

Supplementary Table 1. Identified genetic variants associated with NAFLD through GWAS

SNP	Location	P-value	RAF	Mapped genes	Reference
rs894177	3:143175569	3.00E-06	0.34	<i>AC018450.1,</i> <i>PBX2P1</i>	
rs1529093	2:177044867	2.00E-06	0.41	<i>AC074286.1</i>	
rs2645424	8:11826954	7.00E-07	0.4	<i>FDFT1</i>	
rs343064	7:35515178	3.00E-08	0.4	<i>AC007652.1,</i> <i>AC018647.3</i>	
rs1305088	13:28704313	9.00E-06	0.06	<i>SLC46A3</i>	
rs11669592	19:3318512	4.00E-06	0.45	<i>NFIC</i>	
rs6027755	20:60693652	6.00E-06	0.39	<i>AL117372.1,</i> <i>MIR646HG</i>	
rs2800	3:143705980	3.00E-06	0.34	<i>SLC9A9</i>	
rs959903	4:25808474	7.00E-06	0.29	<i>SEL1L3</i>	
rs1836127	12:93156525	3.00E-06	0.42	<i>AC138123.1</i>	
rs2358462	4:148649528	4.00E-06	0.44	<i>AC002460.2</i>	
rs9977253	21:25272769	5.00E-06	0.33	<i>AP001341.1</i>	
rs10510146	10:125607576	7.00E-06	0.13	<i>TEX36</i>	
rs643608	21:43348682	1.00E-06	0.38	<i>LINC01679,</i> <i>LINC00322</i>	
rs4243849	8:135700894	2.00E-06	0.52	<i>RNU1-35P,</i> <i>KHDRBS3</i>	
rs6079395	20:14347253	7.00E-06	0.49	<i>MACROD2</i>	
rs2216228	12:22212901	4.00E-06	0.18	<i>ST8SIA1</i>	Chalasan et al. ^[1]
rs1227756	10:69828748	2.00E-07	0.46	<i>COL13A1</i>	
rs7632299	3:143337625	4.00E-06	0.17	<i>SLC9A9</i>	
rs10954668	7:82218335	7.00E-06	0.33	<i>CACNA2D1</i>	
rs4237591	11:98595538	2.00E-06	0.35	<i>AP003715.1,</i> <i>AP003038.1</i>	
rs6591182	11:65582285	9.00E-07	0.47	<i>EHP1L1</i>	
rs9584805	13:98341776	2.00E-06	0.35	<i>FARP1</i>	
rs887304	12:3648382	8.00E-07	0.31	<i>CRACR2A</i>	
rs11083271	18:28346095	8.00E-06	0.34	<i>CDH2,</i> <i>AC090365.1</i>	
rs2986971	10:29807699	3.00E-06	0.48	<i>AL353093.1,</i> <i>SVIL</i>	
rs10067427	5:100006343	5.00E-06	0.3	<i>AC113407.1,</i> <i>EEF1A1P20</i>	
rs7077164	10:69823442	7.00E-06	0.3	<i>COL13A1</i>	
rs6487679	12:9218736	1.00E-06	0.16	<i>PZP, A2MP1</i>	
rs2710833	4:168488807	6.00E-07	0.17	<i>DDX60L</i>	
rs1414896	1:95226754	2.00E-06	0.4	<i>AC092802.2,</i> <i>TLCD4-RWDD3</i>	
rs2499604	1:237940201	2.00E-06	0.44	<i>AL590396.3,</i> <i>AL359924.1</i>	
rs2049953	6:134817852	4.00E-06	0.3	<i>AL021939.1,</i> <i>AL121970.1</i>	
rs12344488	9:75811009	5.00E-06	0.07	<i>OTX2P1, PCSK5</i>	
rs11206226	1:53854664	5.00E-06	0.848	<i>YIPF1</i>	
rs1390096	4:11501980	3.00E-06	0.372	<i>AC025539.1,</i> <i>AC005699.1</i>	Kawaguchi et al. ^[2]
rs2073080	22:43998522	8.00E-07	0.458	<i>SAMM50</i>	
rs7324845	13:46129007	3.00E-06	0.096	<i>LCPI, CPB2- ASI</i>	Adams et al. ^[3]

