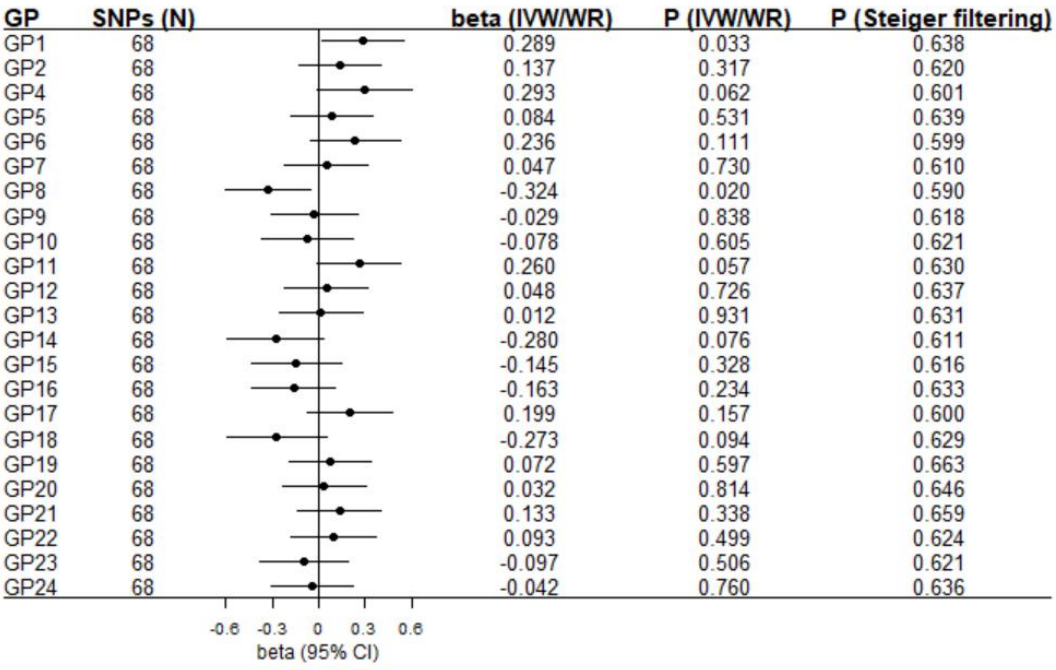
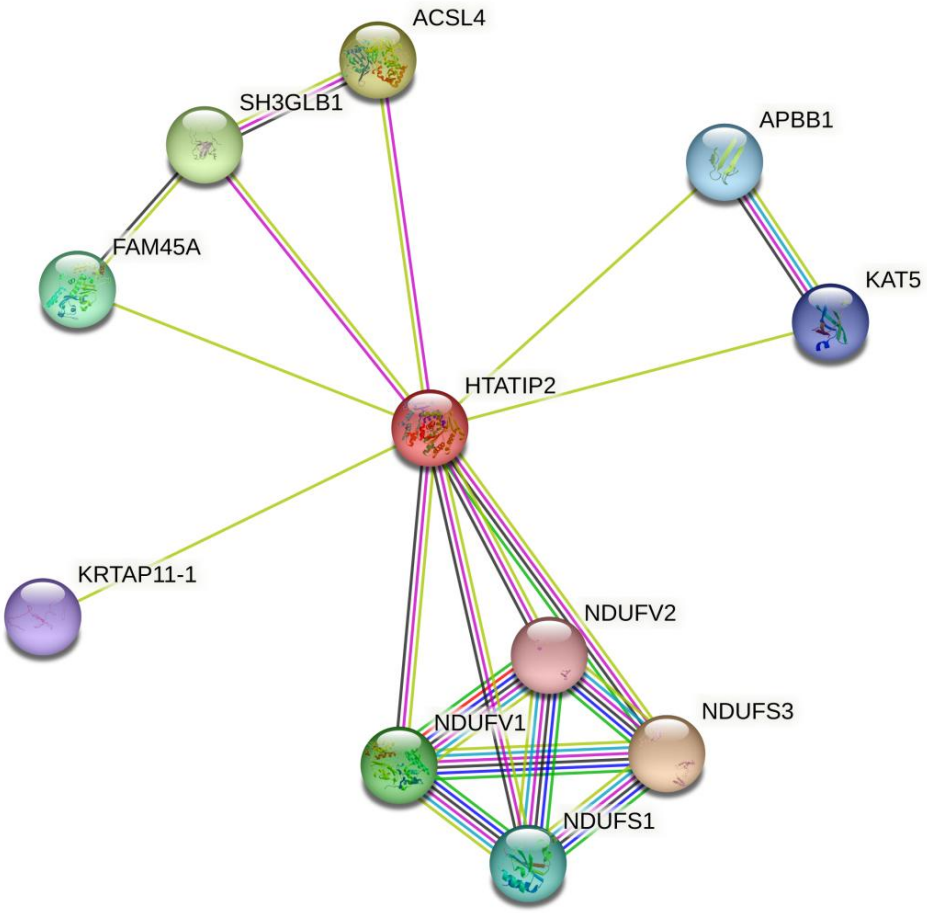
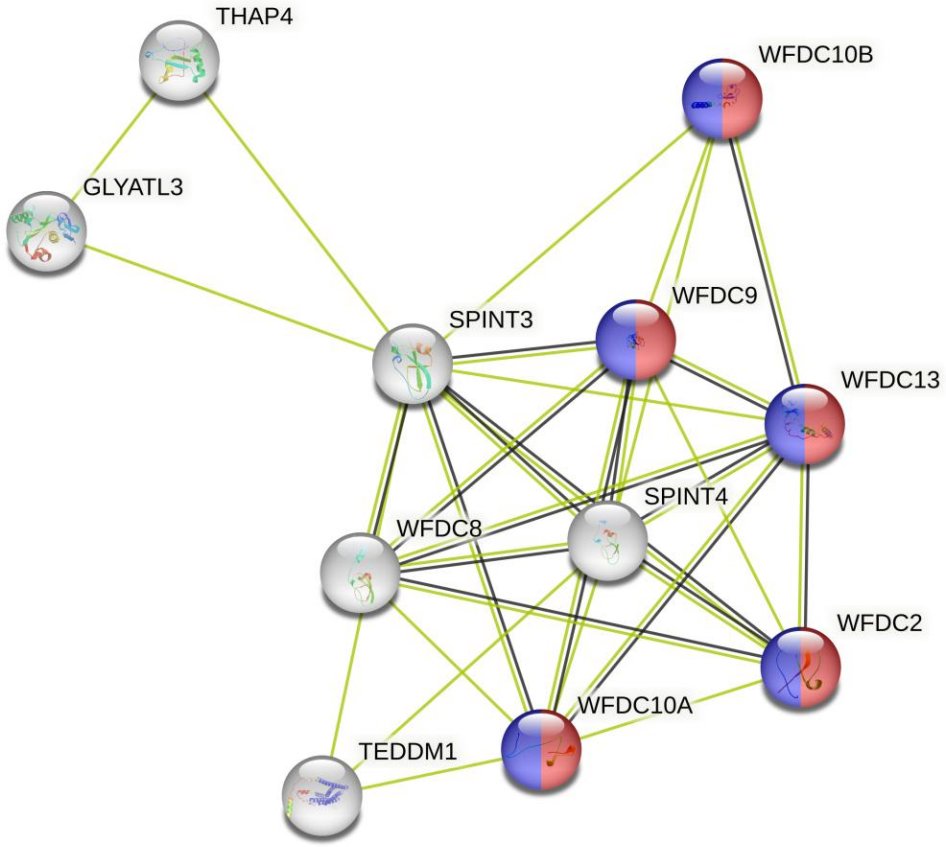


Supplementary Figure S1. Backward associations of IgG N-glycans with cognitive function by MR. *CI*: confidence interval; GP: glycan peak; IgG: immunoglobulin G; IVW: inverse variance weighted; MR: Mendelian randomization; SNP: single nucleotide polymorphism; WR: Wald ratio; *β*: beta.

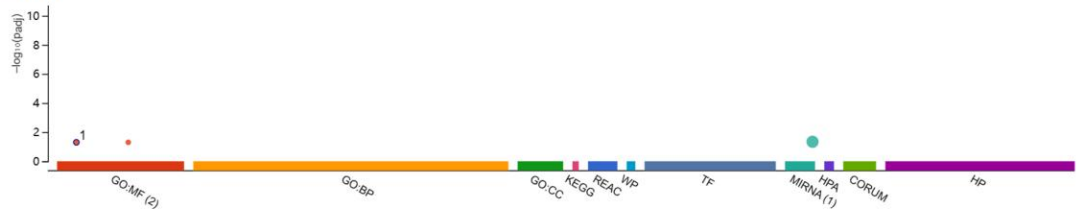


Supplementary Figure S2. Protein–protein interaction networks of Oxidoreductase HTATIP2.



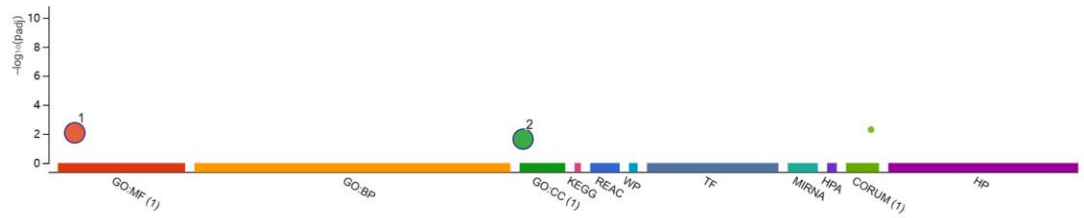
Supplementary Figure S3. Protein–protein interaction networks of Kunitz-type protease inhibitor 3.

A: GP7



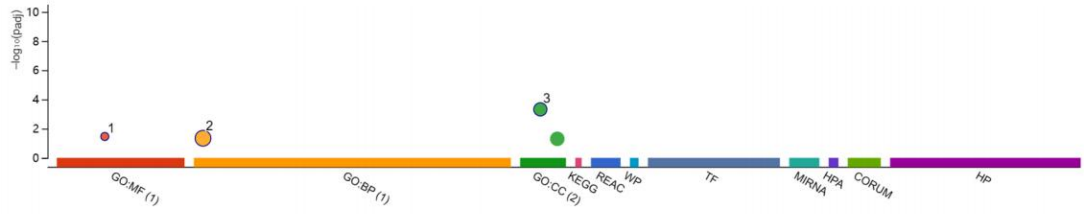
ID	Source	Term ID	Term Name	Padj (query_1)
1	GO:MF	GO:0008424	glycoprotein 6-alpha-L-fucosyltransferase activity	4.998×10^{-2}

B: GP12



ID	Source	Term ID	Term Name	Padj (query_1)
1	GO:MF	GO:0005515	protein binding	8.380×10^{-3}
2	GO:CC	GO:0005737	cytoplasm	2.285×10^{-2}

C: GP19



ID	Source	Term ID	Term Name	Padj (query_1)
1	GO:MF	GO:0031721	hemoglobin alpha binding	3.423×10^{-2}
2	GO:BP	GO:0002250	adaptive immune response	4.519×10^{-2}
3	GO:CC	GO:0042101	T cell receptor complex	4.745×10^{-4}

Supplementary Figure S4. Gene Ontology enrichment of pathways of the identified genes.

Supplementary Table S1. Colocalization analysis for the associations between IgG N-glycans with cognitive function

Exposures	Outcomes	Region	SNPs (*n*)	PP.H_0	PP.H_1	PP.H_2	PP.H_3	PP.H_4
GP2	Cognitive function	CHR14:65366230-66366230	785	9.90E-48	9.89E-01	8.30E-50	8.29E-03	2.63E-03
GP2	Cognitive function	CHR5:131225329-132225329	801	1.26E-04	9.83E-01	1.31E-06	1.02E-02	6.27E-03
GP2	Cognitive function	CHR14:65275695-66275695	850	9.91E-48	9.90E-01	7.61E-50	7.60E-03	2.64E-03
GP2	Cognitive function	CHR7:49852695-50852695	984	1.86E-13	9.84E-01	2.24E-15	1.18E-02	3.71E-03
GP2	Cognitive function	CHR7:150419829-151419829	874	5.15E-16	9.90E-01	3.13E-18	6.02E-03	3.82E-03
GP2	Cognitive function	CHR17:37421742-38421742	403	1.26E-09	9.88E-01	7.36E-12	5.74E-03	6.17E-03
GP4	Cognitive function	CHR9:32628021-33628021	977	7.87E-10	9.84E-01	1.12E-11	1.40E-02	2.38E-03
GP6	Cognitive function	CHR22:23636542-24636542	751	8.38E-07	9.78E-01	1.05E-08	1.22E-02	9.77E-03
GP6	Cognitive function	CHR9:32634617-33634617	981	8.79E-03	9.69E-01	1.26E-04	1.39E-02	8.64E-03
GP6	Cognitive function	CHR7:49855207-50855207	981	1.12E-03	9.83E-01	1.34E-05	1.18E-02	3.94E-03
GP6	Cognitive function	CHR21:36065278-37065278	1,114	1.10E-07	9.85E-01	1.32E-09	1.18E-02	2.82E-03
GP6	Cognitive function	CHR7:150419829-151419829	874	1.58E-08	9.90E-01	9.64E-11	6.02E-03	3.88E-03
GP6	Cognitive function	CHR22:39359169-40359169	645	9.05E-21	3.27E-08	3.86E-15	1.30E-02	9.87E-01
GP7	Cognitive function	CHR17:37524626-38524626	396	9.96E-10	9.89E-01	6.23E-12	6.18E-03	5.23E-03
GP7	Cognitive function	CHR14:65275695-66275695	850	3.24E-44	9.90E-01	2.49E-46	7.60E-03	2.64E-03
GP7	Cognitive function	CHR17:45373184-46373184	622	3.37E-06	1.53E-01	1.87E-05	8.47E-01	6.50E-04
GP7	Cognitive function	CHR14:65366817-66366817	782	3.24E-44	9.89E-01	2.71E-46	8.27E-03	2.63E-03
GP7	Cognitive function	CHR7:49852695-50852695	984	3.34E-15	9.85E-01	4.02E-17	1.18E-02	3.60E-03
GP7	Cognitive function	CHR7:150419829-151419829	874	1.65E-08	9.90E-01	1.00E-10	6.02E-03	3.82E-03
GP8	Cognitive function	CHR1:60862132-61862132	934	1.82E-02	9.48E-01	5.85E-04	3.05E-02	2.33E-03
GP8	Cognitive function	CHR6:30966860-31966860	381	7.20E-09	3.80E-05	1.90E-04	1.00E+00	3.25E-05
GP8	Cognitive function	CHR21:36075348-37075348	1,118	1.40E-02	9.51E-01	4.55E-04	3.09E-02	3.50E-03
GP8	Cognitive function	CHR14:105498544-106498544	169	3.77E-06	9.94E-01	9.81E-09	2.59E-03	3.16E-03

GP8	Cognitive function	CHR9:32640976-33640976	988	1.12E-03	9.82E-01	1.63E-05	1.43E-02	2.23E-03
GP9	Cognitive function	CHR9:32627640-33627640	977	3.84E-06	9.84E-01	5.47E-08	1.40E-02	2.23E-03
GP9	Cognitive function	CHR14:105498544-106498544	169	3.31E-22	9.94E-01	8.61E-25	2.59E-03	3.25E-03
GP9	Cognitive function	CHR3:186227170-187227170	1,015	4.06E-10	9.84E-01	4.30E-12	1.04E-02	5.39E-03
GP10	Cognitive function	CHR22:23636542-24636542	751	3.19E-31	9.78E-01	3.99E-33	1.22E-02	1.01E-02
GP10	Cognitive function	CHR16:3860314-4860314	640	2.84E-02	9.33E-01	1.04E-03	3.42E-02	3.05E-03
GP10	Cognitive function	CHR17:16348750-17348750	705	2.24E-03	9.89E-01	1.18E-05	5.21E-03	3.12E-03
GP10	Cognitive function	CHR22:39335587-40335587	666	3.51E-29	2.12E-08	1.50E-23	8.04E-03	9.92E-01
GP10	Cognitive function	CHR6:139132859-140132859	952	4.80E-10	9.92E-01	2.58E-12	5.32E-03	2.81E-03
GP10	Cognitive function	CHR19:18767990-19767990	400	1.85E-07	9.91E-01	4.24E-10	2.27E-03	6.74E-03
GP10	Cognitive function	CHR7:49852695-50852695	984	1.67E-08	9.85E-01	2.01E-10	1.18E-02	3.56E-03
GP10	Cognitive function	CHR7:6045335-7045335	475	4.25E-03	9.25E-01	3.04E-04	6.61E-02	3.95E-03
GP11	Cognitive function	CHR22:23636542-24636542	751	1.17E-18	9.78E-01	1.46E-20	1.22E-02	1.01E-02
GP11	Cognitive function	CHR22:39335587-40335587	666	1.60E-16	2.25E-08	6.81E-11	8.60E-03	9.91E-01
GP11	Cognitive function	CHR6:139125074-140125074	955	3.18E-04	9.92E-01	1.78E-06	5.55E-03	2.25E-03
GP12	Cognitive function	CHR17:45322092-46322092	626	4.31E-05	1.82E-01	1.94E-04	8.17E-01	7.77E-04
GP12	Cognitive function	CHR14:65275695-66275695	850	6.31E-34	9.90E-01	4.85E-36	7.60E-03	2.64E-03
GP12	Cognitive function	CHR20:51684944-52684944	1,182	5.14E-03	9.80E-01	4.33E-05	8.26E-03	6.57E-03
GP12	Cognitive function	CHR7:49855207-50855207	981	1.08E-05	9.84E-01	1.30E-07	1.18E-02	3.75E-03
GP13	Cognitive function	CHR3:186222362-187222362	1,014	2.04E-12	9.87E-01	2.17E-14	1.05E-02	2.93E-03
GP13	Cognitive function	CHR7:49852695-50852695	984	4.95E-07	9.85E-01	5.96E-09	1.18E-02	3.57E-03
GP13	Cognitive function	CHR19:5343609-6343609	573	7.83E-07	9.74E-01	1.42E-08	1.77E-02	7.84E-03
GP14	Cognitive function	CHR8:103045436-104045436	1,016	1.08E-03	9.84E-01	1.33E-05	1.21E-02	2.52E-03
GP14	Cognitive function	CHR9:32628021-33628021	977	1.50E-14	9.84E-01	2.14E-16	1.40E-02	2.38E-03
GP14	Cognitive function	CHR3:186222362-187222362	1,014	7.03E-18	9.86E-01	7.46E-20	1.05E-02	3.52E-03
GP14	Cognitive function	CHR6:142669723-143669723	895	9.03E-08	9.91E-01	5.74E-10	6.29E-03	2.45E-03

GP15	Cognitive function	CHR22:23636542-24636542	751	2.27E-09	9.78E-01	2.84E-11	1.22E-02	1.01E-02
GP15	Cognitive function	CHR3:186222362-187222362	1,014	5.41E-10	9.87E-01	5.73E-12	1.05E-02	2.96E-03
GP15	Cognitive function	CHR17:44297919-45297919	327	6.66E-13	3.98E-05	1.05E-09	6.18E-02	9.38E-01
GP15	Cognitive function	CHR22:39335587-40335587	666	9.88E-15	2.61E-08	4.22E-09	1.02E-02	9.90E-01
GP15	Cognitive function	CHR7:49855207-50855207	981	6.36E-03	9.78E-01	7.64E-05	1.18E-02	3.65E-03
GP15	Cognitive function	CHR6:139132859-140132859	952	3.25E-07	9.92E-01	1.74E-09	5.32E-03	2.74E-03
GP15	Cognitive function	CHR7:6020676-7020676	482	4.44E-05	9.29E-01	3.17E-06	6.64E-02	4.08E-03
GP15	Cognitive function	CHR19:18781672-19781672	398	3.29E-04	9.82E-01	7.60E-07	2.25E-03	1.55E-02
GP15	Cognitive function	CHR17:78692446-79692446	732	2.92E-04	4.49E-01	3.57E-04	5.49E-01	1.81E-03
GP16	Cognitive function	CHR7:150415071-151415071	871	5.93E-08	9.90E-01	3.60E-10	6.00E-03	3.93E-03
GP16	Cognitive function	CHR20:17329280-18329280	1,170	2.95E-02	9.54E-01	3.90E-04	1.26E-02	3.40E-03
GP16	Cognitive function	CHR5:94773915-95773915	680	2.32E-08	4.80E-02	3.40E-08	6.93E-02	8.83E-01
GP16	Cognitive function	CHR14:105498544-106498544	169	2.69E-18	9.94E-01	7.02E-21	2.59E-03	3.32E-03
GP16	Cognitive function	CHR3:186223975-187223975	1,015	2.20E-158	9.85E-01	2.34E-160	1.04E-02	4.72E-03
GP17	Cognitive function	CHR14:65275695-66275695	850	1.11E-21	9.90E-01	8.52E-24	7.60E-03	2.63E-03
GP17	Cognitive function	CHR7:49850267-50850267	984	2.96E-02	9.54E-01	3.56E-04	1.15E-02	4.48E-03
GP18	Cognitive function	CHR9:32628021-33628021	977	2.11E-27	9.84E-01	3.01E-29	1.40E-02	2.37E-03
GP18	Cognitive function	CHR16:22944268-23944268	781	2.76E-04	9.44E-01	1.56E-05	5.33E-02	2.79E-03
GP18	Cognitive function	CHR17:78692430-79692430	732	1.56E-04	4.49E-01	1.90E-04	5.48E-01	2.12E-03
GP18	Cognitive function	CHR3:186227170-187227170	1,015	4.31E-19	9.84E-01	4.57E-21	1.04E-02	5.42E-03
GP19	Cognitive function	CHR22:39344350-40344350	658	2.08E-12	2.03E-08	8.88E-07	7.67E-03	9.92E-01
GP20	Cognitive function	CHR19:5330922-6330922	572	3.29E-05	9.72E-01	5.98E-07	1.76E-02	1.06E-02
GP22	Cognitive function	CHR14:65700177-66700177	780	5.14E-10	9.14E-01	4.71E-11	8.39E-02	2.13E-03
GP22	Cognitive function	CHR7:49850267-50850267	984	4.15E-07	9.84E-01	4.99E-09	1.18E-02	4.41E-03
GP22	Cognitive function	CHR3:186227170-187227170	1,015	1.46E-03	9.83E-01	1.55E-05	1.04E-02	5.52E-03
GP23	Cognitive function	CHR9:32628021-33628021	977	1.12E-14	9.84E-01	1.59E-16	1.40E-02	2.38E-03

GP23	Cognitive function	CHR1:24825837-25825837	590	4.87E-03	9.89E-01	1.75E-05	3.54E-03	2.23E-03
GP23	Cognitive function	CHR3:186227170-187227170	1,015	5.28E-16	9.85E-01	5.60E-18	1.04E-02	4.97E-03
GP23	Cognitive function	CHR22:39359169-40359169	645	1.51E-23	4.10E-08	6.43E-18	1.65E-02	9.83E-01
GP24	Cognitive function	CHR3:186227170-187227170	1,015	8.65E-36	9.84E-01	9.17E-38	1.04E-02	5.75E-03

Note. Evidence for colocalization was assessed using the PP for hypothesis 4 (PPH4 > 95%). CHR: chromosome; GP: Glycan peak; IgG: Immunoglobulin G; PP, posterior probability; SNPs, single nucleotide polymorphisms.

Supplementary Table S2. The forward associations of IgG N-glycans with cognitive function by sensitivity analyses of MR

GP	SNPs (*n*)	WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
		β (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% *CI*)	*P*	*P* (Global test)	*β* (95% *CI*)	*P*
GP2	6	0.015 (–0.008, 0.036)	0.196	0.015 (–0.007, 0.036)	0.190	0.049 (–0.006, 0.103)	0.154	0.176	0.006 (–0.011, 0.023)	0.537	0.550	0.006 (–0.012, 0.024)	0.531
GP4	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.005 (–0.031, 0.040)	0.796
GP6	6	0.017 (–0.012, 0.046)	0.247	0.018 (–0.011, 0.047)	0.231	0.039 (–0.097, 0.176)	0.600	0.480	0.010 (–0.017, 0.036)	0.512	< 0.001	–0.012 (–0.032, 0.008)	0.249
GP7	6	0.015 (–0.007, 0.037)	0.178	0.015 (–0.007, 0.037)	0.181	0.009 (–0.075, 0.093)	0.847	0.808	**0.020 (0.011, 0.029)**	**0.008**	0.942	**0.020 (0.001, 0.038)**	**0.040**
GP8	5	–0.013 (–0.049, 0.023)	0.476	–0.018 (–0.051, 0.016)	0.303	0.060 (–0.120, 0.240)	0.560	0.605	0.008 (–0.027, 0.044)	0.675	0.103	0.009 (–0.016, 0.034)	0.496
GP9	3	0.018 (–0.011, 0.046)	0.227	0.018 (–0.009, 0.044)	0.201	0.025 (–0.120, 0.171)	0.793	0.930	–	N/A	N/A	0.017 (–0.008, 0.042)	0.192
GP10	8	0.012 (–0.011, 0.034)	0.308	0.014 (–0.010, 0.037)	0.253	–0.062 (–0.170, 0.046)	0.306	0.289	0.012 (0.001, 0.024)	0.080	0.042	0.001 (–0.016, 0.018)	0.920
GP11	3	–0.031 (–0.068, 0.007)	0.109	–0.017 (–0.051, 0.017)	0.330	–0.052 (–0.527, 0.423)	0.865	0.988	N/A	N/A	N/A	**–0.053 (–0.082, –0.025)**	**2.13E-04**
GP12	4	**0.033 (0.003, 0.064)**	**0.034**	**0.033 (0.003, 0.063)**	**0.030**	–0.059 (–0.227, 0.110)	0.565	0.394	**0.033 (0.017, 0.049)**	**0.026**	0.729	**0.033 (0.007, 0.058)**	**0.012**
GP13	3	0.016 (–0.011, 0.042)	0.245	0.019 (–0.006, 0.043)	0.137	0.036 (–0.114, 0.187)	0.717	0.753	N/A	N/A	N/A	0.007 (–0.014, 0.029)	0.517
GP14	5	–0.013 (–0.038, 0.012)	0.315	–0.013 (–0.039, 0.013)	0.329	–0.017 (–0.070, 0.036)	0.584	0.708	–0.006 (–0.021, 0.008)	0.448	0.736	–0.006 (–0.027, 0.015)	0.560
GP15	8	–0.006 (–0.031, 0.019)	0.647	–0.007 (–0.033, 0.019)	0.610	–0.010 (–0.167, 0.147)	0.901	0.985	–0.004 (–0.028, 0.021)	0.776	< 0.001	–0.010 (–0.026, 0.007)	0.257
GP16	6	0.008 (–0.010, 0.026)	0.386	0.008 (–0.009, 0.025)	0.359	0.012 (–0.038, 0.061)	0.660	0.706	0.003 (–0.015, 0.020)	0.785	0.296	0.003 (–0.012, 0.017)	0.725
GP17	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.027 (–0.010, 0.063)	0.149
GP18	5	–0.010 (–0.035, 0.016)	0.452	–0.010 (–0.037, 0.017)	0.479	0.034 (–0.035, 0.104)	0.402	0.252	–0.013 (–0.035, 0.008)	0.286	0.462	–0.013 (–0.035, 0.008)	0.217
GP19	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GP20	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GP22	3	0.033 (–0.007, 0.072)	0.108	0.034 (–0.003, 0.072)	0.074	0.140 (–0.457, 0.737)	0.725	0.756	0.004 (–0.039, 0.047)	0.860	0.080	0.019 (–0.013, 0.051)	0.252
GP23	4	–0.008 (–0.035, 0.020)	0.584	–0.010 (–0.036, 0.016)	0.457	–0.017 (–0.210, 0.176)	0.877	0.842	N/A	N/A	N/A	0.005 (–0.017, 0.027)	0.685
GP24	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. Values in bold indicate statistical significance ($P < 0.05$). CI: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; *β*: beta.

Supplementary Table S3. Colocalization analysis for the associations between cognitive function with IgG N-glycans

Exposures	Outcomes	Region	SNPs (*n*)	PP.H$_0$	PP.H$_1$	PP.H$_2$	PP.H$_3$	PP.H$_4$
Cognitive function	GP1	CHR7:157036448-158036448	761	1.58E-04	8.23E-01	7.86E-06	4.08E-02	1.36E-01
Cognitive function	GP1	CHR14:103518455-104518455	651	7.74E-05	9.52E-01	2.96E-06	3.64E-02	1.19E-02
Cognitive function	GP1	CHR2:60213235-61213235	824	6.81E-09	9.06E-01	6.01E-10	7.98E-02	1.45E-02
Cognitive function	GP1	CHR15:51696830-52696830	708	3.66E-05	9.39E-01	1.16E-06	2.96E-02	3.10E-02
Cognitive function	GP1	CHR11:47140429-48140429	457	1.17E-04	9.76E-01	1.33E-06	1.10E-02	1.29E-02
Cognitive function	GP1	CHR12:48922094-49922094	448	1.16E-09	9.73E-01	1.57E-11	1.32E-02	1.37E-02
Cognitive function	GP1	CHR17:46590785-47590785	651	1.69E-04	9.48E-01	4.55E-06	2.56E-02	2.58E-02
Cognitive function	GP1	CHR1:216330128-217330128	1,418	1.96E-04	9.21E-01	1.39E-05	6.55E-02	1.30E-02
Cognitive function	GP1	CHR9:71610562-72610562	994	4.36E-02	9.15E-01	1.35E-03	2.83E-02	1.14E-02
Cognitive function	GP1	CHR1:43529353-44529353	772	3.88E-05	9.55E-01	9.98E-07	2.46E-02	2.01E-02
Cognitive function	GP1	CHR1:109530945-110530945	642	6.11E-08	9.59E-01	1.58E-09	2.48E-02	1.65E-02
Cognitive function	GP1	CHR3:71045170-72045170	874	7.55E-03	9.29E-01	2.68E-04	3.29E-02	3.07E-02
Cognitive function	GP1	CHR14:98170849-99170849	1,458	1.61E-03	9.45E-01	7.02E-05	4.12E-02	1.26E-02
Cognitive function	GP1	CHR15:40722487-41722487	511	3.44E-03	9.53E-01	6.13E-05	1.70E-02	2.65E-02
Cognitive function	GP1	CHR4:102688709-103688709	848	3.68E-17	8.17E-01	1.22E-18	2.69E-02	1.56E-01
Cognitive function	GP1	CHR4:10204137-11204137	1,297	1.13E-03	9.18E-01	6.55E-05	5.32E-02	2.71E-02
Cognitive function	GP1	CHR8:13502020-14502020	2,100	1.39E-04	8.19E-01	1.86E-05	1.09E-01	7.19E-02
Cognitive function	GP1	CHR4:105651843-106651843	822	4.06E-13	6.97E-01	2.31E-14	3.95E-02	2.64E-01
Cognitive function	GP1	CHR10:101412194-102412194	670	5.76E-03	9.59E-01	1.27E-04	2.11E-02	1.37E-02
Cognitive function	GP1	CHR5:100605998-101605998	1,014	2.54E-02	8.36E-01	3.70E-03	1.22E-01	1.27E-02
Cognitive function	GP1	CHR16:7157373-8157373	2,095	7.57E-04	8.00E-01	1.78E-04	1.89E-01	1.03E-02
Cognitive function	GP1	CHR3:35027409-36027409	857	1.40E-03	9.65E-01	3.34E-05	2.30E-02	1.05E-02
Cognitive function	GP1	CHR16:50450805-51450805	824	3.22E-03	9.55E-01	7.77E-05	2.30E-02	1.89E-02
Cognitive function	GP1	CHR19:12030177-13030177	417	9.01E-05	9.49E-01	2.48E-06	2.61E-02	2.49E-02
Cognitive function	GP1	CHR2:57448003-58448003	968	4.56E-03	9.17E-01	2.43E-04	4.88E-02	2.98E-02
Cognitive function	GP1	CHR14:69216957-70216957	770	8.11E-03	9.45E-01	2.34E-04	2.72E-02	1.94E-02
Cognitive function	GP1	CHR2:32236043-33236043	575	1.42E-02	9.22E-01	7.39E-04	4.81E-02	1.46E-02
Cognitive function	GP1	CHR1:41281151-42281151	947	1.01E-10	8.74E-01	4.31E-12	3.71E-02	8.91E-02
Cognitive function	GP1	CHR6:98050289-99050289	793	1.31E-20	9.18E-01	8.25E-22	5.77E-02	2.42E-02
Cognitive function	GP1	CHR1:21930069-22930069	924	7.56E-03	9.28E-01	3.75E-04	4.60E-02	1.81E-02
Cognitive function	GP1	CHR14:26677910-27677910	973	1.48E-03	9.40E-01	7.22E-05	4.59E-02	1.26E-02
Cognitive function	GP1	CHR14:32792743-33792743	1,306	7.95E-07	9.11E-01	3.66E-08	4.19E-02	4.67E-02
Cognitive function	GP1	CHR4:2217690-3217690	635	1.00E-04	8.67E-01	1.42E-05	1.23E-01	9.48E-03
Cognitive function	GP1	CHR3:49390613-50390613	355	2.01E-22	9.76E-01	1.29E-24	6.26E-03	1.74E-02
Cognitive function	GP1	CHR9:111375463-112375463	1,491	2.51E-02	9.11E-01	1.44E-03	5.22E-02	1.02E-02
Cognitive function	GP1	CHR16:51077196-52077196	966	1.20E-02	9.28E-01	3.65E-04	2.82E-02	3.17E-02
Cognitive function	GP1	CHR8:145244429-146244429	295	6.17E-03	9.51E-01	8.29E-05	1.27E-02	2.96E-02
Cognitive function	GP1	CHR8:30513470-31513470	848	1.94E-04	8.67E-01	5.53E-06	2.46E-02	1.09E-01
Cognitive function	GP1	CHR16:12656649-13656649	1,454	4.12E-02	8.75E-01	2.04E-03	4.33E-02	3.81E-02
Cognitive function	GP1	CHR10:129613462-130613462	1,268	7.27E-02	8.57E-01	4.71E-03	5.55E-02	1.01E-02
Cognitive function	GP1	CHR21:40016070-41016070	1,171	6.42E-03	9.39E-01	2.85E-04	4.17E-02	1.28E-02
Cognitive function	GP1	CHR8:141045193-142045193	683	6.51E-03	9.45E-01	1.78E-04	2.59E-02	2.20E-02
Cognitive function	GP1	CHR1:72249848-73249848	888	2.50E-15	9.45E-01	1.07E-16	4.03E-02	1.48E-02
Cognitive function	GP1	CHR7:44300176-45300176	792	1.60E-06	9.58E-01	3.87E-08	2.31E-02	1.84E-02
Cognitive function	GP1	CHR10:103065960-104065960	411	2.11E-11	9.38E-01	2.59E-13	1.15E-02	5.06E-02
Cognitive function	GP1	CHR4:65331184-66331184	973	1.79E-03	9.42E-01	8.12E-05	4.26E-02	1.33E-02
Cognitive function	GP1	CHR5:91977890-92977890	654	1.61E-03	9.70E-01	2.90E-05	1.75E-02	1.06E-02

