXNDC5	0.3491108	0.0022993	.	.	.	yes
TXNDC9	0.4614515	3.50E-05	.	.	.	.
TXNL1	0.3743013	0.0010186	.	.	.	.	.	.	yes
TXNL4A	0.363526	0.0014545	.	.	.	.	.	.	yes
TXNRD1	0.450273	5.69E-05	.	.	.	.	.	.	yes
TYK2	0.7955368	2.52E-17	.	.	.	.
TYMS	0.7295081	1.68E-13	.	.	.	.
U2AF1L4	0.4599554	3.74E-05	.	.	.	.
U2AF2	.	.	0.3117111	0.0068613	.	.	.	0.3909553	0.0005731	.	.	.	yes
U2SURP	.	.	0.3610087	0.001578	.	.	.	.	.	.	.	.	yes
UAP1	0.8415189	6.16E-21	.	.	.	.
UBA1	.	.	0.413946	0.0002462	.	.	.	.	.	.	.	.	yes
UBA2	yes
UBA7	0.6843307	1.79E-11	.	.
UBALD2	.	.	0.5147221	2.71E-06	.	.	.	.	.	.	.	.	.
UBAP2	yes
UBAP2L	yes
UBASH3B	0.5951197	2.25E-08	.	.	.	.
UBE2C	0.6072639	9.67E-09	.	.	.	.
UBE2D1	.	.	0.4001119	0.0004123	.	.	.	0.4441063	7.38E-05	.	.	.	.
UBE2D3	0.4976184	6.46E-06	.	.	.	.
UBE2F	.	.	0.4025365	0.0003773	0.3290806	0.0041983	.	.	.	.	.	.	.
UBE2G1	.	.	0.4277411	0.0001439	.	.	.	.	.	.	.	.	.
UBE2G2	.	.	0.498729	6.11E-06	.	.	.	.	.	.	.	.	.
UBE2H	.	.	0.4017625	0.0003882	.	.	.	0.5575579	2.47E-07	.	.	.	.
UBE2I	.	.	0.3691864	0.0012081	.	.	.	0.5274485	1.38E-06	.	.	.	.
UBE2J1	.	.	0.403968	0.0003579	.	.	.	.	.	.	.	.	.
UBE2J2	.	.	0.3870251	0.0006582	.	.	.	.	.	.	.	.	.
UBE2L3	0.642164	6.98E-10	.	.	.	.
UBE2M	0.6892028	1.13E-11	.	.	.	.
UBE2O	0.4561331	4.42E-05	.	.	.	.
UBE2R2	.	.	0.3743836	0.0010158	.	.	.	.	.	.	.	.	yes
UBE2S	.	.	0.4729452	2.09E-05	.	.	.	0.6322477	1.52E-09	.	.	.	.
UBE2Z	.	.	0.335831	0.0034422	.	.	.	0.5518127	3.47E-07	.	.	.	.
UBE3B	0.860691	8.44E-23	.	.	.	.
UBE3C	.	.	0.4046422	0.0003491	.	.	.	0.5869074	3.89E-08	.	.	.	.
UBE3D	0.4741288	1.98E-05	.	.	.	.
UBE4B	.	.	0.419157	0.0002016	.	.	.	0.336757	0.0033486	.	.	.	yes
UBFD1	0.305471	0.0081304	.	.	.	yes
UBL3	.	.	0.4882246	1.02E-05	.	.	.	.	.	.	.	.	.
UBQLN1	0.3359926	0.0034257	.	.	.	.	.	.	yes
UBQLN2	yes
UBQLN3	0.5468088	4.64E-07	.	.
UBQLN4	0.589308	3.32E-08	.	.	.	yes
UBR4	.	.	0.354732	0.0019281	.	.	.	.	.	.	.	.	yes
UBR5	0.6451853	5.47E-10	.	yes
UBTF	0.3733499	0.0010516	.	.	.	.	.	.	yes
UBXN2B	0.4630294	3.27E-05	.	.
UBXN4	0.5805659	5.89E-08	.	.	.	.
UCHL3	0.5493136	4.02E-07	.	.	.	.
UCK2	.	.	0.4350525	0.0001073	.	.	.	0.4582365	4.03E-05	.	.	.	.
UFC1	0.5741289	8.89E-08	.	.	.	.
UFL1	0.4374463	9.73E-05	.	.	.	.
UGGT1	0.4979271	6.36E-06	.	.	.	.
