

Appendix 4. All SNPs tested in replication cohort with p-values and frequencies for discovery and replication data, and direction of effect for the quantitative traits. Grey cells highlight known genes and significant replication results.

Phenotype	SNP	Location	gene	A1, freq discovery cases, controls, A2/Qtrait mean direction	A1, freq replication cases, controls, A2/Qtrait mean direction	discovery P	replication p	Same direction
POAG	rs12025734	chr1:10687676 7	NA	A 0.1434 0.0984 G	A 0.1164 0.07 G	6.17E-05	0.170	yes
POAG	rs12142514	chr1:20338915 2	<i>RIPK5</i>	A 0.2811 0.3557 G	A 0.3259 0.37 G	2.68E-05	0.387	yes
POAG	rs10495246	chr1:22489310 7	<i>ITPKB</i>	A 0.1597 0.1044 C	A 0.1003 0.12 C	1.93E-06	0.550	no
POAG	rs4850927	chr2:10033549 9	NA	G 0.4044 0.4854 A	G 0.4471 0.5 A	1.32E-05	0.326	yes
POAG	rs7559008	chr2:19767889 9	<i>ANKRD44</i>	C 0.09302 0.05457 T	C 0.07877 0.04082 T	8.56E-06	0.182	yes
POAG	rs3772601	chr3:15003744 9	<i>CPB1</i>	C 0.113 0.06888 T	C 0.06803 0.08 T	4.67E-06	0.664	no
POAG	rs13119672	chr4:23593561	NA	T 0.2005 0.1473 C	T 0.1553 0.14 C	6.92E-05	0.695	yes
POAG	rs10019658	chr4:34101343	NA	G 0.1329 0.08143 A	G 0.09898 0.1224 A	8.59E-07	0.478	no
POAG	rs9998097	chr4:14694177 4	<i>ZNF827</i>	T 0.2578 0.3417 C	T 0.3253 0.2708 C	1.87E-06	0.288	no
POAG	rs12657171	chr5:58326965	<i>PDE4D</i>	T 0.111 0.06667 C	T 0.06529 0.06122 C	3.26E-06	0.880	yes
POAG	rs10058739	chr5:14405455 8	NA	A 0.1217 0.07423 G	A 0.09556 0.09 G	2.06E-06	0.861	yes
POAG	rs11961171	chr6:11384014	<i>NEDD9</i>	A 0.1158 0.05332 G	A 0.04762 0.06 G	8.55E-13	0.597	no
POAG	rs967473	chr6:11437409	NA	A 0.1899 0.1407 G	A 0.1382 0.15 G	0.000167	0.754	no
POAG	rs9366868	chr6:11811486	NA	A 0.3329 0.4098 G	A 0.4041 0.49 G	2.59E-05	0.107	yes
POAG	rs4715889	chr6:14465995	NA	A 0.2663 0.1991 T	A 0.1928 0.23 T	8.17E-06	0.389	no

POAG	rs11754426	chr6:80165862	NA	C 0.294 0.2246 T	C 0.2079 0.1735 T	9.29E-06	0.433	yes
POAG	rs7010270	chr8:9594257	TNKS	G 0.3164 0.2407 A	G 0.2534 0.3 A	2.5E-06	0.327	no
POAG	rs10905663	chr10:1018499 6	NA	T 0.1283 0.08115 G	T 0.07338 0.08 G	6.41E-06	0.816	no
POAG	rs11238892	chr10:4399120 0	NA	T 0.1545 0.1008 C	T 0.07021 0.08163 C	2.48E-06	0.685	no
POAG	rs10878333	chr12:6445335 2	NA	G 0.1305 0.08662 A	G 0.06633 0.08163 A	3.65E-05	0.579	no
POAG	rs9323567	chr14:7180510 0	RGS6	T 0.1159 0.07091 C	T 0.06357 0.06 C	4.17E-06	0.892	yes
POAG	rs9963326	chr18:2378672 1	CDH2	A 0.1055 0.06248 G	A 0.06336 0.1 G	3.21E-06	0.181	no
HTG	rs10881403	chr1:10679160 6	NA	A 0.2104 0.1501 T	A 0.1652 0.1327 T	4.24E-05	0.423	yes
HTG	rs12045753	chr1:10685837 0	NA	A 0.1568 0.0981 G	A 0.1135 0.07 G	1.62E-06	0.200	yes
HTG	rs12024651	chr1:10720645 4	NA	A 0.1708 0.1123 G	A 0.1482 0.1531 G	6.36E-06	0.903	no
HTG	rs2048047	chr2:28212485	BRE	T 0.323 0.2584 C	T 0.2802 0.27 C	0.000296	0.837	yes
HTG	rs6711937	chr2:28350780	BRE	T 0.2547 0.1906 C	T 0.2074 0.25 C	6.78E-05	0.348	no
HTG	rs17024784	chr2:40079993	LOC100128 590	G 0.1324 0.08694 T	G 0.08836 0.06 T	8.89E-05	0.352	yes
HTG	rs2082876	chr2:45622674	SRBD1	C 0.5358 0.453 A	C 0.4828 0.53 A	4.28E-05	0.392	no
HTG	rs12053126	chr2:10023107 8	NA	A 0.3075 0.3844 T	A 0.3531 0.3776 T	9.28E-05	0.646	yes
HTG	rs7614727	chr3:52270935	WDR82	C 0.5807 0.4944 T	T 0.4891 0.44 C	2.08E-05	0.373	yes
HTG	rs12500214	chr4:23494666	PPARGC1A	A 0.1537 0.2333 G	A 0.2167 0.2959 G	0.000003	0.091	yes
HTG	rs2617104	chr8:4455196	CSMD1	C 0.3012 0.378 G	C 0.4091 0.35 G	9.15E-05	0.274	no
HTG	rs730243	chr8:17072462	ZDHHC2	A 0.1894 0.1333 C	A 0.1422 0.1122 C	5.56E-05	0.433	yes