Cognitive function	GP1	CHR2:43685129-44685129	1,176	2.05E-02	9.06E-01	1.33E-03	5.89E-02	1.34E-02
Cognitive function	GP1	CHR5:139045748-140045748	464	1.29E-08	9.76E-01	1.49E-10	1.12E-02	1.25E-02
Cognitive function	GP1	CHR9:95771752-96771752	1,092	1.28E-04	9.62E-01	3.46E-06	2.61E-02	1.14E-02
Cognitive function	GP1	CHR11:133314713-134314713	983	4.70E-02	8.61E-01	1.54E-03	2.81E-02	6.26E-02
Cognitive function	GP1	CHR8:142811653-143811653	792	1.97E-05	9.39E-01	4.92E-07	2.35E-02	3.74E-02
Cognitive function	GP1	CHR22:41870991-42870991	630	3.31E-08	9.62E-01	8.18E-10	2.37E-02	1.46E-02
Cognitive function	GP1	CHR22:39329736-40329736	668	2.18E-06	9.32E-01	5.49E-08	2.34E-02	4.51E-02
Cognitive function	GP1	CHR11:95061682-96061682	1,210	4.79E-06	9.24E-01	3.39E-07	6.53E-02	1.11E-02
Cognitive function	GP1	CHR6:11008671-12008671	1,392	7.92E-05	9.12E-01	5.63E-06	6.49E-02	2.35E-02
Cognitive function	GP1	CHR4:152092933-153092933	776	7.53E-07	5.78E-01	6.35E-08	4.83E-02	3.74E-01
Cognitive function	GP1	CHR1:59040811-60040811	936	3.11E-04	9.55E-01	1.04E-05	3.18E-02	1.32E-02
Cognitive function	GP1	CHR4:67470101-68470101	889	7.85E-05	9.46E-01	3.60E-06	4.33E-02	1.11E-02
Cognitive function	GP1	CHR6:21456404-22456404	1,039	9.98E-03	8.95E-01	5.62E-04	5.04E-02	4.36E-02
Cognitive function	GP1	CHR7:133031432-134031432	895	4.03E-08	9.14E-01	3.29E-09	7.47E-02	1.15E-02
Cognitive function	GP1	CHR9:134366271-135366271	938	7.70E-03	9.28E-01	3.79E-04	4.56E-02	1.78E-02
Cognitive function	GP1	CHR19:31452890-32452890	790	3.02E-04	9.46E-01	1.20E-05	3.76E-02	1.65E-02
Cognitive function	GP1	CHR2:198429896-199429896	640	1.78E-02	9.54E-01	2.65E-04	1.42E-02	1.34E-02
Cognitive function	GP1	CHR3:11975088-12975088	873	1.54E-03	9.49E-01	5.14E-05	3.16E-02	1.76E-02
Cognitive function	GP1	CHR12:79185226-80185226	750	1.12E-08	9.23E-01	4.63E-10	3.82E-02	3.93E-02
Cognitive function	GP1	CHR16:52998655-53998655	760	1.98E-10	9.37E-01	9.39E-12	4.45E-02	1.85E-02
Cognitive function	GP1	CHR16:76024013-77024013	1,094	9.09E-02	7.44E-01	1.51E-02	1.24E-01	2.63E-02
Cognitive function	GP1	CHR5:164973194-165973194	1,001	9.98E-05	9.46E-01	4.37E-06	4.14E-02	1.25E-02
Cognitive function	GP1	CHR1:37365954-38365954	682	3.31E-02	9.04E-01	1.78E-03	4.88E-02	1.25E-02
Cognitive function	GP1	CHR6:108364419-109364419	723	3.24E-15	9.61E-01	7.42E-17	2.20E-02	1.70E-02
Cognitive function	GP1	CHR1:68927576-69927576	757	9.19E-07	9.61E-01	1.89E-08	1.97E-02	1.98E-02
Cognitive function	GP1	CHR16:61694176-62694176	894	9.32E-05	9.20E-01	4.88E-06	4.82E-02	3.14E-02
Cognitive function	GP2	CHR7:157036448-158036448	761	1.72E-04	8.97E-01	6.00E-06	3.12E-02	7.19E-02
Cognitive function	GP2	CHR14:103518455-104518455	651	7.80E-05	9.59E-01	2.17E-06	2.67E-02	1.46E-02
Cognitive function	GP2	CHR2:60213235-61213235	824	7.22E-09	9.60E-01	1.80E-10	2.39E-02	1.61E-02
Cognitive function	GP2	CHR15:51696830-52696830	708	3.68E-05	9.43E-01	8.05E-07	2.06E-02	3.67E-02
Cognitive function	GP2	CHR11:47140429-48140429	457	1.17E-04	9.69E-01	1.65E-06	1.37E-02	1.75E-02
Cognitive function	GP2	CHR12:48922094-49922094	448	1.13E-09	9.51E-01	4.26E-11	3.59E-02	1.27E-02
Cognitive function	GP2	CHR17:46590785-47590785	651	1.68E-04	9.47E-01	5.59E-06	3.14E-02	2.12E-02
Cognitive function	GP2	CHR1:216330128-217330128	1,418	1.99E-04	9.35E-01	9.88E-06	4.64E-02	1.84E-02
Cognitive function	GP2	CHR9:71610562-72610562	994	3.95E-02	8.29E-01	2.65E-03	5.56E-02	7.30E-02
Cognitive function	GP2	CHR1:43529353-44529353	772	3.86E-05	9.52E-01	1.15E-06	2.83E-02	1.92E-02
Cognitive function	GP2	CHR1:109530945-110530945	642	6.11E-08	9.59E-01	1.38E-09	2.17E-02	1.97E-02
Cognitive function	GP2	CHR3:71045170-72045170	874	7.40E-03	9.10E-01	5.46E-04	6.71E-02	1.50E-02
Cognitive function	GP2	CHR14:98170849-99170849	1,458	1.61E-03	9.45E-01	6.58E-05	3.87E-02	1.49E-02
Cognitive function	GP2	CHR15:40722487-41722487	511	3.36E-03	9.32E-01	8.84E-05	2.45E-02	3.99E-02
Cognitive function	GP2	CHR4:102688709-103688709	848	4.09E-17	9.08E-01	1.38E-18	3.07E-02	6.09E-02
Cognitive function	GP2	CHR4:10204137-11204137	1,297	1.16E-03	9.44E-01	4.83E-05	3.93E-02	1.59E-02
Cognitive function	GP2	CHR8:13502020-14502020	2,100	1.58E-04	9.29E-01	9.79E-06	5.75E-02	1.36E-02
Cognitive function	GP2	CHR4:105651843-106651843	822	5.53E-13	9.50E-01	2.17E-14	3.72E-02	1.28E-02
Cognitive function	GP2	CHR10:101412194-102412194	670	5.76E-03	9.60E-01	1.30E-04	2.16E-02	1.29E-02
Cognitive function	GP2	CHR5:100605998-101605998	1,014	2.75E-02	9.05E-01	9.48E-04	3.12E-02	3.52E-02
Cognitive function	GP2	CHR16:7157373-8157373	2,095	8.70E-04	9.20E-01	6.00E-05	6.34E-02	1.58E-02
Cognitive function	GP2	CHR3:35027409-36027409	857	1.30E-03	8.96E-01	3.92E-05	2.69E-02	7.60E-02
Cognitive function	GP2	CHR16:50450805-51450805	824	2.94E-03	8.73E-01	1.71E-04	5.06E-02	7.30E-02

Cognitive function	GP2	CHR19:12030177-13030177	417	9.14E-05	9.62E-01	1.23E-06	1.30E-02	2.46E-02
Cognitive function	GP2	CHR2:57448003-58448003	968	4.71E-03	9.46E-01	1.38E-04	2.77E-02	2.13E-02
Cognitive function	GP2	CHR14:69216957-70216957	770	8.20E-03	9.55E-01	1.90E-04	2.21E-02	1.49E-02
Cognitive function	GP2	CHR2:32236043-33236043	575	1.28E-02	8.34E-01	3.58E-04	2.32E-02	1.29E-01
Cognitive function	GP2	CHR1:41281151-42281151	947	1.09E-10	9.38E-01	5.63E-12	4.87E-02	1.36E-02
Cognitive function	GP2	CHR6:98050289-99050289	793	1.34E-20	9.35E-01	7.65E-22	5.35E-02	1.16E-02
Cognitive function	GP2	CHR1:21930069-22930069	924	7.54E-03	9.26E-01	3.53E-04	4.34E-02	2.26E-02
Cognitive function	GP2	CHR14:26677910-27677910	973	1.48E-03	9.43E-01	6.44E-05	4.09E-02	1.41E-02
Cognitive function	GP2	CHR14:32792743-33792743	1,306	8.09E-07	9.27E-01	4.84E-08	5.54E-02	1.77E-02
Cognitive function	GP2	CHR4:2217690-3217690	635	1.12E-04	9.68E-01	2.39E-06	2.06E-02	1.10E-02
Cognitive function	GP2	CHR3:49390613-50390613	355	2.00E-22	9.76E-01	1.78E-24	8.65E-03	1.55E-02
Cognitive function	GP2	CHR9:111375463-112375463	1,491	2.51E-02	9.10E-01	1.32E-03	4.78E-02	1.57E-02
Cognitive function	GP2	CHR16:51077196-52077196	966	1.19E-02	9.19E-01	5.86E-04	4.53E-02	2.31E-02
Cognitive function	GP2	CHR8:145244429-146244429	295	6.25E-03	9.62E-01	6.96E-05	1.07E-02	2.08E-02
Cognitive function	GP2	CHR8:30513470-31513470	848	2.10E-04	9.39E-01	8.89E-06	3.97E-02	2.14E-02
Cognitive function	GP2	CHR16:12656649-13656649	1,454	4.02E-02	8.55E-01	2.22E-03	4.72E-02	5.52E-02
Cognitive function	GP2	CHR10:129613462-130613462	1,268	7.15E-02	8.43E-01	5.91E-03	6.97E-02	9.56E-03
Cognitive function	GP2	CHR21:40016070-41016070	1,171	6.14E-03	8.97E-01	5.76E-04	8.43E-02	1.15E-02
Cognitive function	GP2	CHR8:141045193-142045193	683	6.54E-03	9.49E-01	1.91E-04	2.78E-02	1.65E-02
Cognitive function	GP2	CHR1:72249848-73249848	888	2.53E-15	9.56E-01	7.75E-17	2.92E-02	1.44E-02
Cognitive function	GP2	CHR7:44300176-45300176	792	1.58E-06	9.43E-01	3.71E-08	2.21E-02	3.47E-02
Cognitive function	GP2	CHR10:103065960-104065960	411	2.13E-11	9.50E-01	8.82E-13	3.93E-02	1.06E-02
Cognitive function	GP2	CHR4:65331184-66331184	973	1.81E-03	9.48E-01	5.14E-05	2.69E-02	2.33E-02
Cognitive function	GP2	CHR5:91977890-92977890	654	1.57E-03	9.49E-01	6.12E-05	3.69E-02	1.27E-02
Cognitive function	GP2	CHR2:43685129-44685129	1,176	2.08E-02	9.19E-01	8.18E-04	3.62E-02	2.34E-02
Cognitive function	GP2	CHR5:139045748-140045748	464	1.28E-08	9.70E-01	2.44E-10	1.85E-02	1.12E-02
Cognitive function	GP2	CHR9:95771752-96771752	1,092	1.23E-04	9.24E-01	4.37E-06	3.29E-02	4.29E-02
Cognitive function	GP2	CHR11:133314713-134314713	983	4.86E-02	8.89E-01	2.13E-03	3.90E-02	2.18E-02
Cognitive function	GP2	CHR8:142811653-143811653	792	1.99E-05	9.47E-01	7.35E-07	3.51E-02	1.74E-02
Cognitive function	GP2	CHR22:41870991-42870991	630	3.22E-08	9.33E-01	7.89E-10	2.29E-02	4.39E-02
Cognitive function	GP2	CHR22:39329736-40329736	668	2.18E-06	9.30E-01	6.56E-08	2.80E-02	4.16E-02
Cognitive function	GP2	CHR11:95061682-96061682	1,210	4.87E-06	9.38E-01	2.59E-07	4.99E-02	1.18E-02
Cognitive function	GP2	CHR6:11008671-12008671	1,392	7.71E-05	8.88E-01	8.23E-06	9.48E-02	1.76E-02
Cognitive function	GP2	CHR4:152092933-153092933	776	1.26E-06	9.63E-01	3.21E-08	2.46E-02	1.21E-02
Cognitive function	GP2	CHR1:59040811-60040811	936	3.12E-04	9.58E-01	9.61E-06	2.95E-02	1.20E-02
Cognitive function	GP2	CHR4:67470101-68470101	889	7.83E-05	9.43E-01	3.80E-06	4.57E-02	1.15E-02
Cognitive function	GP2	CHR6:21456404-22456404	1,039	1.04E-02	9.32E-01	4.44E-04	3.98E-02	1.77E-02
Cognitive function	GP2	CHR7:133031432-134031432	895	4.17E-08	9.47E-01	1.57E-09	3.56E-02	1.75E-02
Cognitive function	GP2	CHR9:134366271-135366271	938	7.51E-03	9.06E-01	5.91E-04	7.13E-02	1.41E-02
Cognitive function	GP2	CHR19:31452890-32452890	790	3.00E-04	9.40E-01	1.21E-05	3.77E-02	2.15E-02
Cognitive function	GP2	CHR2:198429896-199429896	640	1.76E-02	9.46E-01	4.17E-04	2.24E-02	1.35E-02
Cognitive function	GP2	CHR3:11975088-12975088	873	1.55E-03	9.57E-01	4.07E-05	2.50E-02	1.67E-02
Cognitive function	GP2	CHR12:79185226-80185226	750	1.14E-08	9.44E-01	5.53E-10	4.57E-02	1.08E-02
Cognitive function	GP2	CHR16:52998655-53998655	760	2.02E-10	9.58E-01	4.81E-12	2.28E-02	1.96E-02
Cognitive function	GP2	CHR16:76024013-77024013	1,094	1.01E-01	8.25E-01	5.75E-03	4.71E-02	2.14E-02
Cognitive function	GP2	CHR5:164973194-165973194	1,001	9.09E-05	8.62E-01	6.59E-06	6.24E-02	7.56E-02
Cognitive function	GP2	CHR1:37365954-38365954	682	3.36E-02	9.19E-01	1.11E-03	3.03E-02	1.60E-02
Cognitive function	GP2	CHR6:108364419-109364419	723	3.24E-15	9.63E-01	7.94E-17	2.36E-02	1.38E-02
Cognitive function	GP2	CHR1:68927576-69927576	757	8.94E-07	9.34E-01	4.15E-08	4.33E-02	2.26E-02

Cognitive function	GP2	CHR16:61694176-62694176	894	9.57E-05	9.45E-01	3.57E-06	3.52E-02	1.98E-02
Cognitive function	GP4	CHR7:157036448-158036448	761	1.74E-04	9.07E-01	5.34E-06	2.77E-02	6.52E-02
Cognitive function	GP4	CHR14:103518455-104518455	651	7.68E-05	9.44E-01	1.93E-06	2.36E-02	3.19E-02
Cognitive function	GP4	CHR2:60213235-61213235	824	6.45E-09	8.57E-01	9.88E-10	1.31E-01	1.19E-02
Cognitive function	GP4	CHR15:51696830-52696830	708	3.67E-05	9.41E-01	1.24E-06	3.16E-02	2.71E-02
Cognitive function	GP4	CHR11:47140429-48140429	457	1.09E-04	9.05E-01	5.36E-06	4.45E-02	5.08E-02
Cognitive function	GP4	CHR12:48922094-49922094	448	1.15E-09	9.72E-01	1.87E-11	1.57E-02	1.24E-02
Cognitive function	GP4	CHR17:46590785-47590785	651	1.64E-04	9.22E-01	9.90E-06	5.57E-02	2.19E-02
Cognitive function	GP4	CHR1:216330128-217330128	1,418	1.97E-04	9.28E-01	1.23E-05	5.80E-02	1.39E-02
Cognitive function	GP4	CHR9:71610562-72610562	994	4.30E-02	9.02E-01	1.97E-03	4.12E-02	1.15E-02
Cognitive function	GP4	CHR1:43529353-44529353	772	3.83E-05	9.43E-01	1.63E-06	4.02E-02	1.66E-02
Cognitive function	GP4	CHR1:109530945-110530945	642	6.12E-08	9.61E-01	1.58E-09	2.48E-02	1.46E-02
Cognitive function	GP4	CHR3:71045170-72045170	874	7.56E-03	9.30E-01	3.67E-04	4.50E-02	1.71E-02
Cognitive function	GP4	CHR14:98170849-99170849	1,458	1.55E-03	9.09E-01	9.68E-05	5.69E-02	3.27E-02
Cognitive function	GP4	CHR15:40722487-41722487	511	3.45E-03	9.57E-01	5.46E-05	1.51E-02	2.39E-02
Cognitive function	GP4	CHR4:102688709-103688709	848	3.09E-17	6.86E-01	1.30E-17	2.90E-01	2.40E-02
Cognitive function	GP4	CHR4:10204137-11204137	1,297	1.16E-03	9.44E-01	4.18E-05	3.40E-02	2.13E-02
Cognitive function	GP4	CHR8:13502020-14502020	2,100	1.45E-04	8.51E-01	2.05E-05	1.21E-01	2.85E-02
Cognitive function	GP4	CHR4:105651843-106651843	822	2.61E-13	4.47E-01	2.91E-14	4.94E-02	5.03E-01
Cognitive function	GP4	CHR10:101412194-102412194	670	5.63E-03	9.38E-01	1.21E-04	2.02E-02	3.58E-02
Cognitive function	GP4	CHR5:100605998-101605998	1,014	2.76E-02	9.09E-01	1.39E-03	4.59E-02	1.64E-02
Cognitive function	GP4	CHR16:7157373-8157373	2,095	8.54E-04	9.03E-01	8.04E-05	8.50E-02	1.14E-02
Cognitive function	GP4	CHR3:35027409-36027409	857	1.38E-03	9.53E-01	5.02E-05	3.46E-02	1.10E-02
Cognitive function	GP4	CHR16:50450805-51450805	824	2.37E-03	7.03E-01	1.40E-04	4.14E-02	2.53E-01
Cognitive function	GP4	CHR19:12030177-13030177	417	9.04E-05	9.52E-01	1.71E-06	1.79E-02	3.02E-02
Cognitive function	GP4	CHR2:57448003-58448003	968	4.74E-03	9.53E-01	1.17E-04	2.36E-02	1.83E-02
Cognitive function	GP4	CHR14:69216957-70216957	770	8.12E-03	9.46E-01	1.70E-04	1.98E-02	2.58E-02
Cognitive function	GP4	CHR2:32236043-33236043	575	1.47E-02	9.56E-01	2.15E-04	1.40E-02	1.49E-02
Cognitive function	GP4	CHR1:41281151-42281151	947	1.10E-10	9.51E-01	3.24E-12	2.79E-02	2.10E-02
Cognitive function	GP4	CHR6:98050289-99050289	793	1.35E-20	9.47E-01	6.14E-22	4.30E-02	1.03E-02
Cognitive function	GP4	CHR1:21930069-22930069	924	7.34E-03	9.02E-01	4.28E-04	5.26E-02	3.78E-02
Cognitive function	GP4	CHR14:26677910-27677910	973	1.42E-03	9.03E-01	1.26E-04	8.02E-02	1.54E-02
Cognitive function	GP4	CHR14:32792743-33792743	1,306	8.16E-07	9.35E-01	4.68E-08	5.36E-02	1.19E-02
Cognitive function	GP4	CHR4:2217690-3217690	635	1.12E-04	9.70E-01	2.19E-06	1.89E-02	1.08E-02
Cognitive function	GP4	CHR3:49390613-50390613	355	2.01E-22	9.79E-01	1.39E-24	6.76E-03	1.44E-02
Cognitive function	GP4	CHR9:111375463-112375463	1,491	2.49E-02	9.04E-01	1.25E-03	4.54E-02	2.42E-02
Cognitive function	GP4	CHR16:51077196-52077196	966	1.21E-02	9.35E-01	4.69E-04	3.63E-02	1.64E-02
Cognitive function	GP4	CHR8:145244429-146244429	295	5.35E-03	8.25E-01	1.02E-04	1.56E-02	1.54E-01
Cognitive function	GP4	CHR8:30513470-31513470	848	2.11E-04	9.44E-01	5.62E-06	2.51E-02	3.05E-02
Cognitive function	GP4	CHR16:12656649-13656649	1,454	3.89E-02	8.26E-01	5.50E-03	1.17E-01	1.29E-02
Cognitive function	GP4	CHR10:129613462-130613462	1,268	7.40E-02	8.72E-01	3.42E-03	4.03E-02	1.06E-02
Cognitive function	GP4	CHR21:40016070-41016070	1,171	6.48E-03	9.47E-01	2.23E-04	3.26E-02	1.36E-02
Cognitive function	GP4	CHR8:141045193-142045193	683	6.40E-03	9.29E-01	1.45E-04	2.10E-02	4.37E-02
Cognitive function	GP4	CHR1:72249848-73249848	888	2.48E-15	9.37E-01	1.16E-16	4.38E-02	1.96E-02
Cognitive function	GP4	CHR7:44300176-45300176	792	1.47E-06	8.79E-01	1.77E-07	1.06E-01	1.51E-02
Cognitive function	GP4	CHR10:103065960-104065960	411	2.20E-11	9.78E-01	2.22E-13	9.86E-03	1.26E-02
Cognitive function	GP4	CHR4:65331184-66331184	973	1.82E-03	9.56E-01	5.50E-05	2.88E-02	1.34E-02
Cognitive function	GP4	CHR5:91977890-92977890	654	1.60E-03	9.66E-01	3.58E-05	2.16E-02	1.07E-02
Cognitive function	GP4	CHR2:43685129-44685129	1,176	1.91E-02	8.45E-01	1.92E-03	8.50E-02	4.94E-02

Cognitive function	GP4	CHR5:139045748-140045748	464	1.28E-08	9.67E-01	2.29E-10	1.73E-02	1.53E-02
Cognitive function	GP4	CHR9:95771752-96771752	1,092	1.28E-04	9.61E-01	3.57E-06	2.68E-02	1.19E-02
Cognitive function	GP4	CHR11:133314713-134314713	983	4.84E-02	8.86E-01	1.67E-03	3.05E-02	3.37E-02
Cognitive function	GP4	CHR8:142811653-143811653	792	1.85E-05	8.84E-01	1.54E-06	7.33E-02	4.24E-02
Cognitive function	GP4	CHR22:41870991-42870991	630	2.77E-08	8.05E-01	2.51E-09	7.27E-02	1.22E-01
Cognitive function	GP4	CHR22:39329736-40329736	668	2.63E-07	1.12E-01	5.71E-08	2.35E-02	8.64E-01
Cognitive function	GP4	CHR11:95061682-96061682	1,210	4.90E-06	9.45E-01	2.16E-07	4.16E-02	1.37E-02
Cognitive function	GP4	CHR6:11008671-12008671	1,392	7.84E-05	9.03E-01	7.31E-06	8.42E-02	1.23E-02
Cognitive function	GP4	CHR4:152092933-153092933	776	1.18E-06	9.08E-01	4.17E-08	3.19E-02	6.04E-02
Cognitive function	GP4	CHR1:59040811-60040811	936	3.14E-04	9.63E-01	8.26E-06	2.53E-02	1.16E-02
Cognitive function	GP4	CHR4:67470101-68470101	889	7.89E-05	9.51E-01	3.12E-06	3.75E-02	1.18E-02
Cognitive function	GP4	CHR6:21456404-22456404	1,039	1.05E-02	9.42E-01	3.83E-04	3.44E-02	1.31E-02
Cognitive function	GP4	CHR7:133031432-134031432	895	4.25E-08	9.63E-01	1.09E-09	2.47E-02	1.20E-02
Cognitive function	GP4	CHR9:134366271-135366271	938	7.84E-03	9.46E-01	2.94E-04	3.54E-02	1.08E-02
Cognitive function	GP4	CHR19:31452890-32452890	790	3.03E-04	9.47E-01	1.16E-05	3.62E-02	1.64E-02
Cognitive function	GP4	CHR2:198429896-199429896	640	1.76E-02	9.46E-01	4.63E-04	2.49E-02	1.11E-02
Cognitive function	GP4	CHR3:11975088-12975088	873	1.54E-03	9.45E-01	5.21E-05	3.21E-02	2.16E-02
Cognitive function	GP4	CHR12:79185226-80185226	750	1.12E-08	9.29E-01	3.68E-10	3.04E-02	4.07E-02
Cognitive function	GP4	CHR16:52998655-53998655	760	2.03E-10	9.61E-01	5.90E-12	2.80E-02	1.13E-02
Cognitive function	GP4	CHR16:76024013-77024013	1,094	9.82E-02	8.04E-01	7.17E-03	5.87E-02	3.23E-02
Cognitive function	GP4	CHR5:164973194-165973194	1,001	9.89E-05	9.38E-01	4.97E-06	4.71E-02	1.50E-02
Cognitive function	GP4	CHR1:37365954-38365954	682	3.41E-02	9.31E-01	7.16E-04	1.96E-02	1.46E-02
Cognitive function	GP4	CHR6:108364419-109364419	723	3.22E-15	9.57E-01	9.34E-17	2.77E-02	1.55E-02
Cognitive function	GP4	CHR1:68927576-69927576	757	9.03E-07	9.43E-01	1.86E-08	1.94E-02	3.76E-02
Cognitive function	GP4	CHR16:61694176-62694176	894	9.39E-05	9.27E-01	6.11E-06	6.03E-02	1.28E-02
Cognitive function	GP5	CHR7:157036448-158036448	761	1.34E-04	7.00E-01	5.58E-06	2.88E-02	2.71E-01
Cognitive function	GP5	CHR14:103518455-104518455	651	7.85E-05	9.64E-01	1.90E-06	2.33E-02	1.23E-02
Cognitive function	GP5	CHR2:60213235-61213235	824	7.13E-09	9.47E-01	2.56E-10	3.40E-02	1.89E-02
Cognitive function	GP5	CHR15:51696830-52696830	708	3.49E-05	8.95E-01	1.15E-06	2.95E-02	7.51E-02
Cognitive function	GP5	CHR11:47140429-48140429	457	1.17E-04	9.70E-01	1.21E-06	1.00E-02	1.97E-02
Cognitive function	GP5	CHR12:48922094-49922094	448	1.15E-09	9.71E-01	1.92E-11	1.61E-02	1.27E-02
Cognitive function	GP5	CHR17:46590785-47590785	651	1.71E-04	9.60E-01	4.37E-06	2.46E-02	1.52E-02
Cognitive function	GP5	CHR1:216330128-217330128	1,418	1.99E-04	9.35E-01	8.96E-06	4.21E-02	2.28E-02
Cognitive function	GP5	CHR9:71610562-72610562	994	4.36E-02	9.15E-01	1.26E-03	2.63E-02	1.43E-02
Cognitive function	GP5	CHR1:43529353-44529353	772	3.84E-05	9.46E-01	1.43E-06	3.53E-02	1.91E-02
Cognitive function	GP5	CHR1:109530945-110530945	642	6.13E-08	9.63E-01	1.58E-09	2.49E-02	1.25E-02
Cognitive function	GP5	CHR3:71045170-72045170	874	7.75E-03	9.53E-01	2.03E-04	2.50E-02	1.39E-02
Cognitive function	GP5	CHR14:98170849-99170849	1,458	9.71E-04	5.71E-01	1.17E-04	6.82E-02	3.60E-01
Cognitive function	GP5	CHR15:40722487-41722487	511	3.35E-03	9.29E-01	1.62E-04	4.48E-02	2.25E-02
Cognitive function	GP5	CHR4:102688709-103688709	848	2.84E-17	6.31E-01	3.80E-18	8.41E-02	2.85E-01
Cognitive function	GP5	CHR4:10204137-11204137	1,297	1.12E-03	9.10E-01	6.90E-05	5.61E-02	3.31E-02
Cognitive function	GP5	CHR8:13502020-14502020	2,100	1.52E-04	8.95E-01	1.27E-05	7.49E-02	3.02E-02
Cognitive function	GP5	CHR4:105651843-106651843	822	5.37E-13	9.21E-01	3.74E-14	6.42E-02	1.45E-02
Cognitive function	GP5	CHR10:101412194-102412194	670	5.79E-03	9.65E-01	1.11E-04	1.86E-02	1.08E-02
Cognitive function	GP5	CHR5:100605998-101605998	1,014	2.73E-02	8.99E-01	1.54E-03	5.08E-02	2.17E-02
Cognitive function	GP5	CHR16:7157373-8157373	2,095	8.36E-04	8.84E-01	9.69E-05	1.02E-01	1.30E-02
Cognitive function	GP5	CHR3:35027409-36027409	857	1.39E-03	9.56E-01	3.38E-05	2.33E-02	1.97E-02
Cognitive function	GP5	CHR16:50450805-51450805	824	2.91E-03	8.65E-01	3.89E-04	1.15E-01	1.64E-02
Cognitive function	GP5	CHR19:12030177-13030177	417	8.90E-05	9.37E-01	3.05E-06	3.21E-02	3.05E-02

Cognitive function	GP5	CHR2:57448003-58448003	968	4.74E-03	9.54E-01	1.21E-04	2.43E-02	1.74E-02
Cognitive function	GP5	CHR14:69216957-70216957	770	7.86E-03	9.15E-01	4.73E-04	5.50E-02	2.13E-02
Cognitive function	GP5	CHR2:32236043-33236043	575	1.43E-02	9.34E-01	4.50E-04	2.93E-02	2.21E-02
Cognitive function	GP5	CHR1:41281151-42281151	947	9.15E-11	7.91E-01	1.80E-11	1.56E-01	5.35E-02
Cognitive function	GP5	CHR6:98050289-99050289	793	1.37E-20	9.59E-01	4.45E-22	3.11E-02	1.02E-02
Cognitive function	GP5	CHR1:21930069-22930069	924	7.61E-03	9.35E-01	3.28E-04	4.03E-02	1.71E-02
Cognitive function	GP5	CHR14:26677910-27677910	973	1.50E-03	9.51E-01	4.86E-05	3.09E-02	1.62E-02
Cognitive function	GP5	CHR14:32792743-33792743	1,306	8.08E-07	9.26E-01	5.29E-08	6.06E-02	1.30E-02
Cognitive function	GP5	CHR4:2217690-3217690	635	1.08E-04	9.37E-01	2.44E-06	2.11E-02	4.22E-02
Cognitive function	GP5	CHR3:49390613-50390613	355	1.96E-22	9.53E-01	1.55E-24	7.52E-03	3.95E-02
Cognitive function	GP5	CHR9:111375463-112375463	1,491	2.51E-02	9.12E-01	1.21E-03	4.39E-02	1.72E-02
Cognitive function	GP5	CHR16:51077196-52077196	966	1.08E-02	8.37E-01	1.70E-03	1.32E-01	1.85E-02
Cognitive function	GP5	CHR8:145244429-146244429	295	6.17E-03	9.50E-01	8.93E-05	1.37E-02	2.95E-02
Cognitive function	GP5	CHR8:30513470-31513470	848	2.15E-04	9.62E-01	5.34E-06	2.39E-02	1.36E-02
Cognitive function	GP5	CHR16:12656649-13656649	1,454	4.23E-02	8.98E-01	2.03E-03	4.32E-02	1.40E-02
Cognitive function	GP5	CHR10:129613462-130613462	1,268	7.40E-02	8.72E-01	3.13E-03	3.69E-02	1.40E-02
Cognitive function	GP5	CHR21:40016070-41016070	1,171	6.45E-03	9.43E-01	2.22E-04	3.25E-02	1.75E-02
Cognitive function	GP5	CHR8:141045193-142045193	683	6.61E-03	9.60E-01	1.11E-04	1.60E-02	1.75E-02
Cognitive function	GP5	CHR1:72249848-73249848	888	2.39E-15	9.01E-01	1.04E-16	3.93E-02	6.00E-02
Cognitive function	GP5	CHR7:44300176-45300176	792	1.60E-06	9.53E-01	5.02E-08	3.00E-02	1.71E-02
Cognitive function	GP5	CHR10:103065960-104065960	411	2.20E-11	9.79E-01	2.36E-13	1.05E-02	1.09E-02
Cognitive function	GP5	CHR4:65331184-66331184	973	1.36E-03	7.16E-01	4.91E-04	2.58E-01	2.43E-02
Cognitive function	GP5	CHR5:91977890-92977890	654	1.60E-03	9.68E-01	3.20E-05	1.93E-02	1.12E-02
Cognitive function	GP5	CHR2:43685129-44685129	1,176	2.10E-02	9.27E-01	7.83E-04	3.46E-02	1.62E-02
Cognitive function	GP5	CHR5:139045748-140045748	464	1.27E-08	9.60E-01	2.87E-10	2.16E-02	1.83E-02
Cognitive function	GP5	CHR9:95771752-96771752	1,092	1.28E-04	9.60E-01	3.81E-06	2.86E-02	1.17E-02
Cognitive function	GP5	CHR11:133314713-134314713	983	4.71E-02	8.61E-01	1.88E-03	3.44E-02	5.59E-02
Cognitive function	GP5	CHR8:142811653-143811653	792	2.00E-05	9.56E-01	4.86E-07	2.32E-02	2.08E-02
Cognitive function	GP5	CHR22:41870991-42870991	630	3.20E-08	9.29E-01	8.69E-10	2.52E-02	4.54E-02
Cognitive function	GP5	CHR22:39329736-40329736	668	2.25E-06	9.62E-01	4.85E-08	2.07E-02	1.76E-02
Cognitive function	GP5	CHR11:95061682-96061682	1,210	4.94E-06	9.52E-01	1.95E-07	3.75E-02	1.09E-02
Cognitive function	GP5	CHR6:11008671-12008671	1,392	7.97E-05	9.18E-01	5.53E-06	6.37E-02	1.81E-02
Cognitive function	GP5	CHR4:152092933-153092933	776	1.05E-06	8.08E-01	1.09E-07	8.36E-02	1.08E-01
Cognitive function	GP5	CHR1:59040811-60040811	936	2.95E-04	9.06E-01	1.04E-05	3.17E-02	6.23E-02
Cognitive function	GP5	CHR4:67470101-68470101	889	7.98E-05	9.61E-01	2.36E-06	2.84E-02	1.10E-02
Cognitive function	GP5	CHR6:21456404-22456404	1,039	1.04E-02	9.37E-01	4.38E-04	3.93E-02	1.30E-02
Cognitive function	GP5	CHR7:133031432-134031432	895	4.22E-08	9.57E-01	1.37E-09	3.11E-02	1.23E-02
Cognitive function	GP5	CHR9:134366271-135366271	938	7.89E-03	9.52E-01	2.40E-04	2.89E-02	1.09E-02
Cognitive function	GP5	CHR19:31452890-32452890	790	2.66E-04	8.31E-01	1.48E-05	4.61E-02	1.22E-01
Cognitive function	GP5	CHR2:198429896-199429896	640	1.77E-02	9.48E-01	2.81E-04	1.51E-02	1.89E-02
Cognitive function	GP5	CHR3:11975088-12975088	873	1.51E-03	9.27E-01	9.36E-05	5.76E-02	1.43E-02
Cognitive function	GP5	CHR12:79185226-80185226	750	1.13E-08	9.31E-01	3.21E-10	2.65E-02	4.26E-02
Cognitive function	GP5	CHR16:52998655-53998655	760	1.96E-10	9.28E-01	1.26E-11	5.97E-02	1.24E-02
Cognitive function	GP5	CHR16:76024013-77024013	1,094	1.02E-01	8.32E-01	5.17E-03	4.23E-02	1.89E-02
Cognitive function	GP5	CHR5:164973194-165973194	1,001	9.91E-05	9.40E-01	5.05E-06	4.79E-02	1.24E-02
Cognitive function	GP5	CHR1:37365954-38365954	682	3.36E-02	9.18E-01	1.32E-03	3.62E-02	1.13E-02
Cognitive function	GP5	CHR6:108364419-109364419	723	3.24E-15	9.61E-01	8.50E-17	2.52E-02	1.40E-02
Cognitive function	GP5	CHR1:68927576-69927576	757	9.20E-07	9.61E-01	1.95E-08	2.04E-02	1.87E-02
Cognitive function	GP5	CHR16:61694176-62694176	894	9.44E-05	9.31E-01	4.09E-06	4.03E-02	2.83E-02

Cognitive function	GP6	CHR7:157036448-158036448	761	1.47E-04	7.67E-01	1.18E-05	6.14E-02	1.72E-01
Cognitive function	GP6	CHR14:103518455-104518455	651	7.75E-05	9.53E-01	2.97E-06	3.64E-02	1.08E-02
Cognitive function	GP6	CHR2:60213235-61213235	824	7.22E-09	9.59E-01	2.15E-10	2.86E-02	1.22E-02
Cognitive function	GP6	CHR15:51696830-52696830	708	3.71E-05	9.50E-01	8.60E-07	2.20E-02	2.78E-02
Cognitive function	GP6	CHR11:47140429-48140429	457	1.15E-04	9.52E-01	3.84E-06	3.19E-02	1.58E-02
Cognitive function	GP6	CHR12:48922094-49922094	448	1.15E-09	9.66E-01	1.37E-11	1.15E-02	2.24E-02
Cognitive function	GP6	CHR17:46590785-47590785	651	1.62E-04	9.10E-01	1.05E-05	5.91E-02	3.08E-02
Cognitive function	GP6	CHR1:216330128-217330128	1,418	1.96E-04	9.22E-01	1.35E-05	6.37E-02	1.37E-02
Cognitive function	GP6	CHR9:71610562-72610562	994	3.96E-02	8.32E-01	4.79E-03	1.00E-01	2.36E-02
Cognitive function	GP6	CHR1:43529353-44529353	772	3.88E-05	9.56E-01	1.08E-06	2.66E-02	1.76E-02
Cognitive function	GP6	CHR1:109530945-110530945	642	6.00E-08	9.42E-01	2.79E-09	4.38E-02	1.38E-02
Cognitive function	GP6	CHR3:71045170-72045170	874	7.63E-03	9.38E-01	3.11E-04	3.82E-02	1.56E-02
Cognitive function	GP6	CHR14:98170849-99170849	1,458	1.55E-03	9.10E-01	9.29E-05	5.46E-02	3.43E-02
Cognitive function	GP6	CHR15:40722487-41722487	511	3.46E-03	9.59E-01	5.22E-05	1.45E-02	2.31E-02
Cognitive function	GP6	CHR4:102688709-103688709	848	4.27E-17	9.48E-01	1.53E-18	3.40E-02	1.83E-02
Cognitive function	GP6	CHR4:10204137-11204137	1,297	1.16E-03	9.48E-01	4.16E-05	3.39E-02	1.71E-02
Cognitive function	GP6	CHR8:13502020-14502020	2,100	1.34E-04	7.90E-01	1.27E-05	7.47E-02	1.35E-01
Cognitive function	GP6	CHR4:105651843-106651843	822	5.63E-13	9.66E-01	1.32E-14	2.27E-02	1.15E-02
Cognitive function	GP6	CHR10:101412194-102412194	670	5.55E-03	9.25E-01	1.15E-04	1.91E-02	4.98E-02
Cognitive function	GP6	CHR5:100605998-101605998	1,014	2.81E-02	9.24E-01	9.73E-04	3.20E-02	1.45E-02
Cognitive function	GP6	CHR16:7157373-8157373	2,095	8.37E-04	8.85E-01	9.70E-05	1.03E-01	1.17E-02
Cognitive function	GP6	CHR3:35027409-36027409	857	1.39E-03	9.58E-01	3.53E-05	2.44E-02	1.64E-02
Cognitive function	GP6	CHR16:50450805-51450805	824	3.08E-03	9.13E-01	1.43E-04	4.25E-02	4.17E-02
Cognitive function	GP6	CHR19:12030177-13030177	417	9.08E-05	9.57E-01	1.79E-06	1.88E-02	2.45E-02
Cognitive function	GP6	CHR2:57448003-58448003	968	4.72E-03	9.49E-01	1.27E-04	2.56E-02	2.09E-02
Cognitive function	GP6	CHR14:69216957-70216957	770	7.99E-03	9.30E-01	2.05E-04	2.39E-02	3.75E-02
Cognitive function	GP6	CHR2:32236043-33236043	575	1.45E-02	9.42E-01	4.53E-04	2.95E-02	1.35E-02
Cognitive function	GP6	CHR1:41281151-42281151	947	9.12E-11	7.89E-01	1.63E-11	1.41E-01	7.05E-02
Cognitive function	GP6	CHR6:98050289-99050289	793	1.34E-20	9.35E-01	4.17E-22	2.92E-02	3.54E-02
Cognitive function	GP6	CHR1:21930069-22930069	924	7.70E-03	9.46E-01	2.12E-04	2.60E-02	1.98E-02
Cognitive function	GP6	CHR14:26677910-27677910	973	1.17E-03	7.43E-01	3.80E-04	2.41E-01	1.36E-02
Cognitive function	GP6	CHR14:32792743-33792743	1,306	7.99E-07	9.16E-01	6.19E-08	7.09E-02	1.35E-02
Cognitive function	GP6	CHR4:2217690-3217690	635	1.12E-04	9.69E-01	2.02E-06	1.74E-02	1.35E-02
Cognitive function	GP6	CHR3:49390613-50390613	355	2.01E-22	9.78E-01	1.64E-24	7.99E-03	1.44E-02
Cognitive function	GP6	CHR9:111375463-112375463	1,491	2.25E-02	8.15E-01	4.09E-03	1.48E-01	1.04E-02
Cognitive function	GP6	CHR16:51077196-52077196	966	1.20E-02	9.28E-01	5.55E-04	4.29E-02	1.68E-02
Cognitive function	GP6	CHR8:145244429-146244429	295	6.13E-03	9.44E-01	7.88E-05	1.21E-02	3.77E-02
Cognitive function	GP6	CHR8:30513470-31513470	848	2.15E-04	9.63E-01	5.74E-06	2.56E-02	1.15E-02
Cognitive function	GP6	CHR16:12656649-13656649	1,454	3.15E-02	6.69E-01	1.30E-02	2.75E-01	1.10E-02
Cognitive function	GP6	CHR10:129613462-130613462	1,268	7.37E-02	8.68E-01	3.72E-03	4.38E-02	1.05E-02
Cognitive function	GP6	CHR21:40016070-41016070	1,171	6.37E-03	9.32E-01	3.30E-04	4.82E-02	1.32E-02
Cognitive function	GP6	CHR8:141045193-142045193	683	6.61E-03	9.60E-01	1.10E-04	1.60E-02	1.74E-02
Cognitive function	GP6	CHR1:72249848-73249848	888	2.52E-15	9.51E-01	9.06E-17	3.42E-02	1.51E-02
Cognitive function	GP6	CHR7:44300176-45300176	792	1.60E-06	9.53E-01	4.37E-08	2.61E-02	2.04E-02
Cognitive function	GP6	CHR10:103065960-104065960	411	2.19E-11	9.76E-01	2.71E-13	1.20E-02	1.15E-02
Cognitive function	GP6	CHR4:65331184-66331184	973	1.82E-03	9.54E-01	5.45E-05	2.86E-02	1.52E-02
Cognitive function	GP6	CHR5:91977890-92977890	654	1.60E-03	9.63E-01	4.07E-05	2.46E-02	1.10E-02
Cognitive function	GP6	CHR2:43685129-44685129	1,176	2.02E-02	8.95E-01	1.07E-03	4.73E-02	3.68E-02
Cognitive function	GP6	CHR5:139045748-140045748	464	1.19E-08	8.97E-01	1.15E-09	8.67E-02	1.62E-02