UGP2	.	.	0.4098959	0.000287	.	.	.	.	.	.	.	.	.
UGT1A4	0.5250173	1.57E-06	.	.	.	.	.
UGT2A2	0.4479724	6.27E-05	.	.	.	.
UGT2B17	0.5477878	4.39E-07	.	.	.	.
UHRF1	0.4557688	4.49E-05	.	.	.	.	.	.	yes
UHRF1BP1	.	.	0.4044569	0.0003515	.	.	.	0.570118	1.14E-07	.	.	.	.
ULK2	0.4979206	6.36E-06	.	.
UNC119	0.4743731	1.96E-05	.	.	.	.
UNC5B	.	.	0.5724877	9.86E-08	.	.	.	.	.	.	.	.	.
UNC80	0.4593682	3.84E-05	.	.
UPF1	yes
UPF3A	.	.	0.48368	1.27E-05
UPK3B	.	.	0.4549082	4.66E-05
UQCR11	.	.	0.3503672	0.0022112	.	.	.	0.5521099	3.41E-07

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UQCRB	.	.	0.3749798	0.0009956	.	.	0.3019637	0.0089304	0.368371	0.0012411	.	.	.
UQCRC1	0.4161624	0.0002262	.	.	yes
UQCRC2	.	.	0.5422774	6.03E-07	.	.	.	.	.	.	.	.	yes
UQCRFS1	.	.	0.5079487	3.84E-06	.	.	.	.	0.4932728	8.00E-06	.	.	.
UQCRH	.	.	0.5352948	8.93E-07	.	.	.	.	0.5974366	1.92E-08	.	.	.
URB1	0.4549195	4.66E-05	.	.	.
USP10	yes
USP12	0.4452162	7.05E-05	.	.	.
USP13	.	.	0.6002377	1.58E-08	.	.	.	.	.	.	.	.	.
USP19	yes
USP22	.	.	0.3889645	0.0006149	.	.	.	.	0.3693222	0.0012027	.	.	yes
USP30	0.5811967	5.66E-08	.	.	.
USP36	0.552477	3.34E-07	.	.	.
USP39	.	.	0.4797535	1.52E-05	.	.	.	.	0.5474114	4.49E-07	.	.	.
USP40	0.8881744	5.09E-26	.	.	.
USP47	.	.	0.3021422	0.008888	.	.	.	.	.	.	.	.	yes
USP49	0.6743032	4.52E-11	.	.	.
USP5	0.3932483	0.0005282	.	.	yes
USP7	yes
USP9X	yes
UTP18	.	.	0.3998904	0.0004157	.	.	.	.	0.4946777	7.47E-06	.	.	.
UTP20	.	.	0.441353	8.28E-05	.	.	.	.	.	.	.	.	.
UTP23	.	.	0.3882659	0.0006302	.	.	.	.	.	.	.	.	.
UTP3	.	.	0.5006403	5.56E-06	.	.	.	.	0.3520856	0.0020956	.	.	.
UTP6	0.4401191	8.71E-05	.	.	0.410511	0.0002804	.	.	.
UXT	0.5198651	2.07E-06	.	.	.
VAMP3	0.5321502	1.06E-06	.	.	.
VANGL1	.	.	0.3984363	0.0004383	.	.	.	.	0.3194254	0.0055355	.	.	.
VAPB	.	.	0.3636726	0.0014476	0.3123011	0.0067508	.	.	0.4787193	1.60E-05	.	.	.
VARS	0.582165	5.31E-08	.	.	yes
VASH2	0.3267711	0.0044889	0.4666478	2.78E-05	.
VAT1	0.7748841	5.44E-16	.	.	.
VAV2	0.4519065	5.31E-05	.
VCAM1	.	.	0.3774887	0.0009145	.	.	.	.	0.3925157	0.0005422	.	.	.
VCAN	.	.	0.5126032	3.02E-06	.	.	0.389222	0.0006093	.	.	.	.	yes
VCL	.	.	0.4352481	0.0001064	.	.	.	.	.	.	.	.	yes
VDAC1	0.7424438	3.71E-14	.	.	yes
VDAC2	0.7690542	1.22E-15	.	.	.
VEZFF1	0.6793091	2.86E-11	.	.	.
VIM	.	.	0.5228256	1.77E-06	.	.	.	.	0.5471369	4.56E-07	.	.	yes
VIMP	0.5662537	1.45E-07	.	.	.
