

SNP	Gene	Endophenotype	Extreme Z*s	Cumulative P Value	Predictive Value
rs533337	GRIK3	Prepulse inhibition	35	0.045	55%
rs1587526	GRIK3	Prepulse inhibition	29	0.037	59%
rs1027599	GRIK3	Prepulse inhibition	27	0.031	60%
rs3767078	GRIK3	Verbal learning	0	0.001	93%
rs3767078	GRIK3	Spatial processing	1	0.002	90%
rs3767087	GRIK3	Senosori-motor dexterity	0	0.001	93%
rs10489412	GRIK3	Spatial memory	15	0.015	70%
rs10489412	GRIK3	Emotion recognition	0	0.001	93%
rs697923	GRIK3	Emotion recognition	29	0.037	59%
rs575605	GRIK3	Prepulse inhibition	14	0.015	71%
rs12746787	GRIK3	Facial memory	0	0.001	93%
rs12746787	GRIK3	Spatial processing	0	0.001	93%
rs12746787	GRIK3	Senosori-motor dexterity	0	0.001	93%
rs951121	NOS1AP	Continuous performance	33	0.042	56%
rs1538018	NOS1AP	Prepulse inhibition	32	0.042	56%
rs4657165	NOS1AP	Verbal learning	27	0.031	60%
rs3751286	NOS1AP	Senosori-motor dexterity	13	0.015	70%
rs3751286	NOS1AP	Emotion recognition	13	0.015	70%
rs4326657	ASPM	Prepulse inhibition	0	0.001	93%
rs4326657	ASPM	Abstraction	40	0.050	53%
rs4326657	ASPM	Facial memory	0	0.001	93%
rs2082552	DISC1	Spatial processing	40	0.050	53%
rs884158	DISC1	P50 suppression	10	0.013	73%
rs967244	DISC1	Letter-Number Span	39	0.050	53%
rs3081	DISC1	Antisaccade	0	0.001	93%
rs967433	DISC1	Continuous performance	13	0.015	70%
rs967433	DISC1	Emotion recognition	40	0.050	53%
rs821585	DISC1	Facial memory	0	0.001	93%
rs821585	DISC1	Spatial processing	0	0.001	93%
rs821585	DISC1	Senosori-motor dexterity	3	0.005	84%
rs821597	DISC1	P50 suppression	0	0.001	93%
rs821662	DISC1	P50 suppression	25	0.029	61%
rs843979	DISC1	P50 suppression	24	0.024	62%
rs1864551	CTNNA2	Continuous performance	0	0.001	93%
rs1367399	CTNNA2	Continuous performance	19	0.021	66%
rs880813	CTNNA2	Continuous performance	8	0.011	74%
rs1971766	CTNNA2	Continuous performance	8	0.011	74%
rs4852514	CTNNA2	Spatial processing	18	0.018	67%
rs540905	CTNNA2	Prepulse inhibition	26	0.030	60%
rs7605424	CTNNA2	Continuous performance	12	0.015	70%
rs2902109	CTNNA2	Continuous performance	40	0.050	53%
rs3849389	CTNNA2	Spatial processing	21	0.022	65%
rs1816531	ERBB4	Letter-Number Span	37	0.048	54%
rs4278873	ERBB4	Continuous performance	18	0.018	67%
rs4278873	ERBB4	Spatial processing	13	0.015	70%

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rs10497946	ERBB4	Abstraction	0	0.001	93%
rs6435644	ERBB4	Prepulse inhibition	0	0.001	93%
rs6435644	ERBB4	Antisaccade	4	0.007	81%
rs6435644	ERBB4	Abstraction	20	0.021	65%
rs6435647	ERBB4	Spatial memory	39	0.050	53%
rs1818750	ERBB4	Emotion recognition	28	0.035	59%
rs4673633	ERBB4	Abstraction	10	0.013	73%
rs7600260	ERBB4	Facial memory	6	0.009	76%
rs7600260	ERBB4	Spatial memory	0	0.001	93%
rs11887994	ERBB4	Facial memory	8	0.011	74%
rs11887994	ERBB4	Spatial processing	38	0.050	53%
rs10497953	ERBB4	Spatial processing	6	0.009	76%