Cognitive function	GP6	CHR9:95771752-96771752	1,092	1.27E-04	9.59E-01	3.73E-06	2.80E-02	1.30E-02
Cognitive function	GP6	CHR11:133314713-134314713	983	4.86E-02	8.89E-01	1.62E-03	2.97E-02	3.10E-02
Cognitive function	GP6	CHR8:142811653-143811653	792	2.00E-05	9.53E-01	7.10E-07	3.39E-02	1.32E-02
Cognitive function	GP6	CHR22:41870991-42870991	630	2.93E-08	8.50E-01	1.76E-09	5.10E-02	9.95E-02
Cognitive function	GP6	CHR22:39329736-40329736	668	9.05E-21	3.86E-15	3.27E-08	1.30E-02	9.87E-01
Cognitive function	GP6	CHR11:95061682-96061682	1,210	4.84E-06	9.33E-01	2.01E-07	3.87E-02	2.80E-02
Cognitive function	GP6	CHR6:11008671-12008671	1,392	7.97E-05	9.18E-01	5.17E-06	5.95E-02	2.21E-02
Cognitive function	GP6	CHR4:152092933-153092933	776	1.22E-06	9.39E-01	3.83E-08	2.93E-02	3.20E-02
Cognitive function	GP6	CHR1:59040811-60040811	936	2.98E-04	9.15E-01	2.20E-05	6.75E-02	1.68E-02
Cognitive function	GP6	CHR4:67470101-68470101	889	8.01E-05	9.64E-01	2.06E-06	2.48E-02	1.11E-02
Cognitive function	GP6	CHR6:21456404-22456404	1,039	1.04E-02	9.30E-01	5.39E-04	4.84E-02	1.10E-02
Cognitive function	GP6	CHR7:133031432-134031432	895	4.23E-08	9.60E-01	1.19E-09	2.70E-02	1.25E-02
Cognitive function	GP6	CHR9:134366271-135366271	938	7.87E-03	9.49E-01	2.63E-04	3.17E-02	1.12E-02
Cognitive function	GP6	CHR19:31452890-32452890	790	3.00E-04	9.39E-01	1.21E-05	3.77E-02	2.32E-02
Cognitive function	GP6	CHR2:198429896-199429896	640	1.72E-02	9.25E-01	8.32E-04	4.47E-02	1.24E-02
Cognitive function	GP6	CHR3:11975088-12975088	873	1.55E-03	9.56E-01	4.15E-05	2.55E-02	1.69E-02
Cognitive function	GP6	CHR12:79185226-80185226	750	1.16E-08	9.57E-01	3.85E-10	3.18E-02	1.12E-02
Cognitive function	GP6	CHR16:52998655-53998655	760	2.01E-10	9.53E-01	5.28E-12	2.50E-02	2.17E-02
Cognitive function	GP6	CHR16:76024013-77024013	1,094	1.01E-01	8.27E-01	5.97E-03	4.88E-02	1.69E-02
Cognitive function	GP6	CHR5:164973194-165973194	1,001	9.89E-05	9.38E-01	3.81E-06	3.61E-02	2.60E-02
Cognitive function	GP6	CHR1:37365954-38365954	682	3.12E-02	8.52E-01	3.60E-03	9.85E-02	1.44E-02
Cognitive function	GP6	CHR6:108364419-109364419	723	3.12E-15	9.26E-01	2.03E-16	6.02E-02	1.35E-02
Cognitive function	GP6	CHR1:68927576-69927576	757	8.61E-07	9.00E-01	3.12E-08	3.25E-02	6.77E-02
Cognitive function	GP6	CHR16:61694176-62694176	894	7.39E-05	7.29E-01	2.61E-05	2.57E-01	1.33E-02
Cognitive function	GP7	CHR7:157036448-158036448	761	1.80E-04	9.39E-01	5.34E-06	2.78E-02	3.29E-02
Cognitive function	GP7	CHR14:103518455-104518455	651	7.73E-05	9.50E-01	2.93E-06	3.59E-02	1.39E-02
Cognitive function	GP7	CHR2:60213235-61213235	824	7.20E-09	9.56E-01	2.28E-10	3.03E-02	1.32E-02
Cognitive function	GP7	CHR15:51696830-52696830	708	3.71E-05	9.51E-01	8.90E-07	2.28E-02	2.65E-02
Cognitive function	GP7	CHR11:47140429-48140429	457	1.15E-04	9.52E-01	1.79E-06	1.48E-02	3.29E-02
Cognitive function	GP7	CHR12:48922094-49922094	448	1.14E-09	9.64E-01	2.29E-11	1.93E-02	1.66E-02
Cognitive function	GP7	CHR17:46590785-47590785	651	1.69E-04	9.54E-01	5.30E-06	2.98E-02	1.62E-02
Cognitive function	GP7	CHR1:216330128-217330128	1,418	2.01E-04	9.44E-01	8.67E-06	4.07E-02	1.46E-02
Cognitive function	GP7	CHR9:71610562-72610562	994	4.05E-02	8.50E-01	1.71E-03	3.58E-02	7.19E-02
Cognitive function	GP7	CHR1:43529353-44529353	772	3.77E-05	9.29E-01	1.47E-06	3.61E-02	3.54E-02
Cognitive function	GP7	CHR1:109530945-110530945	642	6.14E-08	9.63E-01	1.56E-09	2.45E-02	1.26E-02
Cognitive function	GP7	CHR3:71045170-72045170	874	7.51E-03	9.23E-01	4.37E-04	5.37E-02	1.52E-02
Cognitive function	GP7	CHR14:98170849-99170849	1,458	1.61E-03	9.45E-01	6.80E-05	4.00E-02	1.35E-02
Cognitive function	GP7	CHR15:40722487-41722487	511	3.44E-03	9.54E-01	7.31E-05	2.02E-02	2.23E-02
Cognitive function	GP7	CHR4:102688709-103688709	848	4.24E-17	9.41E-01	1.25E-18	2.78E-02	3.16E-02
Cognitive function	GP7	CHR4:10204137-11204137	1,297	1.13E-03	9.19E-01	7.74E-05	6.30E-02	1.70E-02
Cognitive function	GP7	CHR8:13502020-14502020	2,100	1.56E-04	9.19E-01	1.13E-05	6.66E-02	1.39E-02
Cognitive function	GP7	CHR4:105651843-106651843	822	5.55E-13	9.53E-01	1.92E-14	3.30E-02	1.39E-02
Cognitive function	GP7	CHR10:101412194-102412194	670	5.71E-03	9.51E-01	1.07E-04	1.77E-02	2.53E-02
Cognitive function	GP7	CHR5:100605998-101605998	1,014	2.79E-02	9.20E-01	8.90E-04	2.93E-02	2.19E-02
Cognitive function	GP7	CHR16:7157373-8157373	2,095	8.71E-04	9.20E-01	6.20E-05	6.55E-02	1.32E-02
Cognitive function	GP7	CHR3:35027409-36027409	857	1.08E-03	7.47E-01	2.26E-04	1.55E-01	9.67E-02
Cognitive function	GP7	CHR16:50450805-51450805	824	2.84E-03	8.42E-01	2.71E-04	8.04E-02	7.43E-02
Cognitive function	GP7	CHR19:12030177-13030177	417	9.11E-05	9.59E-01	1.55E-06	1.63E-02	2.44E-02
Cognitive function	GP7	CHR2:57448003-58448003	968	4.74E-03	9.53E-01	1.10E-04	2.20E-02	2.05E-02

Cognitive function	GP7	CHR14:69216957-70216957	770	8.19E-03	9.54E-01	2.07E-04	2.41E-02	1.38E-02
Cognitive function	GP7	CHR2:32236043-33236043	575	1.36E-02	8.86E-01	3.20E-04	2.08E-02	7.93E-02
Cognitive function	GP7	CHR1:41281151-42281151	947	1.08E-10	9.34E-01	6.19E-12	5.35E-02	1.30E-02
Cognitive function	GP7	CHR6:98050289-99050289	793	1.37E-20	9.56E-01	4.12E-22	2.88E-02	1.52E-02
Cognitive function	GP7	CHR1:21930069-22930069	924	7.22E-03	8.86E-01	3.18E-04	3.90E-02	6.70E-02
Cognitive function	GP7	CHR14:26677910-27677910	973	1.47E-03	9.36E-01	6.61E-05	4.20E-02	2.00E-02
Cognitive function	GP7	CHR14:32792743-33792743	1,306	8.06E-07	9.23E-01	4.59E-08	5.25E-02	2.44E-02
Cognitive function	GP7	CHR4:2217690-3217690	635	1.11E-04	9.64E-01	2.96E-06	2.56E-02	1.04E-02
Cognitive function	GP7	CHR3:49390613-50390613	355	2.00E-22	9.74E-01	1.80E-24	8.75E-03	1.74E-02
Cognitive function	GP7	CHR9:111375463-112375463	1,491	2.54E-02	9.21E-01	1.16E-03	4.19E-02	1.01E-02
Cognitive function	GP7	CHR16:51077196-52077196	966	1.21E-02	9.33E-01	4.70E-04	3.63E-02	1.77E-02
Cognitive function	GP7	CHR8:145244429-146244429	295	6.25E-03	9.63E-01	8.07E-05	1.24E-02	1.80E-02
Cognitive function	GP7	CHR8:30513470-31513470	848	2.10E-04	9.38E-01	9.59E-06	4.28E-02	1.86E-02
Cognitive function	GP7	CHR16:12656649-13656649	1,454	4.16E-02	8.83E-01	2.15E-03	4.56E-02	2.73E-02
Cognitive function	GP7	CHR10:129613462-130613462	1,268	6.38E-02	7.52E-01	1.37E-02	1.62E-01	8.70E-03
Cognitive function	GP7	CHR21:40016070-41016070	1,171	6.36E-03	9.30E-01	3.58E-04	5.23E-02	1.13E-02
Cognitive function	GP7	CHR8:141045193-142045193	683	6.51E-03	9.46E-01	1.79E-04	2.60E-02	2.15E-02
Cognitive function	GP7	CHR1:72249848-73249848	888	2.53E-15	9.55E-01	8.23E-17	3.10E-02	1.44E-02
Cognitive function	GP7	CHR7:44300176-45300176	792	1.60E-06	9.58E-01	4.37E-08	2.61E-02	1.64E-02
Cognitive function	GP7	CHR10:103065960-104065960	411	2.20E-11	9.79E-01	2.37E-13	1.05E-02	1.09E-02
Cognitive function	GP7	CHR4:65331184-66331184	973	1.81E-03	9.49E-01	6.08E-05	3.19E-02	1.73E-02
Cognitive function	GP7	CHR5:91977890-92977890	654	1.60E-03	9.65E-01	3.64E-05	2.19E-02	1.12E-02
Cognitive function	GP7	CHR2:43685129-44685129	1,176	2.11E-02	9.32E-01	7.94E-04	3.51E-02	1.14E-02
Cognitive function	GP7	CHR5:139045748-140045748	464	1.29E-08	9.74E-01	2.02E-10	1.52E-02	1.10E-02
Cognitive function	GP7	CHR9:95771752-96771752	1,092	1.28E-04	9.61E-01	3.42E-06	2.57E-02	1.32E-02
Cognitive function	GP7	CHR11:133314713-134314713	983	4.82E-02	8.82E-01	1.68E-03	3.07E-02	3.70E-02
Cognitive function	GP7	CHR8:142811653-143811653	792	2.01E-05	9.61E-01	5.45E-07	2.60E-02	1.31E-02
Cognitive function	GP7	CHR22:41870991-42870991	630	3.29E-08	9.55E-01	7.45E-10	2.16E-02	2.29E-02
Cognitive function	GP7	CHR22:39329736-40329736	668	2.26E-06	9.67E-01	4.65E-08	1.98E-02	1.34E-02
Cognitive function	GP7	CHR11:95061682-96061682	1,210	4.93E-06	9.51E-01	1.86E-07	3.58E-02	1.35E-02
Cognitive function	GP7	CHR6:11008671-12008671	1,392	7.82E-05	9.00E-01	6.72E-06	7.74E-02	2.21E-02
Cognitive function	GP7	CHR4:152092933-153092933	776	1.27E-06	9.70E-01	2.33E-08	1.79E-02	1.21E-02
Cognitive function	GP7	CHR1:59040811-60040811	936	3.13E-04	9.61E-01	8.61E-06	2.64E-02	1.20E-02
Cognitive function	GP7	CHR4:67470101-68470101	889	7.90E-05	9.51E-01	3.05E-06	3.67E-02	1.23E-02
Cognitive function	GP7	CHR6:21456404-22456404	1,039	1.04E-02	9.37E-01	4.21E-04	3.78E-02	1.43E-02
Cognitive function	GP7	CHR7:133031432-134031432	895	4.24E-08	9.61E-01	1.16E-09	2.64E-02	1.25E-02
Cognitive function	GP7	CHR9:134366271-135366271	938	7.81E-03	9.42E-01	3.22E-04	3.88E-02	1.09E-02
Cognitive function	GP7	CHR19:31452890-32452890	790	3.06E-04	9.57E-01	8.52E-06	2.67E-02	1.60E-02
Cognitive function	GP7	CHR2:198429896-199429896	640	1.77E-02	9.51E-01	3.27E-04	1.75E-02	1.35E-02
Cognitive function	GP7	CHR3:11975088-12975088	873	1.55E-03	9.54E-01	3.81E-05	2.34E-02	2.05E-02
Cognitive function	GP7	CHR12:79185226-80185226	750	1.14E-08	9.46E-01	4.99E-10	4.12E-02	1.25E-02
Cognitive function	GP7	CHR16:52998655-53998655	760	2.04E-10	9.66E-01	4.81E-12	2.28E-02	1.14E-02
Cognitive function	GP7	CHR16:76024013-77024013	1,094	1.03E-01	8.42E-01	4.34E-03	3.55E-02	1.49E-02
Cognitive function	GP7	CHR5:164973194-165973194	1,001	9.18E-05	8.71E-01	5.91E-06	5.60E-02	7.33E-02
Cognitive function	GP7	CHR1:37365954-38365954	682	3.38E-02	9.23E-01	7.59E-04	2.07E-02	2.20E-02
Cognitive function	GP7	CHR6:108364419-109364419	723	3.24E-15	9.61E-01	8.63E-17	2.56E-02	1.38E-02
Cognitive function	GP7	CHR1:68927576-69927576	757	8.76E-07	9.15E-01	6.24E-08	6.51E-02	1.94E-02
Cognitive function	GP7	CHR16:61694176-62694176	894	9.67E-05	9.55E-01	3.23E-06	3.19E-02	1.35E-02
Cognitive function	GP8	CHR7:157036448-158036448	761	1.82E-04	9.48E-01	6.03E-06	3.13E-02	2.02E-02

Cognitive function	GP8	CHR14:103518455-104518455	651	7.86E-05	9.66E-01	1.82E-06	2.23E-02	1.18E-02
Cognitive function	GP8	CHR2:60213235-61213235	824	3.94E-09	5.23E-01	3.54E-09	4.70E-01	6.40E-03
Cognitive function	GP8	CHR15:51696830-52696830	708	3.64E-05	9.34E-01	1.41E-06	3.60E-02	2.97E-02
Cognitive function	GP8	CHR11:47140429-48140429	457	1.18E-04	9.79E-01	1.08E-06	8.98E-03	1.19E-02
Cognitive function	GP8	CHR12:48922094-49922094	448	1.13E-09	9.53E-01	3.64E-11	3.07E-02	1.67E-02
Cognitive function	GP8	CHR17:46590785-47590785	651	1.71E-04	9.63E-01	3.85E-06	2.16E-02	1.51E-02
Cognitive function	GP8	CHR1:216330128-217330128	1,418	1.10E-04	5.16E-01	1.00E-04	4.72E-01	1.20E-02
Cognitive function	GP8	CHR9:71610562-72610562	994	4.34E-02	9.11E-01	1.53E-03	3.22E-02	1.17E-02
Cognitive function	GP8	CHR1:43529353-44529353	772	3.83E-05	9.44E-01	1.28E-06	3.16E-02	2.41E-02
Cognitive function	GP8	CHR1:109530945-110530945	642	5.86E-08	9.20E-01	4.09E-09	6.42E-02	1.61E-02
Cognitive function	GP8	CHR3:71045170-72045170	874	7.52E-03	9.24E-01	3.08E-04	3.79E-02	2.99E-02
Cognitive function	GP8	CHR14:98170849-99170849	1,458	1.56E-03	9.17E-01	8.63E-05	5.07E-02	3.10E-02
Cognitive function	GP8	CHR15:40722487-41722487	511	3.42E-03	9.49E-01	9.01E-05	2.50E-02	2.23E-02
Cognitive function	GP8	CHR4:102688709-103688709	848	3.85E-17	8.55E-01	1.03E-18	2.29E-02	1.22E-01
Cognitive function	GP8	CHR4:10204137-11204137	1,297	1.11E-03	9.04E-01	5.06E-05	4.11E-02	5.36E-02
Cognitive function	GP8	CHR8:13502020-14502020	2,100	1.55E-04	9.10E-01	1.18E-05	6.92E-02	2.04E-02
Cognitive function	GP8	CHR4:105651843-106651843	822	5.54E-13	9.52E-01	1.80E-14	3.09E-02	1.71E-02
Cognitive function	GP8	CHR10:101412194-102412194	670	5.78E-03	9.63E-01	1.27E-04	2.12E-02	1.02E-02
Cognitive function	GP8	CHR5:100605998-101605998	1,014	2.79E-02	9.20E-01	1.04E-03	3.43E-02	1.66E-02
Cognitive function	GP8	CHR16:7157373-8157373	2,095	8.13E-04	8.60E-01	1.20E-04	1.26E-01	1.27E-02
Cognitive function	GP8	CHR3:35027409-36027409	857	1.39E-03	9.60E-01	3.70E-05	2.55E-02	1.30E-02
Cognitive function	GP8	CHR16:50450805-51450805	824	2.89E-03	8.58E-01	2.76E-04	8.17E-02	5.66E-02
Cognitive function	GP8	CHR19:12030177-13030177	417	8.89E-05	9.36E-01	1.29E-06	1.35E-02	5.05E-02
Cognitive function	GP8	CHR2:57448003-58448003	968	4.23E-03	8.51E-01	5.41E-04	1.09E-01	3.59E-02
Cognitive function	GP8	CHR14:69216957-70216957	770	8.15E-03	9.49E-01	2.37E-04	2.76E-02	1.48E-02
Cognitive function	GP8	CHR2:32236043-33236043	575	1.40E-02	9.13E-01	4.95E-04	3.22E-02	4.07E-02
Cognitive function	GP8	CHR1:41281151-42281151	947	1.09E-10	9.45E-01	4.91E-12	4.24E-02	1.28E-02
Cognitive function	GP8	CHR6:98050289-99050289	793	1.34E-20	9.37E-01	4.85E-22	3.39E-02	2.91E-02
Cognitive function	GP8	CHR1:21930069-22930069	924	7.20E-03	8.84E-01	5.50E-04	6.75E-02	4.07E-02
Cognitive function	GP8	CHR14:26677910-27677910	973	1.49E-03	9.51E-01	5.41E-05	3.44E-02	1.33E-02
Cognitive function	GP8	CHR14:32792743-33792743	1,306	8.17E-07	9.37E-01	4.34E-08	4.97E-02	1.35E-02
Cognitive function	GP8	CHR4:2217690-3217690	635	1.85E-05	1.60E-01	9.68E-05	8.37E-01	2.24E-03
Cognitive function	GP8	CHR3:49390613-50390613	355	2.01E-22	9.78E-01	1.60E-24	7.78E-03	1.42E-02
Cognitive function	GP8	CHR9:111375463-112375463	1,491	2.51E-02	9.11E-01	1.43E-03	5.17E-02	1.04E-02
Cognitive function	GP8	CHR16:51077196-52077196	966	1.14E-02	8.84E-01	1.14E-03	8.78E-02	1.58E-02
Cognitive function	GP8	CHR8:145244429-146244429	295	6.29E-03	9.69E-01	7.03E-05	1.08E-02	1.38E-02
Cognitive function	GP8	CHR8:30513470-31513470	848	2.16E-04	9.64E-01	5.61E-06	2.51E-02	1.06E-02
Cognitive function	GP8	CHR16:12656649-13656649	1,454	4.00E-02	8.51E-01	3.53E-03	7.50E-02	3.07E-02
Cognitive function	GP8	CHR10:129613462-130613462	1,268	7.40E-02	8.72E-01	3.36E-03	3.96E-02	1.13E-02
Cognitive function	GP8	CHR21:40016070-41016070	1,171	6.10E-03	8.92E-01	3.77E-04	5.51E-02	4.66E-02
Cognitive function	GP8	CHR8:141045193-142045193	683	6.57E-03	9.54E-01	1.69E-04	2.45E-02	1.52E-02
Cognitive function	GP8	CHR1:72249848-73249848	888	2.52E-15	9.52E-01	9.09E-17	3.43E-02	1.41E-02
Cognitive function	GP8	CHR7:44300176-45300176	792	1.61E-06	9.60E-01	4.02E-08	2.40E-02	1.64E-02
Cognitive function	GP8	CHR10:103065960-104065960	411	2.20E-11	9.79E-01	2.31E-13	1.02E-02	1.12E-02
Cognitive function	GP8	CHR4:65331184-66331184	973	1.79E-03	9.40E-01	8.23E-05	4.32E-02	1.50E-02
Cognitive function	GP8	CHR5:91977890-92977890	654	1.60E-03	9.66E-01	3.29E-05	1.98E-02	1.23E-02
Cognitive function	GP8	CHR2:43685129-44685129	1,176	2.09E-02	9.23E-01	9.26E-04	4.09E-02	1.43E-02
Cognitive function	GP8	CHR5:139045748-140045748	464	1.26E-08	9.54E-01	2.06E-10	1.55E-02	3.05E-02
Cognitive function	GP8	CHR9:95771752-96771752	1,092	1.23E-04	9.23E-01	5.15E-06	3.87E-02	3.84E-02

Cognitive function	GP8	CHR11:133314713-134314713	983	4.91E-02	8.98E-01	1.56E-03	2.85E-02	2.29E-02
Cognitive function	GP8	CHR8:142811653-143811653	792	1.76E-05	8.38E-01	4.40E-07	2.09E-02	1.41E-01
Cognitive function	GP8	CHR22:41870991-42870991	630	3.28E-08	9.51E-01	7.97E-10	2.31E-02	2.57E-02
Cognitive function	GP8	CHR22:39329736-40329736	668	1.38E-07	5.87E-02	4.28E-08	1.73E-02	9.24E-01
Cognitive function	GP8	CHR11:95061682-96061682	1,210	4.85E-06	9.36E-01	2.62E-07	5.05E-02	1.38E-02
Cognitive function	GP8	CHR6:11008671-12008671	1,392	7.97E-05	9.18E-01	5.87E-06	6.76E-02	1.44E-02
Cognitive function	GP8	CHR4:152092933-153092933	776	1.24E-06	9.49E-01	4.78E-08	3.67E-02	1.42E-02
Cognitive function	GP8	CHR1:59040811-60040811	936	2.27E-04	6.97E-01	9.23E-06	2.80E-02	2.75E-01
Cognitive function	GP8	CHR4:67470101-68470101	889	7.69E-05	9.26E-01	5.20E-06	6.26E-02	1.13E-02
Cognitive function	GP8	CHR6:21456404-22456404	1,039	1.02E-02	9.13E-01	7.12E-04	6.39E-02	1.21E-02
Cognitive function	GP8	CHR7:133031432-134031432	895	4.12E-08	9.35E-01	1.58E-09	3.58E-02	2.96E-02
Cognitive function	GP8	CHR9:134366271-135366271	938	7.83E-03	9.45E-01	2.41E-04	2.91E-02	1.80E-02
Cognitive function	GP8	CHR19:31452890-32452890	790	3.01E-04	9.43E-01	8.22E-06	2.57E-02	3.11E-02
Cognitive function	GP8	CHR2:198429896-199429896	640	1.77E-02	9.49E-01	3.98E-04	2.14E-02	1.19E-02
Cognitive function	GP8	CHR3:11975088-12975088	873	1.54E-03	9.49E-01	5.52E-05	3.39E-02	1.53E-02
Cognitive function	GP8	CHR12:79185226-80185226	750	1.14E-08	9.40E-01	5.75E-10	4.75E-02	1.26E-02
Cognitive function	GP8	CHR16:52998655-53998655	760	2.03E-10	9.62E-01	5.65E-12	2.68E-02	1.13E-02
Cognitive function	GP8	CHR16:76024013-77024013	1,094	1.01E-01	8.30E-01	4.73E-03	3.87E-02	2.54E-02
Cognitive function	GP8	CHR5:164973194-165973194	1,001	9.56E-05	9.07E-01	4.99E-06	4.72E-02	4.61E-02
Cognitive function	GP8	CHR1:37365954-38365954	682	3.40E-02	9.28E-01	9.62E-04	2.63E-02	1.05E-02
Cognitive function	GP8	CHR6:108364419-109364419	723	3.19E-15	9.48E-01	1.26E-16	3.74E-02	1.42E-02
Cognitive function	GP8	CHR1:68927576-69927576	757	9.10E-07	9.51E-01	2.74E-08	2.86E-02	2.08E-02
Cognitive function	GP8	CHR16:61694176-62694176	894	9.65E-05	9.53E-01	3.34E-06	3.30E-02	1.41E-02
Cognitive function	GP9	CHR7:157036448-158036448	761	1.83E-04	9.54E-01	4.81E-06	2.50E-02	2.10E-02
Cognitive function	GP9	CHR14:103518455-104518455	651	7.86E-05	9.66E-01	1.80E-06	2.21E-02	1.13E-02
Cognitive function	GP9	CHR2:60213235-61213235	824	7.08E-09	9.41E-01	2.85E-10	3.79E-02	2.08E-02
Cognitive function	GP9	CHR15:51696830-52696830	708	3.57E-05	9.15E-01	2.13E-06	5.45E-02	3.02E-02
Cognitive function	GP9	CHR11:47140429-48140429	457	1.18E-04	9.77E-01	1.18E-06	9.76E-03	1.28E-02
Cognitive function	GP9	CHR12:48922094-49922094	448	1.13E-09	9.51E-01	1.57E-11	1.32E-02	3.62E-02
Cognitive function	GP9	CHR17:46590785-47590785	651	1.69E-04	9.53E-01	3.73E-06	2.10E-02	2.57E-02
Cognitive function	GP9	CHR1:216330128-217330128	1,418	1.99E-04	9.35E-01	9.97E-06	4.69E-02	1.82E-02
Cognitive function	GP9	CHR9:71610562-72610562	994	4.30E-02	9.02E-01	1.85E-03	3.88E-02	1.40E-02
Cognitive function	GP9	CHR1:43529353-44529353	772	3.84E-05	9.47E-01	1.23E-06	3.03E-02	2.28E-02
Cognitive function	GP9	CHR1:109530945-110530945	642	6.11E-08	9.60E-01	1.74E-09	2.73E-02	1.30E-02
Cognitive function	GP9	CHR3:71045170-72045170	874	7.50E-03	9.22E-01	2.42E-04	2.97E-02	4.10E-02
Cognitive function	GP9	CHR14:98170849-99170849	1,458	1.49E-03	8.77E-01	1.04E-04	6.08E-02	6.03E-02
Cognitive function	GP9	CHR15:40722487-41722487	511	3.46E-03	9.59E-01	5.46E-05	1.51E-02	2.24E-02
Cognitive function	GP9	CHR4:102688709-103688709	848	4.24E-17	9.42E-01	1.24E-18	2.75E-02	3.03E-02
Cognitive function	GP9	CHR4:10204137-11204137	1,297	1.15E-03	9.37E-01	5.74E-05	4.67E-02	1.54E-02
Cognitive function	GP9	CHR8:13502020-14502020	2,100	1.47E-04	8.66E-01	2.08E-05	1.22E-01	1.20E-02
Cognitive function	GP9	CHR4:105651843-106651843	822	5.35E-13	9.18E-01	1.63E-14	2.79E-02	5.36E-02
Cognitive function	GP9	CHR10:101412194-102412194	670	5.79E-03	9.64E-01	1.19E-04	1.98E-02	1.03E-02
Cognitive function	GP9	CHR5:100605998-101605998	1,014	2.75E-02	9.06E-01	1.50E-03	4.95E-02	1.51E-02
Cognitive function	GP9	CHR16:7157373-8157373	2,095	8.63E-04	9.12E-01	6.58E-05	6.95E-02	1.74E-02
Cognitive function	GP9	CHR3:35027409-36027409	857	1.36E-03	9.36E-01	5.39E-05	3.72E-02	2.55E-02
Cognitive function	GP9	CHR16:50450805-51450805	824	3.20E-03	9.50E-01	9.11E-05	2.70E-02	1.95E-02
Cognitive function	GP9	CHR19:12030177-13030177	417	9.06E-05	9.54E-01	2.08E-06	2.18E-02	2.42E-02
Cognitive function	GP9	CHR2:57448003-58448003	968	4.57E-03	9.18E-01	1.45E-04	2.92E-02	4.78E-02
Cognitive function	GP9	CHR14:69216957-70216957	770	7.52E-03	8.76E-01	1.75E-04	2.03E-02	9.61E-02

Cognitive function	GP9	CHR2:32236043-33236043	575	1.45E-02	9.47E-01	3.35E-04	2.18E-02	1.63E-02
Cognitive function	GP9	CHR1:41281151-42281151	947	6.53E-11	5.64E-01	4.94E-11	4.27E-01	9.24E-03
Cognitive function	GP9	CHR6:98050289-99050289	793	1.38E-20	9.64E-01	3.66E-22	2.56E-02	1.02E-02
Cognitive function	GP9	CHR1:21930069-22930069	924	7.68E-03	9.43E-01	2.57E-04	3.15E-02	1.71E-02
Cognitive function	GP9	CHR14:26677910-27677910	973	1.46E-03	9.26E-01	6.51E-05	4.14E-02	3.14E-02
Cognitive function	GP9	CHR14:32792743-33792743	1,306	8.23E-07	9.43E-01	3.83E-08	4.38E-02	1.32E-02
Cognitive function	GP9	CHR4:2217690-3217690	635	1.02E-04	8.85E-01	9.49E-06	8.20E-02	3.32E-02
Cognitive function	GP9	CHR3:49390613-50390613	355	2.00E-22	9.74E-01	2.00E-24	9.74E-03	1.61E-02
Cognitive function	GP9	CHR9:111375463-112375463	1,491	1.84E-02	6.68E-01	2.33E-03	8.45E-02	2.27E-01
Cognitive function	GP9	CHR16:51077196-52077196	966	1.20E-02	9.26E-01	4.28E-04	3.31E-02	2.89E-02
Cognitive function	GP9	CHR8:145244429-146244429	295	6.11E-03	9.41E-01	2.31E-04	3.55E-02	1.75E-02
Cognitive function	GP9	CHR8:30513470-31513470	848	2.07E-04	9.25E-01	1.41E-05	6.28E-02	1.19E-02
Cognitive function	GP9	CHR16:12656649-13656649	1,454	4.18E-02	8.87E-01	2.24E-03	4.76E-02	2.10E-02
Cognitive function	GP9	CHR10:129613462-130613462	1,268	7.16E-02	8.44E-01	5.87E-03	6.91E-02	9.61E-03
Cognitive function	GP9	CHR21:40016070-41016070	1,171	6.38E-03	9.33E-01	2.74E-04	4.00E-02	2.02E-02
Cognitive function	GP9	CHR8:141045193-142045193	683	6.06E-03	8.79E-01	1.58E-04	2.28E-02	9.16E-02
Cognitive function	GP9	CHR1:72249848-73249848	888	2.49E-15	9.41E-01	1.11E-16	4.20E-02	1.68E-02
Cognitive function	GP9	CHR7:44300176-45300176	792	1.51E-06	9.04E-01	1.23E-07	7.36E-02	2.28E-02
Cognitive function	GP9	CHR10:103065960-104065960	411	2.20E-11	9.78E-01	2.45E-13	1.09E-02	1.08E-02
Cognitive function	GP9	CHR4:65331184-66331184	973	1.83E-03	9.58E-01	5.05E-05	2.65E-02	1.35E-02
Cognitive function	GP9	CHR5:91977890-92977890	654	1.60E-03	9.64E-01	3.94E-05	2.38E-02	1.06E-02
Cognitive function	GP9	CHR2:43685129-44685129	1,176	2.11E-02	9.33E-01	7.40E-04	3.27E-02	1.27E-02
Cognitive function	GP9	CHR5:139045748-140045748	464	1.16E-08	8.79E-01	8.06E-10	6.08E-02	5.98E-02
Cognitive function	GP9	CHR9:95771752-96771752	1,092	1.27E-04	9.57E-01	3.79E-06	2.85E-02	1.44E-02
Cognitive function	GP9	CHR11:133314713-134314713	983	4.37E-02	8.00E-01	2.02E-03	3.69E-02	1.18E-01
Cognitive function	GP9	CHR8:142811653-143811653	792	1.96E-05	9.33E-01	9.23E-07	4.40E-02	2.27E-02
Cognitive function	GP9	CHR22:41870991-42870991	630	3.34E-08	9.68E-01	6.02E-10	1.74E-02	1.42E-02
Cognitive function	GP9	CHR22:39329736-40329736	668	2.22E-06	9.50E-01	8.67E-08	3.70E-02	1.33E-02
Cognitive function	GP9	CHR11:95061682-96061682	1,210	4.88E-06	9.41E-01	1.99E-07	3.84E-02	2.08E-02
Cognitive function	GP9	CHR6:11008671-12008671	1,392	7.81E-05	8.99E-01	4.21E-06	4.84E-02	5.21E-02
Cognitive function	GP9	CHR4:152092933-153092933	776	1.24E-06	9.54E-01	3.97E-08	3.04E-02	1.56E-02
Cognitive function	GP9	CHR1:59040811-60040811	936	3.11E-04	9.53E-01	1.03E-05	3.17E-02	1.46E-02
Cognitive function	GP9	CHR4:67470101-68470101	889	7.97E-05	9.59E-01	2.30E-06	2.76E-02	1.29E-02
Cognitive function	GP9	CHR6:21456404-22456404	1,039	4.98E-03	4.47E-01	5.98E-03	5.36E-01	5.28E-03
Cognitive function	GP9	CHR7:133031432-134031432	895	4.18E-08	9.48E-01	1.23E-09	2.79E-02	2.37E-02
Cognitive function	GP9	CHR9:134366271-135366271	938	7.84E-03	9.45E-01	2.87E-04	3.47E-02	1.18E-02
Cognitive function	GP9	CHR19:31452890-32452890	790	2.92E-04	9.15E-01	1.28E-05	3.99E-02	4.50E-02
Cognitive function	GP9	CHR2:198429896-199429896	640	1.77E-02	9.53E-01	2.96E-04	1.59E-02	1.34E-02
Cognitive function	GP9	CHR3:11975088-12975088	873	1.54E-03	9.51E-01	5.43E-05	3.34E-02	1.43E-02
Cognitive function	GP9	CHR12:79185226-80185226	750	1.14E-08	9.40E-01	4.25E-10	3.51E-02	2.48E-02
Cognitive function	GP9	CHR16:52998655-53998655	760	2.03E-10	9.64E-01	4.94E-12	2.34E-02	1.24E-02
Cognitive function	GP9	CHR16:76024013-77024013	1,094	1.02E-01	8.32E-01	4.88E-03	3.99E-02	2.12E-02
Cognitive function	GP9	CHR5:164973194-165973194	1,001	9.99E-05	9.47E-01	3.77E-06	3.57E-02	1.72E-02
Cognitive function	GP9	CHR1:37365954-38365954	682	3.15E-02	8.61E-01	1.04E-03	2.84E-02	7.84E-02
Cognitive function	GP9	CHR6:108364419-109364419	723	3.23E-15	9.60E-01	8.45E-17	2.51E-02	1.47E-02
Cognitive function	GP9	CHR1:68927576-69927576	757	8.95E-07	9.36E-01	4.25E-08	4.44E-02	2.01E-02
Cognitive function	GP9	CHR16:61694176-62694176	894	9.52E-05	9.40E-01	4.60E-06	4.54E-02	1.45E-02
Cognitive function	GP10	CHR7:157036448-158036448	761	1.82E-04	9.46E-01	6.23E-06	3.24E-02	2.13E-02
Cognitive function	GP10	CHR14:103518455-104518455	651	7.71E-05	9.48E-01	3.30E-06	4.06E-02	1.17E-02