VNN1	0.5000772	5.72E-06	.	.	.
VPREB3	0.4798261	1.52E-05	.	.	.	.	.
VPS13D	0.5727333	9.71E-08	.	.	.
VPS16	0.6247964	2.69E-09	.	.	.
VPS28	.	.	0.3901435	0.0005898	.	.	.	.	.	.	.	.	.
VPS35	yes
VPS37B	0.5376967	7.81E-07	.	.	.
VPS39	0.4431559	7.68E-05	.	.	.
VRK1	.	.	0.4326285	0.0001183	.	.	.	.	.	.	.	.	.
VRK3	0.4639517	3.14E-05	.	.	.
VWA7	0.5344607	9.36E-07	.	.	.	.	.
WAPAL	0.4620814	3.41E-05	.	.	.
WARS	0.6272814	2.23E-09	.	.	.
WAS	.	.	0.441686	8.17E-05	.	.	.	.	.	.	.	.	.
WASH1	.	.	0.3756122	0.0009746	.	.	.	.	.	.	.	.	.
WASL	0.4391499	9.07E-05	.	.	.
WBP11	0.7177657	6.18E-13	.	.	.	.	.	.	yes
WBP1L	.	.	0.4369813	9.91E-05	.	.	.	.	.	.	.	.	.
WBP5	yes
WBSCR22	0.6625104	1.28E-10	.	.	.
WBSCR27	0.6822525	2.18E-11	.	.	.
WDR1	0.624796	2.69E-09	.	.	yes
WDR11	0.459343	3.84E-05	.	.	.
WDR26	yes
WDR33	0.4547767	4.69E-05	.
WDR37	0.4451967	7.05E-05	.
WDR41	.	.	0.42604	0.000154	.	.	.	.	.	.	.	.	.
WDR53	0.7236968	3.23E-13	.	.	.
WDR6	yes
WDR62	0.5926925	2.65E-08	.	.	.
WDR82	.	.	0.3923091	0.0005462	yes
WDR83	0.7379985	6.30E-14	.	.	.
WDR89	0.4487857	6.06E-05	.	.	.
WDR90	0.4792821	1.56E-05	.

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WDR91	.	.	0.3815038	0.0007972
WDR93	0.8369109	1.59E-20
WDR96	0.6054039	1.10E-08	.	.
WDSUB1	.	.	0.3799482	0.000841
WDTA1	0.3024239	0.0088216	0.598516	1.78E-08	.	.	.	.	.
WEE1	0.5559617	2.71E-07	.	.	.	.
WEE2	0.5173497	2.36E-06	.	.	.	.	.	.
WFDC8	0.6115539	7.12E-09	.	.
WFS1	.	.	0.3969893	0.0004618	.	.	.	0.3515193	0.0021331	.	.	.	.
WHSC1	0.3849879	0.0007067	.	.	.	.	.	.	yes
WHSC1L1	.	.	0.4548106	4.68E-05	.	.	.	.	.	.	.	.	.
WIBG	0.5664623	1.44E-07	.	.	.	.	.	.	.	.	.	.	.
WNK1	.	.	0.3271556	0.0044394	.	.	.	.	.	.	.	.	yes
WNT9B	.	.	0.5370333	8.10E-07	.	.	.	.	.	.	.	.	.
WRAP53	0.769643	1.13E-15	.	.	.	.
WRB	0.560475	2.07E-07	.	.	.	.
WSB1	0.3915675	0.0005608	.	.	.	yes
WSB2	.	.	0.4123394	0.0002617	.	.	.	0.4066219	0.0003244	.	.	.	.
WT1	.	.	0.4065107	0.0003257	.	.	.	.	.	.	.	.	.
WWC1	0.5643608	1.63E-07	.	.
WWC2	.	.	0.4353187	0.0001061	.	.	.	.	.	.	.	.	.
WWP2	0.4788704	1.59E-05	.	.	.	.
XIRP1	.	.	0.5185974	2.21E-06	.	.	.	.	.	.	.	.	.
XK	.	.	0.4871716	1.07E-05	.	.	.	.	.	.	.	.	.
XPINPEP1	.	.	0.3995613	0.0004207	.	.	.	0.3742311	0.001021	.	.	.	.
XPO1	yes
XPO6	0.4374515	9.73E-05	.	.	.	.