rs10497956	ERBB4	Abstraction	4	0.007	81%
rs987320	ERBB4	Continuous performance	5	0.009	79%
rs6737841	ERBB4	Antisaccade	19	0.021	66%
rs6737841	ERBB4	Spatial processing	2	0.003	86%
rs6737841	ERBB4	Senosori-motor dexterity	8	0.011	74%
rs1505366	ERBB4	Senosori-motor dexterity	9	0.013	73%
rs10497972	ERBB4	Spatial processing	21	0.022	65%
rs1394795	ERBB4	Continuous performance	29	0.037	59%
rs972489	ERBB4	Antisaccade	13	0.015	70%
rs7564771	ERBB4	Antisaccade	0	0.001	93%
rs9876005	SLC6A1	Antisaccade	1	0.002	90%
rs968824	GSK3B	Spatial processing	27	0.031	60%
rs13109229	GRID2	Letter-Number Span	15	0.015	70%
rs6811045	GRID2	Prepulse inhibition	1	0.002	90%
rs6811045	GRID2	Antisaccade	14	0.015	71%
rs6811045	GRID2	Spatial processing	3	0.005	84%
rs6811045	GRID2	Emotion recognition	3	0.005	84%
rs13435785	GRID2	Facial memory	17	0.018	67%
rs13435785	GRID2	Emotion recognition	0	0.001	93%
rs1479332	GRID2	Emotion recognition	3	0.005	84%
rs729545	GRID2	Continuous performance	10	0.013	73%
rs1912718	GRID2	P50 suppression	32	0.042	56%
rs1912718	GRID2	Spatial processing	13	0.015	70%
rs1155646	GRID2	P50 suppression	4	0.007	81%
rs1875705	GRID2	P50 suppression	12	0.015	70%
rs1875705	GRID2	Spatial processing	29	0.037	59%
rs4524351	GRID2	P50 suppression	24	0.024	62%
rs4524351	GRID2	Spatial processing	38	0.050	53%
rs2870699	GRID2	Prepulse inhibition	26	0.030	60%
rs1948016	GRID2	Prepulse inhibition	35	0.045	55%
rs1948017	GRID2	Emotion recognition	35	0.045	55%
rs1905733	GRID2	Emotion recognition	0	0.001	93%
rs10516921	GRID2	P50 suppression	13	0.015	70%

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rs10516921	GRID2	Antisaccade	2	0.003	86%
rs1485015	GRID2	Prepulse inhibition	18	0.018	67%
rs4557232	GRID2	Senosori-motor dexterity	13	0.015	70%
rs9307127	GRID2	Prepulse inhibition	14	0.015	71%
rs9307127	GRID2	Verbal learning	14	0.015	71%
rs2196320	GRID2	Prepulse inhibition	5	0.009	79%
rs1435477	GRID2	P50 suppression	5	0.009	79%
rs11946557	GRID2	P50 suppression	9	0.013	73%
rs11946557	GRID2	Antisaccade	20	0.021	65%
rs6350	SLC6A3	Facial memory	26	0.030	60%
rs1423691	HTR1A	Verbal learning	10	0.013	73%
rs6865878	HTR4	Continuous performance	1	0.002	90%
rs6865878	HTR4	Abstraction	14	0.015	71%
rs6865878	HTR4	Spatial memory	0	0.001	93%
rs6865878	HTR4	Senosori-motor dexterity	31	0.041	57%
rs7711800	HTR4	Verbal learning	32	0.042	56%
rs2068190	HTR4	Facial memory	36	0.046	54%
rs2304042	CAMK2A	Letter-Number Span	10	0.013	73%
rs1432832	CAMK2A	Prepulse inhibition	9	0.013	73%
rs2910298	GABRB2	Abstraction	35	0.045	55%
rs2962402	GABRB2	Antisaccade	22	0.023	64%
rs2962402	GABRB2	Senosori-motor dexterity	0	0.001	93%
rs29234	MOG	Senosori-motor dexterity	27	0.031	60%
rs2229901	GRM4	Spatial processing	2	0.003	86%
rs2229901	GRM4	Emotion recognition	1	0.002	90%
rs2451383	GRM4	Spatial memory	15	0.015	70%
rs2451383	GRM4	Spatial processing	9	0.013	73%
