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# Genome-wide association study of post-traumatic stress disorder reexperiencing symptoms in >165,000 US veterans

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Figure S1a.

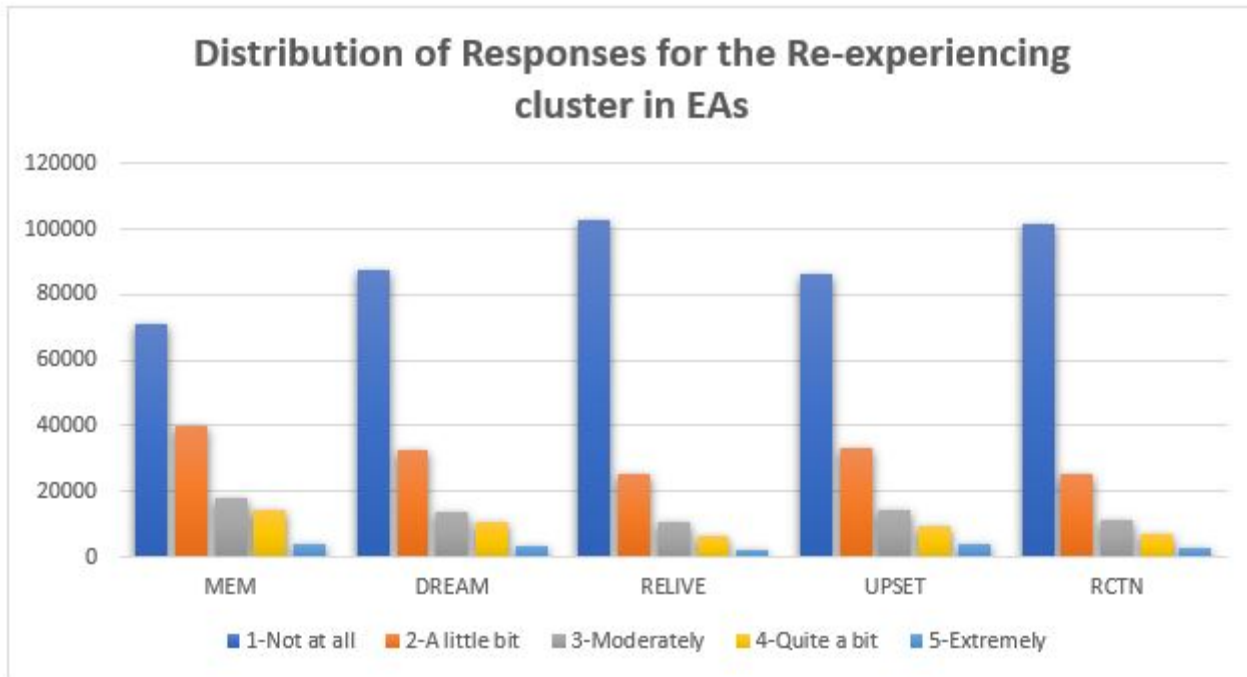
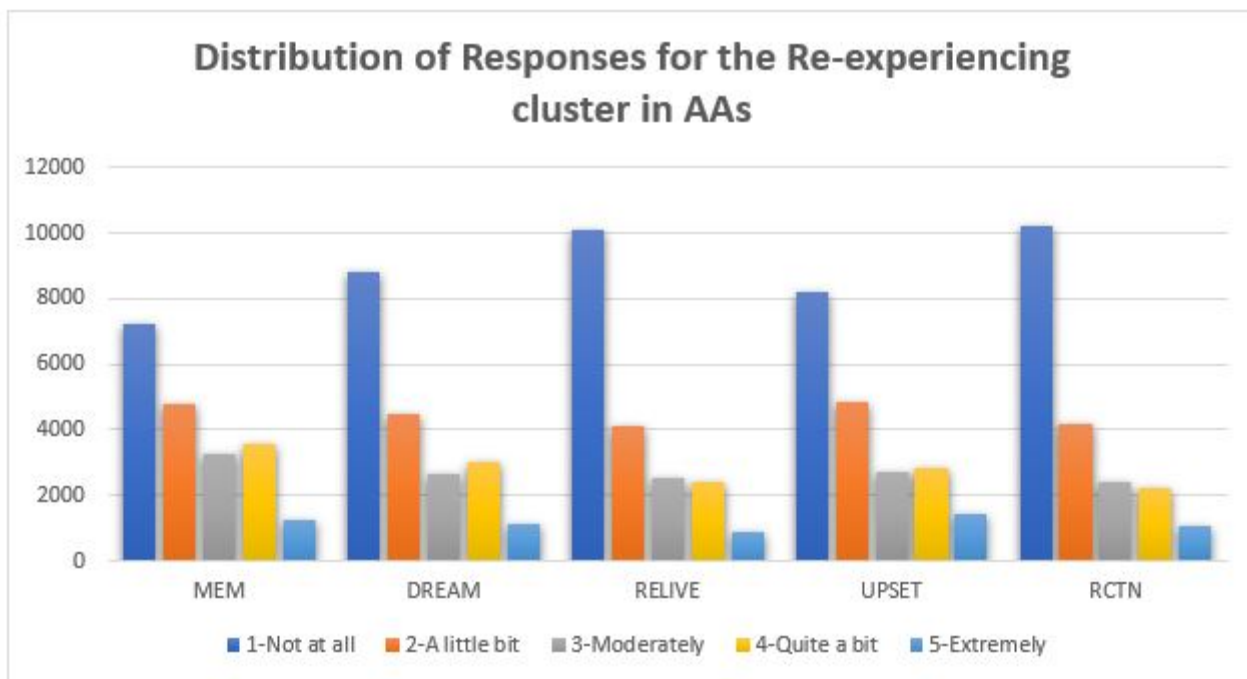


Figure S1b.

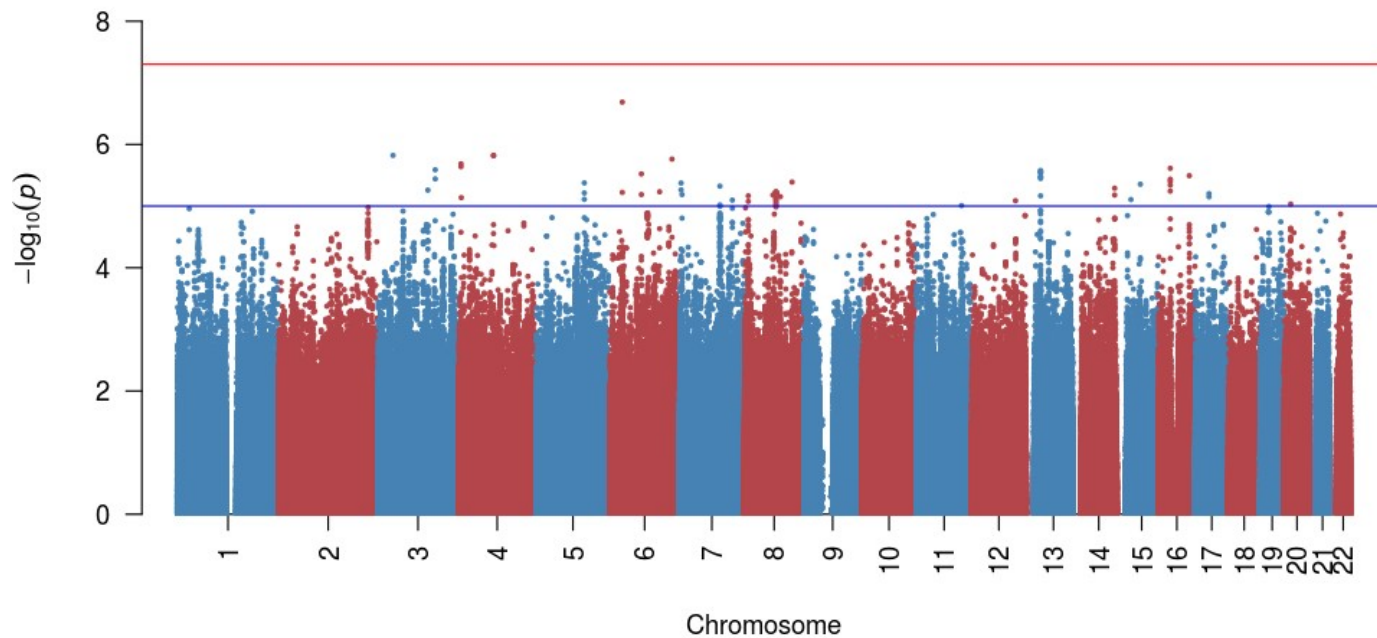


Supplementary Figure 1

Distribution of Responses for the Re-experiencing cluster

S1a: Distribution in EAs (EUR). S1b: Distribution in AAs (AFR).

pcl.c.aa (SNP-level)  $\lambda = 1.01$

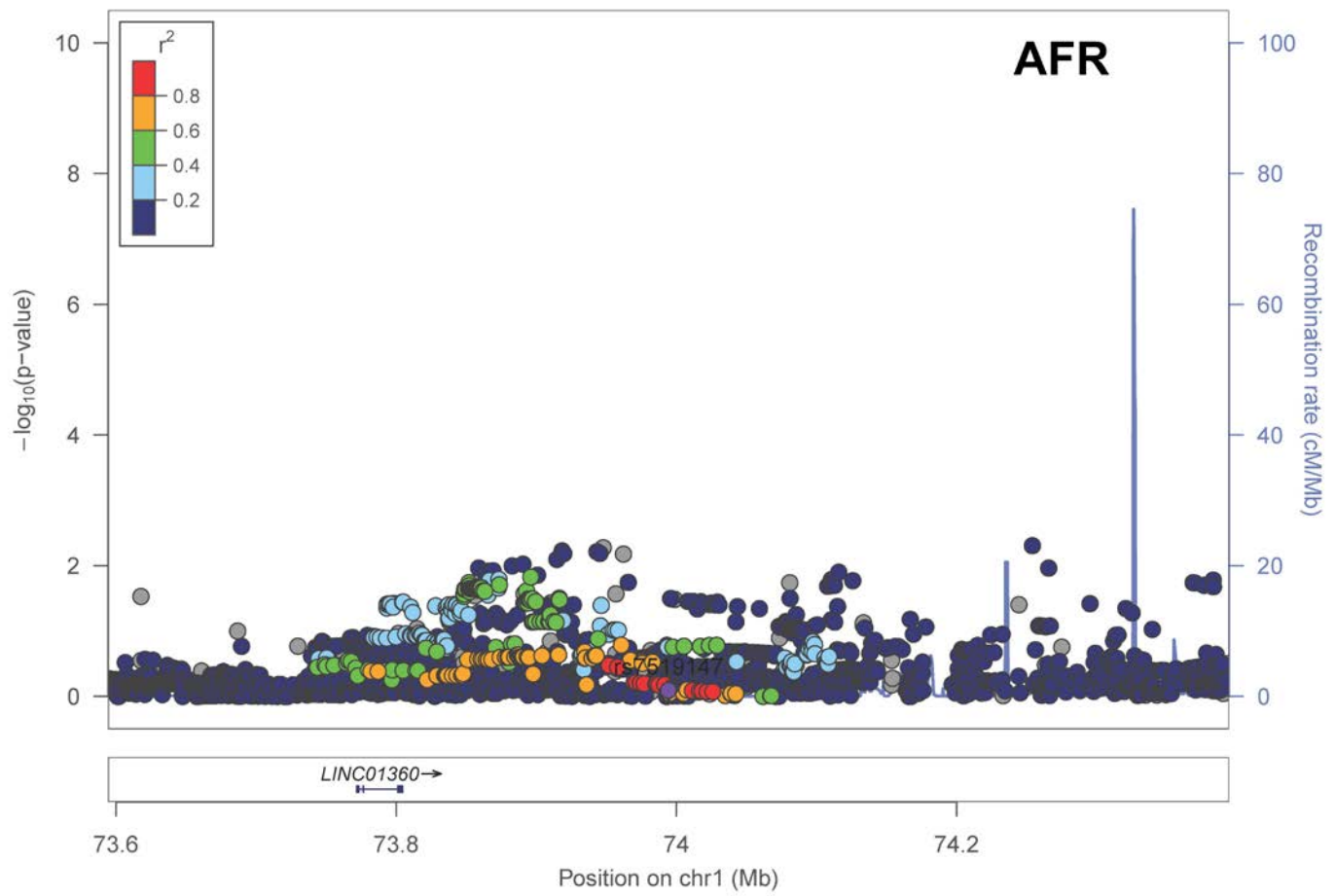


### Supplementary Figure 2

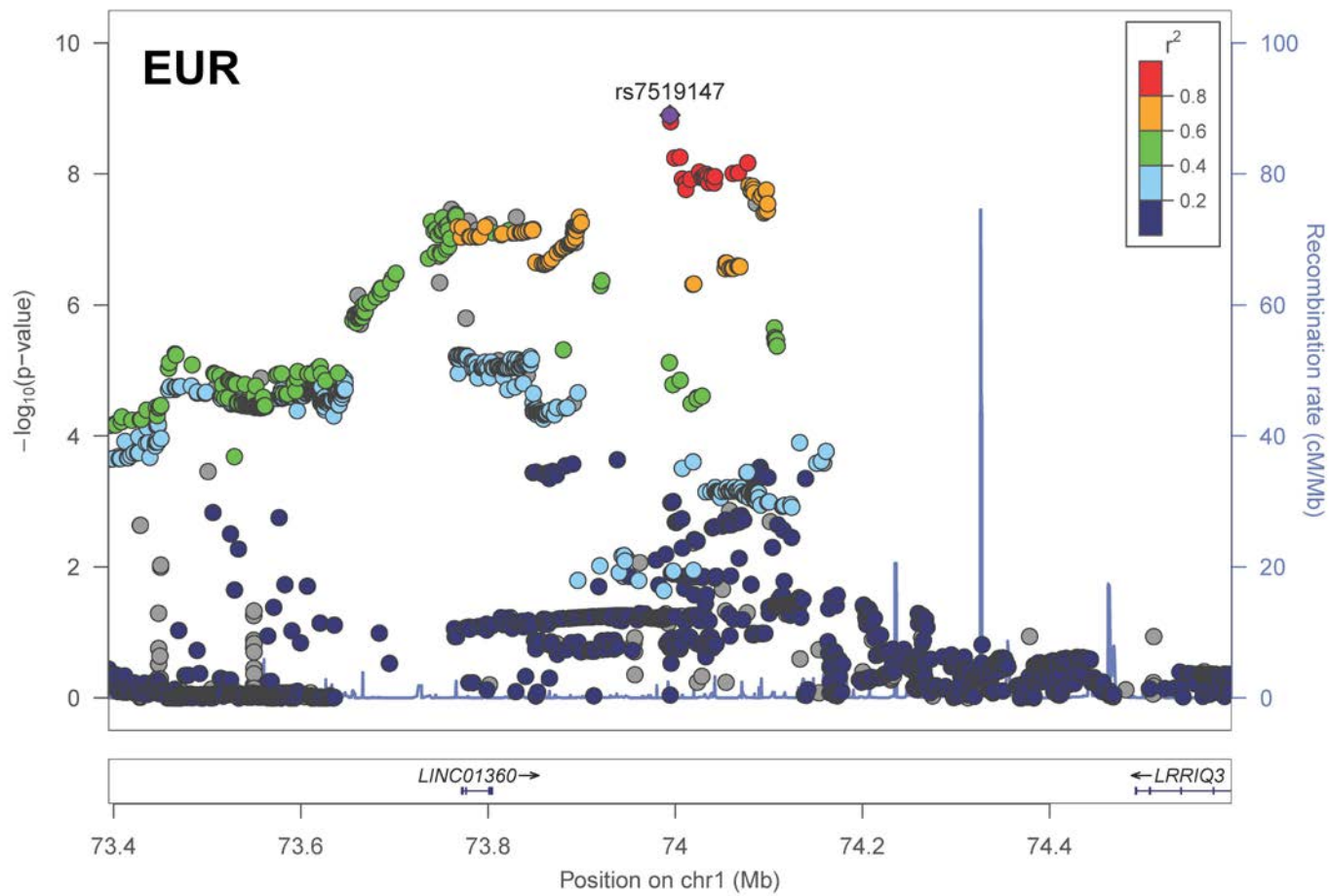
Manhattan plot, AA (AFR) subsample.