XPO7	yes
XRCC3	0.4740661	1.98E-05	.	.	.	.
XXYLT1	0.7064808	2.03E-12	.	.	.	.
XYLT2	.	.	0.3108149	0.0070321	0.4383513	9.37E-05	.	.	.	.	.	.	.
YAF2	.	.	0.5794482	6.33E-08	.	.	.	.	.	.	.	.	.
YAP1	0.4230831	0.000173	.	.	.	yes
YBX1	0.3476761	0.0024038	.	.	.	yes
YDJC	0.5509562	3.65E-07	.	.	.	.
YEATS2	yes
YEATS4	.	.	0.4116676	0.0002684	.	.	.	.	.	.	.	.	.
YIF1A	.	.	0.4176043	0.000214	.	.	.	0.4470129	6.53E-05	.	.	.	.
YIPF6	0.5641511	1.65E-07	.	.	.	.
YKT6	0.7087147	1.61E-12	.	.	.	.
YME1L1	yes
YPEL2	.	.	0.4686394	2.54E-05	.	.	.	0.4706993	2.31E-05	.	.	.	.
YPEL5	0.4647348	3.03E-05	.	.	.	.
YTHDF1	0.6794537	2.83E-11	.	.	.	.
YTHDF2	0.4708099	2.30E-05	.	.	.	.
YWHAB	0.4178414	0.0002121	.	.	.	yes
YWHAE	yes
YWHAG	0.3197539	0.0054845	.	.	.	yes
YWHAH	.	.	0.4670933	2.72E-05	.	.	.	0.5473673	4.50E-07	.	.	.	.
YWHAQ	.	.	0.3757	0.0009717	.	.	.	0.3650971	0.001382	.	.	.	.
YWHAZ	yes
YY2	0.4606162	3.63E-05	.	.	.	.
ZAN	0.5417719	6.20E-07	.	.
ZBTB1	.	.	0.3771048	0.0009265	.	.	.	.	.	.	.	.	.
ZBTB25	0.518748	2.19E-06	.	.
ZBTB6	.	.	0.460639	3.63E-05	.	.	.	.	.	.	.	.	.
ZBTB9	.	.	0.4188316	0.0002041	.	.	.	.	.	.	.	.	.
ZC2HC1B	.	.	0.4537426	4.90E-05	.	.	.	.	.	.	.	.	.
ZC3H12A	0.5320744	1.07E-06	.	.
ZC3H12D	.	.	0.3169559	0.0059329	.	.	.	0.5678431	1.32E-07	.	.	.	.
ZC3H4	yes
ZC3H7B	0.6930681	7.77E-12	.	.	.	yes
ZC3HAV1L	yes
ZC4H2	.	.	0.3789288	0.0008708	.	.	.	.	.	.	.	.	.
ZCCHC11	0.4372586	9.80E-05	.	.	.	.	.	.	yes
ZCWPW2	.	.	0.4034234	0.0003652	.	.	.	.	.	.	.	.	.
ZDHH14	0.496443	6.85E-06	.	0.3443756	0.0026604	.	.	.	.
ZDHH5	0.6671505	8.56E-11	.	.	.	.
ZDHH8	.	.	0.3820146	0.0007833	0.3308838	0.0039831	.	.	.	.	.	.	.
ZDHH9	0.6988973	4.38E-12	.	.	.	.
ZFAND4	0.5574623	2.48E-07	.	.
ZFAT	0.7251792	2.74E-13	.	.
ZFH2	0.4511176	5.49E-05
ZFP36L1	.	.	0.3431612	0.0027608	yes
ZFP62	0.5369678	8.13E-07

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ZFP91	.	.	0.3469756	0.0024563	0.6082538	9.02E-09	.	.	.
ZFPM1	.	.	0.3059599	0.008024	0.6894491	1.10E-11	.	.	.
ZFR	0.4946024	7.49E-06	.	.	yes
ZFYVE1	0.4385337	9.30E-05	.	.	.
ZFYVE21	0.4934413	7.93E-06	.	.	.
ZHX2	0.5335501	9.84E-07	.	.	.
ZKSCAN5	.	.	0.3895079	0.0006032	.	.	.	.	.	.	.	.	.
ZMAT5	.	.	0.3791326	0.0008647	.	.	.	.	.	.	.	.	.
ZMIZ1	yes
ZMPSTE24	.	.	0.411074	0.0002745	.	.	.	.	0.5154694	2.61E-06	.	.	.