rs11864146	16:84013110	2.00E-06	0.1	<i>SLC38A8</i>	
rs12743824	1:99317401	5.00E-06	0.441	<i>AL365220.1,</i> <i>PLPPR4</i>	
rs222054	4:71738582	1.00E-06	0.301	<i>GC, SLC4A4</i>	
rs6691847	1:29792805	7.00E-06	0.77	<i>AL645944.2,</i> <i>AL645944.1</i>	
rs7552722	1:115378734	7.00E-06	0.32	<i>NGF-AS1,</i> <i>AL512638.1</i>	Kitamoto et al. ^[4]
rs2051090	13:35880056	7.00E-06	0.81	<i>DCLK1</i>	
rs6128907	20:38759219	1.00E-06	0.2067	<i>ACTR5</i>	
rs3935794	11:128520782	4.00E-06	0.0625	<i>ETS1</i>	
rs688020	7:4188921	6.00E-06	0.2428	<i>SDK1</i>	
rs11465670	2:102417980	8.00E-06	0.04327	<i>IL18RAP,</i> <i>SDR42EIP5</i>	Wattacheril et al. ^[5]
rs12942311	17:74714657	9.00E-06	0.2212	<i>RAB37</i>	
rs6571631	14:21063674	7.00E-06	NR	<i>NDRG2</i>	
rs6660749	1:34349852	8.00E-06	NR	<i>AC115286.1,</i> <i>AC099565.1</i>	
rs780094	2:27518370	2.00E-08	0.57	<i>GCKR</i>	
rs1881396	2:27621734	1.00E-06	0.71	<i>ZNF512,</i> <i>AC074091.2</i>	
rs2668423	19:1370527	1.00E-06	0.33	<i>PWWP3A</i>	
rs738491	22:43958231	1.00E-18	0.52	<i>SAMM50,</i> <i>PNPLA3</i>	Kawaguchi et al. ^[6]
rs1260326	2:27508073	1.00E-09	0.57	<i>GCKR</i>	
rs4808199	19:19434290	2.00E-08	0.27	<i>GATAD2A</i>	
rs2896019	22:43937814	2.00E-08	0.46		
rs17007417	2:71808541	5.00E-07	0.17	<i>DYSF,</i> <i>RPS20P10</i>	
rs2143571	22:43995806	9.00E-07	0.43	<i>SAMM50</i>	
rs525798	1:36775285	6.00E-06	0.248839	<i>AC117945.1</i>	
rs4657180	1:162277948	8.00E-06	0.111885	<i>NOSIAP</i>	
rs17766890	1:231813586	5.00E-06	0.059424	<i>TSNAX-DISCI,</i> <i>AL136171.2,</i> <i>DISCI</i>	
rs6531223	2:20188754	5.00E-06	0.406685	<i>SDC1, RNU6-</i> <i>961P</i>	
rs206833	2:31485750	3.00E-07	0.165738	<i>SRD5A2, XDH</i>	
rs1522976	3:34886781	6.00E-06	0.02182	<i>FECHP1,</i> <i>KRT8P18</i>	
rs187099436	3:34996590	2.00E-06	0.019499	<i>KRT8P18,</i> <i>FECHP1</i>	
rs4490355	3:64713038	9.00E-06	0.188487	<i>ADAMTS9-AS2</i>	
rs116262938	4:8459094	9.00E-06	0.038997	<i>TRMT44</i>	Namjou et al. ^[7]
rs115634042	5:175302814	4.00E-06	0.023213	<i>ARL2BPP6,</i> <i>DRD1</i>	
rs149021062	6:74969709	3.00E-06	0.014392	<i>COL12A1,</i> <i>AL356473.1</i>	
rs76468848	6:115826807	2.00E-06	0.100743	<i>FRK,</i> <i>LINC02534</i>	
rs11976006	7:28691895	1.00E-06	0.017642	<i>CREB5</i>	
rs2214354	7:83290053	9.00E-06	0.333333	<i>PCLO,</i> <i>AC079799.1</i>	
rs12231559	12:31964013	6.00E-06	0.206128	<i>RESF1</i>	
rs1310679	12:90375351	9.00E-06	0.503714	<i>LINC02392,</i> <i>LINC02822</i>	