rs2451383	GRM4	Emotion recognition	33	0.042	56%
rs9469690	GRM4	Emotion recognition	11	0.014	71%
rs1565364	GRM4	Spatial processing	35	0.045	55%
rs733457	GRM4	Abstraction	15	0.015	70%
rs747373	GRM4	Abstraction	39	0.050	53%
rs8192624	TAAR6	Continuous performance	7	0.011	74%
rs362956	GRM1	Antisaccade	0	0.001	93%
rs362956	GRM1	Facial memory	37	0.048	54%
rs362956	GRM1	Spatial memory	2	0.003	86%
rs61914	GRM1	Spatial memory	29	0.037	59%
rs61914	GRM1	Emotion recognition	36	0.046	54%
rs362895	GRM1	Abstraction	7	0.011	74%
rs362895	GRM1	Spatial processing	12	0.015	70%
rs362848	GRM1	Spatial memory	24	0.024	62%
rs9403775	GRM1	Verbal learning	38	0.050	53%
rs362925	GRM1	Senosori-motor dexterity	0	0.001	93%
rs362854	GRM1	Facial memory	38	0.050	53%
rs362854	GRM1	Spatial memory	1	0.002	90%

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rs362854	GRM1	Spatial processing	4	0.007	81%
rs362854	GRM1	Senosori-motor dexterity	23	0.024	63%
rs362854	GRM1	Emotion recognition	32	0.042	56%
rs362936	GRM1	Facial memory	0	0.001	93%
rs3804295	GRM1	Spatial memory	19	0.021	66%
rs2941	GRM1	Prepulse inhibition	2	0.003	86%
rs2941	GRM1	Verbal learning	1	0.002	90%
rs2941	GRM1	Facial memory	0	0.001	93%
rs2941	GRM1	Senosori-motor dexterity	0	0.001	93%
rs7770466	GRM1	Verbal learning	27	0.031	60%
rs1709182	ESR1	Abstraction	36	0.046	54%
rs9340835	ESR1	Abstraction	23	0.024	63%
rs9340949	ESR1	P50 suppression	0	0.001	93%
rs9340949	ESR1	Antisaccade	0	0.001	93%
rs9340949	ESR1	Verbal learning	14	0.015	71%
rs2282888	SP4	Spatial processing	10	0.013	73%
rs10233357	SP4	Letter-Number Span	0	0.001	93%
rs3807643	SP4	Letter-Number Span	1	0.002	90%
rs2282896	SP4	Letter-Number Span	0	0.001	93%
rs3807641	SP4	Letter-Number Span	0	0.001	93%
rs12668354	SP4	Spatial processing	8	0.011	74%
rs10487055	GRM3	P50 suppression	1	0.002	90%
rs10487055	GRM3	Senosori-motor dexterity	4	0.007	81%
rs2528858	RELN	Continuous performance	39	0.050	53%
rs2075039	RELN	Antisaccade	4	0.007	81%
rs10487160	RELN	Emotion recognition	26	0.030	60%
rs2229860	RELN	Prepulse inhibition	0	0.001	93%
rs2229860	RELN	Antisaccade	2	0.003	86%
rs2229860	RELN	Facial memory	0	0.001	93%
rs2229860	RELN	Spatial memory	0	0.001	93%
rs123712	RELN	Spatial processing	14	0.015	71%
rs123712	RELN	Emotion recognition	29	0.037	59%
rs471360	RELN	Facial memory	10	0.013	73%
rs694894	RELN	Senosori-motor dexterity	13	0.015	70%
rs1404431	RELN	Antisaccade	24	0.024	62%
rs802787	RELN	Spatial memory	21	0.022	65%
rs10487175	RELN	Spatial memory	13	0.015	70%
rs17092104	SLC18A1	Antisaccade	16	0.015	69%
rs10503779	EBF2	P50 suppression	21	0.022	65%
rs4281084	NRG1	Spatial processing	0	0.001	93%
rs7840792	NRG1	Continuous performance	14	0.015	71%
rs10503888	NRG1	Abstraction	0	0.001	93%
rs10110401	NRG1	Abstraction	39	0.050	53%
rs10110401	NRG1	Emotion recognition	2	0.003	86%
rs12549243	NRG1	Facial memory	38	0.050	53%