Cognitive function	GP10	CHR2:60213235-61213235	824	7.14E-09	9.49E-01	2.92E-10	3.89E-02	1.16E-02
Cognitive function	GP10	CHR15:51696830-52696830	708	3.69E-05	9.47E-01	1.04E-06	2.65E-02	2.68E-02
Cognitive function	GP10	CHR11:47140429-48140429	457	1.17E-04	9.70E-01	2.06E-06	1.71E-02	1.23E-02
Cognitive function	GP10	CHR12:48922094-49922094	448	1.11E-09	9.39E-01	3.43E-11	2.89E-02	3.20E-02
Cognitive function	GP10	CHR17:46590785-47590785	651	1.68E-04	9.45E-01	6.75E-06	3.79E-02	1.68E-02
Cognitive function	GP10	CHR1:216330128-217330128	1,418	1.95E-04	9.17E-01	1.47E-05	6.93E-02	1.33E-02
Cognitive function	GP10	CHR9:71610562-72610562	994	4.24E-02	8.90E-01	2.42E-03	5.09E-02	1.46E-02
Cognitive function	GP10	CHR1:43529353-44529353	772	3.86E-05	9.51E-01	1.06E-06	2.62E-02	2.28E-02
Cognitive function	GP10	CHR1:109530945-110530945	642	6.12E-08	9.61E-01	1.27E-09	1.99E-02	1.88E-02
Cognitive function	GP10	CHR3:71045170-72045170	874	7.64E-03	9.40E-01	2.91E-04	3.57E-02	1.68E-02
Cognitive function	GP10	CHR14:98170849-99170849	1,458	1.59E-03	9.35E-01	8.54E-05	5.02E-02	1.27E-02
Cognitive function	GP10	CHR15:40722487-41722487	511	3.39E-03	9.40E-01	5.06E-05	1.40E-02	4.27E-02
Cognitive function	GP10	CHR4:102688709-103688709	848	4.18E-17	9.29E-01	1.75E-18	3.89E-02	3.22E-02
Cognitive function	GP10	CHR4:10204137-11204137	1,297	1.14E-03	9.24E-01	6.25E-05	5.08E-02	2.42E-02
Cognitive function	GP10	CHR8:13502020-14502020	2,100	1.54E-04	9.08E-01	1.33E-05	7.81E-02	1.40E-02
Cognitive function	GP10	CHR4:105651843-106651843	822	4.82E-13	8.27E-01	2.82E-14	4.83E-02	1.25E-01
Cognitive function	GP10	CHR10:101412194-102412194	670	5.64E-03	9.40E-01	2.36E-04	3.94E-02	1.47E-02
Cognitive function	GP10	CHR5:100605998-101605998	1,014	2.79E-02	9.18E-01	1.04E-03	3.43E-02	1.84E-02
Cognitive function	GP10	CHR16:7157373-8157373	2,095	7.97E-04	8.43E-01	1.37E-04	1.45E-01	1.11E-02
Cognitive function	GP10	CHR3:35027409-36027409	857	1.38E-03	9.51E-01	5.39E-05	3.71E-02	1.05E-02
Cognitive function	GP10	CHR16:50450805-51450805	824	3.10E-03	9.19E-01	1.69E-04	5.03E-02	2.71E-02
Cognitive function	GP10	CHR19:12030177-13030177	417	8.85E-05	9.32E-01	3.84E-06	4.04E-02	2.74E-02
Cognitive function	GP10	CHR2:57448003-58448003	968	4.72E-03	9.48E-01	1.18E-04	2.38E-02	2.31E-02
Cognitive function	GP10	CHR14:69216957-70216957	770	8.05E-03	9.38E-01	1.90E-04	2.21E-02	3.22E-02
Cognitive function	GP10	CHR2:32236043-33236043	575	1.47E-02	9.55E-01	2.80E-04	1.82E-02	1.18E-02
Cognitive function	GP10	CHR1:41281151-42281151	947	1.09E-10	9.41E-01	4.01E-12	3.46E-02	2.39E-02
Cognitive function	GP10	CHR6:98050289-99050289	793	1.37E-20	9.58E-01	3.63E-22	2.54E-02	1.63E-02
Cognitive function	GP10	CHR1:21930069-22930069	924	7.42E-03	9.11E-01	3.12E-04	3.82E-02	4.31E-02
Cognitive function	GP10	CHR14:26677910-27677910	973	1.45E-03	9.21E-01	7.13E-05	4.53E-02	3.20E-02
Cognitive function	GP10	CHR14:32792743-33792743	1,306	8.10E-07	9.29E-01	4.53E-08	5.18E-02	1.96E-02
Cognitive function	GP10	CHR4:2217690-3217690	635	9.73E-05	8.42E-01	3.61E-06	3.11E-02	1.27E-01
Cognitive function	GP10	CHR3:49390613-50390613	355	2.01E-22	9.76E-01	1.90E-24	9.24E-03	1.45E-02
Cognitive function	GP10	CHR9:111375463-112375463	1,491	2.38E-02	8.64E-01	1.75E-03	6.36E-02	4.70E-02
Cognitive function	GP10	CHR16:51077196-52077196	966	1.19E-02	9.21E-01	5.85E-04	4.52E-02	2.18E-02
Cognitive function	GP10	CHR8:145244429-146244429	295	6.28E-03	9.67E-01	6.78E-05	1.04E-02	1.61E-02
Cognitive function	GP10	CHR8:30513470-31513470	848	2.02E-04	9.02E-01	6.83E-06	3.05E-02	6.72E-02
Cognitive function	GP10	CHR16:12656649-13656649	1,454	4.15E-02	8.83E-01	2.69E-03	5.72E-02	1.59E-02
Cognitive function	GP10	CHR10:129613462-130613462	1,268	7.21E-02	8.50E-01	4.69E-03	5.52E-02	1.81E-02
Cognitive function	GP10	CHR21:40016070-41016070	1,171	6.01E-03	8.79E-01	2.97E-04	4.34E-02	7.12E-02
Cognitive function	GP10	CHR8:141045193-142045193	683	6.00E-03	8.72E-01	1.49E-04	2.16E-02	1.01E-01
Cognitive function	GP10	CHR1:72249848-73249848	888	2.54E-15	9.58E-01	7.63E-17	2.88E-02	1.36E-02
Cognitive function	GP10	CHR7:44300176-45300176	792	1.58E-06	9.44E-01	6.41E-08	3.83E-02	1.82E-02
Cognitive function	GP10	CHR10:103065960-104065960	411	2.19E-11	9.76E-01	2.92E-13	1.30E-02	1.09E-02
Cognitive function	GP10	CHR4:65331184-66331184	973	1.82E-03	9.56E-01	5.37E-05	2.82E-02	1.35E-02
Cognitive function	GP10	CHR5:91977890-92977890	654	1.60E-03	9.63E-01	3.60E-05	2.17E-02	1.39E-02
Cognitive function	GP10	CHR2:43685129-44685129	1,176	2.11E-02	9.32E-01	7.70E-04	3.40E-02	1.23E-02
Cognitive function	GP10	CHR5:139045748-140045748	464	1.26E-08	9.49E-01	2.62E-10	1.98E-02	3.10E-02
Cognitive function	GP10	CHR9:95771752-96771752	1,092	1.25E-04	9.43E-01	4.21E-06	3.16E-02	2.55E-02
Cognitive function	GP10	CHR11:133314713-134314713	983	4.68E-02	8.56E-01	3.90E-03	7.13E-02	2.18E-02

Cognitive function	GP10	CHR8:142811653-143811653	792	9.69E-06	4.63E-01	1.08E-05	5.16E-01	2.16E-02
Cognitive function	GP10	CHR22:41870991-42870991	630	3.30E-08	9.57E-01	7.59E-10	2.20E-02	2.06E-02
Cognitive function	GP10	CHR22:39329736-40329736	668	3.51E-29	1.50E-23	2.12E-08	8.04E-03	9.92E-01
Cognitive function	GP10	CHR11:95061682-96061682	1,210	4.88E-06	9.40E-01	2.12E-07	4.09E-02	1.90E-02
Cognitive function	GP10	CHR6:11008671-12008671	1,392	7.99E-05	9.20E-01	5.47E-06	6.30E-02	1.64E-02
Cognitive function	GP10	CHR4:152092933-153092933	776	1.24E-06	9.51E-01	4.01E-08	3.07E-02	1.80E-02
Cognitive function	GP10	CHR1:59040811-60040811	936	3.09E-04	9.47E-01	1.33E-05	4.08E-02	1.23E-02
Cognitive function	GP10	CHR4:67470101-68470101	889	7.96E-05	9.59E-01	2.31E-06	2.78E-02	1.36E-02
Cognitive function	GP10	CHR6:21456404-22456404	1,039	1.01E-02	9.08E-01	5.87E-04	5.27E-02	2.82E-02
Cognitive function	GP10	CHR7:133031432-134031432	895	3.84E-08	8.70E-01	2.59E-09	5.88E-02	7.13E-02
Cognitive function	GP10	CHR9:134366271-135366271	938	7.61E-03	9.18E-01	3.90E-04	4.70E-02	2.73E-02
Cognitive function	GP10	CHR19:31452890-32452890	790	3.05E-04	9.56E-01	7.71E-06	2.41E-02	1.96E-02
Cognitive function	GP10	CHR2:198429896-199429896	640	1.77E-02	9.52E-01	2.84E-04	1.52E-02	1.43E-02
Cognitive function	GP10	CHR3:11975088-12975088	873	1.53E-03	9.43E-01	6.25E-05	3.85E-02	1.65E-02
Cognitive function	GP10	CHR12:79185226-80185226	750	1.16E-08	9.62E-01	2.97E-10	2.45E-02	1.34E-02
Cognitive function	GP10	CHR16:52998655-53998655	760	2.02E-10	9.59E-01	5.97E-12	2.83E-02	1.26E-02
Cognitive function	GP10	CHR16:76024013-77024013	1,094	1.01E-01	8.28E-01	6.04E-03	4.94E-02	1.51E-02
Cognitive function	GP10	CHR5:164973194-165973194	1,001	9.95E-05	9.44E-01	4.46E-06	4.22E-02	1.38E-02
Cognitive function	GP10	CHR1:37365954-38365954	682	3.31E-02	9.05E-01	1.74E-03	4.74E-02	1.25E-02
Cognitive function	GP10	CHR6:108364419-109364419	723	3.20E-15	9.50E-01	8.18E-17	2.43E-02	2.56E-02
Cognitive function	GP10	CHR1:68927576-69927576	757	8.35E-07	8.72E-01	3.86E-08	4.02E-02	8.78E-02
Cognitive function	GP10	CHR16:61694176-62694176	894	9.61E-05	9.48E-01	3.38E-06	3.34E-02	1.84E-02
Cognitive function	GP11	CHR7:157036448-158036448	761	1.84E-04	9.55E-01	4.91E-06	2.55E-02	1.89E-02
Cognitive function	GP11	CHR14:103518455-104518455	651	7.81E-05	9.60E-01	2.30E-06	2.83E-02	1.20E-02
Cognitive function	GP11	CHR2:60213235-61213235	824	7.21E-09	9.59E-01	2.15E-10	2.86E-02	1.25E-02
Cognitive function	GP11	CHR15:51696830-52696830	708	3.66E-05	9.39E-01	1.36E-06	3.47E-02	2.60E-02
Cognitive function	GP11	CHR11:47140429-48140429	457	1.10E-04	9.13E-01	2.55E-06	2.12E-02	6.61E-02
Cognitive function	GP11	CHR12:48922094-49922094	448	1.15E-09	9.72E-01	1.70E-11	1.43E-02	1.38E-02
Cognitive function	GP11	CHR17:46590785-47590785	651	1.67E-04	9.39E-01	7.63E-06	4.29E-02	1.75E-02
Cognitive function	GP11	CHR1:216330128-217330128	1,418	1.83E-04	8.58E-01	2.41E-05	1.13E-01	2.83E-02
Cognitive function	GP11	CHR9:71610562-72610562	994	4.33E-02	9.09E-01	1.58E-03	3.31E-02	1.29E-02
Cognitive function	GP11	CHR1:43529353-44529353	772	3.89E-05	9.59E-01	8.75E-07	2.16E-02	1.95E-02
Cognitive function	GP11	CHR1:109530945-110530945	642	6.08E-08	9.55E-01	2.07E-09	3.26E-02	1.28E-02
Cognitive function	GP11	CHR3:71045170-72045170	874	7.69E-03	9.45E-01	2.56E-04	3.15E-02	1.58E-02
Cognitive function	GP11	CHR14:98170849-99170849	1,458	1.42E-03	8.33E-01	1.02E-04	5.97E-02	1.06E-01
Cognitive function	GP11	CHR15:40722487-41722487	511	3.31E-03	9.17E-01	2.08E-04	5.75E-02	2.17E-02
Cognitive function	GP11	CHR4:102688709-103688709	848	4.21E-17	9.36E-01	1.86E-18	4.13E-02	2.30E-02
Cognitive function	GP11	CHR4:10204137-11204137	1,297	1.15E-03	9.35E-01	4.62E-05	3.75E-02	2.58E-02
Cognitive function	GP11	CHR8:13502020-14502020	2,100	7.97E-05	4.68E-01	8.84E-05	5.20E-01	1.18E-02
Cognitive function	GP11	CHR4:105651843-106651843	822	5.50E-13	9.45E-01	1.65E-14	2.83E-02	2.69E-02
Cognitive function	GP11	CHR10:101412194-102412194	670	5.77E-03	9.61E-01	1.02E-04	1.70E-02	1.62E-02
Cognitive function	GP11	CHR5:100605998-101605998	1,014	2.76E-02	9.07E-01	1.54E-03	5.06E-02	1.30E-02
Cognitive function	GP11	CHR16:7157373-8157373	2,095	8.51E-04	8.99E-01	8.25E-05	8.72E-02	1.26E-02
Cognitive function	GP11	CHR3:35027409-36027409	857	1.38E-03	9.54E-01	4.05E-05	2.79E-02	1.71E-02
Cognitive function	GP11	CHR16:50450805-51450805	824	2.99E-03	8.88E-01	3.11E-04	9.24E-02	1.65E-02
Cognitive function	GP11	CHR19:12030177-13030177	417	9.13E-05	9.61E-01	1.41E-06	1.48E-02	2.37E-02
Cognitive function	GP11	CHR2:57448003-58448003	968	4.75E-03	9.54E-01	1.14E-04	2.30E-02	1.80E-02
Cognitive function	GP11	CHR14:69216957-70216957	770	8.21E-03	9.57E-01	1.73E-04	2.01E-02	1.49E-02
Cognitive function	GP11	CHR2:32236043-33236043	575	1.44E-02	9.38E-01	4.09E-04	2.66E-02	2.07E-02

Cognitive function	GP11	CHR1:41281151-42281151	947	1.04E-10	9.02E-01	6.43E-12	5.56E-02	4.23E-02
Cognitive function	GP11	CHR6:98050289-99050289	793	1.34E-20	9.38E-01	6.61E-22	4.62E-02	1.57E-02
Cognitive function	GP11	CHR1:21930069-22930069	924	7.45E-03	9.15E-01	4.63E-04	5.69E-02	2.04E-02
Cognitive function	GP11	CHR14:26677910-27677910	973	1.44E-03	9.19E-01	6.80E-05	4.32E-02	3.65E-02
Cognitive function	GP11	CHR14:32792743-33792743	1,306	8.09E-07	9.27E-01	5.05E-08	5.78E-02	1.48E-02
Cognitive function	GP11	CHR4:2217690-3217690	635	1.12E-04	9.70E-01	2.25E-06	1.95E-02	1.05E-02
Cognitive function	GP11	CHR3:49390613-50390613	355	1.98E-22	9.64E-01	1.89E-24	9.17E-03	2.67E-02
Cognitive function	GP11	CHR9:111375463-112375463	1,491	2.47E-02	8.97E-01	1.71E-03	6.21E-02	1.40E-02
Cognitive function	GP11	CHR16:51077196-52077196	966	1.12E-02	8.69E-01	1.34E-03	1.04E-01	1.50E-02
Cognitive function	GP11	CHR8:145244429-146244429	295	6.30E-03	9.71E-01	5.53E-05	8.51E-03	1.41E-02
Cognitive function	GP11	CHR8:30513470-31513470	848	2.10E-04	9.40E-01	7.77E-06	3.47E-02	2.46E-02
Cognitive function	GP11	CHR16:12656649-13656649	1,454	4.12E-02	8.77E-01	2.67E-03	5.68E-02	2.28E-02
Cognitive function	GP11	CHR10:129613462-130613462	1,268	7.30E-02	8.61E-01	3.59E-03	4.23E-02	2.01E-02
Cognitive function	GP11	CHR21:40016070-41016070	1,171	6.43E-03	9.41E-01	2.79E-04	4.08E-02	1.14E-02
Cognitive function	GP11	CHR8:141045193-142045193	683	6.58E-03	9.55E-01	1.17E-04	1.70E-02	2.09E-02
Cognitive function	GP11	CHR1:72249848-73249848	888	2.54E-15	9.59E-01	6.84E-17	2.58E-02	1.52E-02
Cognitive function	GP11	CHR7:44300176-45300176	792	1.60E-06	9.53E-01	4.90E-08	2.93E-02	1.74E-02
Cognitive function	GP11	CHR10:103065960-104065960	411	2.16E-11	9.62E-01	5.39E-13	2.40E-02	1.38E-02
Cognitive function	GP11	CHR4:65331184-66331184	973	1.81E-03	9.48E-01	6.53E-05	3.43E-02	1.57E-02
Cognitive function	GP11	CHR5:91977890-92977890	654	1.56E-03	9.43E-01	7.50E-05	4.53E-02	1.04E-02
Cognitive function	GP11	CHR2:43685129-44685129	1,176	1.10E-02	4.86E-01	1.04E-02	4.58E-01	3.39E-02
Cognitive function	GP11	CHR5:139045748-140045748	464	1.27E-08	9.62E-01	2.30E-10	1.73E-02	2.02E-02
Cognitive function	GP11	CHR9:95771752-96771752	1,092	1.27E-04	9.57E-01	3.79E-06	2.85E-02	1.41E-02
Cognitive function	GP11	CHR11:133314713-134314713	983	3.78E-02	6.91E-01	1.52E-03	2.75E-02	2.42E-01
Cognitive function	GP11	CHR8:142811653-143811653	792	1.22E-05	5.81E-01	8.51E-06	4.06E-01	1.24E-02
Cognitive function	GP11	CHR22:41870991-42870991	630	3.25E-08	9.44E-01	8.78E-10	2.55E-02	3.09E-02
Cognitive function	GP11	CHR22:39329736-40329736	668	1.60E-16	6.81E-11	2.25E-08	8.60E-03	9.91E-01
Cognitive function	GP11	CHR11:95061682-96061682	1,210	4.91E-06	9.46E-01	1.83E-07	3.52E-02	1.88E-02
Cognitive function	GP11	CHR6:11008671-12008671	1,392	8.16E-05	9.40E-01	4.01E-06	4.62E-02	1.40E-02
Cognitive function	GP11	CHR4:152092933-153092933	776	1.23E-06	9.44E-01	3.59E-08	2.75E-02	2.85E-02
Cognitive function	GP11	CHR1:59040811-60040811	936	1.70E-04	5.23E-01	1.08E-05	3.26E-02	4.44E-01
Cognitive function	GP11	CHR4:67470101-68470101	889	7.94E-05	9.56E-01	2.63E-06	3.16E-02	1.27E-02
Cognitive function	GP11	CHR6:21456404-22456404	1,039	1.04E-02	9.33E-01	4.52E-04	4.06E-02	1.61E-02
Cognitive function	GP11	CHR7:133031432-134031432	895	4.25E-08	9.65E-01	1.05E-09	2.38E-02	1.14E-02
Cognitive function	GP11	CHR9:134366271-135366271	938	7.26E-03	8.76E-01	7.14E-04	8.61E-02	2.96E-02
Cognitive function	GP11	CHR19:31452890-32452890	790	2.83E-04	8.86E-01	8.39E-06	2.62E-02	8.71E-02
Cognitive function	GP11	CHR2:198429896-199429896	640	1.73E-02	9.31E-01	4.80E-04	2.57E-02	2.56E-02
Cognitive function	GP11	CHR3:11975088-12975088	873	1.54E-03	9.45E-01	5.29E-05	3.25E-02	2.06E-02
Cognitive function	GP11	CHR12:79185226-80185226	750	1.13E-08	9.33E-01	6.78E-10	5.60E-02	1.12E-02
Cognitive function	GP11	CHR16:52998655-53998655	760	2.02E-10	9.60E-01	6.08E-12	2.88E-02	1.12E-02
Cognitive function	GP11	CHR16:76024013-77024013	1,094	1.04E-01	8.47E-01	3.51E-03	2.87E-02	1.68E-02
Cognitive function	GP11	CHR5:164973194-165973194	1,001	9.85E-05	9.34E-01	4.78E-06	4.53E-02	2.09E-02
Cognitive function	GP11	CHR1:37365954-38365954	682	3.40E-02	9.30E-01	9.12E-04	2.49E-02	1.06E-02
Cognitive function	GP11	CHR6:108364419-109364419	723	3.22E-15	9.57E-01	8.27E-17	2.45E-02	1.88E-02
Cognitive function	GP11	CHR1:68927576-69927576	757	8.07E-07	8.43E-01	4.12E-08	4.29E-02	1.14E-01
Cognitive function	GP11	CHR16:61694176-62694176	894	9.44E-05	9.31E-01	2.52E-06	2.48E-02	4.38E-02
Cognitive function	GP12	CHR7:157036448-158036448	761	1.83E-04	9.52E-01	6.15E-06	3.20E-02	1.62E-02
Cognitive function	GP12	CHR14:103518455-104518455	651	7.79E-05	9.58E-01	2.56E-06	3.15E-02	1.08E-02
Cognitive function	GP12	CHR2:60213235-61213235	824	7.05E-09	9.37E-01	3.81E-10	5.07E-02	1.22E-02

Cognitive function	GP12	CHR15:51696830-52696830	708	3.68E-05	9.43E-01	1.15E-06	2.93E-02	2.78E-02
Cognitive function	GP12	CHR11:47140429-48140429	457	9.21E-05	7.65E-01	4.04E-06	3.33E-02	2.02E-01
Cognitive function	GP12	CHR12:48922094-49922094	448	1.15E-09	9.66E-01	2.14E-11	1.81E-02	1.59E-02
Cognitive function	GP12	CHR17:46590785-47590785	651	1.68E-04	9.48E-01	6.24E-06	3.51E-02	1.68E-02
Cognitive function	GP12	CHR1:216330128-217330128	1,418	2.01E-04	9.44E-01	8.98E-06	4.22E-02	1.33E-02
Cognitive function	GP12	CHR9:71610562-72610562	994	4.33E-02	9.08E-01	1.22E-03	2.55E-02	2.17E-02
Cognitive function	GP12	CHR1:43529353-44529353	772	3.71E-05	9.15E-01	1.86E-06	4.59E-02	3.92E-02
Cognitive function	GP12	CHR1:109530945-110530945	642	6.12E-08	9.61E-01	1.58E-09	2.47E-02	1.41E-02
Cognitive function	GP12	CHR3:71045170-72045170	874	7.65E-03	9.41E-01	2.20E-04	2.70E-02	2.43E-02
Cognitive function	GP12	CHR14:98170849-99170849	1,458	1.60E-03	9.38E-01	8.09E-05	4.75E-02	1.28E-02
Cognitive function	GP12	CHR15:40722487-41722487	511	3.45E-03	9.58E-01	5.58E-05	1.54E-02	2.31E-02
Cognitive function	GP12	CHR4:102688709-103688709	848	4.19E-17	9.29E-01	2.40E-18	5.32E-02	1.73E-02
Cognitive function	GP12	CHR4:10204137-11204137	1,297	1.13E-03	9.23E-01	5.09E-05	4.14E-02	3.48E-02
Cognitive function	GP12	CHR8:13502020-14502020	2,100	1.57E-04	9.22E-01	1.12E-05	6.56E-02	1.21E-02
Cognitive function	GP12	CHR4:105651843-106651843	822	5.48E-13	9.40E-01	1.33E-14	2.29E-02	3.69E-02
Cognitive function	GP12	CHR10:101412194-102412194	670	5.59E-03	9.31E-01	1.19E-04	1.97E-02	4.37E-02
Cognitive function	GP12	CHR5:100605998-101605998	1,014	2.73E-02	8.98E-01	1.57E-03	5.17E-02	2.16E-02
Cognitive function	GP12	CHR16:7157373-8157373	2,095	8.67E-04	9.16E-01	6.75E-05	7.13E-02	1.17E-02
Cognitive function	GP12	CHR3:35027409-36027409	857	1.03E-03	7.13E-01	7.60E-05	5.21E-02	2.34E-01
Cognitive function	GP12	CHR16:50450805-51450805	824	2.99E-03	8.87E-01	2.84E-04	8.42E-02	2.55E-02
Cognitive function	GP12	CHR19:12030177-13030177	417	9.01E-05	9.49E-01	1.80E-06	1.89E-02	3.25E-02
Cognitive function	GP12	CHR2:57448003-58448003	968	4.72E-03	9.50E-01	1.47E-04	2.95E-02	1.60E-02
Cognitive function	GP12	CHR14:69216957-70216957	770	8.14E-03	9.47E-01	2.22E-04	2.59E-02	1.83E-02
Cognitive function	GP12	CHR2:32236043-33236043	575	1.46E-02	9.50E-01	2.49E-04	1.62E-02	1.87E-02
Cognitive function	GP12	CHR1:41281151-42281151	947	1.08E-10	9.35E-01	5.73E-12	4.95E-02	1.57E-02
Cognitive function	GP12	CHR6:98050289-99050289	793	1.37E-20	9.57E-01	4.49E-22	3.14E-02	1.14E-02
Cognitive function	GP12	CHR1:21930069-22930069	924	7.47E-03	9.18E-01	2.78E-04	3.41E-02	4.01E-02
Cognitive function	GP12	CHR14:26677910-27677910	973	1.47E-03	9.33E-01	6.32E-05	4.02E-02	2.49E-02
Cognitive function	GP12	CHR14:32792743-33792743	1,306	8.14E-07	9.33E-01	4.53E-08	5.19E-02	1.52E-02
Cognitive function	GP12	CHR4:2217690-3217690	635	1.10E-04	9.48E-01	4.78E-06	4.14E-02	1.01E-02
Cognitive function	GP12	CHR3:49390613-50390613	355	1.99E-22	9.70E-01	1.66E-24	8.07E-03	2.24E-02
Cognitive function	GP12	CHR9:111375463-112375463	1,491	2.47E-02	8.96E-01	1.84E-03	6.67E-02	1.07E-02
Cognitive function	GP12	CHR16:51077196-52077196	966	1.21E-02	9.33E-01	4.82E-04	3.73E-02	1.74E-02
Cognitive function	GP12	CHR8:145244429-146244429	295	6.04E-03	9.30E-01	1.07E-04	1.65E-02	4.69E-02
Cognitive function	GP12	CHR8:30513470-31513470	848	2.14E-04	9.55E-01	7.69E-06	3.44E-02	1.09E-02
Cognitive function	GP12	CHR16:12656649-13656649	1,454	4.13E-02	8.77E-01	2.56E-03	5.44E-02	2.49E-02
Cognitive function	GP12	CHR10:129613462-130613462	1,268	7.08E-02	8.35E-01	6.60E-03	7.78E-02	9.98E-03
Cognitive function	GP12	CHR21:40016070-41016070	1,171	6.47E-03	9.47E-01	2.26E-04	3.30E-02	1.35E-02
Cognitive function	GP12	CHR8:141045193-142045193	683	6.42E-03	9.32E-01	1.86E-04	2.69E-02	3.41E-02
Cognitive function	GP12	CHR1:72249848-73249848	888	2.53E-15	9.54E-01	7.34E-17	2.77E-02	1.85E-02
Cognitive function	GP12	CHR7:44300176-45300176	792	1.58E-06	9.46E-01	6.25E-08	3.73E-02	1.63E-02
Cognitive function	GP12	CHR10:103065960-104065960	411	2.20E-11	9.78E-01	2.45E-13	1.09E-02	1.08E-02
Cognitive function	GP12	CHR4:65331184-66331184	973	1.80E-03	9.43E-01	7.55E-05	3.96E-02	1.57E-02
Cognitive function	GP12	CHR5:91977890-92977890	654	1.60E-03	9.67E-01	3.29E-05	1.99E-02	1.12E-02
Cognitive function	GP12	CHR2:43685129-44685129	1,176	2.10E-02	9.29E-01	7.44E-04	3.29E-02	1.64E-02
Cognitive function	GP12	CHR5:139045748-140045748	464	1.28E-08	9.64E-01	3.39E-10	2.56E-02	1.07E-02
Cognitive function	GP12	CHR9:95771752-96771752	1,092	1.27E-04	9.59E-01	3.95E-06	2.97E-02	1.10E-02
Cognitive function	GP12	CHR11:133314713-134314713	983	4.85E-02	8.87E-01	1.61E-03	2.95E-02	3.34E-02
Cognitive function	GP12	CHR8:142811653-143811653	792	2.02E-05	9.63E-01	5.15E-07	2.46E-02	1.23E-02

Cognitive function	GP12	CHR22:41870991-42870991	630	3.33E-08	9.65E-01	6.51E-10	1.89E-02	1.59E-02
Cognitive function	GP12	CHR22:39329736-40329736	668	2.26E-06	9.65E-01	5.18E-08	2.21E-02	1.33E-02
Cognitive function	GP12	CHR11:95061682-96061682	1,210	4.93E-06	9.49E-01	2.07E-07	3.98E-02	1.07E-02
Cognitive function	GP12	CHR6:11008671-12008671	1,392	7.82E-05	9.01E-01	7.39E-06	8.51E-02	1.43E-02
Cognitive function	GP12	CHR4:152092933-153092933	776	1.26E-06	9.64E-01	2.42E-08	1.85E-02	1.74E-02
Cognitive function	GP12	CHR1:59040811-60040811	936	3.07E-04	9.42E-01	1.40E-05	4.30E-02	1.44E-02
Cognitive function	GP12	CHR4:67470101-68470101	889	7.57E-05	9.11E-01	6.42E-06	7.73E-02	1.15E-02
Cognitive function	GP12	CHR6:21456404-22456404	1,039	1.04E-02	9.33E-01	4.83E-04	4.33E-02	1.33E-02
Cognitive function	GP12	CHR7:133031432-134031432	895	4.26E-08	9.66E-01	9.67E-10	2.19E-02	1.17E-02
Cognitive function	GP12	CHR9:134366271-135366271	938	7.77E-03	9.38E-01	3.52E-04	4.25E-02	1.17E-02
Cognitive function	GP12	CHR19:31452890-32452890	790	3.07E-04	9.60E-01	8.01E-06	2.50E-02	1.42E-02
Cognitive function	GP12	CHR2:198429896-199429896	640	1.78E-02	9.54E-01	2.87E-04	1.54E-02	1.25E-02
Cognitive function	GP12	CHR3:11975088-12975088	873	1.55E-03	9.54E-01	4.30E-05	2.65E-02	1.76E-02
Cognitive function	GP12	CHR12:79185226-80185226	750	1.13E-08	9.32E-01	6.80E-10	5.62E-02	1.15E-02
Cognitive function	GP12	CHR16:52998655-53998655	760	2.03E-10	9.65E-01	4.87E-12	2.31E-02	1.22E-02
Cognitive function	GP12	CHR16:76024013-77024013	1,094	1.01E-01	8.30E-01	5.22E-03	4.27E-02	2.06E-02
Cognitive function	GP12	CHR5:164973194-165973194	1,001	9.91E-05	9.40E-01	4.77E-06	4.52E-02	1.51E-02
Cognitive function	GP12	CHR1:37365954-38365954	682	3.35E-02	9.16E-01	8.49E-04	2.32E-02	2.62E-02
Cognitive function	GP12	CHR6:108364419-109364419	723	3.25E-15	9.63E-01	7.63E-17	2.26E-02	1.40E-02
Cognitive function	GP12	CHR1:68927576-69927576	757	9.02E-07	9.42E-01	3.28E-08	3.42E-02	2.35E-02
Cognitive function	GP12	CHR16:61694176-62694176	894	9.59E-05	9.47E-01	4.06E-06	4.01E-02	1.31E-02
Cognitive function	GP13	CHR7:157036448-158036448	761	1.82E-04	9.47E-01	6.94E-06	3.61E-02	1.63E-02
Cognitive function	GP13	CHR14:103518455-104518455	651	7.81E-05	9.60E-01	2.38E-06	2.93E-02	1.08E-02
Cognitive function	GP13	CHR2:60213235-61213235	824	6.49E-09	8.63E-01	7.92E-10	1.05E-01	3.19E-02
Cognitive function	GP13	CHR15:51696830-52696830	708	3.72E-05	9.54E-01	7.52E-07	1.92E-02	2.69E-02
Cognitive function	GP13	CHR11:47140429-48140429	457	1.15E-04	9.56E-01	3.92E-06	3.26E-02	1.16E-02
Cognitive function	GP13	CHR12:48922094-49922094	448	1.15E-09	9.67E-01	2.23E-11	1.88E-02	1.46E-02
Cognitive function	GP13	CHR17:46590785-47590785	651	1.68E-04	9.47E-01	6.39E-06	3.59E-02	1.65E-02
Cognitive function	GP13	CHR1:216330128-217330128	1,418	1.99E-04	9.38E-01	1.00E-05	4.72E-02	1.48E-02
Cognitive function	GP13	CHR9:71610562-72610562	994	4.34E-02	9.10E-01	1.15E-03	2.41E-02	2.10E-02
Cognitive function	GP13	CHR1:43529353-44529353	772	3.79E-05	9.35E-01	1.19E-06	2.94E-02	3.58E-02
Cognitive function	GP13	CHR1:109530945-110530945	642	6.04E-08	9.48E-01	2.49E-09	3.91E-02	1.29E-02
Cognitive function	GP13	CHR3:71045170-72045170	874	7.40E-03	9.09E-01	2.64E-04	3.24E-02	5.05E-02
Cognitive function	GP13	CHR14:98170849-99170849	1,458	1.56E-03	9.19E-01	1.09E-04	6.40E-02	1.50E-02
Cognitive function	GP13	CHR15:40722487-41722487	511	3.43E-03	9.52E-01	5.29E-05	1.46E-02	2.97E-02
Cognitive function	GP13	CHR4:102688709-103688709	848	3.53E-17	7.83E-01	9.05E-18	2.01E-01	1.58E-02
Cognitive function	GP13	CHR4:10204137-11204137	1,297	1.14E-03	9.28E-01	4.65E-05	3.78E-02	3.32E-02
Cognitive function	GP13	CHR8:13502020-14502020	2,100	1.41E-04	8.29E-01	2.69E-05	1.58E-01	1.31E-02
Cognitive function	GP13	CHR4:105651843-106651843	822	5.50E-13	9.45E-01	2.00E-14	3.44E-02	2.06E-02
Cognitive function	GP13	CHR10:101412194-102412194	670	5.70E-03	9.50E-01	1.94E-04	3.23E-02	1.15E-02
Cognitive function	GP13	CHR5:100605998-101605998	1,014	2.76E-02	9.09E-01	1.47E-03	4.84E-02	1.39E-02
Cognitive function	GP13	CHR16:7157373-8157373	2,095	8.75E-04	9.25E-01	5.95E-05	6.29E-02	1.16E-02
Cognitive function	GP13	CHR3:35027409-36027409	857	1.40E-03	9.63E-01	3.51E-05	2.42E-02	1.14E-02
Cognitive function	GP13	CHR16:50450805-51450805	824	3.08E-03	9.13E-01	2.00E-04	5.92E-02	2.43E-02
Cognitive function	GP13	CHR19:12030177-13030177	417	7.92E-05	8.34E-01	1.10E-05	1.16E-01	5.01E-02
Cognitive function	GP13	CHR2:57448003-58448003	968	4.71E-03	9.48E-01	1.33E-04	2.66E-02	2.09E-02
Cognitive function	GP13	CHR14:69216957-70216957	770	8.19E-03	9.54E-01	1.86E-04	2.16E-02	1.62E-02
Cognitive function	GP13	CHR2:32236043-33236043	575	1.46E-02	9.52E-01	2.83E-04	1.84E-02	1.50E-02
Cognitive function	GP13	CHR1:41281151-42281151	947	1.05E-10	9.07E-01	7.21E-12	6.22E-02	3.03E-02