rs11117487	16:86387664	6.00E-06	0.157846	<i>LINC00917,</i>	

rs16997877	20:16552517	8.00E-06	0.247447	<i>AC092327.1</i>
rs2294915	22:43945024	4.00E-07	0.341226	<i>KIF16B</i>
rs112852859	1:241921127	7.00E-06	0.133613	<i>PNPLA3</i>
rs62141163	2:31440248	2.00E-07	0.106145	<i>RPL23AP20,</i>
rs2138497	2:235710411	5.00E-06	0.414804	<i>BECN2</i>
rs78897411	3:4033670	7.00E-06	0.033054	<i>SRD5A2, XDH</i>
rs4956410	4:141766642	8.00E-06	0.074488	<i>AGAPI</i>
rs75282487	5:83003611	2.00E-06	0.047021	<i>AC023480.1,</i>
rs155960	5:96463997	4.00E-06	0.468343	<i>SUMF1</i>
rs72791070	5:133812603	3.00E-06	0.08473	<i>IL15, INPP4B</i>
rs744689	6:33884727	3.00E-06	0.235102	<i>AC027338.1,</i>
rs509342	6:136160253	9.00E-06	0.363128	<i>ST13P12</i>
rs10272006	7:21480514	6.00E-09	0.331937	<i>AC104123.1</i>
rs55827704	7:135291519	9.00E-06	0.054935	<i>WSPAR,</i>
rs2195588	8:40499181	5.00E-06	0.113128	<i>AC005178.1</i>
rs139271658	9:9797383	2.00E-07	0.025605	<i>LINC01016</i>
rs11820744	11:3147308	2.00E-07	0.227188	<i>AL138828.1,</i>
rs1481412	14:84783214	3.00E-06	0.254655	<i>PDE7B</i>
rs569963	1:76717334	8.00E-06	0.104283	<i>SP4</i>
rs6936723	6:155990370	8.00E-06	0.572646	<i>AC009542.2</i>
rs2980888	8:125495066	6.00E-07	0.311977	<i>AC105999.1,</i>
rs28946269	2:113011237	9.00E-06	0.061228	<i>AC010857.1</i>
rs117542855	11:1635713	2.00E-07	0.043505	<i>PTPRD</i>
rs113180498	2:62023103	4.00E-06	0.030846	<i>OSBPL5</i>
rs4439433	10:130872184	8.00E-06	0.029245	<i>RNU6-976P,</i>
rs112845472	10:15265098	7.00E-06	0.025628	<i>AL163642.1</i>
rs71413689	2:150398953	1.00E-06	0.024801	<i>TPIIPI, RNU6-</i>
rs61951392	13:64417489	8.00E-06	0.012349	<i>161P</i>
rs61950023	13:64591706	2.00E-06	0.013279	<i>AL589693.1</i>
rs913295	10:14664455	3.00E-06	0.731735	<i>AC091114.1</i>
rs72996252	18:78034265	9.00E-06	0.097344	<i>AC091114.1</i>
rs56408111	19:19682736	5.00E-06	0.08391	<i>IL36A, IL36B</i>
rs45607632	10:15371761	5.00E-06	0.02754	<i>KRTAP5-5,</i>
rs61951503	13:64298255	5.00E-06	0.012246	<i>AP006285.1</i>
rs34057381	5:166233635	9.00E-06	0.329004	<i>COMMD1</i>
rs11794552	9:131344938	1.00E-06	0.192641	<i>AC016816.1,</i>
rs2651424	15:32224426	8.00E-06	0.222944	<i>MIR378C</i>
rs6499186	16:68626662	7.00E-10	0.231602	<i>FAM171A1</i>
				<i>LINC01818,</i>
				<i>RND3</i>
				<i>LGMNP1,</i>
				<i>LINC00355</i>
				<i>LINC00355,</i>
				<i>LGMNP1</i>
				<i>FAM107B</i>
				<i>LINC01029,</i>
				<i>RNU6-655P</i>
				<i>ZNF101</i>
				<i>FAM171A1,</i>
