

Table S1 273 LMDGs

Gene	logFC	P value
ABCA12	5.302035986	2.29E-102
ALDH18A1	1.628121647	1.30E-98
CYP24A1	6.726623263	5.63E-98
STARD13	-2.058333944	1.71E-92
STARD8	-2.210313754	1.78E-85
PNPLA6	-1.530569447	2.70E-85
SLC2A1	3.542656853	3.27E-80
FABP4	-4.892225481	1.27E-79
ADRB2	-3.101023446	3.61E-79
CAT	-1.893932618	3.81E-77
PLPP2	2.444201915	1.06E-76
CAV1	-3.41296881	2.96E-76
TFR2	2.975384768	1.12E-71
XDH	3.951416861	1.71E-71
GPD1	-3.892506613	1.13E-67
GLIPR2	-2.185088512	3.13E-66
FLAD1	1.424442932	5.93E-63
GPIHBP1	-3.633814009	4.09E-61
LDLR	-2.14033782	9.63E-61
ALAS2	-4.158066874	1.78E-60
PLPP3	-1.397926358	1.25E-58
ABCC3	2.546748367	3.97E-58
SLC4A1	-3.474976811	3.58E-57
CPNE7	3.211565532	4.60E-55
CP	3.493852721	4.77E-55
CPS1	6.658483702	2.34E-54
MTMR10	-1.183189705	5.10E-54
GAPDH	1.752272858	1.92E-53
DPEP2	-2.172015759	2.54E-52
SYNJ2	1.497221458	5.49E-52
TNFSF11	4.109309487	3.06E-51
CAV2	-2.362045891	2.81E-50
PMM2	1.058812803	1.93E-49
ABCG2	-2.062286709	1.48E-48
FHL2	2.344909814	1.95E-48
PC	1.741111751	1.99E-48
CYP27B1	2.354807563	5.33E-48
PLEKHA8	1.203201965	1.22E-46
NQO1	3.059548608	1.15E-45
ABHD6	-1.266948566	2.07E-45
CD36	-2.88131869	8.52E-45
SLC19A3	-2.871981259	1.24E-44
MMACHC	1.034181427	1.02E-43
HACD4	-1.4957297	8.30E-43
ACE	-1.692899087	3.17E-42
ABCC2	4.859253014	3.95E-41
DECR2	1.397068694	9.73E-41
ACADL	-3.180457924	1.08E-40
LDHA	1.354644455	5.30E-40
SLCO1B3	6.875692568	9.18E-40
CALCA	7.102818219	1.04E-39
SELE	-2.943168106	6.38E-39
HACD4	-1.4957297	8.30E-43
ACE	-1.692899087	3.17E-42
ABCC2	4.859253014	3.95E-41
DECR2	1.397068694	9.73E-41
ACADL	-3.180457924	1.08E-40
LDHA	1.354644455	5.30E-40
SLCO1B3	6.875692568	9.18E-40
CALCA	7.102818219	1.04E-39
SELE	-2.943168106	6.38E-39
ALOX5	-1.829463094	1.87E-38
STARD9	-1.816428852	2.32E-38
ABCA4	3.73652809	3.11E-38
PIP5K1B	-2.296198706	6.09E-38
EPHX3	2.256858432	7.12E-38
PAH	5.263474677	2.32E-37
FA2H	2.523496995	2.54E-37
IL6	-2.864198755	2.48E-36
ALDH3B2	2.854283455	2.78E-36
TPI1	1.141174265	2.23E-35
ADH1B	-3.274175305	4.36E-35
NPC1L1	3.972855565	3.50E-34
PIK3R1	-1.119080285	4.99E-34
SELENOI	1.241631945	5.22E-34
OTC	-3.647608814	9.89E-34
ALB	5.248823611	1.33E-33
SLC25A13	1.046074234	1.50E-33
TLR4	-1.657839965	3.06E-33
SLC7A7	-1.443860768	5.07E-33
GHR	-2.046106085	5.49E-33
FBP1	-1.625290103	1.01E-32
CPNE4	2.654565246	4.37E-32
APBB1	-1.341739081	1.65E-31
LPGAT1	1.045672913	4.93E-31
SRD5A3	1.59946823	7.40E-31
CYP27A1	-1.690538719	9.98E-31
SEC14L1	-1.020541529	1.03E-30
ACACB	-1.348992156	1.39E-30
SLC27A3	-1.295921829	3.36E-30
CPT1B	1.941512612	4.16E-30
ABCG1	-1.389793868	8.84E-30
LCT	4.054414628	4.77E-29
ALOXE3	2.770722679	7.04E-29
RETN	-2.917416081	9.94E-29
PLA2G4A	2.450586133	1.27E-28
RORA	-1.268821657	2.01E-28
BRCA1	1.430662324	2.64E-28
BCHE	-2.371338456	2.80E-28
CGA	6.852204123	3.11E-28
HNFA1	3.841171357	9.93E-28
CETP	-1.258798911	2.99E-27
NUDT8	1.361623345	4.59E-27
KL	-2.290326684	5.27E-27
F2	5.758561757	6.08E-27
PGR	-1.82232917	9.24E-27
LEPR	-1.870257184	1.08E-26
ABCB4	2.028890408	1.21E-26
PLEKHA6	1.6432634	1.51E-26
LPXN	-1.103943077	2.12E-26
GLDC	2.812078219	1.03E-25
ABCA3	-2.098162958	1.03E-25
MSMO1	-1.099353726	1.16E-25
GCKR	3.011098061	1.24E-25
FABP5	-1.796325825	1.27E-25
GALE	1.097494314	1.50E-25
CACNA1S	-3.345248629	1.97E-25
ACHE	2.480688384	5.20E-25
LIPA	-1.270953879	6.26E-25
HPRT1	1.042337778	1.03E-24
ACOT11	1.217066617	1.58E-24
AGT	2.789890666	1.76E-24
CYP7A1	-1.847937078	5.22E-24
ABCB1	-1.604127692	1.14E-23
UGT1A6	4.627689441	3.57E-23
SNCA	-1.47167816	3.83E-23
RAB15	1.406463166	6.28E-23
ACAD8	1.302275899	7.09E-23
SFTPC	-4.665526838	1.09E-22
INSIG1	-1.043687744	2.03E-22
SEC14L6	-2.064680632	2.62E-22
MOGAT1	-2.645309735	3.41E-22
FAM3C	1.224622018	4.50E-22
AGPAT4	-1.159350054	4.63E-22
DHCR24	-1.00690294	1.76E-21
TRIB3	1.314004142	1.85E-21
TF	3.331278556	1.98E-21
PLA2G5	-1.244407342	3.13E-21
CYP1A2	-3.802190405	4.84E-21
PTGDS	-1.672046378	7.30E-21
ETNK2	1.436497319	9.10E-21