Cognitive function	GP13	CHR6:98050289-99050289	793	1.37E-20	9.58E-01	4.43E-22	3.10E-02	1.07E-02
Cognitive function	GP13	CHR1:21930069-22930069	924	7.51E-03	9.23E-01	3.76E-04	4.62E-02	2.32E-02
Cognitive function	GP13	CHR14:26677910-27677910	973	1.08E-03	6.89E-01	4.58E-04	2.91E-01	1.81E-02
Cognitive function	GP13	CHR14:32792743-33792743	1,306	7.80E-07	8.94E-01	5.90E-08	6.76E-02	3.87E-02
Cognitive function	GP13	CHR4:2217690-3217690	635	1.07E-04	9.27E-01	2.14E-06	1.84E-02	5.47E-02
Cognitive function	GP13	CHR3:49390613-50390613	355	2.01E-22	9.79E-01	1.64E-24	7.97E-03	1.32E-02
Cognitive function	GP13	CHR9:111375463-112375463	1,491	2.49E-02	9.02E-01	1.62E-03	5.87E-02	1.26E-02
Cognitive function	GP13	CHR16:51077196-52077196	966	7.20E-03	5.56E-01	3.64E-04	2.78E-02	4.08E-01
Cognitive function	GP13	CHR8:145244429-146244429	295	6.28E-03	9.67E-01	6.46E-05	9.94E-03	1.64E-02
Cognitive function	GP13	CHR8:30513470-31513470	848	2.14E-04	9.59E-01	5.56E-06	2.48E-02	1.62E-02
Cognitive function	GP13	CHR16:12656649-13656649	1,454	3.45E-02	7.33E-01	9.93E-03	2.11E-01	1.16E-02
Cognitive function	GP13	CHR10:129613462-130613462	1,268	7.26E-02	8.56E-01	4.28E-03	5.04E-02	1.66E-02
Cognitive function	GP13	CHR21:40016070-41016070	1,171	6.36E-03	9.31E-01	2.93E-04	4.28E-02	2.00E-02
Cognitive function	GP13	CHR8:141045193-142045193	683	6.48E-03	9.41E-01	1.06E-04	1.53E-02	3.68E-02
Cognitive function	GP13	CHR1:72249848-73249848	888	2.50E-15	9.45E-01	1.04E-16	3.91E-02	1.59E-02
Cognitive function	GP13	CHR7:44300176-45300176	792	1.60E-06	9.56E-01	4.46E-08	2.66E-02	1.70E-02
Cognitive function	GP13	CHR10:103065960-104065960	411	2.20E-11	9.78E-01	1.92E-13	8.52E-03	1.33E-02
Cognitive function	GP13	CHR4:65331184-66331184	973	1.63E-03	8.53E-01	2.40E-04	1.26E-01	1.88E-02
Cognitive function	GP13	CHR5:91977890-92977890	654	1.59E-03	9.61E-01	3.73E-05	2.25E-02	1.51E-02
Cognitive function	GP13	CHR2:43685129-44685129	1,176	2.00E-02	8.86E-01	1.23E-03	5.42E-02	3.87E-02
Cognitive function	GP13	CHR5:139045748-140045748	464	1.28E-08	9.70E-01	2.11E-10	1.60E-02	1.44E-02
Cognitive function	GP13	CHR9:95771752-96771752	1,092	1.26E-04	9.50E-01	5.13E-06	3.86E-02	1.17E-02
Cognitive function	GP13	CHR11:133314713-134314713	983	4.75E-02	8.69E-01	3.23E-03	5.90E-02	2.17E-02
Cognitive function	GP13	CHR8:142811653-143811653	792	1.98E-05	9.46E-01	5.75E-07	2.74E-02	2.69E-02
Cognitive function	GP13	CHR22:41870991-42870991	630	3.20E-08	9.30E-01	1.21E-09	3.51E-02	3.49E-02
Cognitive function	GP13	CHR22:39329736-40329736	668	1.98E-06	8.46E-01	6.12E-08	2.60E-02	1.28E-01
Cognitive function	GP13	CHR11:95061682-96061682	1,210	4.90E-06	9.44E-01	2.18E-07	4.20E-02	1.40E-02
Cognitive function	GP13	CHR6:11008671-12008671	1,392	7.99E-05	9.20E-01	5.66E-06	6.52E-02	1.50E-02
Cognitive function	GP13	CHR4:152092933-153092933	776	1.26E-06	9.65E-01	2.74E-08	2.10E-02	1.41E-02
Cognitive function	GP13	CHR1:59040811-60040811	936	3.11E-04	9.54E-01	1.09E-05	3.35E-02	1.20E-02
Cognitive function	GP13	CHR4:67470101-68470101	889	7.49E-05	9.02E-01	3.42E-06	4.11E-02	5.65E-02
Cognitive function	GP13	CHR6:21456404-22456404	1,039	1.05E-02	9.43E-01	3.92E-04	3.52E-02	1.11E-02
Cognitive function	GP13	CHR7:133031432-134031432	895	4.24E-08	9.62E-01	1.11E-09	2.52E-02	1.25E-02
Cognitive function	GP13	CHR9:134366271-135366271	938	7.18E-03	8.66E-01	9.61E-04	1.16E-01	1.03E-02
Cognitive function	GP13	CHR19:31452890-32452890	790	3.07E-04	9.60E-01	6.84E-06	2.14E-02	1.79E-02
Cognitive function	GP13	CHR2:198429896-199429896	640	1.72E-02	9.22E-01	8.21E-04	4.41E-02	1.56E-02
Cognitive function	GP13	CHR3:11975088-12975088	873	1.50E-03	9.26E-01	8.75E-05	5.38E-02	1.86E-02
Cognitive function	GP13	CHR12:79185226-80185226	750	1.14E-08	9.42E-01	4.74E-10	3.91E-02	1.92E-02
Cognitive function	GP13	CHR16:52998655-53998655	760	2.02E-10	9.58E-01	6.09E-12	2.88E-02	1.30E-02
Cognitive function	GP13	CHR16:76024013-77024013	1,094	1.01E-01	8.30E-01	4.34E-03	3.55E-02	2.89E-02
Cognitive function	GP13	CHR5:164973194-165973194	1,001	9.94E-05	9.43E-01	4.45E-06	4.22E-02	1.50E-02
Cognitive function	GP13	CHR1:37365954-38365954	682	3.41E-02	9.33E-01	7.64E-04	2.09E-02	1.08E-02
Cognitive function	GP13	CHR6:108364419-109364419	723	3.10E-15	9.20E-01	1.47E-16	4.37E-02	3.66E-02
Cognitive function	GP13	CHR1:68927576-69927576	757	9.14E-07	9.55E-01	2.56E-08	2.68E-02	1.83E-02
Cognitive function	GP13	CHR16:61694176-62694176	894	9.01E-05	8.89E-01	4.36E-06	4.29E-02	6.78E-02
Cognitive function	GP14	CHR7:157036448-158036448	761	1.75E-04	9.12E-01	4.85E-06	2.52E-02	6.31E-02
Cognitive function	GP14	CHR14:103518455-104518455	651	7.73E-05	9.50E-01	1.95E-06	2.40E-02	2.55E-02
Cognitive function	GP14	CHR2:60213235-61213235	824	6.80E-09	9.04E-01	6.38E-10	8.48E-02	1.15E-02
Cognitive function	GP14	CHR15:51696830-52696830	708	3.67E-05	9.40E-01	9.59E-07	2.45E-02	3.57E-02

Cognitive function	GP14	CHR11:47140429-48140429	457	9.33E-05	7.75E-01	5.55E-06	4.59E-02	1.79E-01
Cognitive function	GP14	CHR12:48922094-49922094	448	1.16E-09	9.73E-01	1.55E-11	1.30E-02	1.38E-02
Cognitive function	GP14	CHR17:46590785-47590785	651	1.55E-04	8.74E-01	5.17E-06	2.90E-02	9.68E-02
Cognitive function	GP14	CHR1:216330128-217330128	1,418	1.96E-04	9.22E-01	1.38E-05	6.48E-02	1.27E-02
Cognitive function	GP14	CHR9:71610562-72610562	994	4.32E-02	9.06E-01	1.72E-03	3.61E-02	1.29E-02
Cognitive function	GP14	CHR1:43529353-44529353	772	3.75E-05	9.24E-01	2.45E-06	6.04E-02	1.54E-02
Cognitive function	GP14	CHR1:109530945-110530945	642	6.10E-08	9.58E-01	1.88E-09	2.94E-02	1.26E-02
Cognitive function	GP14	CHR3:71045170-72045170	874	7.34E-03	9.02E-01	5.39E-04	6.63E-02	2.35E-02
Cognitive function	GP14	CHR14:98170849-99170849	1,458	1.51E-03	8.88E-01	1.12E-04	6.57E-02	4.51E-02
Cognitive function	GP14	CHR15:40722487-41722487	511	3.44E-03	9.54E-01	5.76E-05	1.59E-02	2.66E-02
Cognitive function	GP14	CHR4:102688709-103688709	848	3.54E-17	7.86E-01	7.79E-18	1.73E-01	4.12E-02
Cognitive function	GP14	CHR4:10204137-11204137	1297	1.16E-03	9.43E-01	4.52E-05	3.68E-02	1.87E-02
Cognitive function	GP14	CHR8:13502020-14502020	2,100	1.42E-04	8.35E-01	1.75E-05	1.03E-01	6.19E-02
Cognitive function	GP14	CHR4:105651843-106651843	822	4.76E-13	8.17E-01	1.53E-14	2.61E-02	1.57E-01
Cognitive function	GP14	CHR10:101412194-102412194	670	5.63E-03	9.37E-01	2.10E-04	3.50E-02	2.17E-02
Cognitive function	GP14	CHR5:100605998-101605998	1,014	2.72E-02	8.95E-01	1.81E-03	5.97E-02	1.61E-02
Cognitive function	GP14	CHR16:7157373-8157373	2,095	8.54E-04	9.02E-01	7.87E-05	8.31E-02	1.35E-02
Cognitive function	GP14	CHR3:35027409-36027409	857	1.40E-03	9.64E-01	3.33E-05	2.30E-02	1.17E-02
Cognitive function	GP14	CHR16:50450805-51450805	824	2.73E-03	8.09E-01	1.42E-04	4.21E-02	1.46E-01
Cognitive function	GP14	CHR19:12030177-13030177	417	7.97E-05	8.40E-01	1.47E-06	1.53E-02	1.45E-01
Cognitive function	GP14	CHR2:57448003-58448003	968	4.71E-03	9.47E-01	1.45E-04	2.91E-02	1.86E-02
Cognitive function	GP14	CHR14:69216957-70216957	770	7.97E-03	9.28E-01	2.47E-04	2.88E-02	3.53E-02
Cognitive function	GP14	CHR2:32236043-33236043	575	1.46E-02	9.50E-01	2.99E-04	1.95E-02	1.56E-02
Cognitive function	GP14	CHR1:41281151-42281151	947	1.05E-10	9.09E-01	3.70E-12	3.20E-02	5.90E-02
Cognitive function	GP14	CHR6:98050289-99050289	793	1.37E-20	9.60E-01	4.19E-22	2.93E-02	1.02E-02
Cognitive function	GP14	CHR1:21930069-22930069	924	7.35E-03	9.02E-01	5.07E-04	6.22E-02	2.74E-02
Cognitive function	GP14	CHR14:26677910-27677910	973	1.36E-03	8.64E-01	1.83E-04	1.16E-01	1.84E-02
Cognitive function	GP14	CHR14:32792743-33792743	1,306	7.72E-07	8.85E-01	8.88E-08	1.02E-01	1.37E-02
Cognitive function	GP14	CHR4:2217690-3217690	635	1.12E-04	9.72E-01	2.02E-06	1.75E-02	1.07E-02
Cognitive function	GP14	CHR3:49390613-50390613	355	2.01E-22	9.80E-01	1.31E-24	6.35E-03	1.37E-02
Cognitive function	GP14	CHR9:111375463-112375463	1,491	2.50E-02	9.08E-01	1.52E-03	5.50E-02	1.08E-02
Cognitive function	GP14	CHR16:51077196-52077196	966	1.20E-02	9.28E-01	4.50E-04	3.47E-02	2.45E-02
Cognitive function	GP14	CHR8:145244429-146244429	295	5.81E-03	8.95E-01	7.36E-05	1.13E-02	8.83E-02
Cognitive function	GP14	CHR8:30513470-31513470	848	2.07E-04	9.26E-01	7.84E-06	3.50E-02	3.89E-02
Cognitive function	GP14	CHR16:12656649-13656649	1,454	3.54E-02	7.53E-01	8.96E-03	1.90E-01	1.20E-02
Cognitive function	GP14	CHR10:129613462-130613462	1,268	7.42E-02	8.74E-01	3.26E-03	3.84E-02	9.97E-03
Cognitive function	GP14	CHR21:40016070-41016070	1,171	6.46E-03	9.45E-01	2.47E-04	3.62E-02	1.21E-02
Cognitive function	GP14	CHR8:141045193-142045193	683	6.40E-03	9.29E-01	1.51E-04	2.19E-02	4.25E-02
Cognitive function	GP14	CHR1:72249848-73249848	888	2.47E-15	9.31E-01	1.37E-16	5.15E-02	1.70E-02
Cognitive function	GP14	CHR7:44300176-45300176	792	1.55E-06	9.24E-01	9.99E-08	5.97E-02	1.61E-02
Cognitive function	GP14	CHR10:103065960-104065960	411	2.18E-11	9.71E-01	2.87E-13	1.28E-02	1.59E-02
Cognitive function	GP14	CHR4:65331184-66331184	973	1.81E-03	9.52E-01	6.38E-05	3.35E-02	1.28E-02
Cognitive function	GP14	CHR5:91977890-92977890	654	1.60E-03	9.64E-01	3.85E-05	2.32E-02	1.09E-02
Cognitive function	GP14	CHR2:43685129-44685129	1,176	1.86E-02	8.21E-01	1.61E-03	7.12E-02	8.73E-02
Cognitive function	GP14	CHR5:139045748-140045748	464	1.29E-08	9.75E-01	1.84E-10	1.39E-02	1.16E-02
Cognitive function	GP14	CHR9:95771752-96771752	1,092	1.27E-04	9.56E-01	3.74E-06	2.81E-02	1.61E-02
Cognitive function	GP14	CHR11:133314713-134314713	983	4.88E-02	8.93E-01	1.66E-03	3.04E-02	2.59E-02
Cognitive function	GP14	CHR8:142811653-143811653	792	1.94E-05	9.25E-01	1.22E-06	5.81E-02	1.68E-02
Cognitive function	GP14	CHR22:41870991-42870991	630	2.96E-08	8.58E-01	1.74E-09	5.03E-02	9.15E-02

Cognitive function	GP14	CHR22:39329736-40329736	668	2.22E-06	9.47E-01	9.08E-08	3.87E-02	1.38E-02
Cognitive function	GP14	CHR11:95061682-96061682	1,210	4.83E-06	9.30E-01	2.17E-07	4.19E-02	2.77E-02
Cognitive function	GP14	CHR6:11008671-12008671	1,392	7.86E-05	9.05E-01	6.60E-06	7.60E-02	1.86E-02
Cognitive function	GP14	CHR4:152092933-153092933	776	1.19E-06	9.13E-01	4.36E-08	3.34E-02	5.34E-02
Cognitive function	GP14	CHR1:59040811-60040811	936	3.12E-04	9.57E-01	8.84E-06	2.71E-02	1.52E-02
Cognitive function	GP14	CHR4:67470101-68470101	889	7.82E-05	9.41E-01	3.83E-06	4.61E-02	1.24E-02
Cognitive function	GP14	CHR6:21456404-22456404	1,039	1.03E-02	9.25E-01	5.71E-04	5.12E-02	1.25E-02
Cognitive function	GP14	CHR7:133031432-134031432	895	4.21E-08	9.55E-01	1.49E-09	3.38E-02	1.10E-02
Cognitive function	GP14	CHR9:134366271-135366271	938	7.83E-03	9.44E-01	3.08E-04	3.71E-02	1.08E-02
Cognitive function	GP14	CHR19:31452890-32452890	790	2.98E-04	9.32E-01	1.60E-05	5.02E-02	1.76E-02
Cognitive function	GP14	CHR2:198429896-199429896	640	1.64E-02	8.80E-01	1.68E-03	9.04E-02	1.16E-02
Cognitive function	GP14	CHR3:11975088-12975088	873	1.55E-03	9.56E-01	4.41E-05	2.71E-02	1.49E-02
Cognitive function	GP14	CHR12:79185226-80185226	750	1.15E-08	9.50E-01	3.14E-10	2.59E-02	2.37E-02
Cognitive function	GP14	CHR16:52998655-53998655	760	2.01E-10	9.55E-01	6.98E-12	3.31E-02	1.23E-02
Cognitive function	GP14	CHR16:76024013-77024013	1,094	9.67E-02	7.91E-01	6.98E-03	5.71E-02	4.83E-02
Cognitive function	GP14	CHR5:164973194-165973194	1,001	9.90E-05	9.39E-01	3.78E-06	3.58E-02	2.50E-02
Cognitive function	GP14	CHR1:37365954-38365954	682	3.41E-02	9.34E-01	7.83E-04	2.14E-02	1.02E-02
Cognitive function	GP14	CHR6:108364419-109364419	723	3.21E-15	9.53E-01	1.05E-16	3.11E-02	1.58E-02
Cognitive function	GP14	CHR1:68927576-69927576	757	8.55E-07	8.94E-01	2.14E-08	2.23E-02	8.40E-02
Cognitive function	GP14	CHR16:61694176-62694176	894	9.60E-05	9.48E-01	3.94E-06	3.88E-02	1.31E-02
Cognitive function	GP15	CHR7:157036448-158036448	761	1.65E-04	8.57E-01	5.26E-06	2.73E-02	1.16E-01
Cognitive function	GP15	CHR14:103518455-104518455	651	7.78E-05	9.56E-01	2.10E-06	2.58E-02	1.77E-02
Cognitive function	GP15	CHR2:60213235-61213235	824	5.57E-09	7.40E-01	1.88E-09	2.50E-01	1.02E-02
Cognitive function	GP15	CHR15:51696830-52696830	708	3.70E-05	9.47E-01	9.77E-07	2.50E-02	2.75E-02
Cognitive function	GP15	CHR11:47140429-48140429	457	1.15E-04	9.51E-01	3.63E-06	3.01E-02	1.84E-02
Cognitive function	GP15	CHR12:48922094-49922094	448	1.15E-09	9.65E-01	2.52E-11	2.12E-02	1.34E-02
Cognitive function	GP15	CHR17:46590785-47590785	651	1.58E-04	8.87E-01	3.91E-06	2.19E-02	9.13E-02
Cognitive function	GP15	CHR1:216330128-217330128	1,418	1.99E-04	9.34E-01	1.08E-05	5.09E-02	1.46E-02
Cognitive function	GP15	CHR9:71610562-72610562	994	4.34E-02	9.10E-01	1.38E-03	2.88E-02	1.65E-02
Cognitive function	GP15	CHR1:43529353-44529353	772	3.87E-05	9.55E-01	1.11E-06	2.73E-02	1.76E-02
Cognitive function	GP15	CHR1:109530945-110530945	642	6.13E-08	9.62E-01	1.49E-09	2.34E-02	1.47E-02
Cognitive function	GP15	CHR3:71045170-72045170	874	7.51E-03	9.23E-01	3.55E-04	4.36E-02	2.55E-02
Cognitive function	GP15	CHR14:98170849-99170849	1,458	1.58E-03	9.28E-01	9.09E-05	5.34E-02	1.70E-02
Cognitive function	GP15	CHR15:40722487-41722487	511	3.45E-03	9.57E-01	5.09E-05	1.41E-02	2.53E-02
Cognitive function	GP15	CHR4:102688709-103688709	848	2.66E-17	5.90E-01	1.70E-17	3.78E-01	3.15E-02
Cognitive function	GP15	CHR4:10204137-11204137	1,297	1.11E-03	9.01E-01	4.35E-05	3.53E-02	6.25E-02
Cognitive function	GP15	CHR8:13502020-14502020	2,100	7.03E-05	4.13E-01	9.90E-05	5.82E-01	4.80E-03
Cognitive function	GP15	CHR4:105651843-106651843	822	3.45E-13	5.93E-01	1.87E-14	3.17E-02	3.75E-01
Cognitive function	GP15	CHR10:101412194-102412194	670	5.69E-03	9.48E-01	2.13E-04	3.55E-02	1.11E-02
Cognitive function	GP15	CHR5:100605998-101605998	1,014	2.80E-02	9.22E-01	9.58E-04	3.15E-02	1.75E-02
Cognitive function	GP15	CHR16:7157373-8157373	2,095	8.34E-04	8.82E-01	9.81E-05	1.04E-01	1.35E-02
Cognitive function	GP15	CHR3:35027409-36027409	857	1.38E-03	9.53E-01	4.71E-05	3.24E-02	1.28E-02
Cognitive function	GP15	CHR16:50450805-51450805	824	2.99E-03	8.86E-01	1.40E-04	4.14E-02	6.96E-02
Cognitive function	GP15	CHR19:12030177-13030177	417	8.92E-05	9.40E-01	3.00E-06	3.15E-02	2.88E-02
Cognitive function	GP15	CHR2:57448003-58448003	968	4.69E-03	9.43E-01	1.57E-04	3.16E-02	2.04E-02
Cognitive function	GP15	CHR14:69216957-70216957	770	8.12E-03	9.46E-01	2.16E-04	2.52E-02	2.09E-02
Cognitive function	GP15	CHR2:32236043-33236043	575	1.47E-02	9.59E-01	2.00E-04	1.30E-02	1.28E-02
Cognitive function	GP15	CHR1:41281151-42281151	947	1.11E-10	9.56E-01	3.19E-12	2.75E-02	1.62E-02
Cognitive function	GP15	CHR6:98050289-99050289	793	1.36E-20	9.55E-01	4.93E-22	3.45E-02	1.01E-02

Cognitive function	GP15	CHR1:21930069-22930069	924	6.61E-03	8.12E-01	9.04E-04	1.11E-01	6.95E-02
Cognitive function	GP15	CHR14:26677910-27677910	973	1.38E-03	8.78E-01	1.52E-04	9.64E-02	2.37E-02
Cognitive function	GP15	CHR14:32792743-33792743	1,306	8.17E-07	9.36E-01	4.45E-08	5.10E-02	1.29E-02
Cognitive function	GP15	CHR4:2217690-3217690	635	1.10E-04	9.53E-01	2.96E-06	2.56E-02	2.18E-02
Cognitive function	GP15	CHR3:49390613-50390613	355	2.01E-22	9.80E-01	1.51E-24	7.36E-03	1.29E-02
Cognitive function	GP15	CHR9:111375463-112375463	1,491	2.50E-02	9.08E-01	1.21E-03	4.40E-02	2.15E-02
Cognitive function	GP15	CHR16:51077196-52077196	966	1.20E-02	9.31E-01	4.66E-04	3.61E-02	2.01E-02
Cognitive function	GP15	CHR8:145244429-146244429	295	5.93E-03	9.13E-01	6.49E-05	9.93E-03	7.06E-02
Cognitive function	GP15	CHR8:30513470-31513470	848	1.78E-04	7.95E-01	5.59E-06	2.48E-02	1.80E-01
Cognitive function	GP15	CHR16:12656649-13656649	1,454	4.01E-02	8.51E-01	4.07E-03	8.65E-02	1.78E-02
Cognitive function	GP15	CHR10:129613462-130613462	1,268	7.32E-02	8.63E-01	4.08E-03	4.81E-02	1.14E-02
Cognitive function	GP15	CHR21:40016070-41016070	1,171	6.46E-03	9.44E-01	2.55E-04	3.72E-02	1.17E-02
Cognitive function	GP15	CHR8:141045193-142045193	683	5.92E-03	8.59E-01	1.62E-04	2.34E-02	1.12E-01
Cognitive function	GP15	CHR1:72249848-73249848	888	2.51E-15	9.46E-01	9.59E-17	3.62E-02	1.81E-02
Cognitive function	GP15	CHR7:44300176-45300176	792	1.57E-06	9.35E-01	8.21E-08	4.91E-02	1.57E-02
Cognitive function	GP15	CHR10:103065960-104065960	411	2.19E-11	9.74E-01	3.34E-13	1.49E-02	1.08E-02
Cognitive function	GP15	CHR4:65331184-66331184	973	1.83E-03	9.61E-01	4.60E-05	2.42E-02	1.29E-02
Cognitive function	GP15	CHR5:91977890-92977890	654	1.60E-03	9.68E-01	3.16E-05	1.91E-02	1.10E-02
Cognitive function	GP15	CHR2:43685129-44685129	1,176	2.04E-02	9.02E-01	1.35E-03	5.98E-02	1.60E-02
Cognitive function	GP15	CHR5:139045748-140045748	464	1.28E-08	9.64E-01	2.87E-10	2.16E-02	1.44E-02
Cognitive function	GP15	CHR9:95771752-96771752	1,092	1.27E-04	9.55E-01	3.86E-06	2.90E-02	1.58E-02
Cognitive function	GP15	CHR11:133314713-134314713	983	4.77E-02	8.72E-01	3.01E-03	5.50E-02	2.24E-02
Cognitive function	GP15	CHR8:142811653-143811653	792	1.98E-05	9.45E-01	8.24E-07	3.93E-02	1.61E-02
Cognitive function	GP15	CHR22:41870991-42870991	630	3.31E-08	9.59E-01	7.08E-10	2.05E-02	2.04E-02
Cognitive function	GP15	CHR22:39329736-40329736	668	9.88E-15	4.22E-09	2.61E-08	1.02E-02	9.90E-01
Cognitive function	GP15	CHR11:95061682-96061682	1,210	4.88E-06	9.42E-01	2.47E-07	4.77E-02	1.06E-02
Cognitive function	GP15	CHR6:11008671-12008671	1,392	8.20E-05	9.45E-01	3.73E-06	4.30E-02	1.22E-02
Cognitive function	GP15	CHR4:152092933-153092933	776	1.25E-06	9.59E-01	3.68E-08	2.82E-02	1.27E-02
Cognitive function	GP15	CHR1:59040811-60040811	936	3.13E-04	9.60E-01	8.86E-06	2.72E-02	1.26E-02
Cognitive function	GP15	CHR4:67470101-68470101	889	7.91E-05	9.52E-01	2.99E-06	3.59E-02	1.20E-02
Cognitive function	GP15	CHR6:21456404-22456404	1,039	1.05E-02	9.46E-01	3.51E-04	3.15E-02	1.14E-02
Cognitive function	GP15	CHR7:133031432-134031432	895	4.14E-08	9.40E-01	1.41E-09	3.20E-02	2.82E-02
Cognitive function	GP15	CHR9:134366271-135366271	938	7.66E-03	9.24E-01	4.50E-04	5.42E-02	1.37E-02
Cognitive function	GP15	CHR19:31452890-32452890	790	3.02E-04	9.45E-01	1.05E-05	3.28E-02	2.19E-02
Cognitive function	GP15	CHR2:198429896-199429896	640	1.78E-02	9.57E-01	2.51E-04	1.34E-02	1.18E-02
Cognitive function	GP15	CHR3:11975088-12975088	873	1.53E-03	9.42E-01	6.39E-05	3.93E-02	1.67E-02
Cognitive function	GP15	CHR12:79185226-80185226	750	1.13E-08	9.30E-01	6.53E-10	5.39E-02	1.59E-02
Cognitive function	GP15	CHR16:52998655-53998655	760	2.01E-10	9.55E-01	5.72E-12	2.71E-02	1.79E-02
Cognitive function	GP15	CHR16:76024013-77024013	1,094	9.77E-02	8.00E-01	6.52E-03	5.33E-02	4.29E-02
Cognitive function	GP15	CHR5:164973194-165973194	1,001	1.00E-04	9.49E-01	4.10E-06	3.88E-02	1.20E-02
Cognitive function	GP15	CHR1:37365954-38365954	682	3.31E-02	9.05E-01	1.81E-03	4.94E-02	1.04E-02
Cognitive function	GP15	CHR6:108364419-109364419	723	3.14E-15	9.33E-01	9.58E-17	2.84E-02	3.90E-02
Cognitive function	GP15	CHR1:68927576-69927576	757	9.10E-07	9.51E-01	2.51E-08	2.62E-02	2.30E-02
Cognitive function	GP15	CHR16:61694176-62694176	894	9.65E-05	9.52E-01	2.99E-06	2.95E-02	1.81E-02
Cognitive function	GP16	CHR7:157036448-158036448	761	1.84E-04	9.58E-01	4.73E-06	2.46E-02	1.75E-02
Cognitive function	GP16	CHR14:103518455-104518455	651	7.85E-05	9.65E-01	1.95E-06	2.39E-02	1.09E-02
Cognitive function	GP16	CHR2:60213235-61213235	824	7.14E-09	9.49E-01	2.36E-10	3.13E-02	2.00E-02
Cognitive function	GP16	CHR15:51696830-52696830	708	3.69E-05	9.46E-01	8.55E-07	2.19E-02	3.19E-02
Cognitive function	GP16	CHR11:47140429-48140429	457	1.16E-04	9.66E-01	2.72E-06	2.26E-02	1.16E-02

Cognitive function	GP16	CHR12:48922094-49922094	448	1.15E-09	9.73E-01	1.49E-11	1.26E-02	1.46E-02
Cognitive function	GP16	CHR17:46590785-47590785	651	1.72E-04	9.65E-01	3.44E-06	1.93E-02	1.50E-02
Cognitive function	GP16	CHR1:216330128-217330128	1,418	1.96E-04	9.23E-01	1.36E-05	6.37E-02	1.30E-02
Cognitive function	GP16	CHR9:71610562-72610562	994	4.28E-02	8.98E-01	2.10E-03	4.41E-02	1.30E-02
Cognitive function	GP16	CHR1:43529353-44529353	772	3.91E-05	9.64E-01	7.82E-07	1.93E-02	1.65E-02
Cognitive function	GP16	CHR1:109530945-110530945	642	5.83E-08	9.14E-01	4.43E-09	6.96E-02	1.61E-02
Cognitive function	GP16	CHR3:71045170-72045170	874	7.63E-03	9.38E-01	3.07E-04	3.77E-02	1.61E-02
Cognitive function	GP16	CHR14:98170849-99170849	1,458	1.58E-03	9.30E-01	9.39E-05	5.52E-02	1.33E-02
Cognitive function	GP16	CHR15:40722487-41722487	511	3.45E-03	9.56E-01	6.00E-05	1.66E-02	2.35E-02
Cognitive function	GP16	CHR4:102688709-103688709	848	4.26E-17	9.47E-01	1.25E-18	2.78E-02	2.53E-02
Cognitive function	GP16	CHR4:10204137-11204137	1,297	1.11E-03	9.03E-01	9.84E-05	8.01E-02	1.59E-02
Cognitive function	GP16	CHR8:13502020-14502020	2,100	1.57E-04	9.25E-01	1.08E-05	6.34E-02	1.13E-02
Cognitive function	GP16	CHR4:105651843-106651843	822	5.58E-13	9.58E-01	1.55E-14	2.66E-02	1.50E-02
Cognitive function	GP16	CHR10:101412194-102412194	670	5.42E-03	9.03E-01	4.00E-04	6.66E-02	2.42E-02
Cognitive function	GP16	CHR5:100605998-101605998	1,014	2.74E-02	9.03E-01	1.01E-03	3.31E-02	3.58E-02
Cognitive function	GP16	CHR16:7157373-8157373	2,095	8.68E-04	9.18E-01	6.47E-05	6.84E-02	1.31E-02
Cognitive function	GP16	CHR3:35027409-36027409	857	1.37E-03	9.44E-01	5.55E-05	3.82E-02	1.59E-02
Cognitive function	GP16	CHR16:50450805-51450805	824	3.13E-03	9.29E-01	1.29E-04	3.83E-02	2.90E-02
Cognitive function	GP16	CHR19:12030177-13030177	417	9.02E-05	9.50E-01	1.55E-06	1.63E-02	3.41E-02
Cognitive function	GP16	CHR2:57448003-58448003	968	4.71E-03	9.47E-01	1.57E-04	3.14E-02	1.68E-02
Cognitive function	GP16	CHR14:69216957-70216957	770	8.03E-03	9.36E-01	2.59E-04	3.02E-02	2.58E-02
Cognitive function	GP16	CHR2:32236043-33236043	575	1.41E-02	9.20E-01	3.29E-04	2.14E-02	4.40E-02
Cognitive function	GP16	CHR1:41281151-42281151	947	1.10E-10	9.46E-01	4.16E-12	3.60E-02	1.76E-02
Cognitive function	GP16	CHR6:98050289-99050289	793	1.37E-20	9.57E-01	4.45E-22	3.12E-02	1.21E-02
Cognitive function	GP16	CHR1:21930069-22930069	924	6.86E-03	8.42E-01	1.07E-03	1.31E-01	1.86E-02
Cognitive function	GP16	CHR14:26677910-27677910	973	1.47E-03	9.34E-01	7.11E-05	4.52E-02	1.88E-02
Cognitive function	GP16	CHR14:32792743-33792743	1,306	8.21E-07	9.41E-01	4.14E-08	4.74E-02	1.17E-02
Cognitive function	GP16	CHR4:2217690-3217690	635	1.04E-04	9.00E-01	9.04E-06	7.82E-02	2.21E-02
Cognitive function	GP16	CHR3:49390613-50390613	355	1.98E-22	9.66E-01	3.23E-24	1.57E-02	1.82E-02
Cognitive function	GP16	CHR9:111375463-112375463	1,491	2.43E-02	8.80E-01	2.00E-03	7.25E-02	2.09E-02
Cognitive function	GP16	CHR16:51077196-52077196	966	1.17E-02	9.07E-01	4.55E-04	3.52E-02	4.55E-02
Cognitive function	GP16	CHR8:145244429-146244429	295	5.89E-03	9.07E-01	4.73E-04	7.29E-02	1.38E-02
Cognitive function	GP16	CHR8:30513470-31513470	848	2.12E-04	9.45E-01	9.27E-06	4.14E-02	1.29E-02
Cognitive function	GP16	CHR16:12656649-13656649	1,454	4.07E-02	8.64E-01	3.26E-03	6.92E-02	2.27E-02
Cognitive function	GP16	CHR10:129613462-130613462	1,268	7.21E-02	8.50E-01	5.27E-03	6.21E-02	1.10E-02
Cognitive function	GP16	CHR21:40016070-41016070	1,171	6.43E-03	9.40E-01	2.60E-04	3.80E-02	1.56E-02
Cognitive function	GP16	CHR8:141045193-142045193	683	6.63E-03	9.63E-01	1.08E-04	1.56E-02	1.44E-02
Cognitive function	GP16	CHR1:72249848-73249848	888	2.53E-15	9.55E-01	7.92E-17	2.99E-02	1.52E-02
Cognitive function	GP16	CHR7:44300176-45300176	792	1.53E-06	9.16E-01	1.07E-07	6.36E-02	2.04E-02
Cognitive function	GP16	CHR10:103065960-104065960	411	2.17E-11	9.64E-01	4.47E-13	1.99E-02	1.60E-02
Cognitive function	GP16	CHR4:65331184-66331184	973	1.81E-03	9.51E-01	6.25E-05	3.28E-02	1.43E-02
Cognitive function	GP16	CHR5:91977890-92977890	654	1.58E-03	9.54E-01	5.35E-05	3.22E-02	1.22E-02
Cognitive function	GP16	CHR2:43685129-44685129	1,176	2.10E-02	9.30E-01	7.83E-04	3.46E-02	1.37E-02
Cognitive function	GP16	CHR5:139045748-140045748	464	1.20E-08	9.04E-01	1.12E-09	8.47E-02	1.08E-02
Cognitive function	GP16	CHR9:95771752-96771752	1,092	1.25E-04	9.43E-01	5.30E-06	3.99E-02	1.74E-02
Cognitive function	GP16	CHR11:133314713-134314713	983	4.88E-02	8.92E-01	1.92E-03	3.51E-02	2.20E-02
Cognitive function	GP16	CHR8:142811653-143811653	792	1.99E-05	9.52E-01	6.55E-07	3.12E-02	1.69E-02
Cognitive function	GP16	CHR22:41870991-42870991	630	3.23E-08	9.38E-01	7.17E-10	2.08E-02	4.12E-02
Cognitive function	GP16	CHR22:39329736-40329736	668	1.92E-06	8.19E-01	7.99E-08	3.40E-02	1.47E-01