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rs7822564	NRG1	Prepulse inhibition	17	0.018	67%
rs901561	NRG1	Prepulse inhibition	8	0.011	74%
rs10103930	NRG1	Abstraction	18	0.018	67%
rs7842667	NRG1	Verbal learning	14	0.015	71%
rs7844425	NRG1	Abstraction	23	0.024	63%
rs7844425	NRG1	Senosori-motor dexterity	3	0.005	84%
rs10113593	NRG1	Continuous performance	21	0.022	65%
rs7000590	NRG1	Verbal learning	10	0.013	73%
rs4733130	NRG1	Verbal learning	15	0.015	70%
rs4733130	NRG1	Abstraction	11	0.014	71%
rs4733130	NRG1	Senosori-motor dexterity	1	0.002	90%
rs2439312	NRG1	Verbal learning	7	0.011	74%
rs11776203	NRG1	Verbal learning	1	0.002	90%
rs3924999	NRG1	Verbal learning	1	0.002	90%
rs7844824	CHRN3	Continuous performance	36	0.046	54%
rs1407877	GRIN3A	Antisaccade	22	0.023	64%
rs3739724	GRIN3A	Prepulse inhibition	1	0.002	90%
rs942141	GRIN3A	Prepulse inhibition	1	0.002	90%
rs1323413	GRIN3A	Prepulse inhibition	18	0.018	67%
rs1337697	GRIN3A	Prepulse inhibition	17	0.018	67%
rs2797853	DBH	Antisaccade	31	0.041	57%
rs2073833	DBH	Prepulse inhibition	8	0.011	74%
rs11146020	GRIN1	Senosori-motor dexterity	0	0.001	93%
rs2301364	GRIN1	Senosori-motor dexterity	0	0.001	93%
rs2616673	GRID1	Continuous performance	33	0.042	56%
rs1880386	GRID1	Continuous performance	6	0.009	76%
rs11599415	GRID1	Senosori-motor dexterity	0	0.001	93%
rs4393254	GRID1	Emotion recognition	3	0.005	84%
rs11201945	GRID1	Continuous performance	39	0.050	53%
rs3750625	ADRA2A	Spatial memory	8	0.011	74%
rs2070762	TH	Continuous performance	35	0.045	55%
rs2273688	SLC1A2	Continuous performance	23	0.024	63%
rs2273688	SLC1A2	Spatial memory	18	0.018	67%
rs2025111	SLC1A2	Letter-Number Span	37	0.048	54%
rs2025111	SLC1A2	Abstraction	9	0.013	73%
rs2025111	SLC1A2	Spatial processing	17	0.018	67%
rs1320443	SLC1A2	Spatial processing	9	0.013	73%
rs1885345	SLC1A2	Continuous performance	15	0.015	70%
rs911562	SLC1A2	Continuous performance	0	0.001	93%
rs4593985	SLC1A2	Continuous performance	8	0.011	74%
rs1923292	SLC1A2	Continuous performance	30	0.039	58%
rs4963323	CHRM1	Senosori-motor dexterity	35	0.045	55%
rs10501669	GRM5	Letter-Number Span	3	0.005	84%
rs308875	GRM5	Senosori-motor dexterity	13	0.015	70%
rs2133395	GRM5	Senosori-motor dexterity	3	0.005	84%

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rs1499043	GRM5	Antisaccade	0	0.001	93%
rs1499043	GRM5	Continuous performance	18	0.018	67%
rs1499043	GRM5	Spatial processing	14	0.015	71%
rs1499043	GRM5	Senosori-motor dexterity	3	0.005	84%
rs547644	GRM5	Facial memory	0	0.001	93%
rs167569	GRM5	Facial memory	0	0.001	93%
rs1261878	NCAM1	Prepulse inhibition	14	0.015	71%
rs7125415	DRD2	Continuous performance	5	0.009	79%
rs4274224	DRD2	Antisaccade	40	0.050	53%
rs10502242	GRIK4	Antisaccade	5	0.009	79%
rs10502242	GRIK4	Verbal learning	22	0.023	64%
rs7948804	GRIK4	P50 suppression	12	0.015	70%