Table S1 (continued)

Table S1 (continued)

Gene	logFC	P value
ACSS3	-1.653052353	1.48E-20
CCL2	-1.497241263	1.52E-20
GPT	2.011081894	1.62E-20
ALDH2	-1.165991776	1.78E-20
FTCD	2.710894447	2.25E-20
LHB	2.20675049	3.40E-20
CYP2D6	1.875232176	5.39E-20
STARD4	-1.008797373	6.00E-20
PPARG	-1.592336743	1.18E-19
LPL	-2.067041931	1.63E-19
B4GALNT2	3.400882235	1.76E-19
LTC4S	-1.671171498	2.12E-19
DPEP1	2.01001999	2.57E-19
CYP17A1	-1.927557748	2.84E-19
PNPLA5	4.986951351	4.60E-19
OSBPL6	-1.550794925	1.78E-18
FAR2	-1.279537135	3.62E-18
ARG1	-1.525200932	5.72E-18
PCYT1B	-1.966243272	8.06E-18
HILPDA	1.562909688	8.52E-18
SEC14L3	-3.064069268	1.08E-17
ANGPTL3	2.799914484	1.25E-17
TTN	-1.153602593	1.57E-17
SGPP2	1.299713103	3.46E-17
SLCO1B1	4.849590022	3.68E-17
HMGCS1	-1.006755454	4.16E-17
ELOVL4	1.97096227	4.42E-17
ACSL4	-1.008855969	6.96E-17
UGT1A10	6.17891092	7.17E-17
CYP4F11	2.981155614	7.40E-17
DMGDH	1.770736716	1.24E-16
AMN	1.855907293	2.02E-16
CTH	1.137787992	2.93E-16
APOC1	-1.388033877	8.34E-16
CD37	-1.084436395	1.32E-15
GDPD4	1.816421193	1.34E-15
MC4R	2.908477611	2.85E-15
BMX	-1.753799207	3.44E-15
ECM1	1.682847573	4.29E-15
ACSBG1	-1.582058053	4.85E-15
PTGR1	1.381973683	7.25E-15
CYP26A1	2.665986048	8.63E-15
CSF2RB	-1.013601415	2.04E-14
SLCO1A2	-2.830837346	4.02E-14
ELOVL2	1.608679166	4.95E-14
TFRC	-1.060752873	6.23E-14
G6PD	1.367706874	6.77E-14
OXCT2	1.567992931	9.97E-14
RBP4	-1.933406749	1.16E-13
TPO	1.872478409	1.35E-13
CNR1	-1.557532643	1.50E-13
PYGM	-1.139494268	2.35E-13
SEC14L4	-1.533536711	3.42E-13
ASAH2	1.068420398	3.47E-13
HNF4A	2.803243955	4.08E-13
GSR	1.005738407	1.45E-12
FMO3	-1.154264868	2.04E-12
AKR1D1	2.286999103	4.28E-12
CYP21A2	1.716791087	4.38E-12
SEC14L2	1.025788748	5.07E-12
SLC27A6	-2.425630676	6.55E-12
NR3C2	-1.051846749	7.04E-12
PTGIS	-1.239687585	1.55E-11
PLBD1	-1.070573722	1.60E-11
PON1	1.677375154	1.70E-11
ELOVL6	1.227045691	2.83E-11
CYP2E1	1.478015147	3.26E-11
NR1I2	1.79889906	3.31E-11
APOA1	-1.750161767	3.59E-11
MOGAT2	2.201255759	3.91E-11