Manhattan plot, AA subsample (N=19,983). Negative logarithm of the association two-sided p value (from a linear regression model) for each variant tested is reported on the y-axis. Red and blue lines indicates the Bonferroni multiple testing correction and suggestive significances, respectively.

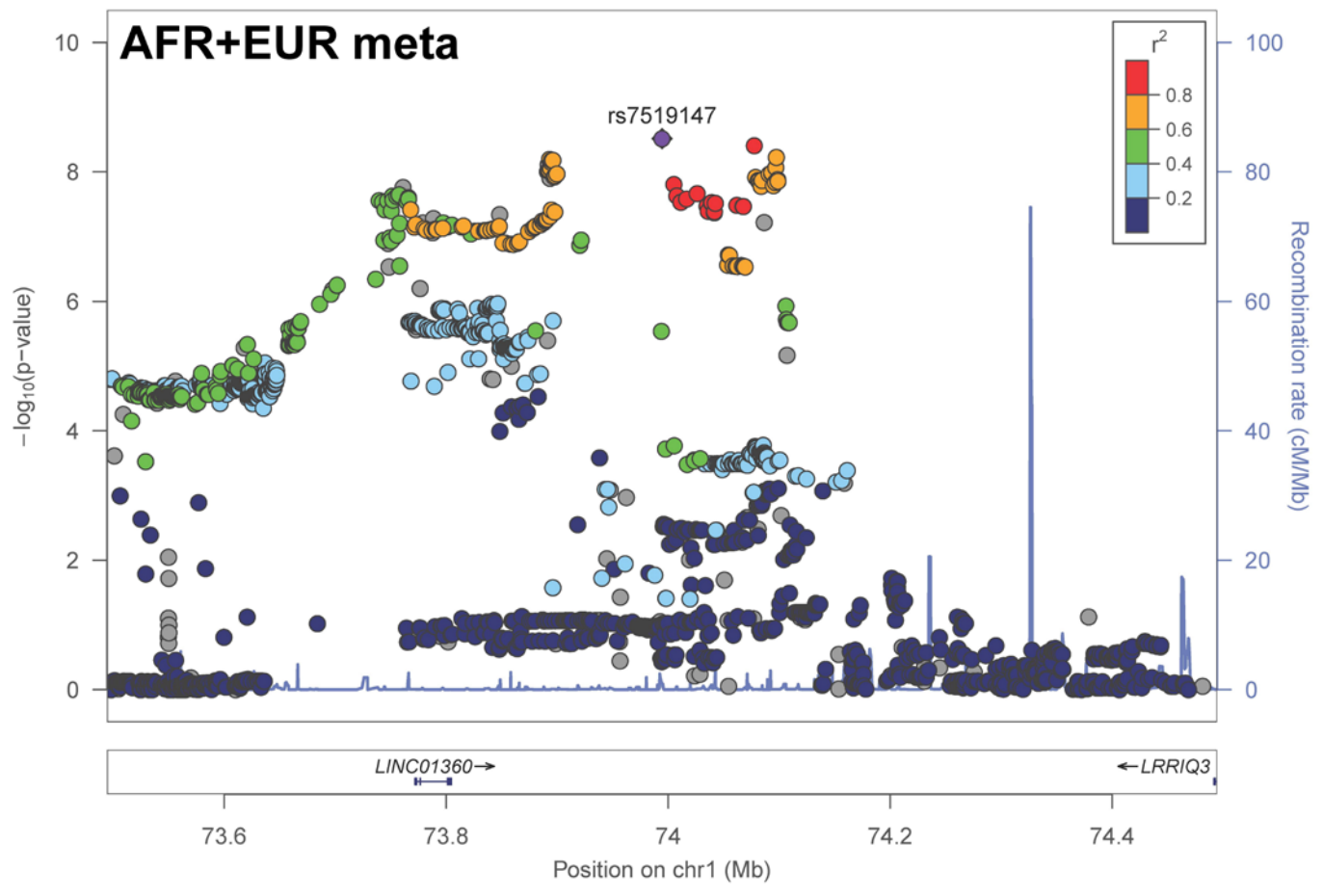
Plotted SNPs



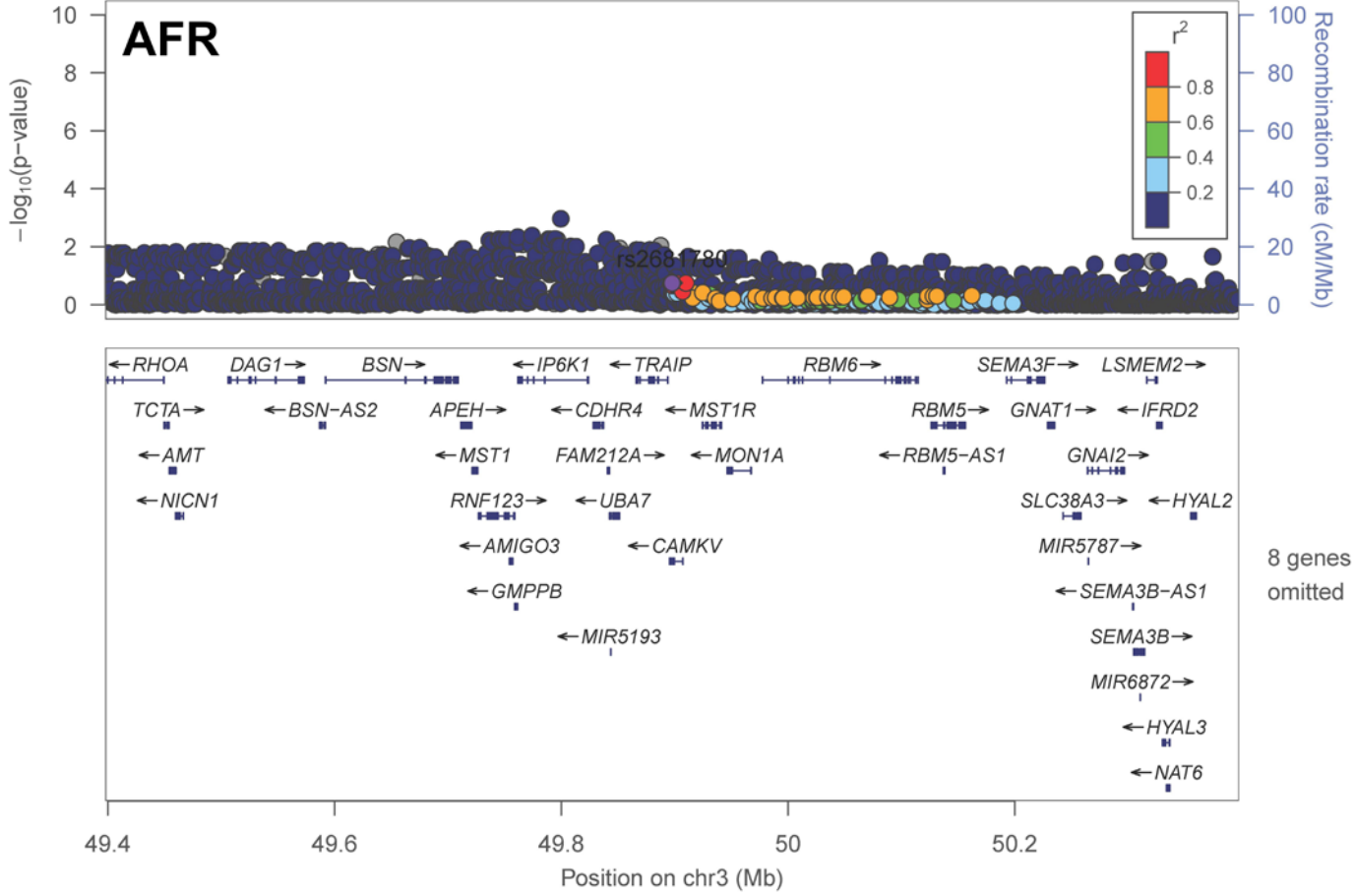
Plotted SNPs



Plotted SNPs

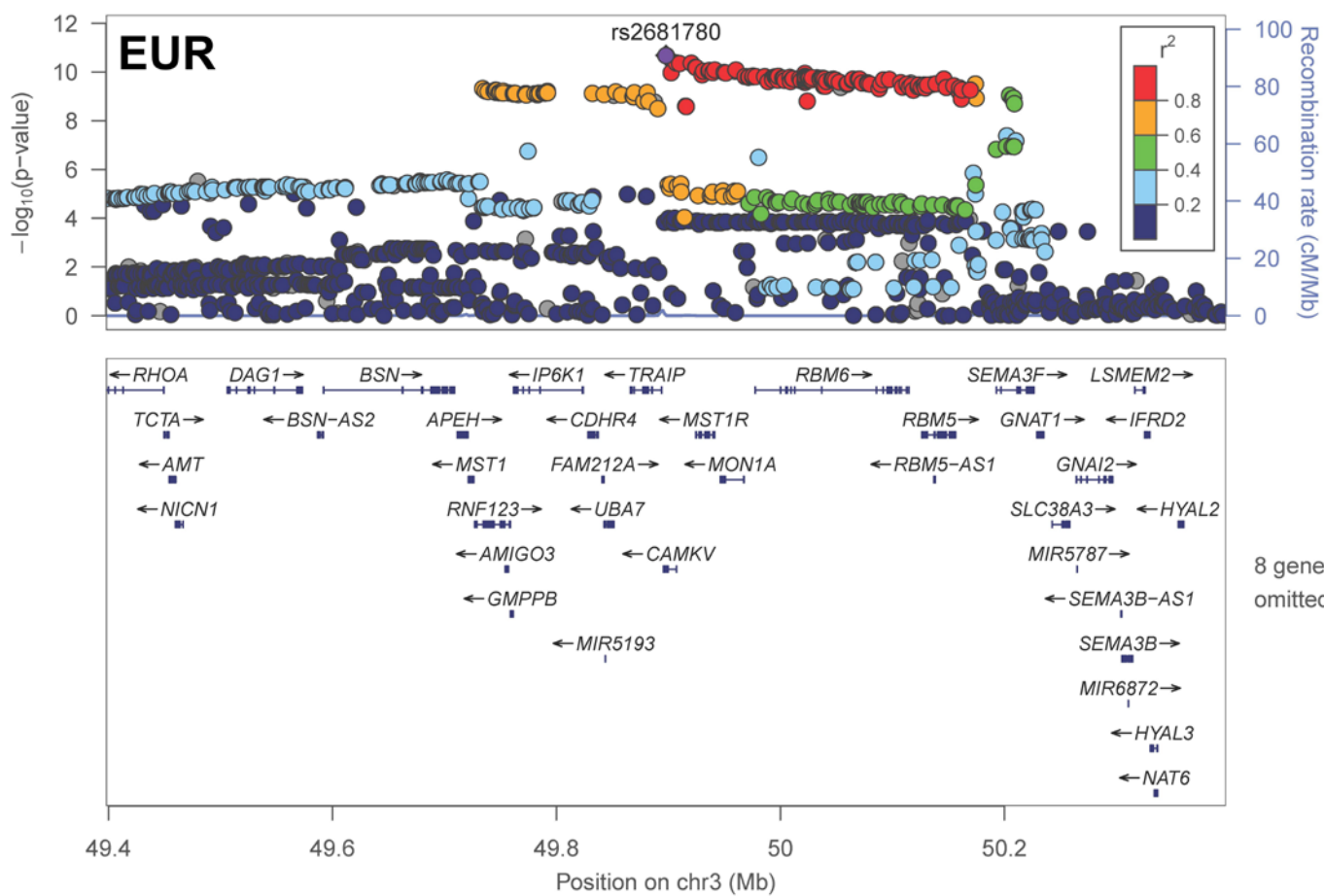