rs948028	GRIK4	P50 suppression	11	0.014	71%
rs1815771	GRIK4	P50 suppression	40	0.050	53%
rs10502243	GRIK4	Abstraction	25	0.029	61%
rs2298724	GRIK4	Verbal learning	6	0.009	76%
rs4936570	GRIK4	Antisaccade	3	0.005	84%
rs890	GRIN2B	Spatial processing	0	0.001	93%
rs1806194	GRIN2B	Spatial processing	34	0.043	55%
rs2193147	GRIN2B	Spatial processing	33	0.042	56%
rs10492137	GRIN2B	Emotion recognition	20	0.021	65%
rs1120905	GRIN2B	Verbal learning	9	0.013	73%
rs10772713	GRIN2B	Verbal learning	10	0.013	73%
rs2300279	GRIN2B	Verbal learning	16	0.015	69%
rs10492141	GRIN2B	Verbal learning	16	0.015	69%
rs11055673	GRIN2B	Verbal learning	14	0.015	71%
rs2160729	GRIN2B	Verbal learning	14	0.015	71%
rs12829455	GRIN2B	Verbal learning	15	0.015	70%
rs4457792	BLOC1S1	Abstraction	0	0.001	93%
rs10507017	EEA1	P50 suppression	34	0.043	55%
rs9316233	HTR2A	Spatial processing	9	0.013	73%
rs985933	HTR2A	Antisaccade	18	0.018	67%
rs2070036	HTR2A	Antisaccade	1	0.002	90%
rs4142900	HTR2A	Letter-Number Span	12	0.015	70%
rs2494732	AKT1	Facial memory	30	0.039	58%
rs1130214	AKT1	Continuous performance	7	0.011	74%
rs3826029	CHRNA7	Prepulse inhibition	8	0.011	74%
rs885071	CHRNA7	Prepulse inhibition	10	0.013	73%
rs1448239	GRIN2A	Emotion recognition	34	0.043	55%
rs4782262	GRIN2A	Emotion recognition	21	0.022	65%
rs1345424	GRIN2A	Letter-Number Span	18	0.018	67%
rs9912147	YWHAE	Emotion recognition	8	0.011	74%
rs222853	DLG4	Letter-Number Span	14	0.015	71%
rs222853	DLG4	Continuous performance	0	0.001	93%
rs222853	DLG4	Spatial processing	27	0.031	60%

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rs507506	DLG4	Emotion recognition	20	0.021	65%
rs6355	SLC6A4	Antisaccade	1	0.002	90%
rs4392119	SLC6A4	P50 suppression	38	0.050	53%
rs4392119	SLC6A4	Antisaccade	0	0.001	93%
rs4792882	CRHR1	Antisaccade	5	0.009	79%
rs4792882	CRHR1	Verbal learning	33	0.042	56%
rs4792882	CRHR1	Abstraction	2	0.003	86%
rs81189	CRHR1	Antisaccade	28	0.035	59%
rs1321099	SLC32A1	Verbal learning	8	0.011	74%
rs755203	CHRNA4	Senosori-motor dexterity	1	0.002	90%
rs367766	PRODH	Antisaccade	7	0.011	74%
rs740603	COMT	Letter-Number Span	13	0.015	70%
rs4646316	COMT	Verbal learning	12	0.015	70%
rs4646316	COMT	Spatial processing	26	0.030	60%
rs174697	COMT	Prepulse inhibition	1	0.002	90%
rs7881868	HTR2C	Prepulse inhibition	20	0.021	65%
rs5988087	HTR2C	Prepulse inhibition	35	0.045	55%
rs6318	HTR2C	Prepulse inhibition	29	0.037	59%
rs2428707	HTR2C	Prepulse inhibition	23	0.024	63%
rs2497504	HTR2C	Prepulse inhibition	27	0.031	60%
rs4243981	HTR2C	Prepulse inhibition	20	0.021	65%
rs389292	GABRA3	Emotion recognition	12	0.015	70%

Key: No. More Extreme Z\*s = the (one-sided) number of Z\*s in the 10,000 bootstrap data sets in the training group that exceed the observed Z, which ranges from 0 (most significant) to 40 (least significant) among the 292 most significant findings by the bootstrap analysis