				<i>ITGA8</i>
				<i>LGMNP1,</i>
				<i>LINC00355</i>
				<i>AC114321.1,</i>
				<i>AC026403.1</i>
				<i>PLPP7</i>
				<i>AC139426.3,</i>
				<i>AC068448.2</i>
				<i>AC126773.1,</i>

rs149074870	19:41100315	2.00E-06	0.047619	<i>AC126773.6</i> <i>CYP2A13,</i> <i>CYP2F1</i>	
rs72943235	2:88201127	8.00E-08	0.012987	<i>MRPL45P1,</i> <i>THNSL2</i>	
rs859472	1:175418543	5.00E-06	0.417749	<i>TNR</i>	
rs12373751	2:212072166	1.00E-06	0.205628	<i>ERBB4</i>	
rs59531931	3:183482214	3.00E-06	0.116883	<i>AC092960.3,</i> <i>KLHL6</i>	
rs13132061	4:7742857	2.00E-06	0.212121	<i>SORCS2,</i> <i>AFAP1-AS1</i>	
rs497408	6:23993395	1.00E-07	0.11039	<i>AL032822.1,</i> <i>HNRNPA1P58</i>	
rs6972194	7:125916439	9.00E-06	0.313853	<i>AC003975.1,</i> <i>POT1-AS1</i>	
rs72680117	8:96432556	8.00E-06	0.493506	<i>SDC2, RNU6-</i> <i>1172P</i>	
rs34637163	12:102997486	8.00E-06	0.132035	<i>AC026108.2,</i> <i>ASCL1</i>	
rs1953124	13:65771915	4.00E-07	0.255411	<i>HNRNPA3P5,</i> <i>STARP1</i>	
rs4904585	14:89480165	9.00E-06	0.158009	<i>AL137230.3,</i> <i>FOXN3</i>	
rs698718	16:68526282	3.00E-11	0.225108	<i>ZFP90,</i> <i>RPL35AP33</i>	
rs2188761	16:20498374 22:43928847	7.00E-06	NR	<i>AC137056.2 -</i> <i>ACSM2B x</i> <i>PNPLA3</i>	
rs6718351	2:35112204	5.00E-06	NR	<i>AC012593.1</i>	
rs73138351	3:99440397	5.00E-06	NR	<i>AC107297.1,</i> <i>AC078828.1</i>	
rs75508464	1:21962163	6.00E-07	NR	<i>AL590556.2,</i> <i>CELA3B</i>	Gawrieh et al. ^[8]
rs118086828	6:111720429	9.00E-07	NR	<i>FYN</i>	
rs4969304	17:80918247	5.00E-06	NR	<i>RPTOR</i>	
rs2959341	15:37948114	6.00E-06	NR	<i>TMCO5A</i>	
rs1379650	11:22013323	2.00E-06	NR	<i>ANOS,</i> <i>AC116534.1</i>	
rs58542926	19:19268740	6.00E-08	NR	<i>AC138430.1,</i> <i>TM6SF2</i>	Kozlitina et al. ^[9]
rs2076529	6:32396178	2.00E-07	NR	<i>BTNL2, TSBP1-</i> <i>AS1</i>	
rs2189883	7:147991795	4.00E-07	NR	<i>CNTNAP2</i>	Yoshida et al. ^[10]
rs2301610	12:110915752	8.00E-07	NR	<i>MYL2</i>	
rs66781047	13:94367384	1.00E-06	NR	<i>GPC6</i>	
rs10827317	10:33972178	5.00E-07	NR	<i>LINC02629,</i> <i>PARD3</i>	
rs58778359	10:33972351	6.00E-07	NR	<i>LINC02629,</i> <i>PARD3</i>	
rs386734729	9:68729886	3.00E-07	NR	<i>PIP5K1B</i>	Park et al. ^[11]
rs6086536	20:8610549	8.00E-07	NR	<i>PLCB1</i>	
rs10797551	1:234512408	9.00E-07	NR	<i>LINC01354,</i> <i>TARBP1</i>	
rs78276535	6:69829026	9.00E-07	NR	<i>LMBRD1</i>	
rs77249491	6:69829361	7.00E-07	NR	<i>LMBRD1</i>	

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