Cognitive function	GP16	CHR11:95061682-96061682	1,210	4.91E-06	9.47E-01	2.15E-07	4.14E-02	1.11E-02
Cognitive function	GP16	CHR6:11008671-12008671	1,392	8.10E-05	9.33E-01	3.43E-06	3.94E-02	2.72E-02
Cognitive function	GP16	CHR4:152092933-153092933	776	1.25E-06	9.56E-01	4.31E-08	3.31E-02	1.09E-02
Cognitive function	GP16	CHR1:59040811-60040811	936	3.10E-04	9.53E-01	1.03E-05	3.15E-02	1.57E-02
Cognitive function	GP16	CHR4:67470101-68470101	889	7.92E-05	9.53E-01	2.89E-06	3.48E-02	1.17E-02
Cognitive function	GP16	CHR6:21456404-22456404	1,039	1.04E-02	9.35E-01	4.80E-04	4.31E-02	1.13E-02
Cognitive function	GP16	CHR7:133031432-134031432	895	4.20E-08	9.54E-01	1.33E-09	3.02E-02	1.60E-02
Cognitive function	GP16	CHR9:134366271-135366271	938	6.69E-03	8.07E-01	3.40E-04	4.08E-02	1.45E-01
Cognitive function	GP16	CHR19:31452890-32452890	790	2.93E-04	9.16E-01	2.15E-05	6.72E-02	1.68E-02
Cognitive function	GP16	CHR2:198429896-199429896	640	1.76E-02	9.46E-01	4.21E-04	2.26E-02	1.33E-02
Cognitive function	GP16	CHR3:11975088-12975088	873	1.55E-03	9.56E-01	4.38E-05	2.69E-02	1.58E-02
Cognitive function	GP16	CHR12:79185226-80185226	750	1.09E-08	9.04E-01	6.09E-10	5.03E-02	4.59E-02
Cognitive function	GP16	CHR16:52998655-53998655	760	1.98E-10	9.38E-01	7.20E-12	3.41E-02	2.76E-02
Cognitive function	GP16	CHR16:76024013-77024013	1,094	1.03E-01	8.46E-01	3.84E-03	3.14E-02	1.51E-02
Cognitive function	GP16	CHR5:164973194-165973194	1,001	9.88E-05	9.37E-01	5.13E-06	4.86E-02	1.42E-02
Cognitive function	GP16	CHR1:37365954-38365954	682	3.39E-02	9.28E-01	9.44E-04	2.58E-02	1.12E-02
Cognitive function	GP16	CHR6:108364419-109364419	723	3.23E-15	9.59E-01	8.90E-17	2.64E-02	1.51E-02
Cognitive function	GP16	CHR1:68927576-69927576	757	8.90E-07	9.30E-01	2.27E-08	2.37E-02	4.62E-02
Cognitive function	GP16	CHR16:61694176-62694176	894	9.65E-05	9.53E-01	2.90E-06	2.86E-02	1.84E-02
Cognitive function	GP17	CHR7:157036448-158036448	761	1.65E-04	8.61E-01	1.84E-05	9.59E-02	4.29E-02
Cognitive function	GP17	CHR14:103518455-104518455	651	7.86E-05	9.66E-01	1.89E-06	2.32E-02	1.12E-02
Cognitive function	GP17	CHR2:60213235-61213235	824	7.11E-09	9.45E-01	2.80E-10	3.72E-02	1.76E-02
Cognitive function	GP17	CHR15:51696830-52696830	708	3.60E-05	9.24E-01	1.13E-06	2.88E-02	4.73E-02
Cognitive function	GP17	CHR11:47140429-48140429	457	1.16E-04	9.67E-01	1.42E-06	1.18E-02	2.07E-02
Cognitive function	GP17	CHR12:48922094-49922094	448	1.13E-09	9.55E-01	2.92E-11	2.46E-02	2.03E-02
Cognitive function	GP17	CHR17:46590785-47590785	651	1.61E-04	9.06E-01	1.33E-05	7.46E-02	1.90E-02
Cognitive function	GP17	CHR1:216330128-217330128	1,418	2.00E-04	9.41E-01	9.14E-06	4.30E-02	1.54E-02
Cognitive function	GP17	CHR9:71610562-72610562	994	4.23E-02	8.87E-01	2.69E-03	5.64E-02	1.12E-02
Cognitive function	GP17	CHR1:43529353-44529353	772	3.80E-05	9.36E-01	1.79E-06	4.40E-02	1.99E-02
Cognitive function	GP17	CHR1:109530945-110530945	642	5.94E-08	9.33E-01	1.44E-09	2.26E-02	4.43E-02
Cognitive function	GP17	CHR3:71045170-72045170	874	7.61E-03	9.35E-01	2.13E-04	2.61E-02	3.08E-02
Cognitive function	GP17	CHR14:98170849-99170849	1,458	1.60E-03	9.39E-01	7.75E-05	4.56E-02	1.41E-02
Cognitive function	GP17	CHR15:40722487-41722487	511	3.41E-03	9.47E-01	8.86E-05	2.45E-02	2.52E-02
Cognitive function	GP17	CHR4:102688709-103688709	848	4.25E-17	9.44E-01	1.68E-18	3.72E-02	1.93E-02
Cognitive function	GP17	CHR4:10204137-11204137	1,297	1.16E-03	9.40E-01	5.29E-05	4.30E-02	1.59E-02
Cognitive function	GP17	CHR8:13502020-14502020	2,100	1.53E-04	8.97E-01	1.26E-05	7.41E-02	2.88E-02
Cognitive function	GP17	CHR4:105651843-106651843	822	5.54E-13	9.52E-01	1.24E-14	2.13E-02	2.69E-02
Cognitive function	GP17	CHR10:101412194-102412194	670	5.58E-03	9.30E-01	2.28E-04	3.79E-02	2.63E-02
Cognitive function	GP17	CHR5:100605998-101605998	1,014	2.80E-02	9.22E-01	1.03E-03	3.40E-02	1.51E-02
Cognitive function	GP17	CHR16:7157373-8157373	2,095	8.62E-04	9.11E-01	6.74E-05	7.12E-02	1.65E-02
Cognitive function	GP17	CHR3:35027409-36027409	857	1.39E-03	9.57E-01	3.49E-05	2.40E-02	1.74E-02
Cognitive function	GP17	CHR16:50450805-51450805	824	3.19E-03	9.47E-01	1.00E-04	2.98E-02	2.02E-02
Cognitive function	GP17	CHR19:12030177-13030177	417	9.10E-05	9.59E-01	1.55E-06	1.63E-02	2.49E-02
Cognitive function	GP17	CHR2:57448003-58448003	968	4.68E-03	9.41E-01	1.75E-04	3.52E-02	1.90E-02
Cognitive function	GP17	CHR14:69216957-70216957	770	8.22E-03	9.58E-01	1.66E-04	1.93E-02	1.47E-02
Cognitive function	GP17	CHR2:32236043-33236043	575	1.43E-02	9.33E-01	5.23E-04	3.41E-02	1.82E-02
Cognitive function	GP17	CHR1:41281151-42281151	947	1.11E-10	9.55E-01	3.73E-12	3.22E-02	1.25E-02
Cognitive function	GP17	CHR6:98050289-99050289	793	1.36E-20	9.51E-01	5.61E-22	3.93E-02	1.01E-02
Cognitive function	GP17	CHR1:21930069-22930069	924	7.42E-03	9.11E-01	3.91E-04	4.80E-02	3.30E-02

Cognitive function	GP17	CHR14:26677910-27677910	973	1.47E-03	9.37E-01	7.38E-05	4.69E-02	1.45E-02
Cognitive function	GP17	CHR14:32792743-33792743	1,306	7.75E-07	8.88E-01	8.78E-08	1.01E-01	1.18E-02
Cognitive function	GP17	CHR4:2217690-3217690	635	1.12E-04	9.69E-01	2.23E-06	1.92E-02	1.19E-02
Cognitive function	GP17	CHR3:49390613-50390613	355	1.96E-22	9.56E-01	1.84E-24	8.93E-03	3.47E-02
Cognitive function	GP17	CHR9:111375463-112375463	1,491	2.52E-02	9.15E-01	1.13E-03	4.09E-02	1.78E-02
Cognitive function	GP17	CHR16:51077196-52077196	966	1.20E-02	9.29E-01	4.58E-04	3.54E-02	2.28E-02
Cognitive function	GP17	CHR8:145244429-146244429	295	6.26E-03	9.65E-01	9.54E-05	1.47E-02	1.38E-02
Cognitive function	GP17	CHR8:30513470-31513470	848	2.15E-04	9.62E-01	6.03E-06	2.69E-02	1.06E-02
Cognitive function	GP17	CHR16:12656649-13656649	1,454	2.79E-02	5.94E-01	1.66E-02	3.52E-01	9.74E-03
Cognitive function	GP17	CHR10:129613462-130613462	1,268	7.40E-02	8.72E-01	3.44E-03	4.05E-02	1.04E-02
Cognitive function	GP17	CHR21:40016070-41016070	1,171	6.46E-03	9.45E-01	2.02E-04	2.96E-02	1.83E-02
Cognitive function	GP17	CHR8:141045193-142045193	683	6.59E-03	9.57E-01	1.54E-04	2.24E-02	1.43E-02
Cognitive function	GP17	CHR1:72249848-73249848	888	2.44E-15	9.20E-01	7.06E-17	2.66E-02	5.38E-02
Cognitive function	GP17	CHR7:44300176-45300176	792	1.56E-06	9.32E-01	7.84E-08	4.68E-02	2.08E-02
Cognitive function	GP17	CHR10:103065960-104065960	411	2.13E-11	9.50E-01	8.83E-13	3.93E-02	1.08E-02
Cognitive function	GP17	CHR4:65331184-66331184	973	1.78E-03	9.33E-01	7.84E-05	4.11E-02	2.36E-02
Cognitive function	GP17	CHR5:91977890-92977890	654	1.58E-03	9.52E-01	5.42E-05	3.27E-02	1.38E-02
Cognitive function	GP17	CHR2:43685129-44685129	1,176	2.11E-02	9.33E-01	7.15E-04	3.16E-02	1.41E-02
Cognitive function	GP17	CHR5:139045748-140045748	464	1.26E-08	9.54E-01	4.32E-10	3.26E-02	1.36E-02
Cognitive function	GP17	CHR9:95771752-96771752	1,092	1.22E-04	9.17E-01	4.01E-06	3.01E-02	5.32E-02
Cognitive function	GP17	CHR11:133314713-134314713	983	4.86E-02	8.89E-01	2.07E-03	3.79E-02	2.21E-02
Cognitive function	GP17	CHR8:142811653-143811653	792	2.01E-05	9.60E-01	4.66E-07	2.22E-02	1.76E-02
Cognitive function	GP17	CHR22:41870991-42870991	630	3.23E-08	9.38E-01	1.56E-09	4.52E-02	1.69E-02
Cognitive function	GP17	CHR22:39329736-40329736	668	2.25E-06	9.60E-01	5.77E-08	2.46E-02	1.50E-02
Cognitive function	GP17	CHR11:95061682-96061682	1,210	4.87E-06	9.38E-01	2.63E-07	5.08E-02	1.13E-02
Cognitive function	GP17	CHR6:11008671-12008671	1,392	7.99E-05	9.21E-01	4.84E-06	5.57E-02	2.37E-02
Cognitive function	GP17	CHR4:152092933-153092933	776	1.21E-06	9.30E-01	5.60E-08	4.29E-02	2.69E-02
Cognitive function	GP17	CHR1:59040811-60040811	936	3.10E-04	9.51E-01	9.21E-06	2.82E-02	2.01E-02
Cognitive function	GP17	CHR4:67470101-68470101	889	7.90E-05	9.52E-01	2.89E-06	3.48E-02	1.34E-02
Cognitive function	GP17	CHR6:21456404-22456404	1,039	1.04E-02	9.35E-01	4.68E-04	4.20E-02	1.20E-02
Cognitive function	GP17	CHR7:133031432-134031432	895	4.22E-08	9.57E-01	1.44E-09	3.26E-02	1.07E-02
Cognitive function	GP17	CHR9:134366271-135366271	938	7.64E-03	9.21E-01	3.68E-04	4.44E-02	2.66E-02
Cognitive function	GP17	CHR19:31452890-32452890	790	3.01E-04	9.43E-01	8.96E-06	2.80E-02	2.84E-02
Cognitive function	GP17	CHR2:198429896-199429896	640	1.77E-02	9.50E-01	2.88E-04	1.55E-02	1.64E-02
Cognitive function	GP17	CHR3:11975088-12975088	873	1.51E-03	9.32E-01	5.47E-05	3.36E-02	3.31E-02
Cognitive function	GP17	CHR12:79185226-80185226	750	1.15E-08	9.48E-01	4.29E-10	3.55E-02	1.64E-02
Cognitive function	GP17	CHR16:52998655-53998655	760	2.03E-10	9.61E-01	5.73E-12	2.72E-02	1.15E-02
Cognitive function	GP17	CHR16:76024013-77024013	1,094	1.03E-01	8.42E-01	4.19E-03	3.43E-02	1.63E-02
Cognitive function	GP17	CHR5:164973194-165973194	1,001	9.89E-05	9.38E-01	4.87E-06	4.62E-02	1.59E-02
Cognitive function	GP17	CHR1:37365954-38365954	682	2.66E-02	7.27E-01	8.15E-03	2.23E-01	1.50E-02
Cognitive function	GP17	CHR6:108364419-109364419	723	3.17E-15	9.41E-01	1.32E-16	3.90E-02	1.99E-02
Cognitive function	GP17	CHR1:68927576-69927576	757	8.95E-07	9.35E-01	4.49E-08	4.69E-02	1.78E-02
Cognitive function	GP17	CHR16:61694176-62694176	894	9.55E-05	9.43E-01	3.40E-06	3.35E-02	2.34E-02
Cognitive function	GP18	CHR7:157036448-158036448	761	1.28E-04	6.63E-01	4.35E-06	2.23E-02	3.14E-01
Cognitive function	GP18	CHR14:103518455-104518455	651	7.79E-05	9.57E-01	2.09E-06	2.57E-02	1.67E-02
Cognitive function	GP18	CHR2:60213235-61213235	824	6.62E-09	8.79E-01	8.16E-10	1.08E-01	1.22E-02
Cognitive function	GP18	CHR15:51696830-52696830	708	3.67E-05	9.40E-01	9.45E-07	2.42E-02	3.56E-02
Cognitive function	GP18	CHR11:47140429-48140429	457	9.11E-05	7.57E-01	8.58E-06	7.11E-02	1.72E-01
Cognitive function	GP18	CHR12:48922094-49922094	448	1.16E-09	9.74E-01	1.47E-11	1.23E-02	1.37E-02

Cognitive function	GP18	CHR17:46590785-47590785	651	1.34E-04	7.57E-01	5.64E-06	3.15E-02	2.12E-01
Cognitive function	GP18	CHR1:216330128-217330128	1,418	1.96E-04	9.22E-01	1.36E-05	6.37E-02	1.39E-02
Cognitive function	GP18	CHR9:71610562-72610562	994	4.24E-02	8.90E-01	2.47E-03	5.18E-02	1.37E-02
Cognitive function	GP18	CHR1:43529353-44529353	772	3.77E-05	9.29E-01	2.21E-06	5.44E-02	1.62E-02
Cognitive function	GP18	CHR1:109530945-110530945	642	6.06E-08	9.52E-01	2.15E-09	3.37E-02	1.45E-02
Cognitive function	GP18	CHR3:71045170-72045170	874	7.31E-03	8.99E-01	6.13E-04	7.54E-02	1.76E-02
Cognitive function	GP18	CHR14:98170849-99170849	1,458	1.58E-03	9.27E-01	9.28E-05	5.45E-02	1.67E-02
Cognitive function	GP18	CHR15:40722487-41722487	511	3.42E-03	9.49E-01	9.05E-05	2.51E-02	2.25E-02
Cognitive function	GP18	CHR4:102688709-103688709	848	4.02E-17	8.92E-01	3.34E-18	7.40E-02	3.35E-02
Cognitive function	GP18	CHR4:10204137-11204137	1,297	1.17E-03	9.48E-01	4.22E-05	3.43E-02	1.60E-02
Cognitive function	GP18	CHR8:13502020-14502020	2,100	1.52E-04	8.95E-01	1.40E-05	8.22E-02	2.28E-02
Cognitive function	GP18	CHR4:105651843-106651843	822	3.47E-13	5.96E-01	2.33E-14	3.96E-02	3.65E-01
Cognitive function	GP18	CHR10:101412194-102412194	670	5.53E-03	9.21E-01	1.30E-04	2.17E-02	5.19E-02
Cognitive function	GP18	CHR5:100605998-101605998	1,014	2.57E-02	8.46E-01	3.11E-03	1.02E-01	2.31E-02
Cognitive function	GP18	CHR16:7157373-8157373	2,095	8.56E-04	9.05E-01	7.57E-05	8.00E-02	1.37E-02
Cognitive function	GP18	CHR3:35027409-36027409	857	1.39E-03	9.60E-01	3.98E-05	2.74E-02	1.11E-02
Cognitive function	GP18	CHR16:50450805-51450805	824	1.75E-03	5.20E-01	1.91E-04	5.63E-02	4.22E-01
Cognitive function	GP18	CHR19:12030177-13030177	417	9.03E-05	9.51E-01	1.21E-06	1.27E-02	3.64E-02
Cognitive function	GP18	CHR2:57448003-58448003	968	4.68E-03	9.40E-01	1.29E-04	2.59E-02	2.93E-02
Cognitive function	GP18	CHR14:69216957-70216957	770	8.01E-03	9.33E-01	2.21E-04	2.57E-02	3.31E-02
Cognitive function	GP18	CHR2:32236043-33236043	575	1.47E-02	9.57E-01	2.47E-04	1.60E-02	1.24E-02
Cognitive function	GP18	CHR1:41281151-42281151	947	9.88E-11	8.54E-01	4.03E-12	3.47E-02	1.12E-01
Cognitive function	GP18	CHR6:98050289-99050289	793	1.34E-20	9.40E-01	7.10E-22	4.97E-02	1.01E-02
Cognitive function	GP18	CHR1:21930069-22930069	924	7.64E-03	9.39E-01	2.75E-04	3.37E-02	1.98E-02
Cognitive function	GP18	CHR14:26677910-27677910	973	1.33E-03	8.48E-01	2.15E-04	1.37E-01	1.38E-02
Cognitive function	GP18	CHR14:32792743-33792743	1,306	7.87E-07	9.02E-01	6.15E-08	7.04E-02	2.78E-02
Cognitive function	GP18	CHR4:2217690-3217690	635	1.12E-04	9.69E-01	2.20E-06	1.90E-02	1.15E-02
Cognitive function	GP18	CHR3:49390613-50390613	355	2.01E-22	9.79E-01	1.38E-24	6.69E-03	1.48E-02
Cognitive function	GP18	CHR9:111375463-112375463	1,491	2.52E-02	9.16E-01	1.25E-03	4.53E-02	1.27E-02
Cognitive function	GP18	CHR16:51077196-52077196	966	1.21E-02	9.35E-01	4.22E-04	3.26E-02	1.95E-02
Cognitive function	GP18	CHR8:145244429-146244429	295	5.71E-03	8.80E-01	8.26E-05	1.26E-02	1.02E-01
Cognitive function	GP18	CHR8:30513470-31513470	848	2.14E-04	9.56E-01	6.75E-06	3.02E-02	1.32E-02
Cognitive function	GP18	CHR16:12656649-13656649	1,454	4.07E-02	8.64E-01	3.60E-03	7.65E-02	1.48E-02
Cognitive function	GP18	CHR10:129613462-130613462	1,268	7.33E-02	8.64E-01	4.06E-03	4.78E-02	1.05E-02
Cognitive function	GP18	CHR21:40016070-41016070	1,171	6.53E-03	9.54E-01	1.81E-04	2.65E-02	1.25E-02
Cognitive function	GP18	CHR8:141045193-142045193	683	6.32E-03	9.18E-01	1.03E-04	1.49E-02	6.11E-02
Cognitive function	GP18	CHR1:72249848-73249848	888	2.52E-15	9.50E-01	8.94E-17	3.37E-02	1.63E-02
Cognitive function	GP18	CHR7:44300176-45300176	792	1.57E-06	9.37E-01	7.60E-08	4.54E-02	1.72E-02
Cognitive function	GP18	CHR10:103065960-104065960	411	2.20E-11	9.77E-01	2.53E-13	1.12E-02	1.15E-02
Cognitive function	GP18	CHR4:65331184-66331184	973	1.81E-03	9.51E-01	6.14E-05	3.22E-02	1.46E-02
Cognitive function	GP18	CHR5:91977890-92977890	654	1.60E-03	9.65E-01	3.70E-05	2.23E-02	1.12E-02
Cognitive function	GP18	CHR2:43685129-44685129	1,176	1.92E-02	8.51E-01	1.63E-03	7.20E-02	5.58E-02
Cognitive function	GP18	CHR5:139045748-140045748	464	1.27E-08	9.61E-01	3.56E-10	2.69E-02	1.23E-02
Cognitive function	GP18	CHR9:95771752-96771752	1,092	1.27E-04	9.56E-01	4.14E-06	3.11E-02	1.33E-02
Cognitive function	GP18	CHR11:133314713-134314713	983	4.78E-02	8.75E-01	1.51E-03	2.76E-02	4.82E-02
Cognitive function	GP18	CHR8:142811653-143811653	792	1.95E-05	9.32E-01	1.07E-06	5.09E-02	1.74E-02
Cognitive function	GP18	CHR22:41870991-42870991	630	2.39E-08	6.94E-01	2.60E-09	7.51E-02	2.31E-01
Cognitive function	GP18	CHR22:39329736-40329736	668	2.24E-06	9.55E-01	7.18E-08	3.07E-02	1.44E-02
Cognitive function	GP18	CHR11:95061682-96061682	1,210	4.85E-06	9.34E-01	2.68E-07	5.16E-02	1.40E-02

Cognitive function	GP18	CHR6:11008671-12008671	1,392	7.98E-05	9.19E-01	5.96E-06	6.87E-02	1.20E-02
Cognitive function	GP18	CHR4:152092933-153092933	776	1.14E-06	8.76E-01	3.96E-08	3.03E-02	9.33E-02
Cognitive function	GP18	CHR1:59040811-60040811	936	3.14E-04	9.64E-01	7.46E-06	2.29E-02	1.31E-02
Cognitive function	GP18	CHR4:67470101-68470101	889	7.85E-05	9.45E-01	3.59E-06	4.32E-02	1.18E-02
Cognitive function	GP18	CHR6:21456404-22456404	1,039	1.04E-02	9.33E-01	4.88E-04	4.38E-02	1.24E-02
Cognitive function	GP18	CHR7:133031432-134031432	895	4.20E-08	9.53E-01	1.59E-09	3.61E-02	1.10E-02
Cognitive function	GP18	CHR9:134366271-135366271	938	7.67E-03	9.25E-01	3.95E-04	4.77E-02	1.91E-02
Cognitive function	GP18	CHR19:31452890-32452890	790	3.00E-04	9.40E-01	1.37E-05	4.27E-02	1.71E-02
Cognitive function	GP18	CHR2:198429896-199429896	640	1.69E-02	9.06E-01	1.16E-03	6.25E-02	1.33E-02
Cognitive function	GP18	CHR3:11975088-12975088	873	1.54E-03	9.49E-01	5.63E-05	3.46E-02	1.51E-02
Cognitive function	GP18	CHR12:79185226-80185226	750	1.06E-08	8.72E-01	3.74E-10	3.08E-02	9.67E-02
Cognitive function	GP18	CHR16:52998655-53998655	760	1.99E-10	9.43E-01	9.55E-12	4.53E-02	1.15E-02
Cognitive function	GP18	CHR16:76024013-77024013	1,094	1.01E-01	8.25E-01	5.17E-03	4.23E-02	2.64E-02
Cognitive function	GP18	CHR5:164973194-165973194	1,001	9.39E-05	8.91E-01	5.56E-06	5.26E-02	5.66E-02
Cognitive function	GP18	CHR1:37365954-38365954	682	3.41E-02	9.31E-01	7.97E-04	2.18E-02	1.20E-02
Cognitive function	GP18	CHR6:108364419-109364419	723	3.20E-15	9.51E-01	1.06E-16	3.14E-02	1.80E-02
Cognitive function	GP18	CHR1:68927576-69927576	757	9.08E-07	9.48E-01	2.01E-08	2.10E-02	3.07E-02
Cognitive function	GP18	CHR16:61694176-62694176	894	9.40E-05	9.28E-01	5.78E-06	5.70E-02	1.49E-02
Cognitive function	GP19	CHR7:157036448-158036448	761	1.46E-04	7.58E-01	5.26E-06	2.72E-02	2.14E-01
Cognitive function	GP19	CHR14:103518455-104518455	651	7.81E-05	9.60E-01	1.97E-06	2.41E-02	1.62E-02
Cognitive function	GP19	CHR2:60213235-61213235	824	7.07E-09	9.39E-01	2.04E-10	2.70E-02	3.39E-02
Cognitive function	GP19	CHR15:51696830-52696830	708	3.63E-05	9.30E-01	1.45E-06	3.72E-02	3.27E-02
Cognitive function	GP19	CHR11:47140429-48140429	457	6.90E-05	5.73E-01	6.86E-06	5.66E-02	3.70E-01
Cognitive function	GP19	CHR12:48922094-49922094	448	1.15E-09	9.68E-01	2.07E-11	1.74E-02	1.49E-02
Cognitive function	GP19	CHR17:46590785-47590785	651	1.70E-04	9.56E-01	4.83E-06	2.72E-02	1.64E-02
Cognitive function	GP19	CHR1:216330128-217330128	1,418	1.96E-04	9.22E-01	1.39E-05	6.52E-02	1.27E-02
Cognitive function	GP19	CHR9:71610562-72610562	994	4.30E-02	9.02E-01	1.90E-03	3.99E-02	1.31E-02
Cognitive function	GP19	CHR1:43529353-44529353	772	3.87E-05	9.55E-01	1.16E-06	2.85E-02	1.68E-02
Cognitive function	GP19	CHR1:109530945-110530945	642	6.15E-08	9.65E-01	1.22E-09	1.92E-02	1.55E-02
Cognitive function	GP19	CHR3:71045170-72045170	874	7.57E-03	9.31E-01	3.27E-04	4.02E-02	2.10E-02
Cognitive function	GP19	CHR14:98170849-99170849	1,458	1.58E-03	9.29E-01	8.76E-05	5.15E-02	1.84E-02
Cognitive function	GP19	CHR15:40722487-41722487	511	3.28E-03	9.11E-01	2.30E-04	6.38E-02	2.20E-02
Cognitive function	GP19	CHR4:102688709-103688709	848	4.27E-17	9.49E-01	1.38E-18	3.06E-02	2.04E-02
Cognitive function	GP19	CHR4:10204137-11204137	1,297	1.16E-03	9.41E-01	5.15E-05	4.19E-02	1.58E-02
Cognitive function	GP19	CHR8:13502020-14502020	2,100	1.58E-04	9.28E-01	1.01E-05	5.91E-02	1.27E-02
Cognitive function	GP19	CHR4:105651843-106651843	822	5.24E-13	8.99E-01	5.22E-14	8.96E-02	1.12E-02
Cognitive function	GP19	CHR10:101412194-102412194	670	5.75E-03	9.58E-01	1.41E-04	2.35E-02	1.30E-02
Cognitive function	GP19	CHR5:100605998-101605998	1,014	2.73E-02	8.97E-01	1.72E-03	5.65E-02	1.71E-02
Cognitive function	GP19	CHR16:7157373-8157373	2,095	8.22E-04	8.69E-01	9.17E-05	9.69E-02	3.35E-02
Cognitive function	GP19	CHR3:35027409-36027409	857	1.33E-03	9.14E-01	6.44E-05	4.44E-02	4.04E-02
Cognitive function	GP19	CHR16:50450805-51450805	824	2.96E-03	8.77E-01	1.62E-04	4.81E-02	7.16E-02
Cognitive function	GP19	CHR19:12030177-13030177	417	8.74E-05	9.20E-01	1.53E-06	1.60E-02	6.35E-02
Cognitive function	GP19	CHR2:57448003-58448003	968	4.73E-03	9.51E-01	1.30E-04	2.62E-02	1.76E-02
Cognitive function	GP19	CHR14:69216957-70216957	770	8.16E-03	9.51E-01	1.59E-04	1.85E-02	2.23E-02
Cognitive function	GP19	CHR2:32236043-33236043	575	1.43E-02	9.33E-01	5.90E-04	3.84E-02	1.33E-02
Cognitive function	GP19	CHR1:41281151-42281151	947	1.08E-10	9.35E-01	5.07E-12	4.38E-02	2.13E-02
Cognitive function	GP19	CHR6:98050289-99050289	793	1.36E-20	9.53E-01	4.29E-22	3.00E-02	1.69E-02
Cognitive function	GP19	CHR1:21930069-22930069	924	6.86E-03	8.42E-01	1.10E-03	1.35E-01	1.52E-02
Cognitive function	GP19	CHR14:26677910-27677910	973	1.47E-03	9.34E-01	7.24E-05	4.60E-02	1.89E-02

Cognitive function	GP19	CHR14:32792743-33792743	1,306	7.46E-07	8.55E-01	8.82E-08	1.01E-01	4.40E-02
Cognitive function	GP19	CHR4:2217690-3217690	635	1.10E-04	9.52E-01	4.19E-06	3.62E-02	1.12E-02
Cognitive function	GP19	CHR3:49390613-50390613	355	2.00E-22	9.74E-01	1.90E-24	9.24E-03	1.63E-02
Cognitive function	GP19	CHR9:111375463-112375463	1,491	2.52E-02	9.13E-01	1.37E-03	4.98E-02	1.05E-02
Cognitive function	GP19	CHR16:51077196-52077196	966	1.20E-02	9.32E-01	5.02E-04	3.88E-02	1.71E-02
Cognitive function	GP19	CHR8:145244429-146244429	295	6.26E-03	9.64E-01	8.23E-05	1.27E-02	1.68E-02
Cognitive function	GP19	CHR8:30513470-31513470	848	1.89E-04	8.43E-01	1.41E-05	6.28E-02	9.37E-02
Cognitive function	GP19	CHR16:12656649-13656649	1,454	4.12E-02	8.76E-01	2.48E-03	5.27E-02	2.71E-02
Cognitive function	GP19	CHR10:129613462-130613462	1,268	7.26E-02	8.55E-01	4.71E-03	5.55E-02	1.19E-02
Cognitive function	GP19	CHR21:40016070-41016070	1,171	3.04E-03	4.45E-01	2.15E-03	3.14E-01	2.37E-01
Cognitive function	GP19	CHR8:141045193-142045193	683	6.52E-03	9.46E-01	2.14E-04	3.10E-02	1.61E-02
Cognitive function	GP19	CHR1:72249848-73249848	888	2.52E-15	9.52E-01	7.45E-17	2.81E-02	1.95E-02
Cognitive function	GP19	CHR7:44300176-45300176	792	1.61E-06	9.59E-01	4.15E-08	2.48E-02	1.63E-02
Cognitive function	GP19	CHR10:103065960-104065960	411	2.18E-11	9.71E-01	3.68E-13	1.63E-02	1.23E-02
Cognitive function	GP19	CHR4:65331184-66331184	973	1.71E-03	8.98E-01	6.23E-05	3.26E-02	6.76E-02
Cognitive function	GP19	CHR5:91977890-92977890	654	1.60E-03	9.64E-01	3.72E-05	2.25E-02	1.15E-02
Cognitive function	GP19	CHR2:43685129-44685129	1,176	2.08E-02	9.22E-01	9.84E-04	4.35E-02	1.31E-02
Cognitive function	GP19	CHR5:139045748-140045748	464	1.26E-08	9.53E-01	2.64E-10	1.99E-02	2.71E-02
Cognitive function	GP19	CHR9:95771752-96771752	1,092	1.25E-04	9.38E-01	6.39E-06	4.80E-02	1.34E-02
Cognitive function	GP19	CHR11:133314713-134314713	983	4.64E-02	8.50E-01	2.65E-03	4.84E-02	5.29E-02
Cognitive function	GP19	CHR8:142811653-143811653	792	2.02E-05	9.63E-01	5.11E-07	2.44E-02	1.27E-02
Cognitive function	GP19	CHR22:41870991-42870991	630	3.31E-08	9.59E-01	9.23E-10	2.68E-02	1.41E-02
Cognitive function	GP19	CHR22:39329736-40329736	668	2.08E-12	8.88E-07	2.03E-08	7.67E-03	9.92E-01
Cognitive function	GP19	CHR11:95061682-96061682	1,210	4.73E-06	9.12E-01	2.74E-07	5.27E-02	3.56E-02
Cognitive function	GP19	CHR6:11008671-12008671	1,392	8.25E-05	9.50E-01	3.28E-06	3.78E-02	1.22E-02
Cognitive function	GP19	CHR4:152092933-153092933	776	1.26E-06	9.66E-01	2.56E-08	1.96E-02	1.41E-02
Cognitive function	GP19	CHR1:59040811-60040811	936	3.11E-04	9.54E-01	1.09E-05	3.35E-02	1.24E-02
Cognitive function	GP19	CHR4:67470101-68470101	889	8.01E-05	9.64E-01	1.96E-06	2.36E-02	1.21E-02
Cognitive function	GP19	CHR6:21456404-22456404	1,039	9.57E-03	8.59E-01	1.31E-03	1.18E-01	1.26E-02
Cognitive function	GP19	CHR7:133031432-134031432	895	4.20E-08	9.52E-01	1.56E-09	3.54E-02	1.22E-02
Cognitive function	GP19	CHR9:134366271-135366271	938	7.79E-03	9.40E-01	3.25E-04	3.92E-02	1.27E-02
Cognitive function	GP19	CHR19:31452890-32452890	790	2.94E-04	9.21E-01	8.77E-06	2.74E-02	5.10E-02
Cognitive function	GP19	CHR2:198429896-199429896	640	1.77E-02	9.48E-01	3.64E-04	1.96E-02	1.41E-02
Cognitive function	GP19	CHR3:11975088-12975088	873	1.54E-03	9.50E-01	4.16E-05	2.56E-02	2.28E-02
Cognitive function	GP19	CHR12:79185226-80185226	750	1.15E-08	9.49E-01	3.89E-10	3.21E-02	1.86E-02
Cognitive function	GP19	CHR16:52998655-53998655	760	2.02E-10	9.56E-01	6.52E-12	3.09E-02	1.32E-02
Cognitive function	GP19	CHR16:76024013-77024013	1,094	1.03E-01	8.44E-01	3.71E-03	3.04E-02	1.92E-02
Cognitive function	GP19	CHR5:164973194-165973194	1,001	9.92E-05	9.41E-01	4.61E-06	4.37E-02	1.52E-02
Cognitive function	GP19	CHR1:37365954-38365954	682	3.41E-02	9.33E-01	7.57E-04	2.07E-02	1.17E-02
Cognitive function	GP19	CHR6:108364419-109364419	723	3.23E-15	9.60E-01	8.72E-17	2.59E-02	1.39E-02
Cognitive function	GP19	CHR1:68927576-69927576	757	9.00E-07	9.41E-01	2.31E-08	2.41E-02	3.51E-02
Cognitive function	GP19	CHR16:61694176-62694176	894	9.71E-05	9.58E-01	2.69E-06	2.65E-02	1.53E-02
Cognitive function	GP20	CHR7:157036448-158036448	761	1.81E-04	9.42E-01	5.13E-06	2.67E-02	3.11E-02
Cognitive function	GP20	CHR14:103518455-104518455	651	7.88E-05	9.68E-01	1.63E-06	2.00E-02	1.18E-02
Cognitive function	GP20	CHR2:60213235-61213235	824	5.91E-09	7.86E-01	3.88E-10	5.14E-02	1.62E-01
Cognitive function	GP20	CHR15:51696830-52696830	708	3.49E-05	8.94E-01	1.05E-06	2.68E-02	7.91E-02
Cognitive function	GP20	CHR11:47140429-48140429	457	1.17E-04	9.69E-01	2.02E-06	1.68E-02	1.37E-02
Cognitive function	GP20	CHR12:48922094-49922094	448	1.16E-09	9.74E-01	1.70E-11	1.43E-02	1.19E-02
Cognitive function	GP20	CHR17:46590785-47590785	651	1.70E-04	9.58E-01	4.08E-06	2.30E-02	1.86E-02

Cognitive function	GP20	CHR1:216330128-217330128	1,418	1.92E-04	9.01E-01	1.41E-05	6.64E-02	3.23E-02
Cognitive function	GP20	CHR9:71610562-72610562	994	4.29E-02	8.99E-01	2.10E-03	4.41E-02	1.16E-02
Cognitive function	GP20	CHR1:43529353-44529353	772	3.87E-05	9.53E-01	1.06E-06	2.61E-02	2.04E-02
Cognitive function	GP20	CHR1:109530945-110530945	642	6.16E-08	9.67E-01	1.19E-09	1.87E-02	1.38E-02
Cognitive function	GP20	CHR3:71045170-72045170	874	7.45E-03	9.16E-01	2.80E-04	3.44E-02	4.24E-02
Cognitive function	GP20	CHR14:98170849-99170849	1,458	1.60E-03	9.40E-01	7.68E-05	4.51E-02	1.30E-02
Cognitive function	GP20	CHR15:40722487-41722487	511	3.40E-03	9.44E-01	9.75E-05	2.70E-02	2.60E-02
Cognitive function	GP20	CHR4:102688709-103688709	848	4.09E-17	9.09E-01	3.31E-18	7.35E-02	1.75E-02
Cognitive function	GP20	CHR4:10204137-11204137	1,297	1.15E-03	9.37E-01	5.67E-05	4.61E-02	1.54E-02
Cognitive function	GP20	CHR8:13502020-14502020	2,100	1.50E-04	8.80E-01	1.68E-05	9.86E-02	2.13E-02
Cognitive function	GP20	CHR4:105651843-106651843	822	5.60E-13	9.62E-01	1.54E-14	2.65E-02	1.15E-02
Cognitive function	GP20	CHR10:101412194-102412194	670	5.56E-03	9.26E-01	3.16E-04	5.27E-02	1.52E-02
Cognitive function	GP20	CHR5:100605998-101605998	1,014	2.78E-02	9.15E-01	1.25E-03	4.13E-02	1.50E-02
Cognitive function	GP20	CHR16:7157373-8157373	2,095	8.50E-04	8.99E-01	8.19E-05	8.66E-02	1.37E-02
Cognitive function	GP20	CHR3:35027409-36027409	857	1.39E-03	9.55E-01	3.25E-05	2.24E-02	2.12E-02
Cognitive function	GP20	CHR16:50450805-51450805	824	3.11E-03	9.22E-01	1.15E-04	3.41E-02	4.05E-02
Cognitive function	GP20	CHR19:12030177-13030177	417	8.97E-05	9.45E-01	1.30E-06	1.37E-02	4.11E-02
Cognitive function	GP20	CHR2:57448003-58448003	968	4.59E-03	9.24E-01	2.21E-04	4.43E-02	2.72E-02
Cognitive function	GP20	CHR14:69216957-70216957	770	8.18E-03	9.52E-01	1.97E-04	2.29E-02	1.64E-02
Cognitive function	GP20	CHR2:32236043-33236043	575	1.45E-02	9.46E-01	3.61E-04	2.35E-02	1.56E-02
Cognitive function	GP20	CHR1:41281151-42281151	947	1.09E-10	9.46E-01	3.86E-12	3.34E-02	2.03E-02
Cognitive function	GP20	CHR6:98050289-99050289	793	1.37E-20	9.59E-01	4.16E-22	2.91E-02	1.23E-02
Cognitive function	GP20	CHR1:21930069-22930069	924	6.08E-03	7.47E-01	2.64E-04	3.22E-02	2.14E-01
Cognitive function	GP20	CHR14:26677910-27677910	973	1.50E-03	9.52E-01	5.02E-05	3.19E-02	1.46E-02
Cognitive function	GP20	CHR14:32792743-33792743	1,306	7.93E-07	9.09E-01	6.97E-08	7.98E-02	1.13E-02
Cognitive function	GP20	CHR4:2217690-3217690	635	1.11E-04	9.62E-01	2.94E-06	2.54E-02	1.23E-02
Cognitive function	GP20	CHR3:49390613-50390613	355	1.99E-22	9.70E-01	1.72E-24	8.35E-03	2.16E-02
Cognitive function	GP20	CHR9:111375463-112375463	1,491	2.52E-02	9.15E-01	1.30E-03	4.73E-02	1.08E-02
Cognitive function	GP20	CHR16:51077196-52077196	966	1.21E-02	9.39E-01	4.25E-04	3.28E-02	1.59E-02
Cognitive function	GP20	CHR8:145244429-146244429	295	6.29E-03	9.68E-01	5.76E-05	8.86E-03	1.64E-02
Cognitive function	GP20	CHR8:30513470-31513470	848	2.12E-04	9.49E-01	8.94E-06	4.00E-02	1.05E-02
Cognitive function	GP20	CHR16:12656649-13656649	1,454	3.91E-02	8.32E-01	5.04E-03	1.07E-01	1.69E-02
Cognitive function	GP20	CHR10:129613462-130613462	1,268	7.10E-02	8.37E-01	4.90E-03	5.77E-02	2.95E-02
Cognitive function	GP20	CHR21:40016070-41016070	1,171	6.38E-03	9.33E-01	2.74E-04	4.00E-02	2.05E-02
Cognitive function	GP20	CHR8:141045193-142045193	683	6.54E-03	9.50E-01	1.33E-04	1.93E-02	2.43E-02
Cognitive function	GP20	CHR1:72249848-73249848	888	2.51E-15	9.48E-01	8.16E-17	3.08E-02	2.15E-02
Cognitive function	GP20	CHR7:44300176-45300176	792	1.60E-06	9.54E-01	4.73E-08	2.82E-02	1.73E-02
Cognitive function	GP20	CHR10:103065960-104065960	411	2.19E-11	9.74E-01	2.85E-13	1.27E-02	1.32E-02
Cognitive function	GP20	CHR4:65331184-66331184	973	1.65E-03	8.65E-01	2.11E-04	1.11E-01	2.30E-02
Cognitive function	GP20	CHR5:91977890-92977890	654	1.57E-03	9.47E-01	5.87E-05	3.54E-02	1.56E-02
Cognitive function	GP20	CHR2:43685129-44685129	1,176	2.08E-02	9.19E-01	1.02E-03	4.51E-02	1.40E-02
Cognitive function	GP20	CHR5:139045748-140045748	464	1.25E-08	9.42E-01	6.23E-10	4.71E-02	1.07E-02
Cognitive function	GP20	CHR9:95771752-96771752	1,092	1.27E-04	9.56E-01	4.02E-06	3.02E-02	1.37E-02
Cognitive function	GP20	CHR11:133314713-134314713	983	4.87E-02	8.91E-01	1.94E-03	3.54E-02	2.30E-02
Cognitive function	GP20	CHR8:142811653-143811653	792	1.88E-05	8.99E-01	5.91E-07	2.81E-02	7.32E-02
Cognitive function	GP20	CHR22:41870991-42870991	630	3.27E-08	9.48E-01	1.23E-09	3.57E-02	1.66E-02
Cognitive function	GP20	CHR22:39329736-40329736	668	2.24E-06	9.55E-01	5.18E-08	2.21E-02	2.25E-02
Cognitive function	GP20	CHR11:95061682-96061682	1,210	4.91E-06	9.46E-01	2.25E-07	4.33E-02	1.05E-02
Cognitive function	GP20	CHR6:11008671-12008671	1,392	8.12E-05	9.35E-01	3.74E-06	4.30E-02	2.19E-02