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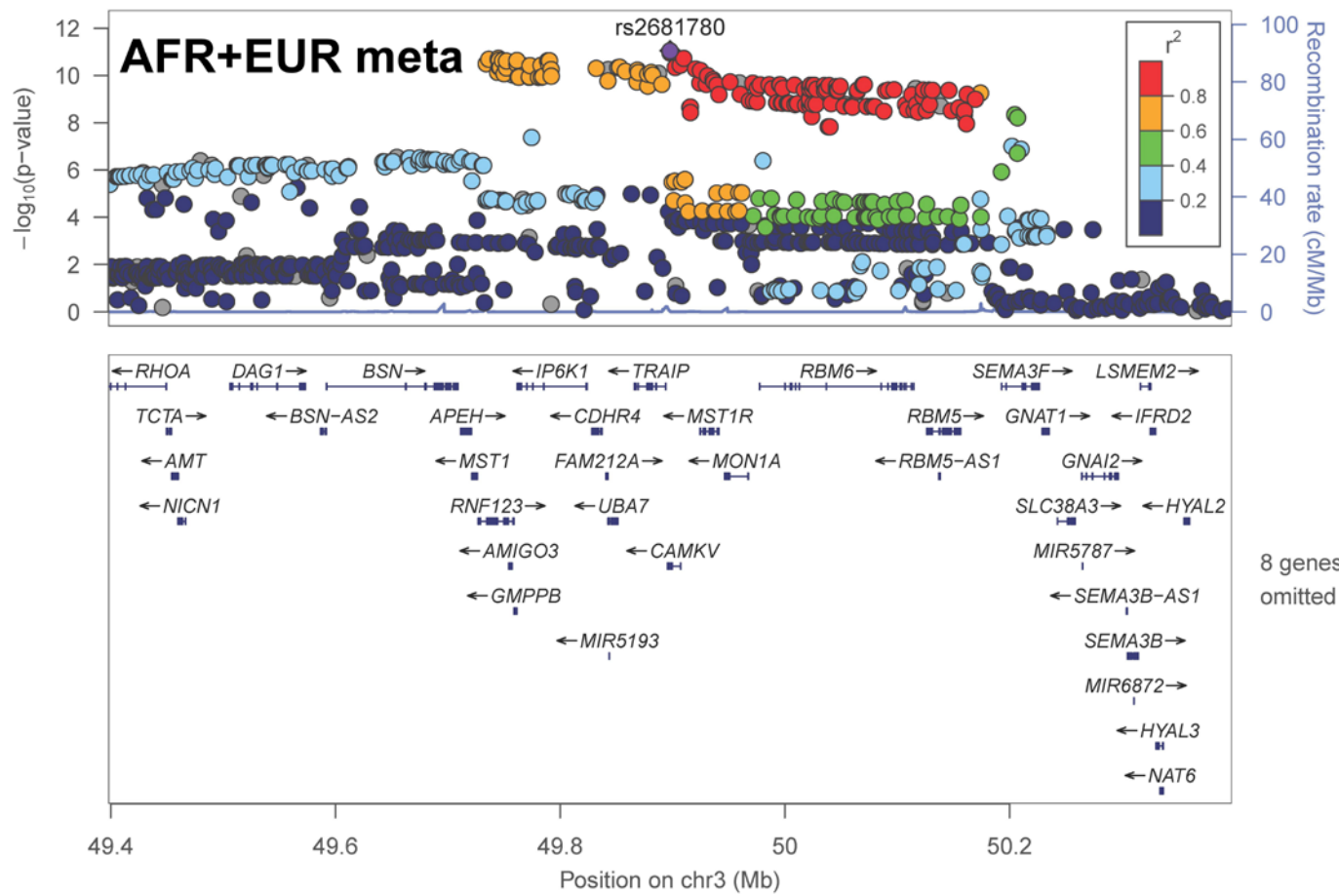




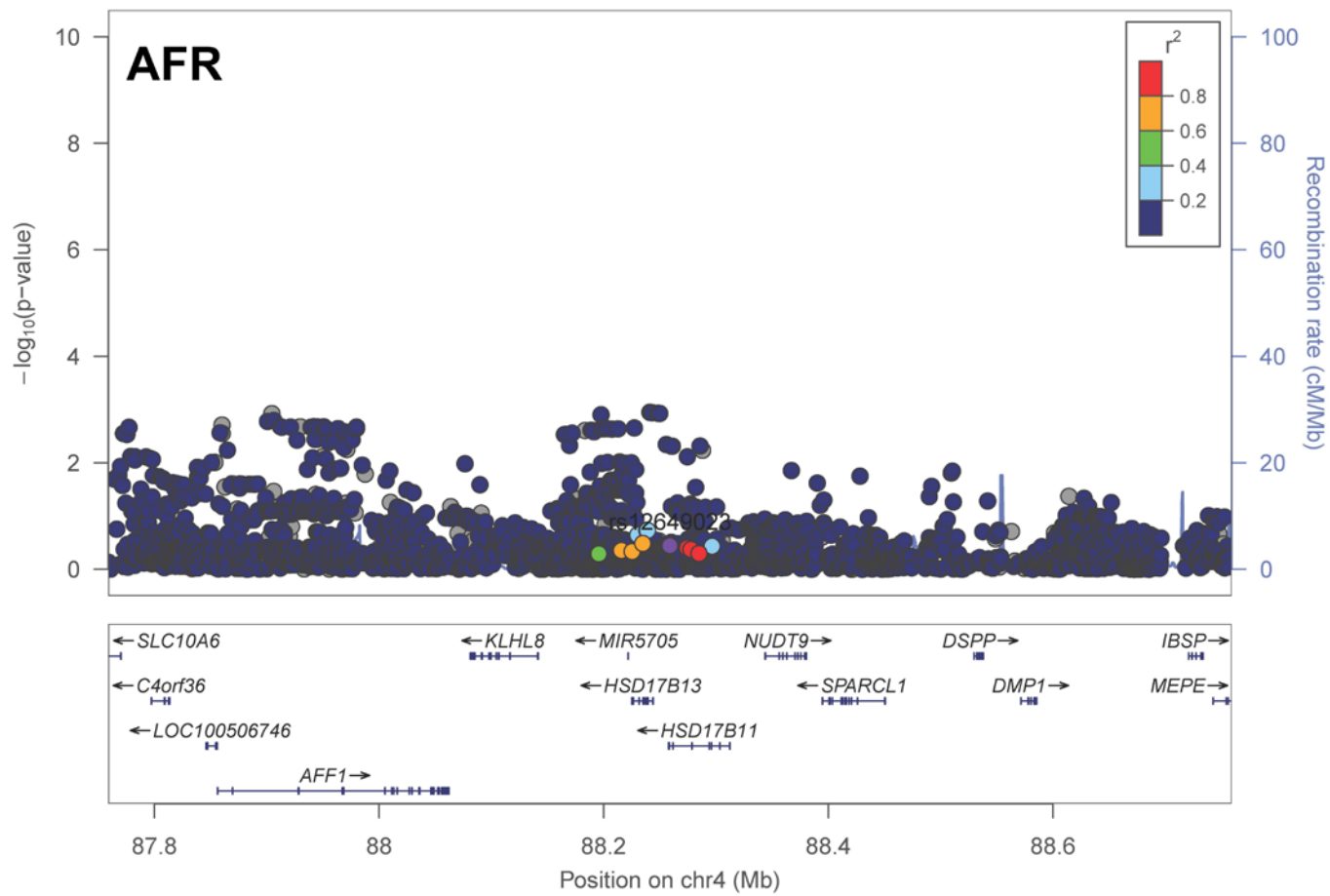
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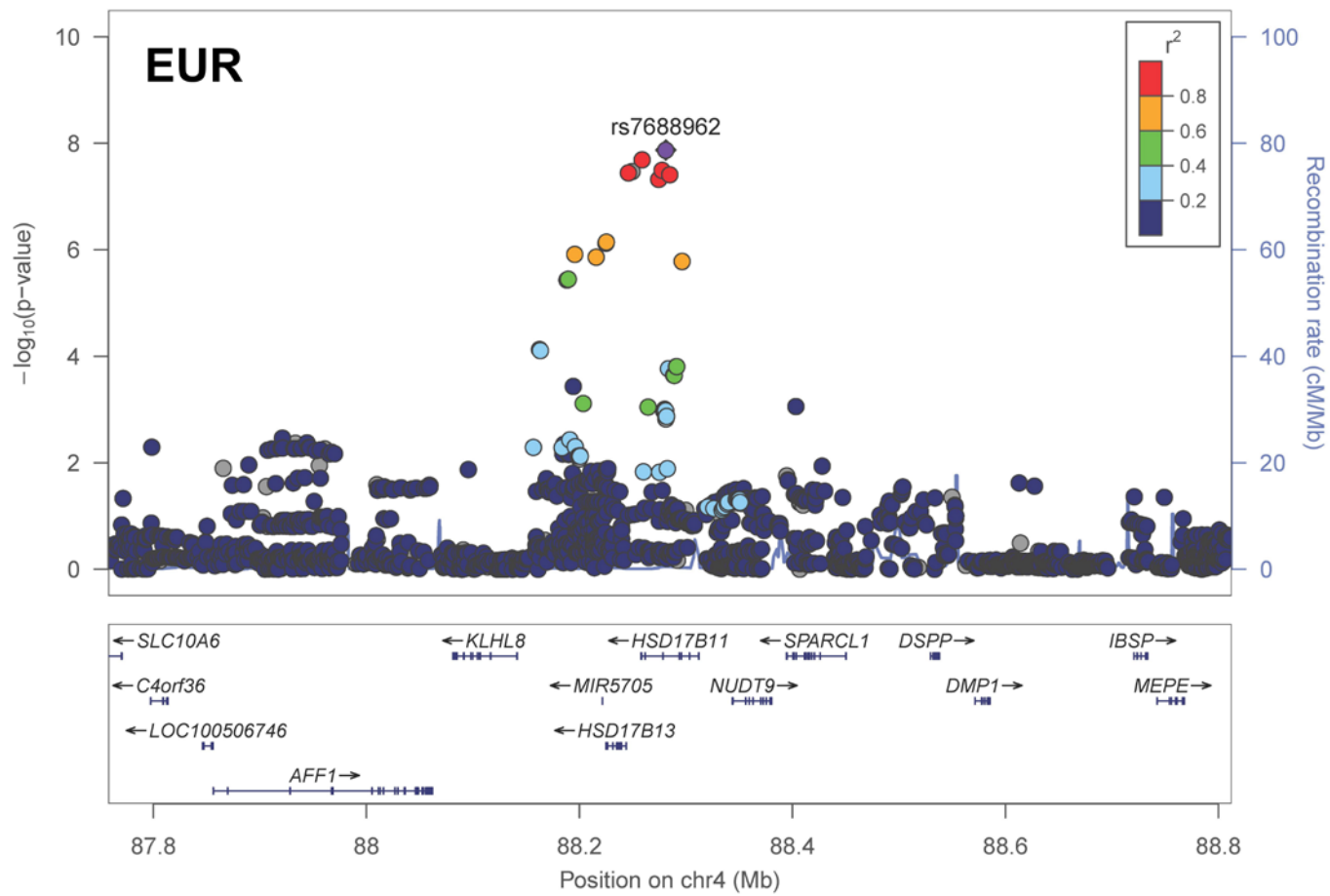
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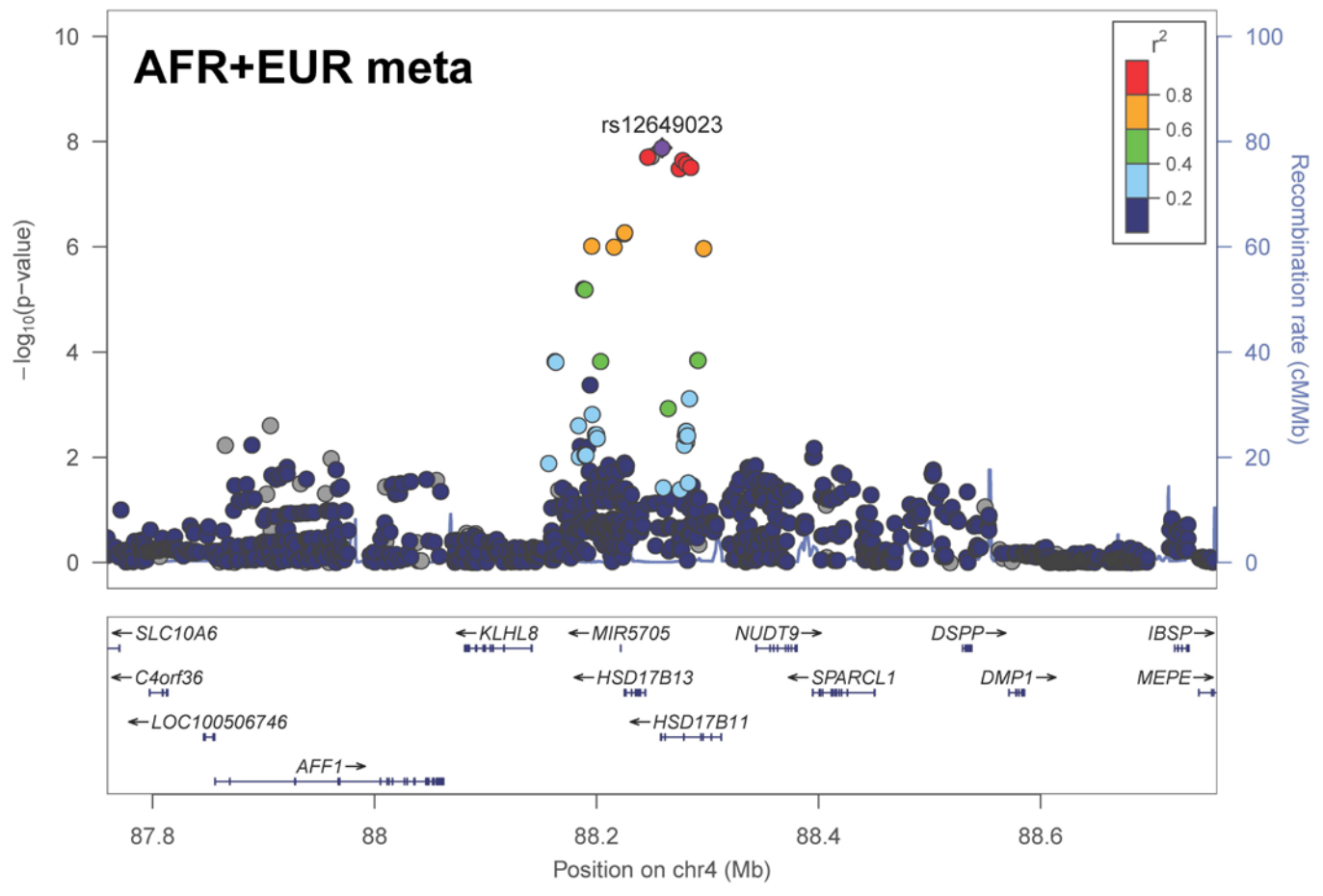
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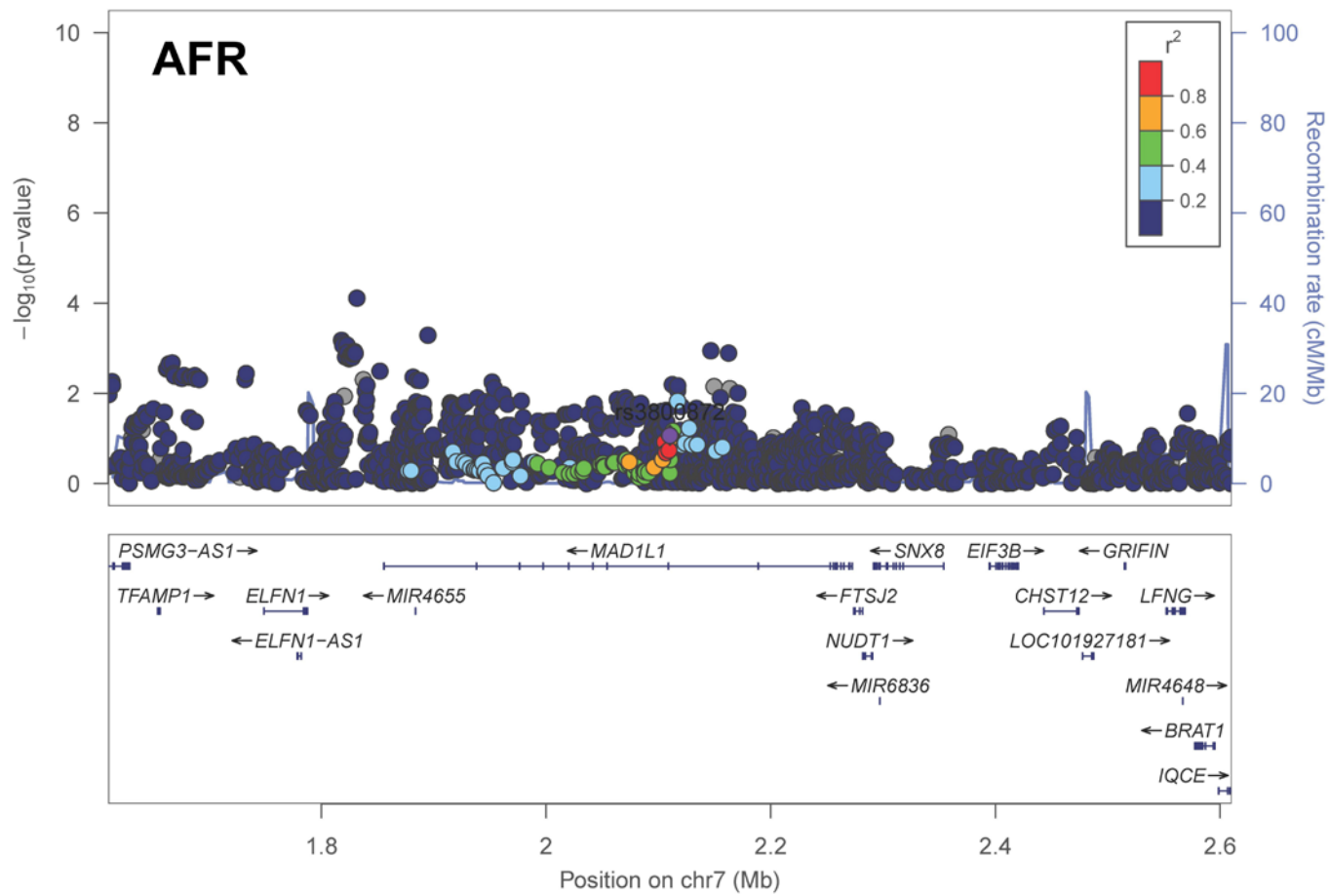
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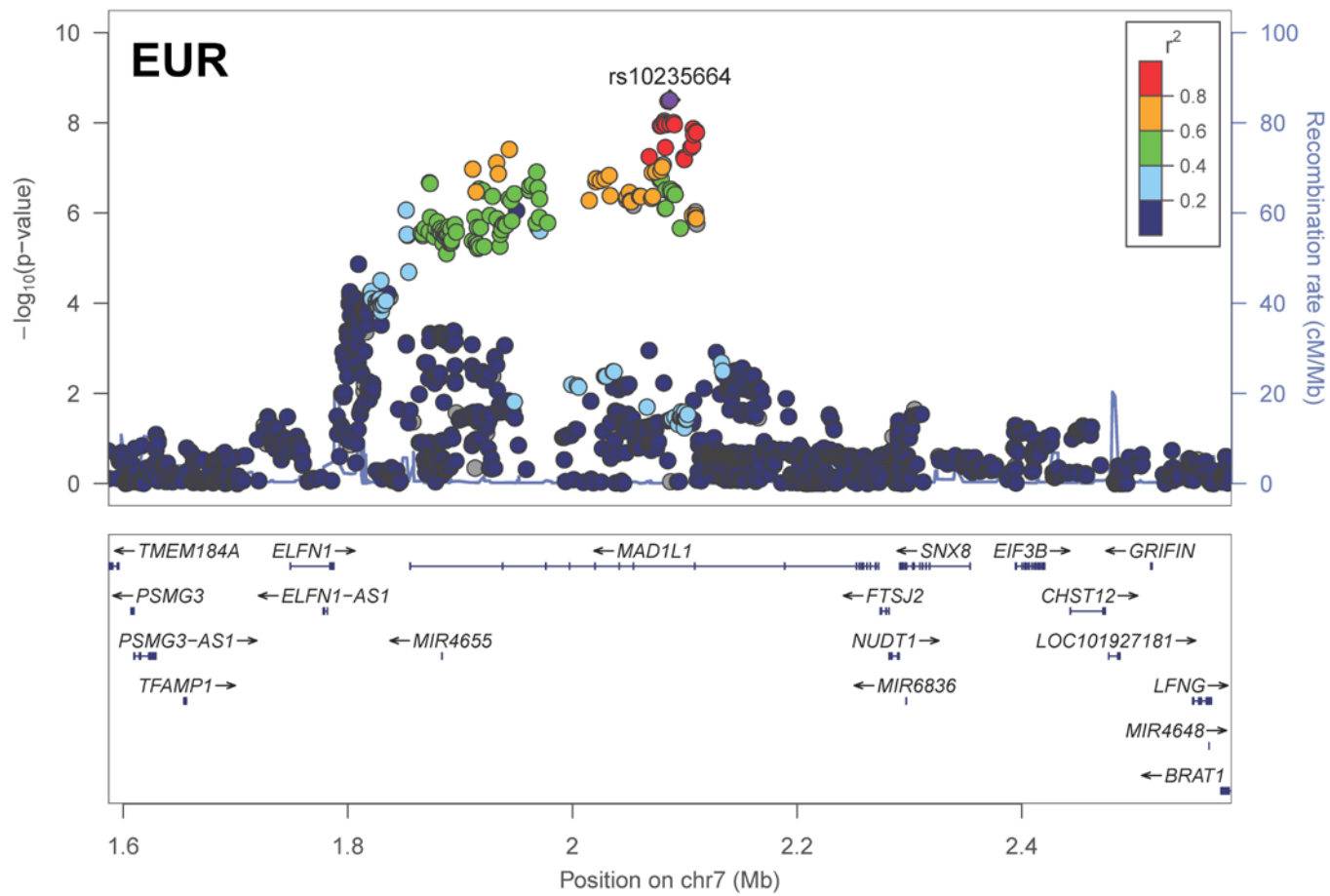
Plotted SNPs