HTG	rs10811624	chr9:21802720	<i>MTAP</i>	T 0.09938 0.05974 C	T 0.06278 0.04082 C	5.08E-05	0.403	yes
HTG	rs4237260	chr9:7593123 6	NA	C 0.3199 0.233 G	C 0.206 0.35 G	4.98E-07	0.002	no
HTG	rs4749995	chr10:1091441 4	NA	A 0.3711 0.459 G	A 0.4634 0.49 G	1.36E-05	0.628	yes
HTG	rs17678511	chr10:5467033 8	NA	T 0.1916 0.1314 C	T 0.1223 0.16 C	1.42E-05	0.308	no
HTG	rs4130354	chr11:7608961	<i>PPFIBP2</i>	A 0.5481 0.465 T	A 0.4678 0.4184 T	4.06E-05	0.372	yes
HTG	rs544656	chr11:9561557 3	<i>MAML2</i>	T 0.2038 0.2766 G	T 0.2576 0.31 G	5.97E-05	0.284	yes
HTG	rs17675800	chr13:9562421 4	<i>HS6ST3</i>	A 0.1755 0.1226 C	A 0.1217 0.08 C	8.36E-05	0.234	yes
HTG	rs879823	chr14:7385226 8	NA	G 0.1682 0.107 A	G 0.1288 0.13 A	1.52E-06	0.973	no
HTG	rs722939	chr16:8222172 7	<i>CDH13</i>	G 0.1739 0.1211 A	G 0.1061 0.12 A	7.83E-05	0.685	no
HTG	rs11664741	chr18:4538846 3	NA	T 0.3307 0.2473 G	T 0.2749 0.2 G	2.13E-06	0.122	yes
HTG	rs5746779	chr22:1793847 5	NA	A 0.5779 0.4859 G	G 0.4742 0.5204 A	5.88E-06	0.406	no
NTG	rs7785999	chr7:3242778 7	NA	A 0.2692 0.1467 C	A 0.09483 0.1939 C	9.22E-05	0.029	no
NTG	rs9299077	chr9:8914197	<i>PTPRD</i>	C 0.6 0.3977 T	C 0.4397 0.37 T	2.88E-06	0.395	yes
NTG	rs2775264	chr9:20593364	<i>MLLT3</i>	T 0.6923 0.4963 C	T 0.4737 0.5 C	8.84E-06	0.624	no
NTG	rs17831954	chr9:20656605	<i>KIAA1797</i>	T 0.3308 0.1803 C	T 0.1897 0.23 C	9.99E-06	0.448	no
NTG	rs3217992	chr9:21993223	<i>CDKN2B</i>	T 0.5615 0.3618 C	T 0.4138 0.2959 C	2.55E-06	0.080	yes
NTG	rs11607128	chr11:2776130 1	NA	C 0.4154 0.2605 A	C 0.2586 0.26 A	0.000066	0.969	no
NTG	rs1949876	chr11:2793745 7	NA	T 0.3538 0.1935 A	T 0.2368 0.16 A	4.62E-06	0.135	yes

