

Supplementary Table 2. Differentially expressed genes for MASLD

ID	logFC	AveExpr	t	P-value	adj.P.Val	B
COL1A2	1.028978	7.73642	10.6789	9.57E-19	9.63E-15	31.66697
EFEMP1	1.207598	6.114424	10.6316	1.23E-18	9.63E-15	31.42866
THBS2	1.551017	7.57759	9.795512	1.05E-16	5.47E-13	27.21029
CD24	1.458272	8.426423	9.702115	1.72E-16	6.73E-13	26.7391
LUM	0.834473	9.252626	9.64065	2.38E-16	7.46E-13	26.4291
DKK3	0.510639	5.671973	9.171627	2.85E-15	7.44E-12	24.06762
EPCAM	1.67433	7.043575	9.065563	5.00E-15	1.12E-11	23.535
STMN2	1.127385	5.404498	9.000677	7.03E-15	1.38E-11	23.2095
BICC1	0.774994	5.557225	8.741415	2.75E-14	4.78E-11	21.91188
AQP1	1.06067	6.097355	8.634417	4.81E-14	7.53E-11	21.37795
CXCL6	1.582868	6.532468	8.592836	5.98E-14	7.99E-11	21.17074
DPT	0.95981	6.920224	8.588412	6.12E-14	7.99E-11	21.1487
C7	0.726013	9.19685	8.415492	1.51E-13	1.82E-10	20.28893
CHST9	1.156534	7.500084	8.341456	2.22E-13	2.48E-10	19.9218
EPHA3	0.518485	5.666194	8.234338	3.87E-13	4.04E-10	19.39177
GEM	1.086766	6.552004	8.11188	7.30E-13	7.14E-10	18.78762
ITGBL1	0.868695	5.284018	8.089486	8.20E-13	7.54E-10	18.67735
COL3A1	0.72769	9.836852	7.920498	1.96E-12	1.70E-09	17.84759
THOP1	-0.90958	8.45567	-7.66691	7.17E-12	5.61E-09	16.61082
CCDC146	0.741866	5.984972	7.637269	8.34E-12	6.21E-09	16.46696
COL4A1	0.552657	7.895575	7.511141	1.58E-11	1.12E-08	15.85666
MGP	0.675925	7.0862	7.408781	2.66E-11	1.73E-08	15.36362
FBLN5	0.723855	6.639448	7.377293	3.11E-11	1.95E-08	15.21237
PLCXD3	0.606717	6.012561	7.337645	3.80E-11	2.29E-08	15.02221
CCL20	1.212269	6.320883	7.204508	7.41E-11	4.14E-08	14.38614
SRPX	0.612212	9.020571	7.178914	8.42E-11	4.54E-08	14.2643
SOX9	0.995237	5.970502	7.042366	1.66E-10	8.67E-08	13.61687
PDGFD	0.577524	6.067427	6.970873	2.37E-10	1.20E-07	13.27967
FXYD2	0.691151	6.170858	6.889482	3.54E-10	1.73E-07	12.89733
COL1A1	0.733075	6.61785	6.835738	4.61E-10	2.18E-07	12.64579
AKR1B10	2.338773	7.891528	6.692599	9.28E-10	4.27E-07	11.97964
CLDN10	0.828843	6.028437	6.616431	1.34E-09	5.68E-07	11.62747
FAT1	0.803975	8.878406	6.510995	2.24E-09	8.97E-07	11.14276
C1orf198	0.550955	7.443004	6.461389	2.84E-09	1.08E-06	10.91586
DCDC2	0.766965	5.699392	6.456584	2.91E-09	1.08E-06	10.89392
SLC12A2	0.500682	7.028228	6.453549	2.95E-09	1.08E-06	10.88007
COL6A3	0.637115	8.736644	6.451844	2.97E-09	1.08E-06	10.87229
PALLD	0.509038	7.743535	6.434909	3.22E-09	1.15E-06	10.79505
ENPP2	1.136569	8.979792	6.308888	5.89E-09	1.96E-06	10.2231
LBH	0.516015	6.82141	6.253147	7.67E-09	2.31E-06	9.971754
CYP2C19	-1.47607	9.620076	-6.25271	7.68E-09	2.31E-06	9.969779