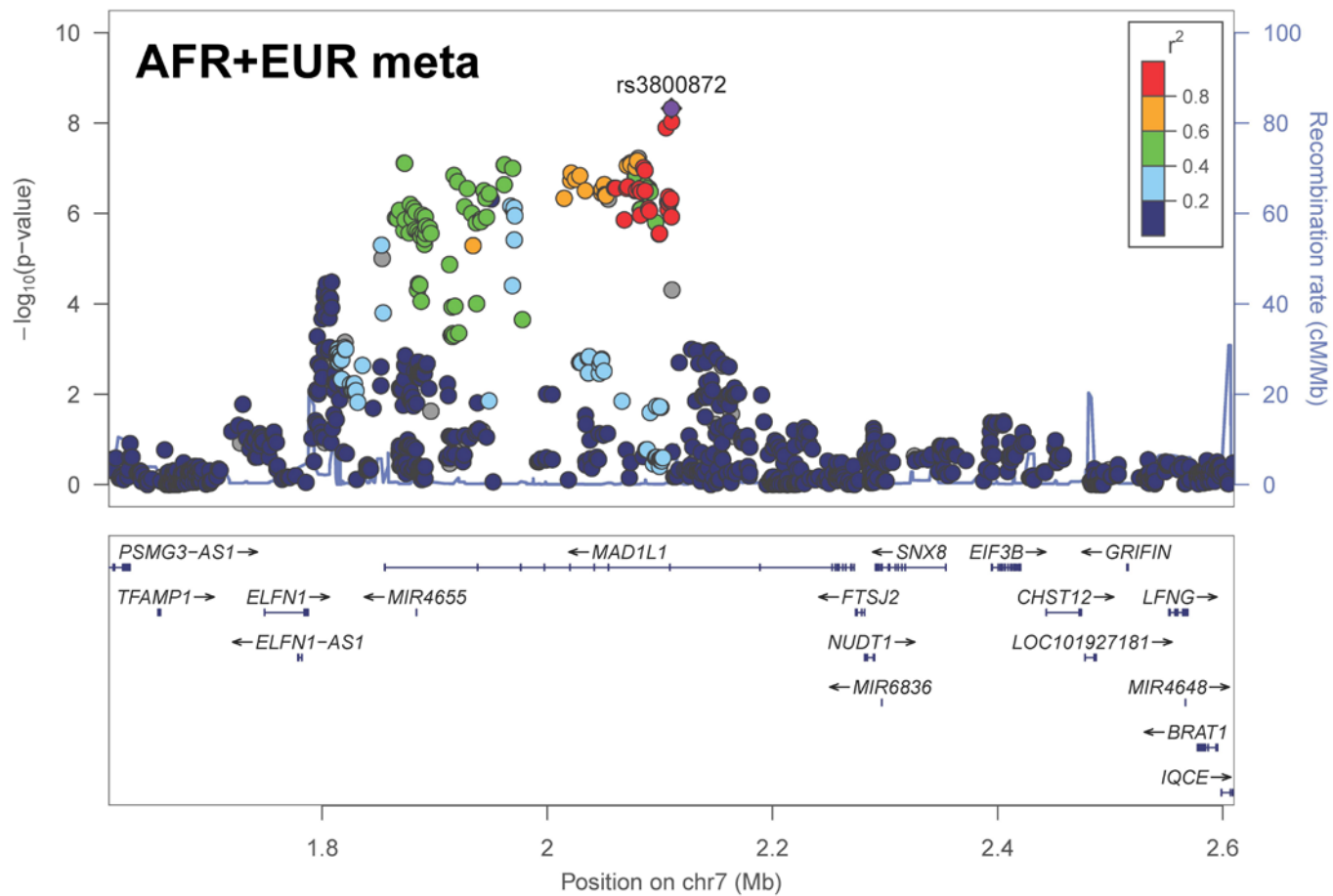
Plotted SNPs



Plotted SNPs

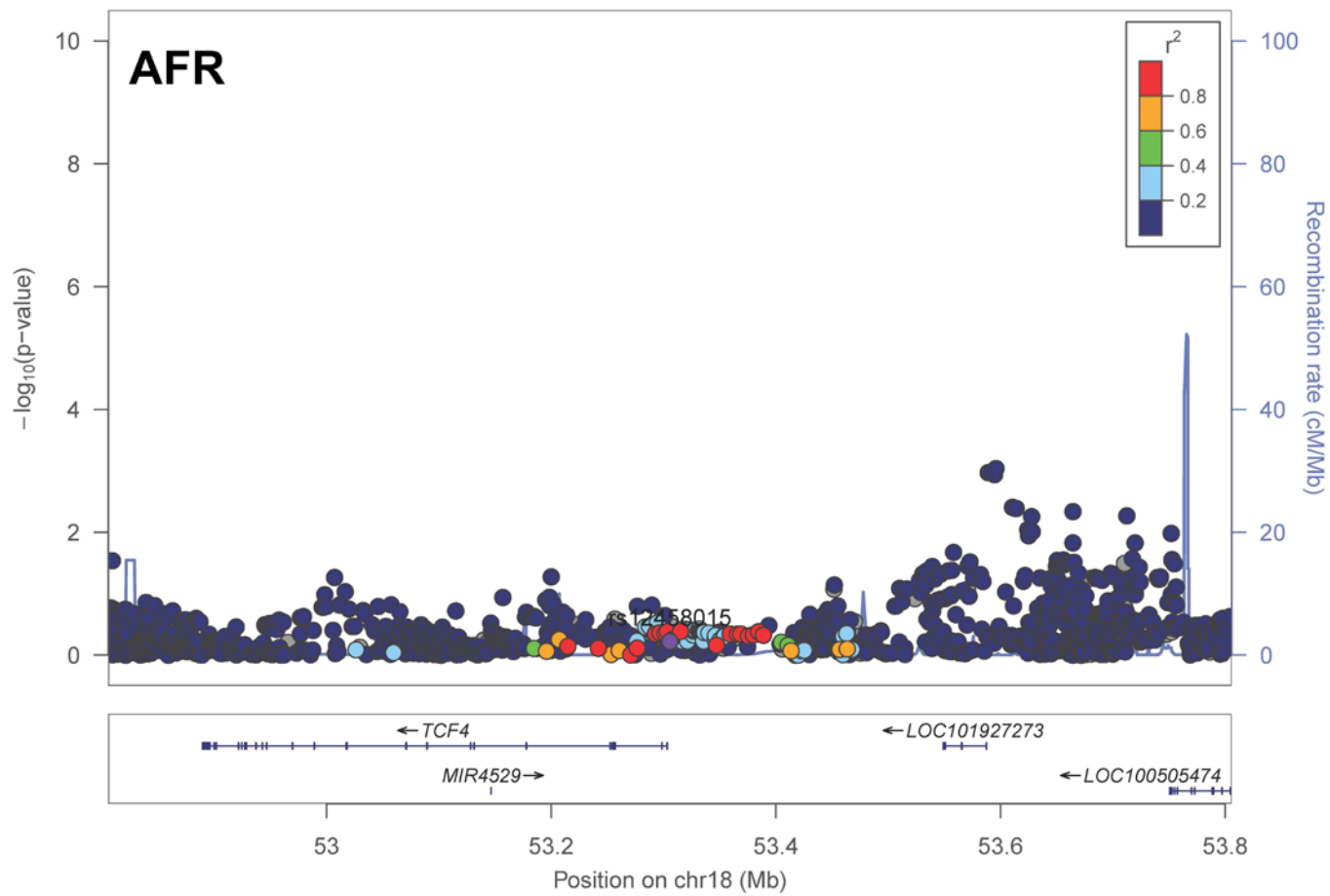


Plotted SNPs

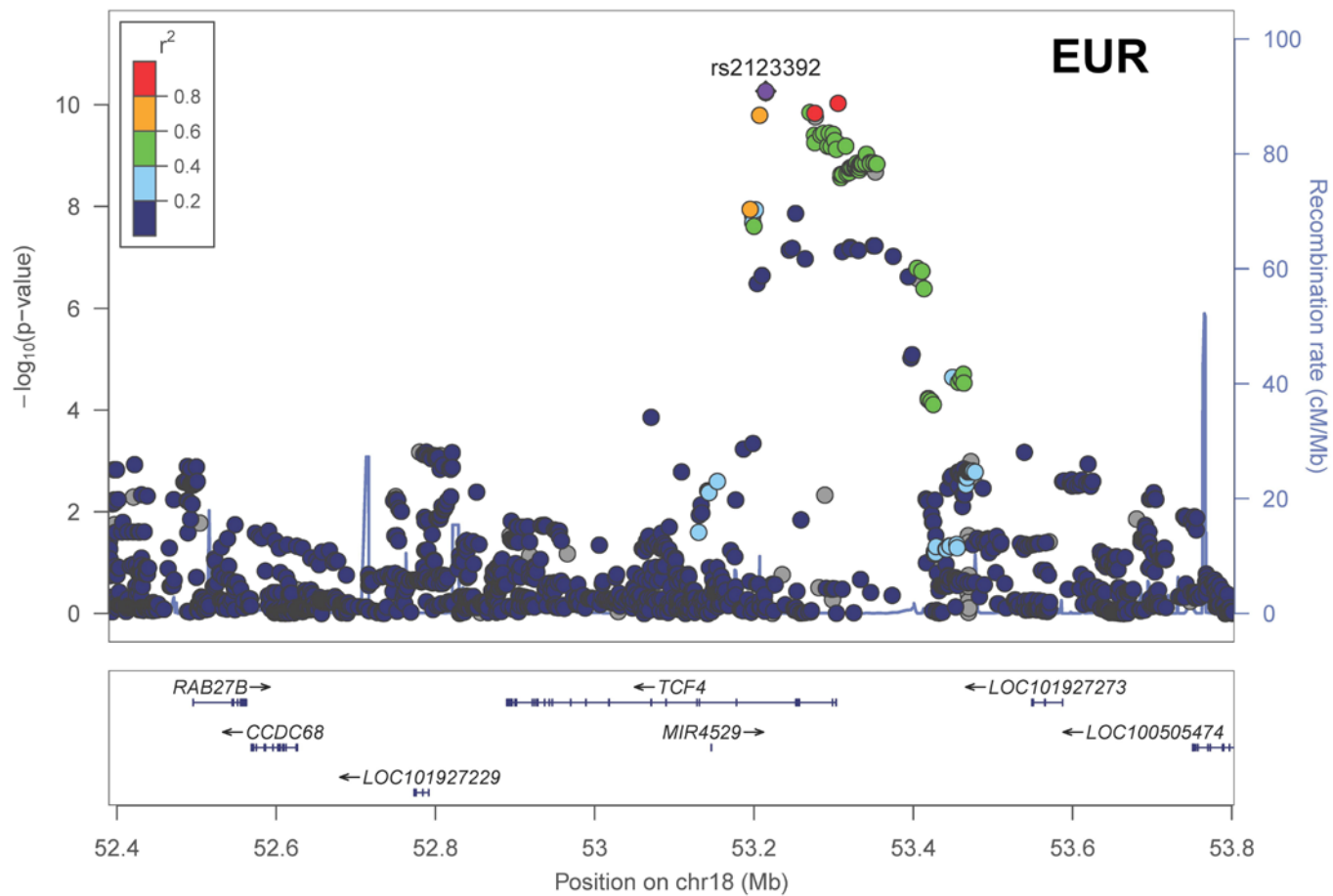




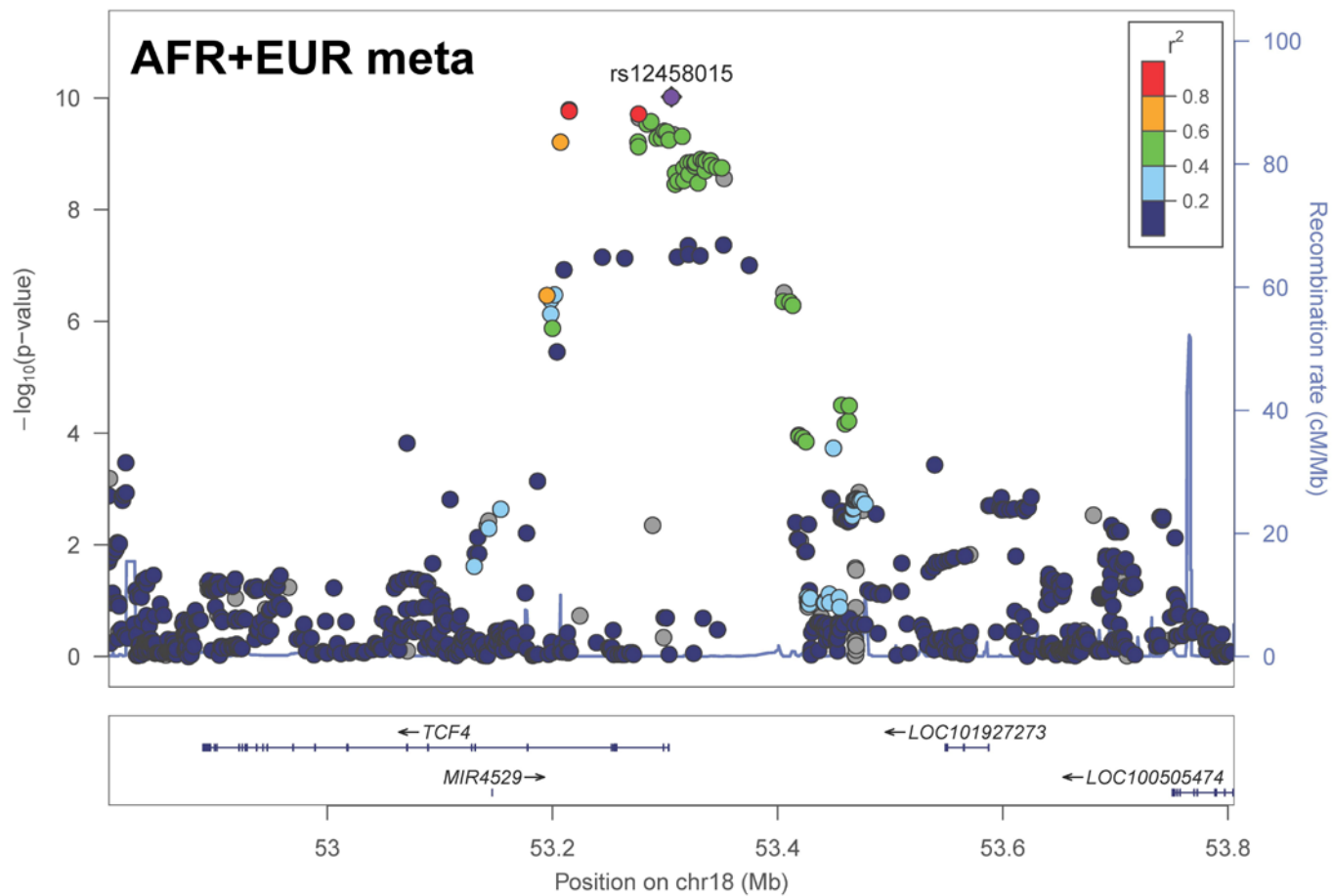
Plotted SNPs



Plotted SNPs



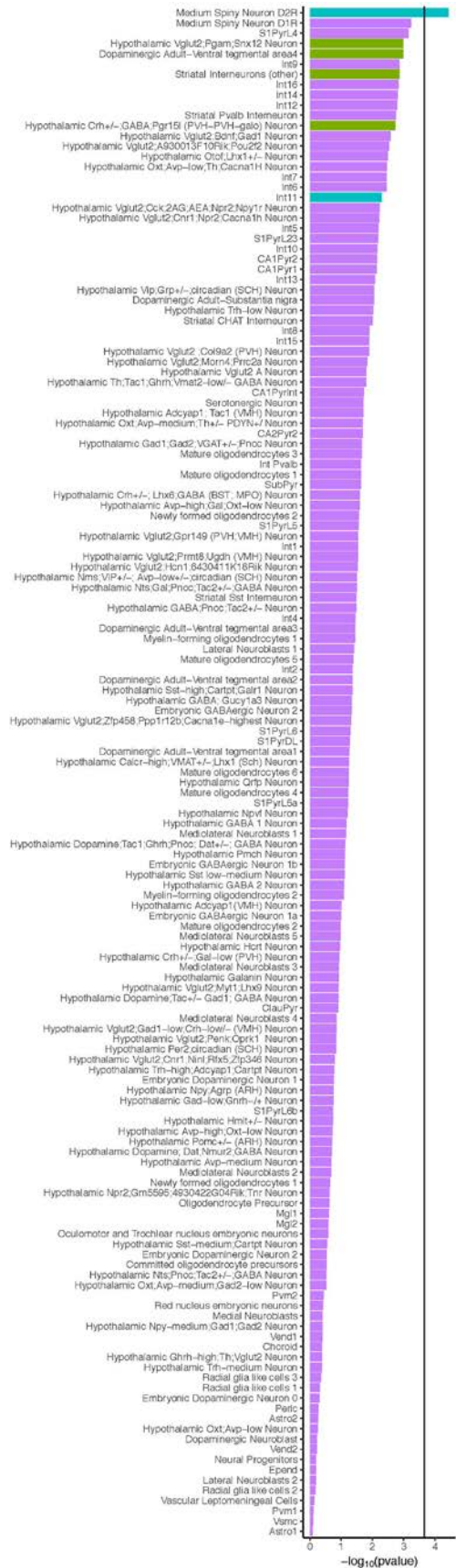
Plotted SNPs



### Supplementary Figure 3

Regional Manhattan plots for significant regions

Regional Manhattan plots for significant regions with respect to EUR and AFR participants (N=146,660 and N=19,983, respectively), and trans-ancestry meta-analyses based on these two samples. Negative logarithm of the association two-sided p value (from a linear regression model) for each variant tested is reported on the y-axis. The hg19/1000 Genomes November 2014 panels were used (EUR for European-American and trans-ancestry plots; AFR for African-American plots).



