Phenotype	Common Between Genotype Data and GWAS catalog	Common Beween Identified by Machine/Deep Learning and GWAS catalog	ActualSNPs	MappedGene	Location
ADHD	42	13	[rs1822881, rs6990255, rs8321, rs12613775, rs7580488, rs11801229, rs609412, rs703970, rs3896224, rs874426, rs2241685, rs704061, rs4129585]	[PPP2R2B, DUSP6, CUL3, MYT1L, TEX41, PPP1R3B, LRRN2, TSNARE1, CCDC195, SORCS3, POC1B, POLR1H, NAV2, ZMIZ1, RPL6P5, RPL10AP3, LINC01965]	[10:104708095, 2:145286484, 10:79193379, 12:89378126, 8:34269430, 2:103964045, 8:142231572, 6:30064745, 1:204645347, 5:146845681, 11:19548016, 2:224608546, 2:1922221]
Allergicrhinitis	16	3	[rs1143633, rs17133587, rs868688]	[AKR1E2, PRDM16, IL1B, LINC00705]	[10:4766883, 2:112832890, 1:3384243]
Asthma	408	1	[rs868150]	[MED24]	[17:40057106]
Bipolardisorder	66	9	[rs12325410, rs7565792, rs7799006, rs12871532, rs2287921, rs7570682, rs7042161, rs1064395, rs7795096]	[MRM2, RNA5SP404, FOXN2, PPP1R21-DT, RNA5SP403, AHCYP3, PRKAG2, TCF23, SVEP1, NCAN, "-", RASIP1]	[16:9581389, 19:48725015, 2:104366809, 19:19250926, 9:110434983, 13:108016199, 2:48422566, 7:2238591, 7:151849504]
Cholesterol	130	31	[rs485186, rs9923854, rs334558, rs9312517, rs579459, rs1043879, rs3784924, rs518076, rs2844795, rs646776, rs1801701, rs1367117, rs12976464, rs803073, rs4299376, rs6495122, rs2075650, rs4253772, rs445, rs5883, rs1564348, rs983309, rs602662, rs261332, rs12984266, rs1800588, rs874628, rs10903129, rs6859, rs10421247, rs4574573]	[CETP, GIPR, RNU6-1151P, CELSR2, ULK3, RN7SL836P, GSK3B, LINC02117, CPLX3, APOB, CUX1, RNU6-526P, TRIM31-AS1, TOMM40, NKPD1, ABCG8, NECTIN2, CEACAM16-AS1, LIPC, SPOCK3, MPV17L2, LIPC-AS1, ALDH1A2, FUT2, GDNF-AS1, SH2B2, MARK4, TRIM31, MACO1, SLC22A1, CDK6, PPARA, LITAF, Y_RNA, GNAI3, RSRP1, ABO, PSRC1]	[19:45154228, 2:43845437, 6:160157828, 4:167218229, 19:48703949, 1:25243590, 19:44878777, 16:56983090, 7:102284988, 15:74833304, 2:21041028, 19:48703728, 1:109566417, 19:44892362, 22:46231706, 1:25442446, 9:133278724, 16:11550986, 6:30106070, 5:37915618, 19:45659141, 16:56973441, 8:9320222, 1:109275908, 3:120094435, 7:92779056, 19:18193890, 19:44690262, 15:58431476, 2:21005955, 15:58435126]
Cravessugar	2	0	[]	[]	[]

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Dentaldecay	24	2	[rs1065489, rs2875517]	[CFH, PCDH9]	[1:196740644, 13:67122013]
Depression	82	24	[rs10832000, rs9943849, rs10250997, rs6778080, rs7597593, rs389883, rs9834970, rs7647854, rs3762096, rs13098181, rs7174755, rs9747992, rs4772087, rs703970, rs7940164, rs7713917, rs12325410, rs7004633, rs9848399, rs10503253, rs1568452, rs4741652, rs7617480, rs9601248]	[EHHADH-AS1, TLL2, LINC01977, SNX4, ZMIZ1, LINC01068, USP4, VRK2, "-", DRD2, CSMD1, RNA5SP404, TMPRSS5, RN7SL592P, C3orf70, HSPD1P6, ITGA11, ZNF804A, C3orf49, RNA5SP403, CPM, STK19, ZP3P2, KLHDC8B, ARNTL, STK24, ACTG1P22, SMARCA2, CBX4, SNTN, Y_RNA, LINC02033, HOMER1]	[13:79594869, 17:79831041, 11:13228852, 15:68304789, 5:79533426, 3:63763729, 2:57785698, 7:136461788, 10:96376493, 3:36814539, 8:4323322, 3:185158995, 2:184668853, 9:2194227, 3:125486262, 8:88748082, 6:31979683, 11:113581043, 12:68976976, 3:49279905, 3:49173299, 16:9581389, 10:79193379, 13:98462787]