Supplementary Table 2. Continued

ID	logFC	AveExpr	t	P-value	adj.P.Val	B
CTSK	0.618101	7.441159	6.238099	8.23E-09	2.43E-06	9.904074
LHFP	0.539615	7.978782	6.154713	1.22E-08	3.26E-06	9.530424
MUM1L1	0.77784	6.511646	6.153758	1.23E-08	3.26E-06	9.526159
PPP1R1A	-0.56866	9.847101	-6.13931	1.31E-08	3.38E-06	9.461675
SPP1	0.959716	7.475876	6.119029	1.44E-08	3.58E-06	9.371249
HAAO	-0.61796	8.376027	-6.06669	1.84E-08	4.44E-06	9.138596
RASSF3	0.629221	7.153554	6.013674	2.36E-08	5.35E-06	8.903906
NTS	1.019953	6.031607	5.97478	2.83E-08	6.15E-06	8.732384
ROBO1	0.650787	6.918553	5.918097	3.68E-08	7.57E-06	8.483402
ZMAT3	0.521642	7.869262	5.905208	3.90E-08	7.83E-06	8.426954
KCNN2	-0.76481	10.19301	-5.8787	4.41E-08	8.74E-06	8.311066
GABRB3	0.611834	5.105239	5.842305	5.21E-08	1.01E-05	8.152362
AEBP1	0.644648	7.396521	5.787159	6.71E-08	1.25E-05	7.91288
RCAN2	0.731019	6.37841	5.726511	8.85E-08	1.61E-05	7.650869
CHI3L1	0.998165	6.465154	5.617075	1.45E-07	2.38E-05	7.181814
FAM129A	0.512572	6.254471	5.609416	1.50E-07	2.43E-05	7.149168
NAGS	-0.51433	7.6916	-5.60324	1.55E-07	2.47E-05	7.12285
LOXL4	0.533756	6.034231	5.551678	1.95E-07	2.99E-05	6.903858
RAMP1	-0.6762	8.766583	-5.54564	2.00E-07	3.04E-05	6.878304
GOLM1	0.510502	6.030732	5.513657	2.31E-07	3.40E-05	6.74308
ANXA2	0.515888	8.865514	5.449683	3.07E-07	4.18E-05	6.473953
WBP5	0.559342	9.683361	5.445114	3.13E-07	4.23E-05	6.454798
HSD17B14	-0.59632	6.147015	-5.29537	6.05E-07	7.40E-05	5.832163
CCL19	1.021021	6.877516	5.24548	7.52E-07	8.99E-05	5.626953
DHRS2	-1.0157	6.50465	-5.23898	7.74E-07	9.11E-05	5.600297
NEXN	0.506113	5.424502	5.186094	9.73E-07	0.000108	5.384193
GNMT	-0.91033	10.71144	-5.14268	1.17E-06	0.000125	5.207767
IGFALS	-0.62169	8.598277	-5.08801	1.48E-06	0.000148	4.986867
PKD2	-0.65525	9.565386	-5.06239	1.65E-06	0.000161	4.883871
FAM150B	0.659355	5.578773	5.056269	1.70E-06	0.000163	4.859286
GJA1	0.54167	8.1901	4.949452	2.67E-06	0.000227	4.433551
CHST4	0.590496	6.070469	4.898597	3.30E-06	0.000274	4.23286
FAM3B	0.657322	5.2886	4.837275	4.27E-06	0.000329	3.992612
ACSM3	-0.54418	8.628012	-4.83334	4.34E-06	0.000331	3.977266
TRIM22	0.535453	9.856706	4.778115	5.45E-06	0.000395	3.762681
OAT	-0.69333	11.56744	-4.77459	5.53E-06	0.000396	3.749033
MT1M	-1.051	10.94309	-4.72933	6.66E-06	0.000461	3.574467
PCOLCE2	-0.60668	9.407697	-4.63065	9.95E-06	0.000626	3.197601
SLC44A3	0.653497	6.915839	4.629478	1.00E-05	0.000626	3.193153
IL32	0.761777	9.828125	4.508919	1.62E-05	0.000908	2.740052

Supplementary Table 2. Continued

ID	logFC	AveExpr	t	P-value	adj.P.Val	B
ELOVL7	0.506556	5.1777	4.459269	1.98E-05	0.001048	2.555814
CXCL9	0.89153	7.891012	4.452874	2.03E-05	0.001068	2.532184
MT1H	-0.60866	13.0193	-4.42665	2.25E-05	0.001147	2.435524
FMO1	0.810162	6.590128	4.397283	2.52E-05	0.001257	2.327769
C12orf5	0.583613	7.482555	4.344551	3.10E-05	0.001465	2.135519
FABP4	0.812801	6.657287	4.343486	3.11E-05	0.001466	2.131654
PTGDS	0.654656	6.962299	4.314068	3.49E-05	0.001629	2.025127
FAM151A	-0.95573	6.987282	-4.29685	3.73E-05	0.001731	1.963024
CNDP1	-0.65219	10.95904	-4.29437	3.76E-05	0.001733	1.954087
EFHD1	-0.8238	7.636143	-4.19622	5.48E-05	0.002307	1.60352
RRM2	0.665087	6.463334	4.1896	5.62E-05	0.002344	1.580096
LPL	0.700866	5.58635	4.1549	6.42E-05	0.002601	1.457693
CXCL10	0.757536	9.747718	4.095819	8.01E-05	0.003029	1.250982
MT1F	-0.56359	12.96868	-4.02775	0.000103	0.003724	1.015506
UBE2Q2	0.510556	8.733244	3.97159	0.000127	0.00439	0.823431
FCAMR	0.66587	7.371018	3.921202	0.000153	0.004992	0.652803
TRIM55	-0.54641	7.580682	-3.90215	0.000164	0.005219	0.588724
FREM2	0.777198	7.34503	3.524269	0.000618	0.014048	-0.63273
TMEM154	0.587643	9.478369	3.467012	0.000749	0.016398	-0.80928
GPNMB	0.542197	8.20525	3.429655	0.000849	0.018073	-0.92323
FABP5	0.711738	8.42374	3.153807	0.002073	0.034726	-1.73345
SELM	0.521579	7.07857	3.149358	0.002102	0.035027	-1.74606
CRYAB	0.531648	6.032765	3.128015	0.002247	0.036705	-1.80634
CETP	-0.54243	8.526739	-3.08835	0.002542	0.040142	-1.91748
CPE	0.553213	8.13864	3.044305	0.002912	0.044363	-2.03947