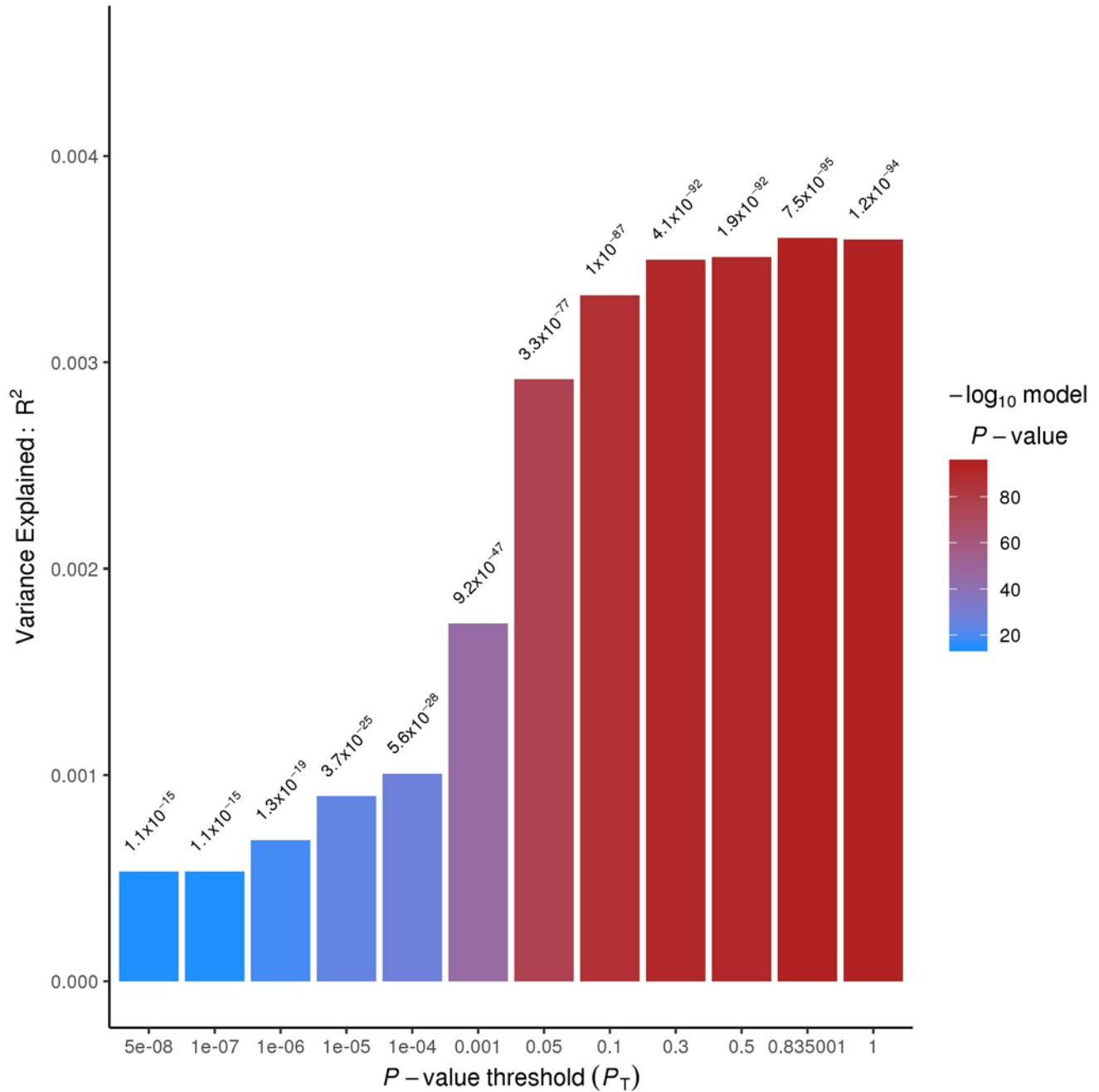
Significant

- Both
- MAGMA
- LDSC
- None

#### Supplementary Figure 4

Enrichment analysis between mouse brain cell type specific expression and PTSD re-experiencing genetic associations

Enrichment analysis between mouse brain cell type specific expression (narrowly defined) and PTSD re-experiencing genetic associations obtained from the EUR sample (N=146,660). Each bar represents negative logarithm of the enrichment p value for each cell type tested obtained two different statistical methods (LDSC and MAGMA, see details in the method section). The black bar represents the Bonferroni threshold ( $0.05/(53+24+149)$ ).