ZMYM1	0.4797489	1.53E-05	.	.	.
ZMYM3	0.32035	0.0053929	0.5057015	4.31E-06	.
ZMYM4	.	.	0.4697356	2.42E-05	.	.	.	.	.	.	.	.	.
ZMYND19	0.3256194	0.0046404	.	.	0.7081181	1.71E-12	.	.	.
ZNF106	yes
ZNF143	0.6732595	4.97E-11	.	.	.
ZNF146	0.4640154	3.13E-05	.	.	.	.	.	.
ZNF207	0.541599	6.26E-07	.	.	yes
ZNF219	0.5598246	2.15E-07	.	.
ZNF22	.	.	0.4279163	0.0001429	.	.	.	.	.	.	.	.	.
ZNF259	0.5021981	5.14E-06	.	.	.
ZNF266	yes
ZNF275	.	.	0.3804557	0.0008265	.	.	.	.	.	.	.	.	.
ZNF280B	0.5591044	2.25E-07	.	.	.
ZNF281	0.7414216	4.20E-14	.	.	.
ZNF330	0.4393142	9.01E-05	.	.	.	.	.	.	.
ZNF334	0.4812147	1.42E-05	.	.	.	.	.	.	.
ZNF335	0.4904921	9.15E-06	.	.	.
ZNF346	.	.	0.4512939	5.45E-05	.	.	.	.	.	.	.	.	.
ZNF354B	0.463105	3.26E-05	.	.	.	.	.	.	.
ZNF384	0.8129315	1.42E-18	.	.	.
ZNF394	0.5338454	9.68E-07	.	.	.
ZNF397	0.4610856	3.56E-05	.	.	.	.	.	.	.
ZNF423	0.4827599	1.32E-05	.	.	.	.	.	.	.
ZNF445	yes
ZNF446	0.5056948	4.31E-06	.	.	.	.	.	.	.
ZNF462	0.3171232	0.0059052	yes	.
ZNF496	0.4898942	9.42E-06	.	.
ZNF511	0.4923552	8.36E-06	.	.	.
ZNF516	yes
ZNF521	0.5108059	3.32E-06	.	.	.	.	.	.	.
ZNF563	.	.	0.4599157	3.75E-05	.	.	.	.	.	.	.	.	.
ZNF565	.	.	0.4200559	0.0001947	.	.	.	.	.	.	.	.	.
ZNF580	.	.	0.3754021	0.0009815	.	.	.	.	.	.	.	.	.
ZNF585A	0.5111884	3.25E-06	.	.
ZNF592	0.5941428	2.40E-08	.	.
ZNF593	0.3397692	0.0030595	.	.	0.5505386	3.74E-07	.	.	.
ZNF609	0.5863987	4.03E-08	.	.
ZNF624	0.6126325	6.59E-09	.	.
ZNF628	0.5338819	9.66E-07	.	.	.
ZNF629	0.6643822	1.09E-10	.	.
ZNF664	yes
ZNF668	.	.	0.4189183	0.0002034	.	.	.	.	.	.	.	.	.
ZNF687	.	.	0.434889	0.000108	.	.	.	.	0.3490564	0.0023032	.	.	.
ZNF697	0.5490689	4.07E-07	.	.
ZNF710	0.5772339	7.30E-08	.	.	.
ZNF800	0.6110478	7.39E-09	.	.
ZNF804B	.	.	0.5524928	3.33E-07	.	.	.	.	0.5566647	2.60E-07	.	.	.
ZNF827	0.5321013	1.07E-06	.	.	.
ZNF846	0.5302543	1.18E-06	.	.
ZNF850	0.4599253	3.75E-05	.	.	.
ZNF90	0.5457422	4.94E-07	.	.
ZNHIT6	0.5669647	1.39E-07	.	.	.
ZNRF1	0.7391338	5.51E-14	.	.	.
ZRANB2	yes
ZSCAN26	0.5471307	4.56E-07	.	.	.
ZSCAN29	0.4699685	2.39E-05	.	.	.	.	.	.	.
ZSWIM3	0.7053135	2.29E-12	.	.	.
ZSWIM8	yes
ZWINT	.	.	0.4692535	2.47E-05	.	.	.	.	0.4877247	1.05E-05	.	.	.
ZYX	.	.	0.4327482	0.0001178	.	.	.	.	0.4733904	2.05E-05	.	.	.