Cognitive function	GP20	CHR4:152092933-153092933	776	1.25E-06	9.59E-01	3.09E-08	2.37E-02	1.71E-02
Cognitive function	GP20	CHR1:59040811-60040811	936	3.07E-04	9.43E-01	1.37E-05	4.19E-02	1.44E-02
Cognitive function	GP20	CHR4:67470101-68470101	889	5.82E-05	7.01E-01	2.21E-06	2.63E-02	2.72E-01
Cognitive function	GP20	CHR6:21456404-22456404	1,039	1.04E-02	9.34E-01	4.90E-04	4.40E-02	1.15E-02
Cognitive function	GP20	CHR7:133031432-134031432	895	4.12E-08	9.34E-01	2.02E-09	4.57E-02	2.07E-02
Cognitive function	GP20	CHR9:134366271-135366271	938	7.79E-03	9.39E-01	3.05E-04	3.68E-02	1.58E-02
Cognitive function	GP20	CHR19:31452890-32452890	790	3.05E-04	9.56E-01	8.61E-06	2.69E-02	1.65E-02
Cognitive function	GP20	CHR2:198429896-199429896	640	1.77E-02	9.53E-01	3.04E-04	1.63E-02	1.24E-02
Cognitive function	GP20	CHR3:11975088-12975088	873	1.55E-03	9.51E-01	4.99E-05	3.07E-02	1.65E-02
Cognitive function	GP20	CHR12:79185226-80185226	750	1.17E-08	9.65E-01	2.94E-10	2.43E-02	1.09E-02
Cognitive function	GP20	CHR16:52998655-53998655	760	1.51E-10	7.18E-01	7.06E-12	3.32E-02	2.49E-01
Cognitive function	GP20	CHR16:76024013-77024013	1,094	1.02E-01	8.37E-01	4.90E-03	4.01E-02	1.52E-02
Cognitive function	GP20	CHR5:164973194-165973194	1,001	9.79E-05	9.28E-01	4.51E-06	4.27E-02	2.92E-02
Cognitive function	GP20	CHR1:37365954-38365954	682	3.37E-02	9.22E-01	1.06E-03	2.89E-02	1.45E-02
Cognitive function	GP20	CHR6:108364419-109364419	723	1.49E-15	4.42E-01	1.86E-15	5.52E-01	6.65E-03
Cognitive function	GP20	CHR1:68927576-69927576	757	9.06E-07	9.47E-01	2.56E-08	2.68E-02	2.62E-02
Cognitive function	GP20	CHR16:61694176-62694176	894	9.30E-05	9.18E-01	6.21E-06	6.12E-02	2.08E-02
Cognitive function	GP21	CHR7:157036448-158036448	761	1.79E-04	9.30E-01	7.36E-06	3.83E-02	3.12E-02
Cognitive function	GP21	CHR14:103518455-104518455	651	7.89E-05	9.70E-01	1.46E-06	1.79E-02	1.25E-02
Cognitive function	GP21	CHR2:60213235-61213235	824	7.12E-09	9.46E-01	2.26E-10	3.00E-02	2.37E-02
Cognitive function	GP21	CHR15:51696830-52696830	708	3.36E-05	8.62E-01	1.43E-06	3.66E-02	1.01E-01
Cognitive function	GP21	CHR11:47140429-48140429	457	1.18E-04	9.77E-01	1.36E-06	1.13E-02	1.12E-02
Cognitive function	GP21	CHR12:48922094-49922094	448	1.15E-09	9.70E-01	1.61E-11	1.36E-02	1.69E-02
Cognitive function	GP21	CHR17:46590785-47590785	651	1.70E-04	9.56E-01	5.02E-06	2.83E-02	1.57E-02
Cognitive function	GP21	CHR1:216330128-217330128	1,418	1.95E-04	9.17E-01	1.24E-05	5.84E-02	2.42E-02
Cognitive function	GP21	CHR9:71610562-72610562	994	3.97E-02	8.34E-01	5.11E-03	1.07E-01	1.41E-02
Cognitive function	GP21	CHR1:43529353-44529353	772	3.86E-05	9.52E-01	1.09E-06	2.67E-02	2.11E-02
Cognitive function	GP21	CHR1:109530945-110530945	642	6.08E-08	9.54E-01	1.18E-09	1.85E-02	2.72E-02
Cognitive function	GP21	CHR3:71045170-72045170	874	7.58E-03	9.32E-01	3.02E-04	3.71E-02	2.28E-02
Cognitive function	GP21	CHR14:98170849-99170849	1,458	1.56E-03	9.15E-01	8.01E-05	4.70E-02	3.58E-02
Cognitive function	GP21	CHR15:40722487-41722487	511	3.39E-03	9.40E-01	1.12E-04	3.10E-02	2.55E-02
Cognitive function	GP21	CHR4:102688709-103688709	848	4.29E-17	9.53E-01	1.22E-18	2.71E-02	1.99E-02
Cognitive function	GP21	CHR4:10204137-11204137	1,297	1.07E-03	8.73E-01	1.34E-04	1.09E-01	1.69E-02
Cognitive function	GP21	CHR8:13502020-14502020	2,100	1.56E-04	9.19E-01	1.11E-05	6.53E-02	1.57E-02
Cognitive function	GP21	CHR4:105651843-106651843	822	5.63E-13	9.67E-01	1.26E-14	2.16E-02	1.14E-02
Cognitive function	GP21	CHR10:101412194-102412194	670	5.74E-03	9.56E-01	1.45E-04	2.41E-02	1.39E-02
Cognitive function	GP21	CHR5:100605998-101605998	1,014	2.73E-02	8.99E-01	1.68E-03	5.53E-02	1.66E-02
Cognitive function	GP21	CHR16:7157373-8157373	2,095	8.68E-04	9.18E-01	6.39E-05	6.76E-02	1.38E-02
Cognitive function	GP21	CHR3:35027409-36027409	857	1.38E-03	9.48E-01	3.26E-05	2.24E-02	2.77E-02
Cognitive function	GP21	CHR16:50450805-51450805	824	3.19E-03	9.48E-01	1.03E-04	3.04E-02	1.83E-02
Cognitive function	GP21	CHR19:12030177-13030177	417	9.13E-05	9.61E-01	1.34E-06	1.41E-02	2.46E-02
Cognitive function	GP21	CHR2:57448003-58448003	968	4.39E-03	8.83E-01	4.45E-04	8.94E-02	2.32E-02
Cognitive function	GP21	CHR14:69216957-70216957	770	8.15E-03	9.49E-01	2.00E-04	2.33E-02	1.90E-02
Cognitive function	GP21	CHR2:32236043-33236043	575	1.45E-02	9.46E-01	2.76E-04	1.80E-02	2.10E-02
Cognitive function	GP21	CHR1:41281151-42281151	947	1.04E-10	9.01E-01	8.66E-12	7.49E-02	2.46E-02
Cognitive function	GP21	CHR6:98050289-99050289	793	1.37E-20	9.62E-01	3.72E-22	2.60E-02	1.24E-02
Cognitive function	GP21	CHR1:21930069-22930069	924	7.51E-03	9.22E-01	3.76E-04	4.61E-02	2.36E-02
Cognitive function	GP21	CHR14:26677910-27677910	973	1.49E-03	9.49E-01	5.72E-05	3.64E-02	1.30E-02
Cognitive function	GP21	CHR14:32792743-33792743	1,306	8.26E-07	9.46E-01	3.66E-08	4.20E-02	1.19E-02

Cognitive function	GP21	CHR4:2217690-3217690	635	1.12E-04	9.67E-01	2.16E-06	1.87E-02	1.44E-02
Cognitive function	GP21	CHR3:49390613-50390613	355	2.00E-22	9.75E-01	1.43E-24	6.95E-03	1.78E-02
Cognitive function	GP21	CHR9:111375463-112375463	1,491	2.51E-02	9.10E-01	1.32E-03	4.80E-02	1.58E-02
Cognitive function	GP21	CHR16:51077196-52077196	966	1.22E-02	9.41E-01	3.74E-04	2.89E-02	1.71E-02
Cognitive function	GP21	CHR8:145244429-146244429	295	6.28E-03	9.68E-01	6.31E-05	9.71E-03	1.57E-02
Cognitive function	GP21	CHR8:30513470-31513470	848	2.14E-04	9.56E-01	7.49E-06	3.35E-02	1.06E-02
Cognitive function	GP21	CHR16:12656649-13656649	1,454	4.09E-02	8.69E-01	3.37E-03	7.16E-02	1.54E-02
Cognitive function	GP21	CHR10:129613462-130613462	1,268	7.36E-02	8.68E-01	3.75E-03	4.41E-02	1.05E-02
Cognitive function	GP21	CHR21:40016070-41016070	1,171	6.22E-03	9.10E-01	3.20E-04	4.68E-02	3.68E-02
Cognitive function	GP21	CHR8:141045193-142045193	683	6.58E-03	9.55E-01	1.56E-04	2.26E-02	1.57E-02
Cognitive function	GP21	CHR1:72249848-73249848	888	2.27E-15	8.58E-01	7.19E-17	2.70E-02	1.15E-01
Cognitive function	GP21	CHR7:44300176-45300176	792	1.60E-06	9.56E-01	4.15E-08	2.47E-02	1.97E-02
Cognitive function	GP21	CHR10:103065960-104065960	411	1.96E-11	8.74E-01	2.62E-12	1.17E-01	9.85E-03
Cognitive function	GP21	CHR4:65331184-66331184	973	1.78E-03	9.32E-01	6.71E-05	3.52E-02	3.08E-02
Cognitive function	GP21	CHR5:91977890-92977890	654	1.60E-03	9.65E-01	3.69E-05	2.23E-02	1.08E-02
Cognitive function	GP21	CHR2:43685129-44685129	1,176	2.10E-02	9.27E-01	8.26E-04	3.65E-02	1.42E-02
Cognitive function	GP21	CHR5:139045748-140045748	464	1.28E-08	9.66E-01	2.41E-10	1.82E-02	1.62E-02
Cognitive function	GP21	CHR9:95771752-96771752	1,092	1.27E-04	9.58E-01	3.97E-06	2.99E-02	1.16E-02
Cognitive function	GP21	CHR11:133314713-134314713	983	4.84E-02	8.85E-01	2.32E-03	4.24E-02	2.20E-02
Cognitive function	GP21	CHR8:142811653-143811653	792	1.97E-05	9.39E-01	4.70E-07	2.24E-02	3.86E-02
Cognitive function	GP21	CHR22:41870991-42870991	630	3.28E-08	9.51E-01	1.22E-09	3.54E-02	1.40E-02
Cognitive function	GP21	CHR22:39329736-40329736	668	1.49E-06	6.37E-01	9.80E-08	4.15E-02	3.22E-01
Cognitive function	GP21	CHR11:95061682-96061682	1,210	4.82E-06	9.29E-01	3.17E-07	6.11E-02	1.03E-02
Cognitive function	GP21	CHR6:11008671-12008671	1,392	7.67E-05	8.83E-01	3.42E-06	3.93E-02	7.76E-02
Cognitive function	GP21	CHR4:152092933-153092933	776	1.19E-06	9.13E-01	5.55E-08	4.25E-02	4.42E-02
Cognitive function	GP21	CHR1:59040811-60040811	936	3.05E-04	9.34E-01	1.34E-05	4.12E-02	2.40E-02
Cognitive function	GP21	CHR4:67470101-68470101	889	7.89E-05	9.50E-01	2.38E-06	2.86E-02	2.13E-02
Cognitive function	GP21	CHR6:21456404-22456404	1,039	1.04E-02	9.32E-01	4.76E-04	4.27E-02	1.43E-02
Cognitive function	GP21	CHR7:133031432-134031432	895	4.22E-08	9.57E-01	1.24E-09	2.81E-02	1.53E-02
Cognitive function	GP21	CHR9:134366271-135366271	938	7.48E-03	9.02E-01	3.32E-04	4.00E-02	5.03E-02
Cognitive function	GP21	CHR19:31452890-32452890	790	2.87E-04	9.00E-01	1.02E-05	3.19E-02	6.79E-02
Cognitive function	GP21	CHR2:198429896-199429896	640	1.76E-02	9.46E-01	3.49E-04	1.87E-02	1.72E-02
Cognitive function	GP21	CHR3:11975088-12975088	873	1.51E-03	9.27E-01	6.28E-05	3.86E-02	3.27E-02
Cognitive function	GP21	CHR12:79185226-80185226	750	1.11E-08	9.16E-01	3.32E-10	2.73E-02	5.65E-02
Cognitive function	GP21	CHR16:52998655-53998655	760	1.95E-10	9.27E-01	9.37E-12	4.44E-02	2.86E-02
Cognitive function	GP21	CHR16:76024013-77024013	1,094	1.01E-01	8.30E-01	4.82E-03	3.94E-02	2.43E-02
Cognitive function	GP21	CHR5:164973194-165973194	1,001	9.75E-05	9.24E-01	6.71E-06	6.37E-02	1.20E-02
Cognitive function	GP21	CHR1:37365954-38365954	682	3.15E-02	8.60E-01	3.31E-03	9.04E-02	1.46E-02
Cognitive function	GP21	CHR6:108364419-109364419	723	1.33E-15	3.95E-01	2.00E-15	5.95E-01	9.98E-03
Cognitive function	GP21	CHR1:68927576-69927576	757	8.98E-07	9.38E-01	2.76E-08	2.88E-02	3.29E-02
Cognitive function	GP21	CHR16:61694176-62694176	894	9.39E-05	9.26E-01	5.97E-06	5.90E-02	1.46E-02
Cognitive function	GP22	CHR7:157036448-158036448	761	1.84E-04	9.56E-01	5.38E-06	2.80E-02	1.56E-02
Cognitive function	GP22	CHR14:103518455-104518455	651	7.88E-05	9.69E-01	1.55E-06	1.90E-02	1.24E-02
Cognitive function	GP22	CHR2:60213235-61213235	824	7.21E-09	9.58E-01	1.98E-10	2.63E-02	1.58E-02
Cognitive function	GP22	CHR15:51696830-52696830	708	3.55E-05	9.10E-01	1.14E-06	2.92E-02	6.07E-02
Cognitive function	GP22	CHR11:47140429-48140429	457	1.18E-04	9.79E-01	1.05E-06	8.75E-03	1.19E-02
Cognitive function	GP22	CHR12:48922094-49922094	448	1.16E-09	9.75E-01	1.40E-11	1.18E-02	1.29E-02
Cognitive function	GP22	CHR17:46590785-47590785	651	1.62E-04	9.13E-01	5.72E-06	3.21E-02	5.45E-02
Cognitive function	GP22	CHR1:216330128-217330128	1,418	2.02E-04	9.48E-01	8.02E-06	3.77E-02	1.37E-02

Cognitive function	GP22	CHR9:71610562-72610562	994	4.24E-02	8.90E-01	2.35E-03	4.93E-02	1.59E-02
Cognitive function	GP22	CHR1:43529353-44529353	772	3.84E-05	9.48E-01	1.21E-06	2.98E-02	2.25E-02
Cognitive function	GP22	CHR1:109530945-110530945	642	6.14E-08	9.63E-01	1.31E-09	2.05E-02	1.62E-02
Cognitive function	GP22	CHR3:71045170-72045170	874	7.55E-03	9.29E-01	3.09E-04	3.80E-02	2.54E-02
Cognitive function	GP22	CHR14:98170849-99170849	1,458	1.57E-03	9.23E-01	8.48E-05	4.98E-02	2.54E-02
Cognitive function	GP22	CHR15:40722487-41722487	511	3.03E-03	8.42E-01	7.05E-05	1.94E-02	1.36E-01
Cognitive function	GP22	CHR4:102688709-103688709	848	4.15E-17	9.21E-01	2.56E-18	5.69E-02	2.18E-02
Cognitive function	GP22	CHR4:10204137-11204137	1,297	1.15E-03	9.39E-01	5.26E-05	4.28E-02	1.72E-02
Cognitive function	GP22	CHR8:13502020-14502020	2,100	1.49E-04	8.74E-01	1.95E-05	1.15E-01	1.13E-02
Cognitive function	GP22	CHR4:105651843-106651843	822	5.53E-13	9.49E-01	1.98E-14	3.40E-02	1.65E-02
Cognitive function	GP22	CHR10:101412194-102412194	670	5.72E-03	9.53E-01	1.42E-04	2.36E-02	1.71E-02
Cognitive function	GP22	CHR5:100605998-101605998	1,014	2.77E-02	9.11E-01	1.09E-03	3.59E-02	2.40E-02
Cognitive function	GP22	CHR16:7157373-8157373	2,095	8.55E-04	9.04E-01	7.28E-05	7.69E-02	1.84E-02
Cognitive function	GP22	CHR3:35027409-36027409	857	1.39E-03	9.59E-01	4.14E-05	2.86E-02	1.07E-02
Cognitive function	GP22	CHR16:50450805-51450805	824	3.17E-03	9.42E-01	9.80E-05	2.90E-02	2.58E-02
Cognitive function	GP22	CHR19:12030177-13030177	417	8.77E-05	9.24E-01	4.99E-06	5.26E-02	2.32E-02
Cognitive function	GP22	CHR2:57448003-58448003	968	4.57E-03	9.19E-01	3.01E-04	6.04E-02	1.57E-02
Cognitive function	GP22	CHR14:69216957-70216957	770	8.15E-03	9.49E-01	2.28E-04	2.66E-02	1.65E-02
Cognitive function	GP22	CHR2:32236043-33236043	575	1.44E-02	9.36E-01	5.31E-04	3.46E-02	1.46E-02
Cognitive function	GP22	CHR1:41281151-42281151	947	1.10E-10	9.53E-01	4.04E-12	3.49E-02	1.25E-02
Cognitive function	GP22	CHR6:98050289-99050289	793	1.37E-20	9.63E-01	3.89E-22	2.73E-02	1.02E-02
Cognitive function	GP22	CHR1:21930069-22930069	924	7.45E-03	9.15E-01	2.62E-04	3.21E-02	4.51E-02
Cognitive function	GP22	CHR14:26677910-27677910	973	1.46E-03	9.29E-01	5.60E-05	3.56E-02	3.42E-02
Cognitive function	GP22	CHR14:32792743-33792743	1,306	8.19E-07	9.38E-01	4.30E-08	4.92E-02	1.28E-02
Cognitive function	GP22	CHR4:2217690-3217690	635	1.12E-04	9.68E-01	1.92E-06	1.66E-02	1.53E-02
Cognitive function	GP22	CHR3:49390613-50390613	355	1.97E-22	9.59E-01	1.58E-24	7.65E-03	3.36E-02
Cognitive function	GP22	CHR9:111375463-112375463	1,491	2.52E-02	9.14E-01	1.34E-03	4.85E-02	1.11E-02
Cognitive function	GP22	CHR16:51077196-52077196	966	1.08E-02	8.33E-01	9.82E-04	7.59E-02	7.95E-02
Cognitive function	GP22	CHR8:145244429-146244429	295	6.30E-03	9.70E-01	6.55E-05	1.01E-02	1.35E-02
Cognitive function	GP22	CHR8:30513470-31513470	848	2.15E-04	9.61E-01	6.27E-06	2.80E-02	1.08E-02
Cognitive function	GP22	CHR16:12656649-13656649	1,454	4.18E-02	8.88E-01	2.31E-03	4.91E-02	1.84E-02
Cognitive function	GP22	CHR10:129613462-130613462	1,268	7.32E-02	8.63E-01	4.07E-03	4.80E-02	1.18E-02
Cognitive function	GP22	CHR21:40016070-41016070	1,171	6.41E-03	9.37E-01	2.25E-04	3.29E-02	2.31E-02
Cognitive function	GP22	CHR8:141045193-142045193	683	6.63E-03	9.62E-01	1.17E-04	1.70E-02	1.43E-02
Cognitive function	GP22	CHR1:72249848-73249848	888	2.51E-15	9.48E-01	7.87E-17	2.97E-02	2.25E-02
Cognitive function	GP22	CHR7:44300176-45300176	792	1.60E-06	9.55E-01	4.46E-08	2.67E-02	1.83E-02
Cognitive function	GP22	CHR10:103065960-104065960	411	2.01E-11	8.94E-01	2.14E-12	9.55E-02	1.05E-02
Cognitive function	GP22	CHR4:65331184-66331184	973	1.81E-03	9.50E-01	6.19E-05	3.25E-02	1.55E-02
Cognitive function	GP22	CHR5:91977890-92977890	654	1.57E-03	9.48E-01	3.45E-05	2.08E-02	2.92E-02
Cognitive function	GP22	CHR2:43685129-44685129	1,176	2.09E-02	9.23E-01	8.92E-04	3.94E-02	1.61E-02
Cognitive function	GP22	CHR5:139045748-140045748	464	1.29E-08	9.72E-01	1.92E-10	1.45E-02	1.33E-02
Cognitive function	GP22	CHR9:95771752-96771752	1,092	1.28E-04	9.65E-01	3.21E-06	2.41E-02	1.10E-02
Cognitive function	GP22	CHR11:133314713-134314713	983	4.88E-02	8.93E-01	1.87E-03	3.42E-02	2.19E-02
Cognitive function	GP22	CHR8:142811653-143811653	792	2.02E-05	9.65E-01	4.30E-07	2.05E-02	1.49E-02
Cognitive function	GP22	CHR22:41870991-42870991	630	3.22E-08	9.34E-01	1.69E-09	4.91E-02	1.74E-02
Cognitive function	GP22	CHR22:39329736-40329736	668	2.16E-06	9.23E-01	6.42E-08	2.73E-02	4.92E-02
Cognitive function	GP22	CHR11:95061682-96061682	1,210	4.76E-06	9.17E-01	2.69E-07	5.19E-02	3.10E-02
Cognitive function	GP22	CHR6:11008671-12008671	1,392	8.16E-05	9.40E-01	3.98E-06	4.58E-02	1.42E-02
Cognitive function	GP22	CHR4:152092933-153092933	776	1.22E-06	9.36E-01	6.36E-08	4.88E-02	1.50E-02

Cognitive function	GP22	CHR1:59040811-60040811	936	3.07E-04	9.43E-01	1.40E-05	4.29E-02	1.35E-02
Cognitive function	GP22	CHR4:67470101-68470101	889	7.93E-05	9.55E-01	2.52E-06	3.03E-02	1.47E-02
Cognitive function	GP22	CHR6:21456404-22456404	1,039	1.04E-02	9.33E-01	4.97E-04	4.46E-02	1.14E-02
Cognitive function	GP22	CHR7:133031432-134031432	895	4.17E-08	9.46E-01	1.69E-09	3.82E-02	1.58E-02
Cognitive function	GP22	CHR9:134366271-135366271	938	7.61E-03	9.18E-01	4.61E-04	5.56E-02	1.83E-02
Cognitive function	GP22	CHR19:31452890-32452890	790	3.00E-04	9.38E-01	1.09E-05	3.42E-02	2.75E-02
Cognitive function	GP22	CHR2:198429896-199429896	640	1.77E-02	9.48E-01	3.63E-04	1.95E-02	1.41E-02
Cognitive function	GP22	CHR3:11975088-12975088	873	1.53E-03	9.44E-01	4.97E-05	3.05E-02	2.41E-02
Cognitive function	GP22	CHR12:79185226-80185226	750	1.13E-08	9.33E-01	3.84E-10	3.17E-02	3.57E-02
Cognitive function	GP22	CHR16:52998655-53998655	760	2.01E-10	9.54E-01	7.39E-12	3.50E-02	1.14E-02
Cognitive function	GP22	CHR16:76024013-77024013	1,094	6.40E-02	5.24E-01	4.36E-02	3.57E-01	1.22E-02
Cognitive function	GP22	CHR5:164973194-165973194	1,001	1.01E-04	9.54E-01	3.43E-06	3.25E-02	1.34E-02
Cognitive function	GP22	CHR1:37365954-38365954	682	3.38E-02	9.24E-01	8.53E-04	2.33E-02	1.86E-02
Cognitive function	GP22	CHR6:108364419-109364419	723	3.19E-15	9.46E-01	1.19E-16	3.52E-02	1.86E-02
Cognitive function	GP22	CHR1:68927576-69927576	757	9.00E-07	9.41E-01	3.52E-08	3.68E-02	2.26E-02
Cognitive function	GP22	CHR16:61694176-62694176	894	9.30E-05	9.18E-01	5.86E-06	5.78E-02	2.39E-02
Cognitive function	GP23	CHR7:157036448-158036448	761	1.60E-04	8.33E-01	6.40E-06	3.32E-02	1.34E-01
Cognitive function	GP23	CHR14:103518455-104518455	651	7.83E-05	9.62E-01	1.65E-06	2.03E-02	1.77E-02
Cognitive function	GP23	CHR2:60213235-61213235	824	7.10E-09	9.44E-01	3.27E-10	4.34E-02	1.27E-02
Cognitive function	GP23	CHR15:51696830-52696830	708	3.69E-05	9.47E-01	9.58E-07	2.45E-02	2.87E-02
Cognitive function	GP23	CHR11:47140429-48140429	457	1.17E-04	9.72E-01	1.67E-06	1.39E-02	1.38E-02
Cognitive function	GP23	CHR12:48922094-49922094	448	1.15E-09	9.68E-01	1.59E-11	1.34E-02	1.91E-02
Cognitive function	GP23	CHR17:46590785-47590785	651	1.51E-04	8.52E-01	6.64E-06	3.73E-02	1.11E-01
Cognitive function	GP23	CHR1:216330128-217330128	1,418	1.97E-04	9.26E-01	1.23E-05	5.78E-02	1.60E-02
Cognitive function	GP23	CHR9:71610562-72610562	994	4.07E-02	8.55E-01	4.16E-03	8.72E-02	1.30E-02
Cognitive function	GP23	CHR1:43529353-44529353	772	3.90E-05	9.62E-01	8.75E-07	2.16E-02	1.60E-02
Cognitive function	GP23	CHR1:109530945-110530945	642	6.15E-08	9.65E-01	1.32E-09	2.07E-02	1.42E-02
Cognitive function	GP23	CHR3:71045170-72045170	874	7.47E-03	9.19E-01	4.94E-04	6.07E-02	1.24E-02
Cognitive function	GP23	CHR14:98170849-99170849	1,458	1.50E-03	8.81E-01	1.80E-04	1.05E-01	1.23E-02
Cognitive function	GP23	CHR15:40722487-41722487	511	3.27E-03	9.06E-01	7.60E-05	2.10E-02	6.98E-02
Cognitive function	GP23	CHR4:102688709-103688709	848	4.27E-17	9.49E-01	1.41E-18	3.12E-02	1.95E-02
Cognitive function	GP23	CHR4:10204137-11204137	1,297	1.16E-03	9.41E-01	4.33E-05	3.52E-02	2.25E-02
Cognitive function	GP23	CHR8:13502020-14502020	2,100	1.51E-04	8.90E-01	1.47E-05	8.65E-02	2.33E-02
Cognitive function	GP23	CHR4:105651843-106651843	822	5.61E-13	9.63E-01	1.38E-14	2.36E-02	1.29E-02
Cognitive function	GP23	CHR10:101412194-102412194	670	5.76E-03	9.59E-01	1.28E-04	2.12E-02	1.35E-02
Cognitive function	GP23	CHR5:100605998-101605998	1,014	2.76E-02	9.07E-01	1.49E-03	4.92E-02	1.47E-02
Cognitive function	GP23	CHR16:7157373-8157373	2,095	8.55E-04	9.04E-01	6.76E-05	7.14E-02	2.32E-02
Cognitive function	GP23	CHR3:35027409-36027409	857	1.34E-03	9.24E-01	8.47E-05	5.84E-02	1.58E-02
Cognitive function	GP23	CHR16:50450805-51450805	824	3.15E-03	9.35E-01	8.80E-05	2.61E-02	3.56E-02
Cognitive function	GP23	CHR19:12030177-13030177	417	8.92E-05	9.40E-01	1.25E-06	1.31E-02	4.72E-02
Cognitive function	GP23	CHR2:57448003-58448003	968	4.76E-03	9.56E-01	1.12E-04	2.25E-02	1.62E-02
Cognitive function	GP23	CHR14:69216957-70216957	770	8.11E-03	9.44E-01	1.82E-04	2.11E-02	2.64E-02
Cognitive function	GP23	CHR2:32236043-33236043	575	1.46E-02	9.49E-01	3.57E-04	2.33E-02	1.25E-02
Cognitive function	GP23	CHR1:41281151-42281151	947	1.10E-10	9.47E-01	4.60E-12	3.97E-02	1.37E-02
Cognitive function	GP23	CHR6:98050289-99050289	793	1.35E-20	9.47E-01	5.08E-22	3.56E-02	1.70E-02
Cognitive function	GP23	CHR1:21930069-22930069	924	7.66E-03	9.41E-01	2.68E-04	3.29E-02	1.81E-02
Cognitive function	GP23	CHR14:26677910-27677910	973	1.41E-03	8.98E-01	7.94E-05	5.04E-02	5.01E-02
Cognitive function	GP23	CHR14:32792743-33792743	1,306	8.16E-07	9.35E-01	4.43E-08	5.07E-02	1.45E-02
Cognitive function	GP23	CHR4:2217690-3217690	635	1.11E-04	9.61E-01	2.39E-06	2.06E-02	1.79E-02

Cognitive function	GP23	CHR3:49390613-50390613	355	1.99E-22	9.67E-01	1.56E-24	7.55E-03	2.59E-02
Cognitive function	GP23	CHR9:111375463-112375463	1,491	2.40E-02	8.71E-01	2.53E-03	9.19E-02	1.09E-02
Cognitive function	GP23	CHR16:51077196-52077196	966	1.16E-02	8.99E-01	3.54E-04	2.73E-02	6.18E-02
Cognitive function	GP23	CHR8:145244429-146244429	295	6.27E-03	9.66E-01	8.60E-05	1.32E-02	1.41E-02
Cognitive function	GP23	CHR8:30513470-31513470	848	2.15E-04	9.60E-01	6.43E-06	2.87E-02	1.13E-02
Cognitive function	GP23	CHR16:12656649-13656649	1,454	4.18E-02	8.89E-01	2.32E-03	4.94E-02	1.72E-02
Cognitive function	GP23	CHR10:129613462-130613462	1,268	7.18E-02	8.46E-01	4.57E-03	5.38E-02	2.35E-02
Cognitive function	GP23	CHR21:40016070-41016070	1,171	5.95E-03	8.70E-01	3.62E-04	5.29E-02	7.09E-02
Cognitive function	GP23	CHR8:141045193-142045193	683	6.60E-03	9.58E-01	1.34E-04	1.94E-02	1.57E-02
Cognitive function	GP23	CHR1:72249848-73249848	888	2.53E-15	9.53E-01	7.43E-17	2.80E-02	1.89E-02
Cognitive function	GP23	CHR7:44300176-45300176	792	1.60E-06	9.54E-01	4.38E-08	2.62E-02	1.95E-02
Cognitive function	GP23	CHR10:103065960-104065960	411	2.18E-11	9.70E-01	4.07E-13	1.81E-02	1.17E-02
Cognitive function	GP23	CHR4:65331184-66331184	973	1.79E-03	9.41E-01	6.73E-05	3.53E-02	2.20E-02
Cognitive function	GP23	CHR5:91977890-92977890	654	1.59E-03	9.57E-01	4.10E-05	2.47E-02	1.64E-02
Cognitive function	GP23	CHR2:43685129-44685129	1,176	2.07E-02	9.15E-01	9.28E-04	4.10E-02	2.20E-02
Cognitive function	GP23	CHR5:139045748-140045748	464	1.27E-08	9.59E-01	3.55E-10	2.68E-02	1.47E-02
Cognitive function	GP23	CHR9:95771752-96771752	1,092	1.23E-04	9.27E-01	7.43E-06	5.59E-02	1.69E-02
Cognitive function	GP23	CHR11:133314713-134314713	983	4.80E-02	8.78E-01	2.11E-03	3.86E-02	3.36E-02
Cognitive function	GP23	CHR8:142811653-143811653	792	2.02E-05	9.63E-01	4.57E-07	2.18E-02	1.54E-02
Cognitive function	GP23	CHR22:41870991-42870991	630	2.83E-08	8.23E-01	4.47E-09	1.30E-01	4.76E-02
Cognitive function	GP23	CHR22:39329736-40329736	668	1.51E-23	6.43E-18	4.10E-08	1.65E-02	9.83E-01
Cognitive function	GP23	CHR11:95061682-96061682	1,210	4.87E-06	9.38E-01	2.62E-07	5.05E-02	1.11E-02
Cognitive function	GP23	CHR6:11008671-12008671	1,392	8.12E-05	9.35E-01	3.77E-06	4.34E-02	2.11E-02
Cognitive function	GP23	CHR4:152092933-153092933	776	1.23E-06	9.43E-01	4.05E-08	3.10E-02	2.58E-02
Cognitive function	GP23	CHR1:59040811-60040811	936	3.08E-04	9.45E-01	1.35E-05	4.14E-02	1.34E-02
Cognitive function	GP23	CHR4:67470101-68470101	889	7.91E-05	9.53E-01	2.84E-06	3.42E-02	1.25E-02
Cognitive function	GP23	CHR6:21456404-22456404	1,039	1.03E-02	9.21E-01	5.40E-04	4.85E-02	2.02E-02
Cognitive function	GP23	CHR7:133031432-134031432	895	4.23E-08	9.60E-01	1.24E-09	2.81E-02	1.19E-02
Cognitive function	GP23	CHR9:134366271-135366271	938	7.57E-03	9.13E-01	4.28E-04	5.16E-02	2.74E-02
Cognitive function	GP23	CHR19:31452890-32452890	790	3.02E-04	9.44E-01	8.93E-06	2.79E-02	2.78E-02
Cognitive function	GP23	CHR2:198429896-199429896	640	1.62E-02	8.70E-01	1.78E-03	9.56E-02	1.62E-02
Cognitive function	GP23	CHR3:11975088-12975088	873	1.55E-03	9.54E-01	4.10E-05	2.52E-02	1.88E-02
Cognitive function	GP23	CHR12:79185226-80185226	750	1.16E-08	9.60E-01	3.57E-10	2.95E-02	1.09E-02
Cognitive function	GP23	CHR16:52998655-53998655	760	2.00E-10	9.48E-01	7.10E-12	3.36E-02	1.87E-02
Cognitive function	GP23	CHR16:76024013-77024013	1,094	1.03E-01	8.44E-01	4.03E-03	3.29E-02	1.58E-02
Cognitive function	GP23	CHR5:164973194-165973194	1,001	9.92E-05	9.41E-01	4.23E-06	4.01E-02	1.90E-02
Cognitive function	GP23	CHR1:37365954-38365954	682	3.32E-02	9.08E-01	1.61E-03	4.39E-02	1.34E-02
Cognitive function	GP23	CHR6:108364419-109364419	723	3.21E-15	9.52E-01	8.48E-17	2.51E-02	2.31E-02
Cognitive function	GP23	CHR1:68927576-69927576	757	8.97E-07	9.37E-01	3.50E-08	3.66E-02	2.63E-02
Cognitive function	GP23	CHR16:61694176-62694176	894	9.21E-05	9.09E-01	4.42E-06	4.36E-02	4.77E-02
Cognitive function	GP24	CHR7:157036448-158036448	761	1.45E-04	7.54E-01	5.64E-06	2.91E-02	2.17E-01
Cognitive function	GP24	CHR14:103518455-104518455	651	7.69E-05	9.45E-01	3.41E-06	4.19E-02	1.27E-02
Cognitive function	GP24	CHR2:60213235-61213235	824	6.77E-09	9.00E-01	6.53E-10	8.68E-02	1.30E-02
Cognitive function	GP24	CHR15:51696830-52696830	708	3.71E-05	9.51E-01	8.26E-07	2.11E-02	2.75E-02
Cognitive function	GP24	CHR11:47140429-48140429	457	1.06E-04	8.83E-01	2.37E-06	1.96E-02	9.71E-02
Cognitive function	GP24	CHR12:48922094-49922094	448	1.15E-09	9.70E-01	1.91E-11	1.60E-02	1.38E-02
Cognitive function	GP24	CHR17:46590785-47590785	651	1.69E-04	9.53E-01	4.10E-06	2.31E-02	2.39E-02
Cognitive function	GP24	CHR1:216330128-217330128	1,418	2.00E-04	9.39E-01	9.97E-06	4.69E-02	1.43E-02
Cognitive function	GP24	CHR9:71610562-72610562	994	4.17E-02	8.76E-01	2.67E-03	5.59E-02	2.36E-02