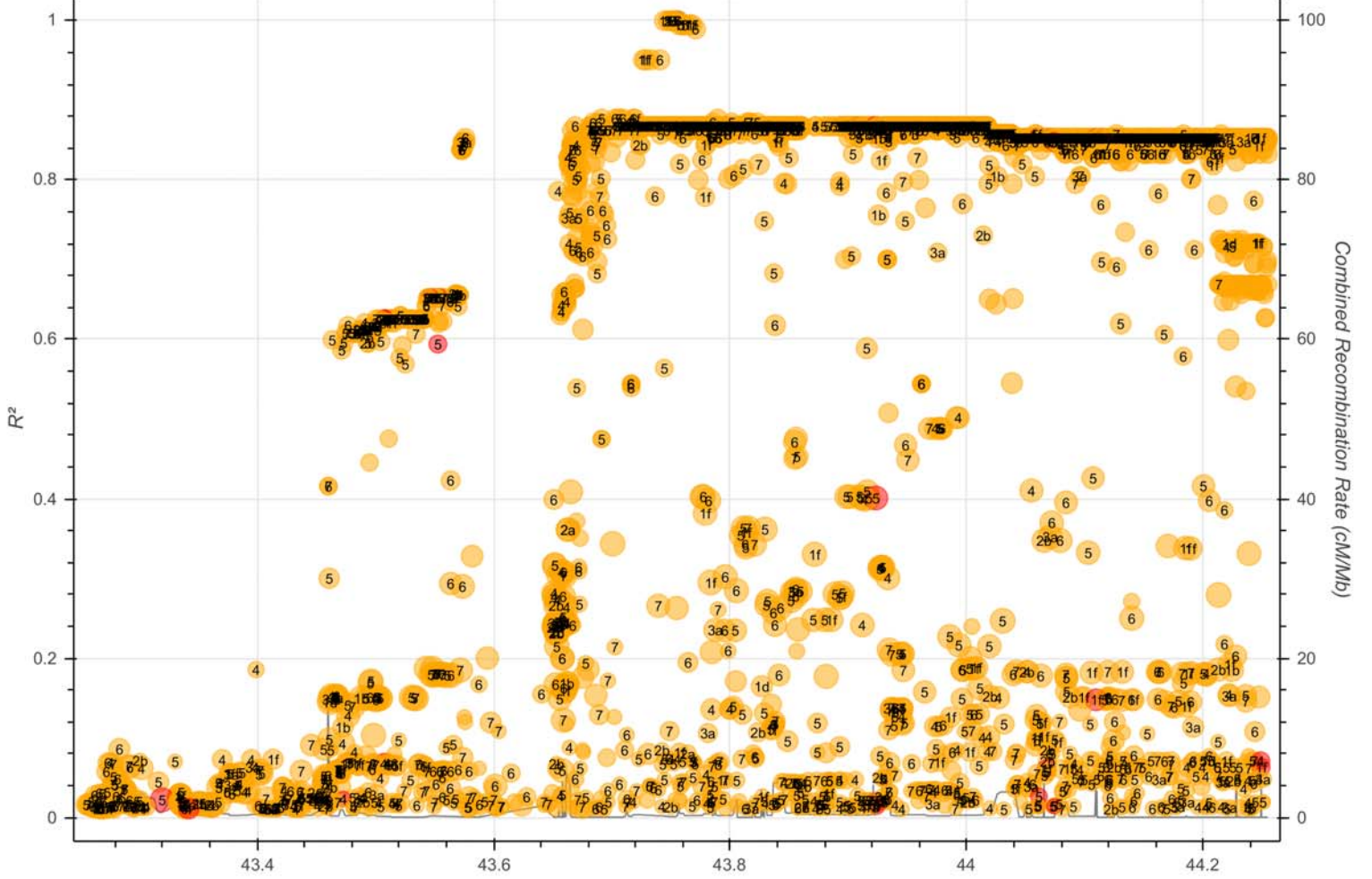


**Supplementary Figure 5**

Reexperiencing PRS derived from MVP European-ancestry sample (N=146,660) with respect to Reexperiencing item in UKB cohort (N=117,900).

Phenotypic variance explained ( $R^2$ ) by each PRS is reported on the y-axis. Two-sided p values obtained with respect to each PRS are reported above the bar. Further details are reported in the methods section.

Proxies for rs1724402 in EUR



## Supplementary Figure 6

LD structure in European-American and African-American populations

LD structure in European-American and African-American populations considering the *CRHR1* genomewide significant variant in the trans-ancestry meta-analysis



Supplemental Tables and Note

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Separate Spreadsheet	Table S4	Top 10,000 variants in AAs (LD pruned)
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## SUPPLEMENTAL TABLES

**Table S1. Items in re-experiencing symptom cluster analysis and their distributions.**

Five responses make up the cluster for re-experiencing.

Each item is scored from 1-5 based on how much these problems have bothered participants in the past month: 1-Not at all, 2-A little bit, 3-Moderately, 4-Quite a bit, 5-Extremely.

<b>Response</b>	<b>Statistic</b>	<b>AA</b>	<b>EA</b>
<b>MEM<sup>1</sup></b>	Range	1-5	1-5
	Mean	2.35	1.92
	SD	1.29	1.11
<b>DREAM<sup>2</sup></b>	Range	1-5	1-5
	Mean	2.17	1.71
	SD	1.28	1.04
<b>RELIVE<sup>3</sup></b>	Range	1-5	1-5
	Mean	2	1.51
	SD	1.23	0.91
<b>UPSET<sup>4</sup></b>	Range	1-5	1-5
	Mean	2.23	1.73
	SD	1.3	1.05
<b>RCTN<sup>5</sup></b>	Range	1-5	1-5
	Mean	2	1.55
	SD	1.25	0.96

1. MEM - Repeated, disturbing memories;
2. DREAM - Repeated, disturbing dreams;
3. RELIVE - Acting/feeling experience happening again;
4. UPSET - Feeling upset when reminded; and
5. RCTN - Having physical reactions to reminders.

**Table S2: Extended demographic information**

<b>European-Americans</b>	
<b>Age</b>	
18-29	1007 (0.7)
30-39	2911 (2.0)
40-49	6890 (4.7)
50-59	18581 (12.7)
60-69	64167 (43.8)
70-79	33094 (22.6)
80+	19882 (13.6)
missing	128 (0.1)
total for EA	146660 (100.0)
mean (SD)	66.6 (11.5)
median	67
<b>Sex</b>	
Male	136785 (93.3)
Female	9747 (6.6)
missing	128 (0.1)
<b>Ethnicity</b>	
HISPANIC OR LATINO	1570 (1.1)
NOT HISPANIC OR LATINO	143875 (98.1)
UNKNOWN	1086 (0.7)
missing	129 (0.1)
<b>Marital Status</b>	
Married	84307 (57.5)
Divorced	23922 (16.3)
Civil commitment	579 (0.4)
Never married	9155 (6.2)
Widowed	9973 (6.8)
Separated	1908 (1.3)
Cohabiting	3294 (2.2)
missing	13522 (9.2)
<b>Military Branch</b>	
Army	56044 (38.2)
Navy	28796 (19.6)
Air Force	22531 (15.4)
Marine Corps	12306 (8.4)
other	1998 (1.4)
multiple	11779 (8.0)
missing	15204 (10.4)
<b>Service era</b>	
Served in the military September 2001 or later	2145 (1.5)
Served in the military August 1990 to August 2001 (includes Gulf War)	4470 (3.0)
Served in the military May 1975 to July 1990	9670 (6.6)
Served in the military August 1964 to April 1975 (Vietnam era)	60941 (41.6)
Served in the military February 1955 to July 1964	13697 (9.3)
Served in the military July 1950 to January 1955 (Korean War)	11224 (7.7)
Served in the military January 1947 to June 1950	479 (0.3)
Served in the military December 1941 to December 1946 (WWII)	6314 (4.3)
Served in the military November 1941 or earlier	115 (0.1)

Multiple Services	37419 (25.5)
Missing Services	186 (0.1)
<b>total for EA</b>	<b>146660 (100.0)</b>

<b>African-Americans</b>	
<b>Age</b>	
18-29	106 (0.5)
30-39	634 (3.2)
40-49	2080 (10.4)
50-59	6119 (30.6)
60-69	7801 (39.0)
70-79	2447 (12.2)
80+	787 (3.9)
missing	9 (0.0)
total for AA	19983 (100.0)
mean (SD)	60.2 (10.7)
median	61
<b>Sex</b>	
Male	17280 (86.5)
Female	2692 (13.5)
missing	11 (0.1)
<b>Ethnicity</b>	
HISPANIC OR LATINO	263 (1.3)
NOT HISPANIC OR LATINO	19459 (97.4)
UNKNOWN	252 (1.3)
missing	9 (0.0)
<b>Marital Status</b>	
Married	7444 (37.3)
Divorced	4190 (21.0)
Civil commitment	97 (0.5)
Never married	2141 (10.7)
Widowed	1000 (5.0)
Separated	1059 (5.3)
Cohabiting	275 (1.4)
missing	3777 (18.9)
<b>Military Branch</b>	
Army	8797 (44.0)
Navy	1937 (9.7)
Air Force	2400 (12.0)
Marine Corps	1503 (7.5)
other	159 (0.8)
multiple	1435 (7.2)
missing	3911 (19.6)
<b>Service era</b>	
Served in the military September 2001 or later	445 (2.2)
Served in the military August 1990 to August 2001 (includes Gulf War)	1862 (9.3)
Served in the military May 1975 to July 1990	3599 (18.0)
Served in the military August 1964 to April 1975 (Vietnam era)	7682 (38.4)
Served in the military February 1955 to July 1964	801 (4.0)
Served in the military July 1950 to January 1955 (Korean War)	619 (3.1)
Served in the military January 1947 to June 1950	24 (0.1)
Served in the military December 1941 to December 1946 (WWII)	144 (0.7)
Served in the military November 1941 or earlier	7 (0.0)
Multiple Services	4760 (23.8)

Missing Services	40 (0.2)
<b>total for AA</b>	<b>19983 (100.0)</b>

**Table S5: Top markers in meta-analyzed EA and AA MVP samples and the replication in UKB cohort.**

rsID	CHR	BP	Closest Gene (location)	effect allele	other allele	MVP REX			UKB REX		
						<i>Beta</i>	<i>SE</i>	<i>P</i>	<i>Beta</i>	<i>SE</i>	<i>P</i>
rs7540134	1	74077588	<i>LINC02238</i> (upstream)	C	T	-0.0935	0.015882	3.93E-09	-0.0003	0.003	0.926
rs2681780	3	49897830	<i>CAMVK</i> (intron)	T	C	0.1087	0.015928	8.82E-12	0.007	0.003	<b>0.032</b>
rs12649023	4	88259008	<i>HSD17B11</i> (intron)	A	G	-0.1258	0.022135	1.32E-08	-0.011	0.004	<b>0.009</b>
rs3800872	7	2110272	<i>MAD1L1</i> (intron)	G	C	-0.1157	0.019754	4.72E-09	-0.001	0.004	0.695
rs1724409	17	43740565	<i>CRHR1</i> (intron)	T	G	-0.1182	0.017851	3.55E-11	-0.011	0.004	<b>0.002</b>
rs12458015	18	53305735	<i>TCF4</i> (intron)	C	T	0.1103	0.017038	9.60E-11	0.013	0.003	<b>9.91E-05</b>

Table S6

eQTLs tested with respect to the GWS variants identified in the EUR and trans-ancestry analysis