NTG	rs10143202	chr14:6019469 3	NA	A 0.1615 0.06704 G	A 0.05172 0.07 G	2.15E-05	0.511	no
avCCT	rs17128941	chr14:927548 50	<i>C14orf130</i>	T->C increasing CCT	T->C increasing CCT	5.52E-06	0.027	yes
avCDR	rs9871763	chr3:62452739	<i>CADPS</i>	A->C increasing CDR	A->C decreasing CDR	3.34E-06	0.497	no
avCDR	rs13206195	chr6:83647610	NA	T->C increasing CDR	T->C increasing CDR	9.6E-07	0.260	yes
avCDR	rs6558527	chr8:1690318	NA	T->G decreasing CDR	T->G decreasing CDR	2.25E-05	0.666	yes
avCDR	rs4385494	chr8:1369192 36	NA	T->G increasing CDR	T->G increasing CDR	4.51E-05	0.029	yes
avCDR	rs12595471	chr15:9685537 7	<i>FLJ39743</i>	T->C increasing CDR	T->C decreased CDR in HET	2.46E-05	0.907	no
w_CDR	rs519282	chr1:65259671	NA	G->T increasing CDR	G->T increased in HET	5.95E-06	0.534	no
w_CDR	rs11128846	chr3:1827768	NA	T->C decreased in HET	T->C increased in HET	4.18E-05	0.696	yes
w_CDR	rs11130888	chr3:62537749	<i>CADPS</i>	T->C increasing CDR	T->C increased in HET	6.96E-07	0.603	no
w_CDR	rs9816781	chr3:72299888	NA	A->G increasing CDR	A->G decreasing CDR	6.08E-06	0.335	no
w_CDR	rs16886018	chr5:56013808	NA	A->C increasing CDR	A->C increased in HET	7.12E-07	0.302	no
w_CDR	rs12110276	chr5:11711644 3	NA	A->C increasing CDR	A->C decreased in HET	5.26E-05	0.507	no
w_CDR	rs4946483	chr6:12079240 8	NA	T->C increasing CDR	T->C increasing CDR	1.57E-05	0.194	yes
w_CDR	rs2842960	chr6:16003331 1	<i>SOD2</i>	T->C increasing CDR	C->T increased in HET	6.42E-05	0.656	no
w_CDR	rs12532121	chr7:15807834 5	NA	A->G decreased in HET	A->G increased in HET	0.000155	0.761	no
w_CDR	rs7389781	chr9:35563942	NA	T->A increasing CDR	T->A decreased in HET	5.23E-07	0.626	no
w_CDR	rs9802671	chr9:86787647	<i>NTRK2</i>	A->C decreasing CDR	A->C decreasing CDR	0.000733	0.523	yes
w_CDR	rs4239252	chr17:3118767 8	<i>TAF15</i>	A->G decreased in HET	A->G increased in HET	2.46E-05	0.793	no

w_IOP	rs1002363	chr4:37033954	<i>KIAA1239</i>	G->A decreasing IOP	G->A increased in HET	6.98E-05	0.670	no
w_IOP	rs17084542	chr4:55188936	NA	A->G decreasing IOP	A->G increasing IOP	6.63E-05	0.104	no
w_IOP	rs13130399	chr4:16468627 4	<i>36951</i>	T->C increasing IOP	T->C decreased in HET	0.000426	0.711	no
w_IOP	rs13123027	chr4:16478030 1	NA	T->C increasing IOP	T->C increasing IOP	0.000169	0.196	yes
w_IOP	rs11952923	chr5:82159283	NA	G->C increasing IOP	G->C decreased in HET	3.22E-06	0.559	no
w_IOP	rs9375768	chr6:13113921 1	NA	G->T decreased in HET	G->T decreased in HET	3.49E-06	0.686	yes
w_IOP	rs1020516	chr7:33570546	<i>BBS9</i>	T->C decreasing IOP	T->C decreased in HET	8.07E-05	0.728	no
w_IOP	rs4076505	chr7:13103054 8	NA	T->C decreasing IOP	T->C increased in HET	3.65E-06	0.414	no
w_IOP	rs6990379	chr8:52878690	<i>PXDNL</i>	G->A increasing IOP	G->A increased in HET	8.39E-05	0.786	no
w_IOP	rs10795783	chr10:1034395 3	NA	A->C increased in HET	A->C decreasing IOP (rare HOM not seen)	6.03E-05	0.402	yes
w_IOP	rs7296999	chr12:5560747 9	<i>SDR-O</i>	T->C decreasing IOP	T->C increased in HET	1.63E-07	0.983	no
w_IOP	rs4492904	chr12:6966781 5	NA	A->C decreasing IOP	A->C increased in HET	1.83E-07	0.893	no
w_IOP	rs915848	chr21:4292653 5	NA	C->T decreasing IOP	C->T decreased in HET	0.000773	0.976	no
avMaxIOP	rs17084534	chr4:55490810	NA	T->C decreasing IOP	T->C increasing IOP	0.000104	0.101	no
avMaxIOP	rs7797152	chr7:13832802 1	NA	T->C decreasing IOP	T->C decreasing IOP	2.23E-06	0.558	yes