DiagnosedVitaminDdeficiency	4	1	[rs1532085]	[ALDH1A2]	[15:58391167]
DiagnosedwithSleepApnea	6	1	[rs1815739]	[ACTN3]	[11:66560624]
Dyslexia	2	1	[rs1026989]	[FHIT]	[3:59906747]
EarlobeFreeorattached	11	0	[]	[]	[]
HairType	7	1	[rs11803731]	[TCHH]	[1:152110849]
Hypertension	52	13	[rs2820037, rs10859915, rs1550576, rs16849225, rs222151, rs11749255, rs704, rs2681472, rs17046380, rs17367504, rs2493292, rs1887320, rs17636747]	[VTN, TGFBRAP1, GPR45, PRPS1P1, PGAM1P5, MTHFR, ALDH1A2, CYYR1-AS1, SARM1, LINC02871, PRDM16, MSX2, "-", FAT1P1, EML6, FIGN, ATP2B1, HIGD1AP3]	[12:95634097, 20:10985350, 17:28367840, 21:26398292, 2:105261413, 12:89615182, 2:164050310, 1:3412095, 15:57921216, 2:54814185, 5:174642665, 1:11802721, 1:239273242]
Hypertriglyceridemia	4	0	[]	[]	[]
IrritableBowelSyndrome	2	0	[]	[]	[]

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MentalDisease	180	36	[rs10496702, rs11007350, rs17183814, rs1925191, rs4770403, rs4141983, rs245914, rs10760332, rs297941, rs2310173, rs6046396, rs4238213, rs704061, rs4293630, rs707939, rs1532278, rs2184898, rs149990, rs237238, rs220673, rs220677, rs17750015, rs2584363, rs3749971, rs10954428, rs10503253, rs7565792, rs4332358, rs7941534, rs10799590, rs728115, rs1550976, rs1014137, rs2514218, rs7746199, rs10148671]	[LINC02326, MSH5, NGF, SCN2A, ZSCAN16-AS1, OR5V1, DRD2, EXOC4, CSMD1, LINC01517, FARP1, DUSP6, TMPRSS5, FOXN2, LINC02395, COL6A1, CNIH3, LINC02151, MSH5-SAPCD1, NGF-AS1, ANK1, HMGB1P46, KCND2, POM121L2, PPP1R21-DT, IL1R2, RIN2, NCKAP5, CHN2, HIP1, NEK6, OR12D3, WDR7, CPVL, CLU, PSMA6P3, LINC02674, ITPRID1, POC1B, SGCG, SPTLC1P2, LHX2, ACTL8, NTM, IL1R1, ADGRF5]	[2:102047167, 1:224634780, 1:17795514, 2:165295879, 6:23835115, 7:75582098, 13:23180988, 1:115333024, 9:124212743, 7:29178543, 6:27293545, 6:28030480, 6:29374998, 8:107146155, 6:46872709, 13:98217088, 2:133247997, 8:4323322, 7:120665095, 10:117658593, 7:133703303, 11:116529665, 6:46874069, 8:27608798, 7:31584132, 6:31758911, 20:19871859, 12:89378126, 11:113522272, 12:49925303, 11:131450176, 21:46025877, 2:48422566, 10:29000102, 14:29000167, 18:56730391]
Migraine	25	5	[rs2076054, rs6756590, rs1245463, rs6478241, rs2506155]	[NRP1, MARCHF4, MIR4307HG, ASTN2, LINC00645, BPIFC]	[10:33214251, 22:32436887, 9:116490350, 2:216343848, 14:27192444]
Motionsickness	3	0	[]	[]	[]
PanicDisorder	2	0	[]	[]	[n, a]
PhoticSneezeReflexPhotoptarmis	4	0	[]	[]	[]
PosttraumaticStressDisorderorPTSD	5	0	[]	[]	[]
Scoliosis	29	1	[rs7633294]	[MAGI1]	[3:65650810]
SensitivitytoMosquitoBites	3	0	[]	[]	[]
SleepDisorders	93	1	[rs13404343]	[MIR4431, ASB3]	[2:53494444]
Strabismus	1	0	[]	[]	[]
ThyroidIssuesCancer	8	0	[]	[]	[]
TypeIIDiabetes	193	5	[rs5219, rs5215, rs1387153, rs11257655, rs1470579]	[RN7SL198P, SNRPGP16, IGF2BP2, MTNR1B, KCNJ11, CDC123]	[11:92940662, 11:17387083, 3:185811292, 11:17388025, 10:12265895]
eczema	15	3	[rs763342, rs20541, rs10993994]	[MSMB, BCL6, TH2LCRR, IL13, LINC01991]	[10:46046326, 5:132660272, 3:187921587]
restlesslegsyndrome	6	2	[rs9357271, rs3923809]	[BTBD9]	[6:38398097, 6:38473194]