Cognitive function	GP24	CHR1:43529353-44529353	772	3.88E-05	9.56E-01	8.82E-07	2.17E-02	2.23E-02
Cognitive function	GP24	CHR1:109530945-110530945	642	6.10E-08	9.58E-01	1.52E-09	2.38E-02	1.80E-02
Cognitive function	GP24	CHR3:71045170-72045170	874	6.13E-03	7.53E-01	1.74E-03	2.13E-01	2.56E-02
Cognitive function	GP24	CHR14:98170849-99170849	1,458	1.59E-03	9.35E-01	7.94E-05	4.67E-02	1.70E-02
Cognitive function	GP24	CHR15:40722487-41722487	511	3.42E-03	9.49E-01	7.21E-05	2.00E-02	2.72E-02
Cognitive function	GP24	CHR4:102688709-103688709	848	4.25E-17	9.44E-01	1.23E-18	2.73E-02	2.89E-02
Cognitive function	GP24	CHR4:10204137-11204137	1,297	1.12E-03	9.11E-01	7.75E-05	6.30E-02	2.50E-02
Cognitive function	GP24	CHR8:13502020-14502020	2,100	1.53E-04	8.98E-01	1.54E-05	9.07E-02	1.07E-02
Cognitive function	GP24	CHR4:105651843-106651843	822	5.30E-13	9.10E-01	3.96E-14	6.79E-02	2.23E-02
Cognitive function	GP24	CHR10:101412194-102412194	670	5.78E-03	9.63E-01	1.21E-04	2.02E-02	1.08E-02
Cognitive function	GP24	CHR5:100605998-101605998	1,014	2.76E-02	9.08E-01	1.52E-03	5.02E-02	1.29E-02
Cognitive function	GP24	CHR16:7157373-8157373	2,095	8.39E-04	8.87E-01	7.95E-05	8.40E-02	2.85E-02
Cognitive function	GP24	CHR3:35027409-36027409	857	1.34E-03	9.26E-01	7.51E-05	5.18E-02	2.12E-02
Cognitive function	GP24	CHR16:50450805-51450805	824	3.08E-03	9.14E-01	1.76E-04	5.22E-02	3.03E-02
Cognitive function	GP24	CHR19:12030177-13030177	417	7.87E-05	8.29E-01	1.92E-06	2.01E-02	1.51E-01
Cognitive function	GP24	CHR2:57448003-58448003	968	4.72E-03	9.48E-01	1.51E-04	3.03E-02	1.68E-02
Cognitive function	GP24	CHR14:69216957-70216957	770	8.14E-03	9.47E-01	2.16E-04	2.51E-02	1.90E-02
Cognitive function	GP24	CHR2:32236043-33236043	575	1.46E-02	9.53E-01	2.68E-04	1.74E-02	1.42E-02
Cognitive function	GP24	CHR1:41281151-42281151	947	1.11E-10	9.58E-01	3.43E-12	2.96E-02	1.27E-02
Cognitive function	GP24	CHR6:98050289-99050289	793	1.38E-20	9.64E-01	3.39E-22	2.38E-02	1.21E-02
Cognitive function	GP24	CHR1:21930069-22930069	924	7.18E-03	8.82E-01	7.42E-04	9.11E-02	1.91E-02
Cognitive function	GP24	CHR14:26677910-27677910	973	1.42E-03	9.02E-01	5.65E-05	3.59E-02	6.02E-02
Cognitive function	GP24	CHR14:32792743-33792743	1,306	8.05E-07	9.23E-01	5.06E-08	5.80E-02	1.91E-02
Cognitive function	GP24	CHR4:2217690-3217690	635	1.12E-04	9.65E-01	2.66E-06	2.30E-02	1.15E-02
Cognitive function	GP24	CHR3:49390613-50390613	355	2.01E-22	9.77E-01	1.36E-24	6.59E-03	1.62E-02
Cognitive function	GP24	CHR9:111375463-112375463	1,491	2.49E-02	9.02E-01	1.65E-03	6.00E-02	1.11E-02
Cognitive function	GP24	CHR16:51077196-52077196	966	1.12E-02	8.62E-01	6.80E-04	5.25E-02	7.34E-02
Cognitive function	GP24	CHR8:145244429-146244429	295	6.19E-03	9.54E-01	1.63E-04	2.51E-02	1.48E-02
Cognitive function	GP24	CHR8:30513470-31513470	848	2.14E-04	9.57E-01	6.57E-06	2.94E-02	1.39E-02
Cognitive function	GP24	CHR16:12656649-13656649	1,454	4.01E-02	8.53E-01	3.27E-03	6.95E-02	3.40E-02
Cognitive function	GP24	CHR10:129613462-130613462	1,268	7.09E-02	8.36E-01	6.02E-03	7.10E-02	1.61E-02
Cognitive function	GP24	CHR21:40016070-41016070	1,171	5.87E-03	8.58E-01	5.46E-04	7.99E-02	5.56E-02
Cognitive function	GP24	CHR8:141045193-142045193	683	6.36E-03	9.23E-01	3.86E-04	5.61E-02	1.42E-02
Cognitive function	GP24	CHR1:72249848-73249848	888	2.54E-15	9.60E-01	6.88E-17	2.60E-02	1.41E-02
Cognitive function	GP24	CHR7:44300176-45300176	792	1.61E-06	9.63E-01	3.53E-08	2.11E-02	1.63E-02
Cognitive function	GP24	CHR10:103065960-104065960	411	2.17E-11	9.64E-01	4.13E-13	1.84E-02	1.77E-02
Cognitive function	GP24	CHR4:65331184-66331184	973	1.80E-03	9.46E-01	6.46E-05	3.39E-02	1.85E-02
Cognitive function	GP24	CHR5:91977890-92977890	654	1.60E-03	9.65E-01	3.29E-05	1.98E-02	1.39E-02
Cognitive function	GP24	CHR2:43685129-44685129	1,176	2.08E-02	9.22E-01	8.34E-04	3.69E-02	1.98E-02
Cognitive function	GP24	CHR5:139045748-140045748	464	1.28E-08	9.64E-01	2.93E-10	2.21E-02	1.42E-02
Cognitive function	GP24	CHR9:95771752-96771752	1,092	1.24E-04	9.36E-01	6.93E-06	5.21E-02	1.21E-02
Cognitive function	GP24	CHR11:133314713-134314713	983	4.86E-02	8.90E-01	2.06E-03	3.76E-02	2.18E-02
Cognitive function	GP24	CHR8:142811653-143811653	792	2.01E-05	9.59E-01	5.38E-07	2.57E-02	1.54E-02
Cognitive function	GP24	CHR22:41870991-42870991	630	3.30E-08	9.56E-01	7.35E-10	2.13E-02	2.24E-02
Cognitive function	GP24	CHR22:39329736-40329736	668	3.57E-10	1.53E-04	4.99E-08	2.03E-02	9.80E-01
Cognitive function	GP24	CHR11:95061682-96061682	1,210	4.81E-06	9.28E-01	2.13E-07	4.11E-02	3.12E-02
Cognitive function	GP24	CHR6:11008671-12008671	1,392	8.26E-05	9.51E-01	3.11E-06	3.59E-02	1.32E-02
Cognitive function	GP24	CHR4:152092933-153092933	776	1.26E-06	9.66E-01	2.94E-08	2.26E-02	1.16E-02
Cognitive function	GP24	CHR1:59040811-60040811	936	3.09E-04	9.50E-01	1.16E-05	3.54E-02	1.47E-02

Cognitive function	GP24	CHR4:67470101-68470101	889	7.97E-05	9.59E-01	1.93E-06	2.32E-02	1.73E-02
Cognitive function	GP24	CHR6:21456404-22456404	1,039	1.02E-02	9.19E-01	6.63E-04	5.95E-02	1.08E-02
Cognitive function	GP24	CHR7:133031432-134031432	895	4.25E-08	9.63E-01	1.12E-09	2.54E-02	1.14E-02
Cognitive function	GP24	CHR9:134366271-135366271	938	7.55E-03	9.11E-01	3.67E-04	4.42E-02	3.72E-02
Cognitive function	GP24	CHR19:31452890-32452890	790	3.00E-04	9.39E-01	1.20E-05	3.76E-02	2.28E-02
Cognitive function	GP24	CHR2:198429896-199429896	640	1.75E-02	9.43E-01	4.89E-04	2.62E-02	1.31E-02
Cognitive function	GP24	CHR3:11975088-12975088	873	1.54E-03	9.49E-01	5.25E-05	3.23E-02	1.66E-02
Cognitive function	GP24	CHR12:79185226-80185226	750	1.17E-08	9.64E-01	3.01E-10	2.48E-02	1.13E-02
Cognitive function	GP24	CHR16:52998655-53998655	760	2.02E-10	9.58E-01	6.34E-12	3.01E-02	1.15E-02
Cognitive function	GP24	CHR16:76024013-77024013	1,094	1.02E-01	8.34E-01	4.27E-03	3.49E-02	2.45E-02
Cognitive function	GP24	CHR5:164973194-165973194	1,001	9.87E-05	9.36E-01	5.37E-06	5.09E-02	1.26E-02
Cognitive function	GP24	CHR1:37365954-38365954	682	3.39E-02	9.27E-01	8.58E-04	2.34E-02	1.46E-02
Cognitive function	GP24	CHR6:108364419-109364419	723	3.23E-15	9.59E-01	8.02E-17	2.38E-02	1.70E-02
Cognitive function	GP24	CHR1:68927576-69927576	757	9.10E-07	9.51E-01	2.68E-08	2.80E-02	2.14E-02
Cognitive function	GP24	CHR16:61694176-62694176	894	9.44E-05	9.31E-01	3.24E-06	3.19E-02	3.65E-02

Note. Evidence for colocalization was assessed using the PP for hypothesis 4 (PPH4 > 95%). CHR: chromosome; GP: Glycan peak; IgG: Immunoglobulin G; PP, posterior probability; SNPs, single nucleotide polymorphisms.

Supplementary Table S4. Colocalization analysis for the associations between genes with IgG N-glycan

IgG N-glycan	Genes	mRNA ID	Region	SNPs (*n*)	PP.H_0	PP.H_1	PP.H_2	PP.H_3	PP.H_4
GP7									
	FUT8	ENSG00000033170	CHR14:65360092-66360092	804	0.00E+00	3.26E-44	7.60E-304	1.00E+00	7.83E-31
	FUT8	ENSG00000033170	CHR14:65153895-66153895	943	0.00E+00	3.26E-44	7.60E-304	1.00E+00	7.83E-31
	PIK3C2B	ENSG00000133056	CHR17:37551348-38551348	23	6.40E-16	3.72E-11	1.69E-07	8.84E-03	**9.91E-01**
	RGS9	ENSG00000108370	CHR17:37476469-38476469	23	2.45E-14	4.82E-11	6.49E-06	1.18E-02	**9.88E-01**
	None	ENSG00000264198	CHR17:37574518-38574518	402	1.18E-76	4.95E-11	1.17E-67	4.82E-02	**9.52E-01**
	SETBP1	ENSG00000152217	CHR17:37574031-38574031	23	5.27E-13	4.75E-11	1.39E-04	1.16E-02	**9.88E-01**
	SPRY1	ENSG00000164056	CHR17:37574031-38574031	23	2.77E-13	4.84E-11	7.31E-05	1.18E-02	**9.88E-01**
	TPRG1L	ENSG00000158109	CHR17:37621993-38621993	24	9.28E-12	7.04E-10	2.45E-03	1.85E-01	8.12E-01
	STARD3	ENSG00000131748	CHR17:37328496-38328496	432	7.79E-39	1.01E-09	7.73E-30	1.00E+00	6.44E-07
GP12									
	FUT8	ENSG00000033170	CHR14:65360092-66360092	804	0.00E+00	6.35E-34	7.60E-304	1.00E+00	1.42E-25
	FUT8	ENSG00000033170	CHR14:65153895-66153895	943	0.00E+00	6.35E-34	7.60E-304	1.00E+00	1.42E-25
	RGS9	ENSG00000108370	CHR17:37476469-38476469	23	3.85E-09	7.56E-06	3.64E-06	6.16E-03	**9.94E-01**
	PIK3C2B	ENSG00000133056	CHR17:37551348-38551348	23	1.27E-10	7.40E-06	1.21E-07	6.02E-03	**9.94E-01**
	None	ENSG00000264198	CHR17:37574518-38574518	402	2.22E-71	9.30E-06	8.17E-68	3.33E-02	**9.67E-01**
	SETBP1	ENSG00000152217	CHR17:37574031-38574031	23	1.67E-07	1.51E-05	1.58E-04	1.33E-02	**9.87E-01**
	SPRY1	ENSG00000164056	CHR17:37574031-38574031	23	5.39E-08	9.45E-06	5.11E-05	7.95E-03	**9.92E-01**
	LINC01341	ENSG00000227953	CHR1:246447793-247447793	761	5.41E-69	9.23E-04	1.88E-68	2.21E-03	**9.97E-01**

GP19									
	MRPS18A	ENSG00000096080	CHR6:43224356-44224356	642	5.69E-02	8.37E-01	1.48E-03	2.16E-02	8.30E-02
	HLA-S	ENSG00000225851	CHR6:30605310-31605310	315	1.00E-89	4.11E-01	9.89E-90	4.05E-01	1.84E-01
	HLA-S	ENSG00000225851	CHR6:30827435-31827435	349	8.54E-90	3.50E-01	1.20E-89	4.93E-01	1.57E-01

Note. Evidence for colocalization was assessed using the PP for hypothesis 4 (PPH4 > 95%). CHR: chromosome; GP: Glycan peak; IgG: Immunoglobulin G; PP, posterior probability; SNPs, single nucleotide polymorphisms.

Supplementary Table S5. MR analysis identified IgG N-glycan: GP7-associated genes

			IVW/WR			WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
Genes	**mRNA ID**	**SNPs (*n*)**	***β* (95% *CI*)**	***P***	***P* (Q statistics)**	***β* (95% *CI*)**	***P***	***β* (95% *CI*)**	***P***	***β* (95% *CI*)**	***P***	***P* (intercept)**	***β* (95% *CI*)**	***P***	***P* (Global test)**	***β* (95% *CI*)**	***P***
FUT8	ENSG00000033170	2	–0.334 (–0.409, –0.260)	2.07 E-18	0.502	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.716 (0.663–0.773)	0.00E+00
PIK3C2B	ENSG00000133056	1	–1.624 (–2.040, –1.204)	2.99 E-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RGS9	ENSG00000108370	1	–1.754 (–2.207, –1.298)	5.11 E-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000264198	1	0.607 (0.448, 0.766)	7.78 E-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SETBP1	ENSG00000152217	1	–1.931 (–2.442, –1.423)	1.23 E-13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPRY1	ENSG00000164056	1	–1.884 (–2.386, –1.386)	1.23 E-13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPRG1L	ENSG00000158109	1	1.338 (0.840, 1.835)	1.36 E-07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STARD3	ENSG00000131748	1	–0.535 (–0.761, –0.308)	3.91 E-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELL2	ENSG00000118985	1	–0.477 (–0.695, –0.259)	1.75 E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PNMT	ENSG00000141744	1	–1.115 (–1.666, –0.565)	7.08 E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000229052	1	0.765 (0.386, 1.144)	7.71 E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
USP3	ENSG00000140455	2	0.543 (0.253, 0.835)	2.49 E-04	0.950	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.543 (0.224, 0.863)	8.57E-04
TPTEP1	ENSG00000100181	3	–0.397 (–0.616, –0.179)	3.65 E-04	0.768	–0.392 (–0.616, –0.166)	6.68 E-04	–0.392 (–0.620, –0.163)	8.08 E-04	–0.420 (–1.013, 0.172)	3.97 E-01	0.950	N/A	N/A	N/A	–0.399 (–0.622, –0.176)	4.67E-04
CPNE4	ENSG00000196353	1	–0.594 (–0.924, –0.264)	4.20 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000228037	1	–0.521 (–0.812, –0.231)	4.38 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRAV1-2	ENSG00000256553	1	–0.835 (–1.302,	4.53 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

		IVW/WR			WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
Genes	**mRNA ID**	**SNPs (*n*)**	***β* (95% *CI*)**	***P***	***P* (Q statistics)**	***β* (95% *CI*)**	***P***	***β* (95% *CI*)**	***P***	***β* (95% *CI*)**	***P***	***P* (intercept)**	***β* (95% *CI*)**	***P***	***P* (Global test)**	***β* (95% *CI*)**	***P***
CD40LG	ENSG00000102245	1	–0.368) 0.852 (0.365, 1.339)	6.01 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MFHAS1	ENSG00000147324	1	0.197 (0.084, 0.310)	6.46 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DDX39BP2	ENSG00000238024	2	0.529 (0.223, 0.834)	7.02 E-04	0.919	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.528 (0.206, 0.851)	1.32E-03
PGAP3	ENSG00000161395	2	–0.182 (–0.288, –0.077)	7.13 E-04	0.325	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.183 (–0.289, –0.076)	7.57E-04
None	ENSG00000172653	1	–0.375 (–0.592, –0.157)	7.42 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BBS12	ENSG00000181004	1	0.212 (0.089, 0.335)	7.45 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000262115	1	–0.307 (–0.486, –0.128)	7.92 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LINC01341	ENSG00000227953	1	–0.265 (–0.423, –0.109)	9.24 E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. The above results were presented with $P < 0.001$. CI: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.

Supplementary Table S6. MR analysis identified IgG N-glycan: GP12-associated genes

Genes	mRNA ID	SNPs (*n*)	*β* (95% *CI*)	*P*	*P* (Q statistics)	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% CI)	*P*	*P* (Global test)	*β* (95% *CI*)
FUT8	ENSG00000033170	2	–0.282 (–0.357, –0.207)	1.49E-13	0.592	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.282 (–0.359, –0.206)
RGS9	ENSG00000108370	1	–1.343 (–1.795, –0.885)	8.62E-09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PIK3C2B	ENSG00000133056	1	–1.228 (–1.645, –0.810)	8.92E-09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000264198	1	0.452 (0.293, 0.612)	2.51E-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SETBP1	ENSG00000152217	1	–1.452 (–1.966, –0.941)	2.56E-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPRY1	ENSG00000164056	1	–1.414 (–1.917, –0.919)	2.56E-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LINC01341	ENSG00000227953	1	–0.389 (–0.546, –0.231)	1.42E-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SHROOM1	ENSG00000164403	1	–1.035 (–1.514, –0.559)	2.18E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000260855	1	–0.308 (–0.451, –0.166)	2.25E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPRG1L	ENSG00000158109	1	1.045 (0.547, 1.542)	3.83E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RORC	ENSG00000143365	5	–0.352 (–0.523, –0.183)	4.62E-05	0.379	–0.367 (–0.576, –0.157)	6.00E-04	–0.367 (–0.571, –0.161)	4.67E-04	–0.347 (–0.891, 0.197)	3.00E-01	0.984	–0.352 (–0.523, –0.183)	1.52E-02	0.511	–0.358 (–0.531, –0.184)
ST6GAL1	ENSG00000073849	1	–0.389 (–0.578, –0.201)	5.29E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELL2	ENSG00000118985	1	–0.431 (–0.650, –0.212)	1.13E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EFCAB13	ENSG00000178852	1	0.275 (0.127, 0.424)	2.85E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
USP3	ENSG00000140455	2	0.535 (0.244, 0.826)	3.14E-04	0.842	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.535 (0.216, 0.854)
STARD3	ENSG00000131748	1	–0.416 (–0.642, –0.189)	3.32E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ZFYVE27	ENSG00000155256	1	0.308 (0.134, 0.483)	5.47E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MFHAS1	ENSG00000147324	1	0.199 (0.086, 0.313)	5.76E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CPNE4	ENSG00000196353	1	–0.582 (–0.914, –0.250)	5.97E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAMB2	ENSG00000172037	4	–0.334 (–0.526, –0.142)	6.48E-04	0.479	–0.330 (–0.559, –0.100)	4.85E-03	–0.330 (–0.562, –0.097)	5.58E-03	–0.904 (–1.754, –0.050)	1.74E-01	0.312	–0.334 (–0.508, –0.159)	3.31E-02	0.544	–0.338 (–0.539, –0.137)
None	ENSG00000254810	3	–0.202 (–0.319, –0.083)	8.11E-04	0.742	–0.201 (–0.322, –0.080)	1.13E-03	–0.201 (–0.323, –0.079)	1.21E-03	–0.268 (–0.472, –0.063)	2.37E-01	0.581	N/A	N/A	N/A	–0.202 (–0.320, –0.083)
PNMT	ENSG00000141744	1	–0.944 (–1.502, –0.390)	8.35E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RPL10P19	ENSG00000233609	2	0.213 (0.088, 0.338)	8.67E-04	0.308	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.213 (0.090, 0.336)
PHOSPHO2	ENSG00000144362	3	0.118 (0.049, 0.187)	8.99E-04	0.732	0.116 (0.043, 0.189)	1.71E-03	0.116 (0.045, 0.187)	1.32E-03	0.129 (–0.161, 0.419)	5.43E-01	0.951	N/A	N/A	N/A	0.118 (0.048, 0.188)
CAMTA1	ENSG00000171735	2	–0.652 (–1.038, –0.265)	9.50E-04	0.851	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.654 (–1.088, –0.219)

Note. The above results were presented with $P < 0.001$. *CI*: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.

Supplementary Table S7. MR analysis identified IgG N-glycan: GP19-associated genes

			IVW/WR			**WM**		**PWM**		**MR-Egger**			**MR-PRESSO**			**MR-RAPS**	
Genes	mRNA ID	SNPs (*n*)	β (95% *CI*)	*P*	*P* (Q statistics)	β (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% *CI*)	*P*	*P* (Global test)	*β* (95% *CI*)	*P*
MRPS18A	ENSG00000096080	1	–1.465 (–1.967, –0.960)	1.210E-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HLA-S	ENSG00000225851	2	–0.613 (–0.847, –0.377)	3.360E-07	0.713	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.611 (–0.860, –0.361)	1.66E-06
PRSS23	ENSG00000150687	3	0.561 (0.310, 0.811)	1.130E-05	0.674	0.540 (0.252, 0.828)	2.440E-04	0.540 (0.254, 0.826)	2.18E-04	–1.255 (–6.908, 5.088)	7.64E-01	0.674	N/A	N/A	N/A	0.564 (0.289, 0.839)	5.97E-05
CYP21A1P	ENSG00000204338	1	–0.269 (–0.399, –0.140)	4.160E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
None	ENSG00000255899	1	0.375 (0.190, 0.560)	7.380E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IGKV1-16	ENSG00000240864	1	0.634 (0.309, 0.959)	1.300E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RABEP1	ENSG00000029725	2	0.111 (0.054, 0.168)	1.570E-04	0.333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.111 (0.054, 0.169)	1.65E-04
IGKV2-26	ENSG00000254098	1	0.622 (0.296, 0.947)	1.820E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CMC1	ENSG00000187118	1	–1.115 (–1.709, –0.523)	2.310E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MATK	ENSG00000007264	1	–1.126 (–1.726, –0.526)	2.310E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCRN3	ENSG00000144306	1	–1.262 (–1.937, –0.585)	2.540E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DUSP6	ENSG00000139318	2	–0.199 (–0.308, –0.089)	3.930E-04	0.715	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.199 (–0.311, –0.088)	4.71E-04
HSPA5	ENSG00000044574	1	–0.986 (–1.532, –0.440)	4.020E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TNPO2	ENSG00000105576	1	0.826 (0.364, 1.289)	4.580E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ASCL2	ENSG00000183734	1	–0.228 (–0.359, –0.097)	6.670E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PATL2	ENSG00000229474	3	–0.470 (–0.742, –0.199)	7.130E-04	0.467	–0.517 (–0.847, –0.189)	2.03E-03	–0.517 (–0.847, –0.190)	1.99E-03	0.643 (–1.692, 2.980)	6.85E-01	0.52	N/A	N/A	N/A	–0.247 (–0.462, –0.034)	2.31E-02
ZNF302	ENSG00000089335	1	0.107 (0.045, 0.170)	7.850E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C4B	ENSG00000224389	1	0.166 (0.069, 0.263)	8.310E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CMPK2	ENSG00000134326	2	0.439 (0.181, 0.697)	8.790E-04	0.448	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.442 (0.166, 0.718)	1.66E-03
GNAI1	ENSG00000127955	1	0.788 (0.320, 1.256)	9.480E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. The above results were presented with $P < 0.001$. *CI*: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.

Supplementary Table S8. Colocalization analysis for the associations between top 5 proteins with IgG N-glycan

Proteins	GWAS ID	IgG N-glyca	Region	SNPs (n)	PP.H_0	PP.H_1	PP.H_2	PP.H_3	PP.H_4
Oxidoreductase HTATIP2	prot-a-1390	GP7	CHR14:65296846-66296846	829	5.40E-156	3.26E-44	1.66E-112	1.00E+00	7.55E-42
Arfaptin-1	prot-a-145	GP7	CHR4:153201130-154201130	611	6.85E-16	4.46E-01	3.02E-17	1.91E-02	5.35E-01
Anaphase-promoting complex subunit 7	prot-a-91	GP7	CHR1:196146176-197146176	558	1.38E-296	9.56E-01	4.76E-298	3.29E-02	1.14E-02
Anaphase-promoting complex subunit 7	prot-a-91	GP7	CHR1:196723447-197723447	560	3.27E-233	9.40E-01	1.24E-234	3.55E-02	2.49E-02
Odourant-binding protein 2b	prot-a-2139	GP7	CHR9:137967959-138967959	990	1.29E-159	3.07E-01	1.30E-160	3.03E-02	6.63E-01
a2-HS-Glycoprotein	prot-c-3581_53_3	GP7	CHR3:185837827-186837827	249	8.67E-31	7.36E-01	1.73E-32	1.45E-02	2.49E-01
Oxidoreductase HTATIP2	prot-a-1390	GP12	CHR14:65296846-66296846	829	5.40E-156	3.26E-44	1.66E-112	1.00E+00	7.55E-42
Lactoperoxidase	prot-a-1765	GP12	CHR17:55821271-56821271	677	4.48E-12	9.12E-01	2.04E-13	4.16E-02	4.68E-02
IGF-like family receptor 1	prot-a-1455	GP12	CHR19:35730174-36730174	573	4.39E-89	7.86E-01	2.31E-90	4.12E-02	1.73E-01
a2-HS-Glycoprotein	prot-c-3581_53_3	GP12	CHR3:185837827-186837827	249	8.67E-31	7.36E-01	1.73E-32	1.45E-02	2.49E-01
Probable dimethyladenosine transferase	prot-a-819	GP12	CHR17:49336896-50336896	1067	7.02E-03	9.29E-01	2.60E-04	3.44E-02	2.90E-02
Kunitz-type protease inhibitor 3	prot-a-2825	GP19	CHR20:43641041-44641041	1028	3.62E-119	2.91E-02	5.22E-119	4.10E-02	9.30E-01
ERK-1	prot-c-2855_49_2	GP19	CHR16:29495218-30495218	14	4.09E-04	3.32E-01	1.04E-06	1.81E-04	6.67E-01
Beta-1,4-galactosyltransferase 1	prot-a-216	GP19	CHR10:5172059-6172059	1219	6.21E-03	9.19E-01	3.47E-04	5.13E-02	2.31E-02
Beta-1,4-galactosyltransferase 1	prot-a-216	GP19	CHR9:32613322-33613322	979	1.34E-23	4.57E-03	9.07E-22	3.08E-01	6.88E-01
Adenosine deaminase CECR1	prot-a-506	GP19	CHR22:17169306-18169306	905	7.10E-286	4.33E-01	2.72E-287	1.60E-02	5.51E-01
C4	prot-c-4481_34_2	GP19	CHR6:31583300-32583300	585	2.23E-13	4.20E-04	5.30E-10	9.99E-01	6.06E-04

Note. Evidence for colocalization was assessed using the PP for hypothesis 4 (PPH4 > 95%). CHR: chromosome; GP: Glycan peak; IgG: Immunoglobulin G; PP, posterior probability; SNPs, single nucleotide polymorphisms.

Supplementary Table S9. MR analysis identified IgG N-glycan: GP7-associated proteins

			IVW/WR			WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
Proteins	GWAS ID	SNPs (*n*)	*β* (95% *CI*)	*P*	*P* (Q statistics)	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% *CI*)	*P*	*P* (Global test)	*β* (95% *CI*)	*P*
Oxidoreductase HTATIP2	prot-a-1390	1	0.137 (0.077, 0.196)	7.880E-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arfaptin-1	prot-a-145	1	–0.226 (–0.368, –0.082)	1.990E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anaphase-promoting complex subunit 7	prot-a-91	1	0.587 (0.209, 0.965)	2.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Odorant-binding protein 2b	prot-a-2139	2	–0.076 (–0.131, –0.022)	6.120E-03	0.269	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.077 (–0.126, –0.026)	2.62E-03
a2-HS-Glycoprotein	prot-c-3581_53_3	1	–0.080 (–0.139, –0.021)	7.940E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tuftelin	prot-a-3117	1	0.307 (0.077, 0.538)	8.980E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CD36 ANTIGEN	prot-c-2973_15_2	1	0.103 (0.026, 0.182)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VEGF sR2	prot-c-3651_50_5	1	0.151 (0.037, 0.265)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
sE-Selectin	prot-c-3470_1_2	1	0.058 (0.015, 0.103)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
sICAM-2	prot-c-2842_68_1	1	0.138 (0.034, 0.242)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IR	prot-c-3448_13_2	1	0.080 (0.020, 0.140)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mannosyl-oligosaccharide 1,2-alpha-mannosidase IB	prot-a-1833	1	–0.268 (–0.468, –0.066)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Met	prot-c-2837_3_2	1	0.127 (0.031, 0.222)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OX2G	prot-c-5112_73_3	1	0.169 (0.041, 0.296)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JAG1	prot-c-5092_51_3	1	0.165 (0.040, 0.289)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ST4S6	prot-c-4469_78_2	1	0.152 (0.037, 0.266)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endoglin	prot-c-4908_6_1	1	0.103 (0.026, 0.182)	9.300E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PLXC1	prot-c-4564_2_2	1	0.095 (0.023, 0.168)	9.740E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. The above results were presented with $P < 0.01$. *CI*: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.

Supplementary Table S10. MR analysis identified IgG N-glycan: GP12-associated proteins

			IVW/WR			WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
Exposures	GWAS ID	SNPs (*n*)	*β* (95% *CI*)	*P*	*P* (Q statistics)	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% *CI*)	*P*	*P* (Global test)	*β* (95% *CI*)	*P*
Oxidoreductase HTATIP2	prot-a-1390	1	0.143 (0.083, 0.204)	3.230E-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lactoperoxidase	prot-a-1765	1	0.290 (0.134, 0.446)	2.820E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IGF-like family receptor 1	prot-a-1455	1	–0.183 (–0.286, –0.078)	5.860E-04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
a2-HS-Glycoprotein	prot-c-3581_53_3	1	–0.089 (–0.149, –0.028)	3.600E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Probable dimethyladenosine transferase	prot-a-819	1	0.519 (0.164, 0.876)	4.240E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbonic anhydrase 6	prot-c-3352_80_3	1	0.155 (0.048, 0.262)	4.490E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Programmed cell death 1 ligand 1	prot-a-431	1	–0.717 (–1.231, –0.204)	6.190E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECM1	prot-c-3366_51_2	1	–0.053 (–0.093, –0.014)	7.800E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anaphase-promoting complex subunit 7	prot-a-91	1	0.514 (0.135, 0.893)	7.910E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Serpin A9	prot-a-2694	2	0.190 (0.048, 0.333)	8.940E-03	0.613	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.191 (0.037, 0.344)	1.46E-02
sLeptin R	prot-c-5400_52_3	1	–0.042 (–0.074, –0.010)	9.640E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. The above results were presented with $P < 0.01$. *CI*: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.

Supplementary Table S11. MR analysis identified IgG N-glycan: GP19-associated proteins

			IVW/WR			WM		PWM		MR-Egger			MR-PRESSO			MR-RAPS	
Exposures	GWAS ID	SNPs (*n*)	*β* (95% *CI*)	*P*	*P* (Q statistics)	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*β* (95% *CI*)	*P*	*P* (intercept)	*β* (95% *CI*)	*P*	*P* (Global test)	*β* (95% *CI*)	*P*
Kunitz-type protease inhibitor 3	prot-a-2825	1	0.128 (0.068, 0.190)	3.53E-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ERK-1	prot-c-2855_49_2	1	0.200 (0.080, 0.321)	1.11E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-1,4-galactosyltransferase 1	prot-a-216	2	0.232 (0.093, 0.371)	1.11E-03	0.195	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.234 (0.119, 0.350)	6.78E-05
Adenosine deaminase CECR1	prot-a-506	1	0.063 (0.023, 0.103)	1.97E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C4	prot-c-4481_34_2	1	–0.166 (–0.272, –0.059)	2.35E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17-beta-hydroxysteroid dehydrogenase 14	prot-a-1381	1	–0.429 (–0.709, –0.150)	2.60E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
sL-Selectin	prot-c-4831_4_2	1	–0.161 (–0.269, –0.053)	3.40E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neutrophil-activating peptide 2	prot-a-2337	3	0.221 (0.073, 0.368)	3.44E-03	0.895	0.234 (0.062, 0.407)	7.57E-03	0.234 (0.069, 0.400)	5.54E-03	–0.069 (–1.819, 1.682)	9.51E-01	0.8	N/A	N/A	N/A	0.220 (0.063, 0.378)	6.18E-03
Protein CREG1	prot-a-656	1	0.205 (0.065, 0.345)	4.05E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRY3	prot-c-3479_71_2	1	0.226 (0.071, 0.382)	4.21E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Properdin	prot-a-525	1	–0.235 (–0.396, –0.074)	4.30E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hemoglobin subunit zeta	prot-a-1317	1	–0.344 (–0.582, –0.108)	4.41E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C34 gp41 HIV Fragment	prot-c-4792_51_2	2	–0.090 (–0.151, –0.027)	4.61E-03	0.929	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.090 (–0.154, –0.025)	6.40E-03
Factor H	prot-c-4159_130_1	1	–0.099 (–0.167, –0.030)	4.62E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Interleukin-6 receptor subunit beta	prot-a-1542	1	–0.265 (–0.449, –0.081)	4.69E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neurexin-3-beta	prot-a-2105	1	–0.311 (–0.526, –0.095)	4.69E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Uronyl 2-sulfotransferase	prot-a-3182	1	–0.496 (–0.844, –0.147)	5.33E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vesicle-fusing ATPase	prot-a-2109	1	–0.338 (–0.578, –0.100)	5.54E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Spermatogenesis-associated protein 20	prot-a-2813	1	–0.409 (–0.699, –0.120)	5.54E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glutamate receptor 4	prot-a-1275	1	–0.164 (–0.278, –0.048)	5.54E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cAMP-specific 3',5'-cyclic phosphodiesterase 4D	prot-a-2221	1	–0.163 (–0.278, –0.048)	5.54E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T-cell surface protein tactile	prot-a-470	1	–0.208 (–0.355, –0.061)	5.54E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tryptase beta-2	prot-a-3090	2	–0.110 (–0.188, –0.033)	5.63E-03	0.594	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.110 (–0.188, –0.031)	5.81E-03
Gremlin-1	prot-a-1273	1	–0.192 (–0.336, –0.051)	7.71E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neutrophil collagenase	prot-a-1920	2	–0.061 (–0.106, –0.016)	8.28E-03	0.637	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	–0.061 (–0.106, –0.015)	8.60E-03
Vitronectin	prot-a-3215	1	–0.395 (–0.689, –0.100)	8.70E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brain-specific serine protease 4	prot-a-2391	1	0.148 (0.037, 0.259)	8.92E-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note. The above results were presented with $P < 0.01$. *CI*: Confidence interval; GP: Glycan peak; IgG: Immunoglobulin G; IVW: Inverse-variance weighted; MR: Mendelian randomization; N/A: Not available; PRESSO: Pleiotropy residual sum and outlier; PWM: Penalised weighted median; RAPS: Robust adjusted profile score; SNP: Single nucleotide polymorphism; WM: Weighted median; WR: Wald ratio; *β*: beta.