ARSF	-1.434759101	5.19E-11
ESYT3	-1.151226531	1.13E-10
PRKAA2	1.150391327	1.34E-10
CHAT	4.24982662	1.52E-10
FABP12	-2.494039045	2.32E-10
CIDEC	2.496143611	2.48E-10
ALOX15	-2.035980683	3.37E-10
IL1B	-1.115046243	3.40E-10
CEL	1.553830068	4.09E-10
UGT1A1	3.738126153	5.20E-10
ANGPTL4	1.453617741	7.32E-10
BGLAP	1.092823153	9.19E-10
IGFBP1	2.438246558	1.06E-09
UGT1A7	3.457235258	1.79E-09
DPP4	1.264827256	1.85E-09
TM6SF2	1.056846467	1.97E-09
CYP19A1	1.162446683	2.25E-09
LPA	-1.94004253	2.43E-09
ALDOB	1.688458284	3.33E-09
TTR	2.841297396	3.83E-09
BAAT	1.797551502	5.52E-09
SLC34A1	1.641212292	6.93E-09
HAMP	1.234614089	7.39E-09
PCK1	2.837588767	9.23E-09
SLC52A1	1.113356068	1.12E-08
CBS	1.322183344	2.14E-08
DCDC2	-1.286411716	2.48E-08
ALDH3A1	1.933063909	2.56E-08
SLC12A1	-1.629092697	3.33E-08
ACSM4	1.548339997	4.55E-08
TPPA	-1.514361618	7.38E-08
CD1A	1.532879561	8.53E-08
PLA2G3	-1.498620643	9.67E-08
SLC2A2	3.867380681	1.02E-07
UCP1	-1.442009325	1.09E-07
PCSK9	-1.458161934	1.10E-07
CYP2C9	1.727886454	1.10E-07
UGT1A8	3.985981409	1.18E-07
CYP2B6	2.088182079	1.38E-07
CFTR	-1.311821257	1.56E-07
MOGAT3	2.727305201	1.56E-07
SLC16A1	1.082236135	1.59E-07
ALPL	-1.232203103	1.64E-07
MAT1A	1.417585066	1.79E-07
MTMR7	1.24277228	1.93E-07
PLA2G10	1.306505339	4.75E-07
CYP1A1	-2.578208793	5.96E-07
UGT1A3	3.456156374	9.60E-07
GCG	3.855530202	1.18E-06
KYNU	1.199383781	2.05E-06
PLA2G2D	1.14766045	3.10E-06
IFNG	1.175175153	3.14E-06
HSD17B2	1.472874989	3.84E-06
ABCB11	1.429190784	4.34E-06
DDC	1.55416769	8.54E-06
FGF21	2.732305471	1.10E-05
IAPP	2.695229819	1.19E-05
PRKAG3	-1.045563491	4.32E-05
ALOX12B	1.035704316	5.07E-05
CYP4A11	-1.141971923	9.31E-05
CASR	1.537094985	0.000119416
CYP2C19	1.840354492	0.000137457
KCNJ1	1.068293665	0.000144298
APOA4	2.661017685	0.0002471
ABCG8	1.635816025	0.000290755
ACOT12	1.55130174	0.000977276
LIPF	1.786901209	0.001718208
NR1H4	1.129694163	0.007190106
CYP4F2	1.39274321	0.009571907
APOC3	1.593549482	0.031523169
SI	1.709839907	0.032265603