GTEx_gene_id	GTEx_variant_id	rsid_Gene	Meta-analysis	Protein-Coding	tss_distance	Tissue	ma_samples	ma_count	maf	slope	slope_se	P value	FDR Q
ENSG00000176349.7	7_2086814_T_C_b37	rs10235664_AC104129.1	EUR	N	208592	NUCLEUS.ACCUMBENS	60	76	0.292	-0.290	0.100	0.004	0.042
ENSG00000164850.10	7_2086814_T_C_b37	rs10235664_GPER1	EUR	Y	964970	HYPOTHALAMUS	50	65	0.301	-0.239	0.082	0.005	0.044
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	CEREBELLAR.HEMISPHERE	59	75	0.300	-0.267	0.063	4.68E-05	6.30E-04
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	CAUDATE	70	87	0.302	-0.286	0.077	3.19E-04	0.004
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	CEREBELLUM	69	86	0.279	-0.271	0.076	5.45E-04	0.007
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	CORTEX	64	79	0.290	-0.301	0.086	6.81E-04	0.008
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	NUCLEUS.ACCUMBENS	60	76	0.292	-0.338	0.099	9.24E-04	0.011
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	HIPPOCAMPUS	54	68	0.306	-0.292	0.086	0.001	0.012
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	AMYGDALA	41	49	0.278	-0.354	0.116	0.003	0.033
ENSG00000122687.13	7_2086814_T_C_b37	rs10235664_MRM2	EUR	Y	-195026	CINGULATE	51	62	0.284	-0.244	0.082	0.004	0.039
ENSG00000267325.1	18_53214865_T_C_b37	rs2123392_LINC01415	EUR	N	-234087	NUCLEUS.ACCUMBENS	78	92	0.354	-0.256	0.081	0.002	0.022
ENSG00000196628.9	18_53214865_T_C_b37	rs2123392_TCF4	EUR	N	-117153	CINGULATE	62	74	0.339	-0.261	0.090	0.005	0.046
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	CEREBELLAR.HEMISPHERE	57	65	0.260	1.192	0.074	4.66E-30	3.82E-27
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	CEREBELLUM	71	85	0.278	1.045	0.074	3.36E-27	1.38E-24
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	CAUDATE	64	74	0.259	0.902	0.107	7.50E-14	2.19E-12
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	NUCLEUS.ACCUMBENS	63	74	0.287	0.836	0.098	1.07E-13	3.09E-12
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	CORTEX	63	72	0.269	0.828	0.112	2.92E-11	6.21E-10
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	PUTAMEN	50	62	0.279	0.861	0.120	2.10E-10	4.11E-09
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	CINGULATE	45	53	0.245	0.757	0.109	7.54E-10	1.43E-08
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	FRONTAL.CORTEX	55	64	0.274	0.662	0.116	1.20E-07	2.01E-06
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	HYPOTHALAMUS	50	57	0.266	0.712	0.128	2.74E-07	4.46E-06
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	AMYGDALA	43	52	0.295	0.771	0.135	2.81E-07	4.56E-06
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	SPINAL.CORD	36	43	0.259	0.783	0.160	7.83E-06	1.13E-04
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	HIPPOCAMPUS	55	62	0.279	0.482	0.134	5.44E-04	0.007
ENSG00000261575.2	17_44257783_A_G_b37	rs2532252_AC005829.1	EUR	N	-86620	SUBSTANTIA.NIGRA	32	35	0.219	0.623	0.183	0.001	0.014
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	CEREBELLUM	71	85	0.278	1.133	0.081	6.49E-27	1.99E-24
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	NUCLEUS.ACCUMBENS	63	74	0.287	1.150	0.089	9.47E-24	1.72E-21
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	CORTEX	63	72	0.269	1.096	0.087	2.07E-23	3.51E-21
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	CAUDATE	64	74	0.259	1.082	0.092	7.94E-22	9.52E-20
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	CEREBELLAR.HEMISPHERE	57	65	0.260	1.162	0.097	2.54E-21	2.77E-19
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	PUTAMEN	50	62	0.279	1.089	0.091	2.61E-20	2.25E-18
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	CINGULATE	45	53	0.245	1.067	0.098	7.12E-18	4.11E-16
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	HIPPOCAMPUS	55	62	0.279	1.029	0.095	7.20E-18	4.11E-16
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	HYPOTHALAMUS	50	57	0.266	1.042	0.107	1.48E-15	6.01E-14
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	SPINAL.CORD	36	43	0.259	1.148	0.115	1.81E-14	6.09E-13
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	FRONTAL.CORTEX	55	64	0.274	0.923	0.114	1.62E-12	4.04E-11
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	AMYGDALA	43	52	0.295	0.964	0.121	2.72E-11	5.81E-10
ENSG00000262539.1	17_44257783_A_G_b37	rs2532252_AC005829.2	EUR	N	-80189	SUBSTANTIA.NIGRA	32	35	0.219	1.219	0.160	2.80E-10	5.42E-09
ENSG00000233175.2	17_44257783_A_G_b37	rs2532252_AC008105.1	EUR	N	938682	CEREBELLUM	71	85	0.278	-0.235	0.070	0.001	0.012
ENSG00000233175.2	17_44257783_A_G_b37	rs2532252_AC008105.1	EUR	N	938682	PUTAMEN	50	62	0.279	-0.255	0.085	0.004	0.037
ENSG00000233175.2	17_44257783_A_G_b37	rs2532252_AC008105.1	EUR	N	938682	FRONTAL.CORTEX	55	64	0.274	-0.329	0.114	0.005	0.048
ENSG00000267121.1	17_44257783_A_G_b37	rs2532252_AC008105.3	EUR	N	958628	CEREBELLUM	71	85	0.278	-0.485	0.083	4.36E-08	7.42E-07
ENSG00000267121.1	17_44257783_A_G_b37	rs2532252_AC008105.3	EUR	N	958628	CEREBELLAR.HEMISPHERE	57	65	0.260	-0.470	0.104	1.53E-05	2.17E-04
ENSG00000262879.1	17_44257783_A_G_b37	rs2532252_AC068152.1	EUR	N	919906	HYPOTHALAMUS	50	57	0.266	0.403	0.130	0.003	0.027
ENSG00000131484.3	17_44257783_A_G_b37	rs2532252_AC091132.1	EUR	N	677157	CEREBELLUM	71	85	0.278	-0.806	0.102	1.46E-12	3.68E-11
ENSG00000131484.3	17_44257783_A_G_b37	rs2532252_AC091132.1	EUR	N	677157	CEREBELLAR.HEMISPHERE	57	65	0.260	-0.764	0.119	4.21E-09	7.66E-08
ENSG00000236234.1	17_44257783_A_G_b37	rs2532252_AC091132.2	EUR	N	727573	CEREBELLUM	71	85	0.278	-0.593	0.096	1.09E-08	1.93E-07
ENSG00000236234.1	17_44257783_A_G_b37	rs2532252_AC091132.2	EUR	N	727573	CEREBELLAR.HEMISPHERE	57	65	0.260	-0.552	0.113	3.58E-06	5.32E-05
ENSG00000266918.1	17_44257783_A_G_b37	rs2532252_AC091132.3	EUR	N	648840	CEREBELLAR.HEMISPHERE	57	65	0.260	0.737	0.118	9.21E-09	1.63E-07
ENSG00000266918.1	17_44257783_A_G_b37	rs2532252_AC091132.3	EUR	N	648840	CEREBELLUM	71	85	0.278	0.561	0.105	5.05E-07	7.96E-06
ENSG00000266918.1	17_44257783_A_G_b37	rs2532252_AC091132.3	EUR	N	648840	CORTEX	63	72	0.269	0.532	0.115	1.04E-05	1.49E-04
ENSG00000267198.1	17_44257783_A_G_b37	rs2532252_AC091132.4	EUR	N	634613	CEREBELLUM	71	85	0.278	-0.400	0.114	6.57E-04	0.008
ENSG00000159314.7	17_44257783_A_G_b37	rs2532252_ARHGAP27	EUR	Y	745996	NUCLEUS.ACCUMBENS	63	74	0.287	0.427	0.078	3.02E-07	4.87E-06
ENSG00000159314.7	17_44257783_A_G_b37	rs2532252_ARHGAP27	EUR	Y	745996	CAUDATE	64	74	0.259	0.227	0.053	3.86E-05	5.23E-04
ENSG00000159314.7	17_44257783_A_G_b37	rs2532252_ARHGAP27	EUR	Y	745996	FRONTAL.CORTEX	55	64	0.274	0.319	0.094	0.001	0.012
ENSG00000159314.7	17_44257783_A_G_b37	rs2532252_ARHGAP27	EUR	Y	745996	CORTEX	63	72	0.269	0.289	0.094	0.003	0.028
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	CEREBELLUM	71	85	0.278	1.033	0.081	8.39E-24	1.61E-21
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	CEREBELLAR.HEMISPHERE	57	65	0.260	1.143	0.090	7.80E-23	1.13E-20
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	CORTEX	63	72	0.269	1.083	0.094	9.88E-21	9.71E-19
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	FRONTAL.CORTEX	55	64	0.274	1.048	0.112	3.37E-15	1.29E-13



ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	NUCLEUS.ACCUMBENS	63	74	0.287	0.933	0.107	4.45E-14	1.34E-12
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	HYPOTHALAMUS	50	57	0.266	1.045	0.125	9.17E-13	2.35E-11
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	PUTAMEN	50	62	0.279	0.829	0.105	7.63E-12	1.74E-10
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	CINGULATE	45	53	0.245	0.890	0.119	5.95E-11	1.22E-09
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	CAUDATE	64	74	0.259	0.712	0.106	5.51E-10	1.05E-08
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	AMYGDALA	43	52	0.295	0.876	0.146	8.62E-08	1.45E-06
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	HIPPOCAMPUS	55	62	0.279	0.640	0.118	4.68E-07	7.40E-06
ENSG00000185829.11	17_44257783_A_G_b37	rs2532252_ARL17A	EUR	Y	-399305	SPINAL.CORD	36	43	0.259	0.532	0.150	7.31E-04	0.008
ENSG00000120088.10	17_44257783_A_G_b37	rs2532252_CRHR1	EUR	Y	558516	HIPPOCAMPUS	55	62	0.279	-0.270	0.075	4.94E-04	0.006
ENSG00000120088.10	17_44257783_A_G_b37	rs2532252_CRHR1	EUR	Y	558516	PUTAMEN	50	62	0.279	-0.332	0.098	0.001	0.012
ENSG00000120088.10	17_44257783_A_G_b37	rs2532252_CRHR1	EUR	Y	558516	FRONTAL.CORTEX	55	64	0.274	0.173	0.054	0.002	0.020
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	CORTEX	63	72	0.269	1.079	0.096	2.58E-20	2.25E-18
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	PUTAMEN	50	62	0.279	0.977	0.097	2.43E-16	1.12E-14
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	NUCLEUS.ACCUMBENS	63	74	0.287	0.956	0.107	1.09E-14	3.85E-13
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	HIPPOCAMPUS	55	62	0.279	0.938	0.103	2.70E-14	8.67E-13
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	CAUDATE	64	74	0.259	0.835	0.100	1.20E-13	3.43E-12
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	CINGULATE	45	53	0.245	0.932	0.120	1.31E-11	2.91E-10
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	HYPOTHALAMUS	50	57	0.266	0.917	0.118	1.35E-11	2.98E-10
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	SPINAL.CORD	36	43	0.259	1.016	0.124	2.16E-11	4.68E-10
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	CEREBELLUM	71	85	0.278	0.594	0.082	6.09E-11	1.25E-09
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	FRONTAL.CORTEX	55	64	0.274	0.827	0.116	2.08E-10	4.09E-09
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	AMYGDALA	43	52	0.295	0.683	0.115	1.07E-07	1.79E-06
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	CEREBELLAR.HEMISPHERE	57	65	0.260	0.607	0.110	2.51E-07	4.13E-06
ENSG00000264070.1	17_44257783_A_G_b37	rs2532252_DND1P1	EUR	N	594546	SUBSTANTIA.NIGRA	32	35	0.219	0.991	0.181	9.58E-07	1.49E-05
ENSG00000232300.1	17_44257783_A_G_b37	rs2532252_FAM215B	EUR	N	-382378	CEREBELLUM	71	85	0.278	0.744	0.093	1.13E-12	2.86E-11
ENSG00000232300.1	17_44257783_A_G_b37	rs2532252_FAM215B	EUR	N	-382378	CEREBELLAR.HEMISPHERE	57	65	0.260	0.831	0.121	4.70E-10	9.02E-09
ENSG00000232300.1	17_44257783_A_G_b37	rs2532252_FAM215B	EUR	N	-382378	NUCLEUS.ACCUMBENS	63	74	0.287	0.683	0.124	2.73E-07	4.46E-06
ENSG00000232300.1	17_44257783_A_G_b37	rs2532252_FAM215B	EUR	N	-382378	HYPOTHALAMUS	50	57	0.266	0.433	0.151	0.005	0.048
ENSG00000184922.9	17_44257783_A_G_b37	rs2532252_FMNL1	EUR	Y	958193	CEREBELLUM	71	85	0.278	-0.659	0.071	1.13E-15	4.71E-14
ENSG00000184922.9	17_44257783_A_G_b37	rs2532252_FMNL1	EUR	Y	958193	CEREBELLAR.HEMISPHERE	57	65	0.260	-0.671	0.082	6.73E-13	1.76E-11
ENSG00000184922.9	17_44257783_A_G_b37	rs2532252_FMNL1	EUR	Y	958193	FRONTAL.CORTEX	55	64	0.274	0.205	0.063	0.001	0.016
ENSG00000120071.8	17_44257783_A_G_b37	rs2532252_KANSL1	EUR	Y	-44950	CEREBELLUM	71	85	0.278	0.348	0.088	1.23E-04	0.002
ENSG00000120071.8	17_44257783_A_G_b37	rs2532252_KANSL1	EUR	Y	-44950	CEREBELLAR.HEMISPHERE	57	65	0.260	0.320	0.093	8.31E-04	0.010
ENSG00000120071.8	17_44257783_A_G_b37	rs2532252_KANSL1	EUR	Y	-44950	CAUDATE	64	74	0.259	0.262	0.079	0.001	0.014
ENSG00000120071.8	17_44257783_A_G_b37	rs2532252_KANSL1	EUR	Y	-44950	CORTEX	63	72	0.269	0.299	0.101	0.004	0.039
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	CEREBELLUM	71	85	0.278	1.098	0.076	6.39E-28	2.86E-25
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	CORTEX	63	72	0.269	1.094	0.077	3.74E-27	1.39E-24
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	NUCLEUS.ACCUMBENS	63	74	0.287	0.991	0.077	2.24E-23	3.67E-21
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	CEREBELLAR.HEMISPHERE	57	65	0.260	0.996	0.082	1.17E-21	1.34E-19
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	PUTAMEN	50	62	0.279	1.033	0.087	4.14E-20	3.45E-18
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	CAUDATE	64	74	0.259	0.998	0.092	1.06E-19	8.27E-18
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	HIPPOCAMPUS	55	62	0.279	1.069	0.096	1.77E-18	1.18E-16
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	HYPOTHALAMUS	50	57	0.266	1.051	0.101	8.43E-17	4.14E-15
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	FRONTAL.CORTEX	55	64	0.274	0.932	0.095	4.12E-16	1.81E-14
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	SPINAL.CORD	36	43	0.259	1.041	0.098	1.93E-15	7.59E-14
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	CINGULATE	45	53	0.245	0.878	0.092	4.03E-15	1.51E-13
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	SUBSTANTIA.NIGRA	32	35	0.219	1.125	0.114	4.67E-14	1.39E-12
ENSG00000214401.4	17_44257783_A_G_b37	rs2532252_KANSL1-AS1	EUR	N	-13159	AMYGDALA	43	52	0.295	0.811	0.107	1.71E-10	3.39E-09
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	CORTEX	63	72	0.269	0.644	0.058	6.14E-20	4.95E-18
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	NUCLEUS.ACCUMBENS	63	74	0.287	0.623	0.061	1.63E-17	8.90E-16
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	PUTAMEN	50	62	0.279	0.722	0.069	4.04E-17	2.14E-15
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	CAUDATE	64	74	0.259	0.734	0.075	5.86E-17	3.00E-15
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	SPINAL.CORD	36	43	0.259	1.011	0.088	7.53E-17	3.74E-15
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	CINGULATE	45	53	0.245	0.652	0.071	2.35E-14	7.70E-13
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	AMYGDALA	43	52	0.295	0.863	0.090	4.12E-14	1.27E-12
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	HIPPOCAMPUS	55	62	0.279	0.697	0.080	1.64E-13	4.63E-12
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	HYPOTHALAMUS	50	57	0.266	0.730	0.086	5.80E-13	1.53E-11
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	CEREBELLUM	71	85	0.278	0.548	0.070	1.97E-12	4.84E-11
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	FRONTAL.CORTEX	55	64	0.274	0.464	0.060	1.32E-11	2.92E-10
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	SUBSTANTIA.NIGRA	32	35	0.219	0.808	0.126	2.91E-08	5.00E-07
ENSG00000204650.9	17_44257783_A_G_b37	rs2532252_LINC02210	EUR	N	560089	CEREBELLAR.HEMISPHERE	57	65	0.260	0.376	0.068	2.67E-07	4.37E-06

ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	CEREBELLAR.HEMISPHERE	57	65	0.260	1.017	0.106	5.58E-16	2.41E-14
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	CEREBELLUM	71	85	0.278	0.898	0.097	1.51E-15	6.08E-14
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	HYPOTHALAMUS	50	57	0.266	0.860	0.145	6.36E-08	1.08E-06
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	SPINAL.CORD	36	43	0.259	0.883	0.151	2.04E-07	3.38E-06
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	CAUDATE	64	74	0.259	0.645	0.120	3.55E-07	5.68E-06
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	FRONTAL.CORTEX	55	64	0.274	0.666	0.131	1.68E-06	2.56E-05
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	CORTEX	63	72	0.269	0.585	0.120	3.36E-06	5.02E-05
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	CINGULATE	45	53	0.245	0.640	0.129	3.36E-06	5.02E-05
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	PUTAMEN	50	62	0.279	0.631	0.132	6.60E-06	9.63E-05
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	AMYGDALA	43	52	0.295	0.770	0.158	6.79E-06	9.87E-05
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	HIPPOCAMPUS	55	62	0.279	0.582	0.129	2.02E-05	2.84E-04
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	NUCLEUS.ACCUMBENS	63	74	0.287	0.550	0.128	3.73E-05	5.06E-04
ENSG00000176681.10	17_44257783_A_G_b37	rs2532252_LRRC37A	EUR	Y	-112316	SUBSTANTIA.NIGRA	32	35	0.219	0.655	0.207	0.002	0.026
ENSG00000263142.1	17_44257783_A_G_b37	rs2532252_LRRC37A1P	EUR	N	-836776	CEREBELLUM	71	85	0.278	-0.438	0.102	3.62E-05	4.96E-04
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	CEREBELLUM	71	85	0.278	1.089	0.069	5.44E-31	1.34E-27
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	CEREBELLAR.HEMISPHERE	57	65	0.260	1.280	0.078	1.90E-30	2.33E-27
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	CORTEX	63	72	0.269	1.059	0.087	2.13E-22	2.99E-20
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	CAUDATE	64	74	0.259	1.019	0.086	5.28E-22	6.65E-20
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	NUCLEUS.ACCUMBENS	63	74	0.287	1.057	0.091	8.00E-21	8.02E-19
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	CINGULATE	45	53	0.245	1.153	0.094	1.40E-20	1.32E-18
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	HYPOTHALAMUS	50	57	0.266	1.199	0.103	1.88E-19	1.40E-17
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	PUTAMEN	50	62	0.279	1.013	0.098	6.65E-17	3.37E-15
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	FRONTAL.CORTEX	55	64	0.274	1.031	0.102	7.14E-17	3.58E-15
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	HIPPOCAMPUS	55	62	0.279	0.969	0.097	3.84E-16	1.72E-14
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	SPINAL.CORD	36	43	0.259	1.130	0.106	1.64E-15	6.50E-14
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	AMYGDALA	43	52	0.295	1.059	0.106	9.16E-15	3.31E-13
ENSG00000238083.3	17_44257783_A_G_b37	rs2532252_LRRC37A2	EUR	Y	-331094	SUBSTANTIA.NIGRA	32	35	0.219	1.057	0.128	2.40E-11	5.15E-10
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	CEREBELLAR.HEMISPHERE	57	65	0.260	-1.086	0.064	1.65E-31	8.11E-28
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	CEREBELLUM	71	85	0.278	-1.062	0.068	1.61E-30	2.35E-27
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	CORTEX	63	72	0.269	-1.066	0.070	4.72E-29	2.58E-26
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	HYPOTHALAMUS	50	57	0.266	-1.159	0.070	1.71E-28	8.40E-26
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	NUCLEUS.ACCUMBENS	63	74	0.287	-1.012	0.070	4.24E-27	1.39E-24
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	CAUDATE	64	74	0.259	-0.956	0.071	6.33E-26	1.83E-23
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	HIPPOCAMPUS	55	62	0.279	-1.061	0.082	3.09E-22	4.22E-20
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	PUTAMEN	50	62	0.279	-1.096	0.086	9.70E-22	1.14E-19
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	CINGULATE	45	53	0.245	-1.094	0.087	3.63E-21	3.88E-19
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	FRONTAL.CORTEX	55	64	0.274	-0.997	0.083	6.25E-21	6.40E-19
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	SPINAL.CORD	36	43	0.259	-1.288	0.092	1.01E-20	9.73E-19
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	AMYGDALA	43	52	0.295	-1.129	0.095	5.98E-18	3.67E-16
ENSG00000214425.2	17_44257783_A_G_b37	rs2532252_LRRC37A4P	EUR	N	630082	SUBSTANTIA.NIGRA	32	35	0.219	-1.241	0.123	2.07E-14	6.87E-13
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	CEREBELLAR.HEMISPHERE	57	65	0.260	1.114	0.087	3.50E-23	5.55E-21
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	CEREBELLUM	71	85	0.278	1.030	0.086	5.10E-22	6.60E-20
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	CAUDATE	64	74	0.259	1.052	0.097	1.61E-19	1.22E-17
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	CORTEX	63	72	0.269	1.051	0.102	4.32E-18	2.72E-16
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	HIPPOCAMPUS	55	62	0.279	1.070	0.103	5.32E-17	2.75E-15
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	CINGULATE	45	53	0.245	1.015	0.113	4.55E-14	1.36E-12
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	NUCLEUS.ACCUMBENS	63	74	0.287	0.960	0.112	6.74E-14	1.98E-12
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	PUTAMEN	50	62	0.279	0.986	0.112	1.00E-13	2.91E-12
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	FRONTAL.CORTEX	55	64	0.274	0.997	0.117	2.12E-13	5.95E-12
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	HYPOTHALAMUS	50	57	0.266	0.938	0.116	3.45E-12	8.23E-11
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	SUBSTANTIA.NIGRA	32	35	0.219	1.379	0.170	4.09E-11	8.55E-10
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	AMYGDALA	43	52	0.295	0.929	0.123	1.90E-10	3.75E-09
ENSG00000262500.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P1	EUR	N	-63189	SPINAL.CORD	36	43	0.259	0.987	0.136	7.61E-10	1.43E-08
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	CEREBELLUM	71	85	0.278	1.034	0.084	5.26E-23	8.08E-21
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	CEREBELLAR.HEMISPHERE	57	65	0.260	1.093	0.091	2.41E-21	2.69E-19
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	CORTEX	63	72	0.269	1.106	0.099	4.22E-20	3.46E-18
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	PUTAMEN	50	62	0.279	1.037	0.099	4.16E-17	2.18E-15
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	HIPPOCAMPUS	55	62	0.279	1.064	0.107	3.34E-16	1.51E-14
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	CAUDATE	64	74	0.259	0.977	0.104	4.12E-16	1.81E-14
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	CINGULATE	45	53	0.245	1.035	0.105	9.35E-16	3.93E-14
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	HYPOTHALAMUS	50	57	0.266	1.079	0.118	2.29E-14	7.55E-13

ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	NUCLEUS.ACCUMBENS	63	74	0.287	0.956	0.109	2.76E-14	8.81E-13
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	AMYGDALA	43	52	0.295	1.000	0.109	2.52E-13	7.04E-12
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	SPINAL.CORD	36	43	0.259	1.077	0.119	7.56E-13	1.96E-11
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	SUBSTANTIA.NIGRA	32	35	0.219	1.438	0.163	2.54E-12	6.15E-11
ENSG00000263503.1	17_44257783_A_G_b37	rs2532252_MAPK8IP1P2	EUR	N	578077	FRONTAL.CORTEX	55	64	0.274	0.914	0.117	7.96E-12	1.80E-10
ENSG00000186868.11	17_44257783_A_G_b37	rs2532252_MAPT	EUR	Y	286035	CEREBELLUM	71	85	0.278	-0.296	0.064	9.07E-06	1.30E-04
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	NUCLEUS.ACCUMBENS	63	74	0.287	-0.618	0.116	5.53E-07	8.68E-06
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	CEREBELLUM	71	85	0.278	0.481	0.094	1.30E-06	2.01E-05
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	AMYGDALA	43	52	0.295	-0.401	0.102	2.10E-04	0.003
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	PUTAMEN	50	62	0.279	-0.459	0.123	3.51E-04	0.004
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	SPINAL.CORD	36	43	0.259	-0.478	0.139	0.001	0.012
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	HYPOTHALAMUS	50	57	0.266	-0.350	0.109	0.002	0.020
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	FRONTAL.CORTEX	55	64	0.274	-0.371	0.120	0.003	0.027
ENSG00000264589.1	17_44257783_A_G_b37	rs2532252_MAPT-AS1	EUR	N	284817	CINGULATE	45	53	0.245	-0.303	0.104	0.004	0.043
ENSG00000073969.14	17_44257783_A_G_b37	rs2532252_NSF	EUR	Y	-410252	CEREBELLUM	71	85	0.278	-0.179	0.041	2.75E-05	3.84E-04
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	CEREBELLUM	71	85	0.278	-0.899	0.063	4.11E-27	1.39E-24
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	CEREBELLAR.HEMISPHERE	57	65	0.260	-0.776	0.070	3.08E-19	2.23E-17
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	CORTEX	63	72	0.269	0.448	0.076	4.20E-08	7.17E-07
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	FRONTAL.CORTEX	55	64	0.274	0.350	0.082	4.60E-05	6.21E-04
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	NUCLEUS.ACCUMBENS	63	74	0.287	0.317	0.077	7.32E-05	9.75E-04
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	PUTAMEN	50	62	0.279	0.316	0.077	8.65E-05	0.001
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	CINGULATE	45	53	0.245	0.282	0.070	1.25E-04	0.002
ENSG00000225190.4	17_44257783_A_G_b37	rs2532252_PLEKHM1	EUR	Y	689668	CAUDATE	64	74	0.259	0.202	0.062	0.001	0.016
ENSG00000204652.5	17_44257783_A_G_b37	rs2532252_RPS26P8	EUR	N	571874	SPINAL.CORD	36	43	0.259	0.675	0.168	1.62E-04	0.002
ENSG00000185294.5	17_44257783_A_G_b37	rs2532252_SPPL2C	EUR	Y	335527	CEREBELLUM	71	85	0.278	0.665	0.069	1.67E-16	7.82E-15
ENSG00000185294.5	17_44257783_A_G_b37	rs2532252_SPPL2C	EUR	Y	335527	CEREBELLAR.HEMISPHERE	57	65	0.260	0.599	0.083	8.98E-11	1.80E-09
ENSG00000185294.5	17_44257783_A_G_b37	rs2532252_SPPL2C	EUR	Y	335527	FRONTAL.CORTEX	55	64	0.274	0.407	0.109	3.35E-04	0.004
ENSG00000185294.5	17_44257783_A_G_b37	rs2532252_SPPL2C	EUR	Y	335527	CORTEX	63	72	0.269	0.293	0.098	0.003	0.034
ENSG0000014520.10	3_49898000_A_G_b37	rs2777888_AMT	EUR	Y	437814	HYPOTHALAMUS	76	106	0.491	-0.225	0.063	5.83E-04	0.007
ENSG00000164076.12	3_49898000_A_G_b37	rs2777888_CAMKV	EUR	Y	-9655	NUCLEUS.ACCUMBENS	94	128	0.492	0.109	0.032	0.001	0.012
ENSG00000173402.7	3_49898000_A_G_b37	rs2777888_DAG1	EUR	Y	391854	CEREBELLAR.HEMISPHERE	89	123	0.492	-0.126	0.043	0.004	0.043
ENSG00000233276.2	3_49898000_A_G_b37	rs2777888_GPX1	EUR	Y	501967	CEREBELLUM	111	154	0.500	0.172	0.055	0.002	0.023
ENSG00000186792.11	3_49898000_A_G_b37	rs2777888_HYAL3	EUR	Y	-435204	NUCLEUS.ACCUMBENS	94	128	0.492	-0.288	0.074	1.57E-04	0.002
ENSG00000186792.11	3_49898000_A_G_b37	rs2777888_HYAL3	EUR	Y	-435204	CEREBELLUM	111	154	0.500	-0.262	0.075	7.04E-04	0.008
ENSG00000186792.11	3_49898000_A_G_b37	rs2777888_HYAL3	EUR	Y	-435204	SUBSTANTIA.NIGRA	55	79	0.494	-0.235	0.079	0.004	0.041
ENSG00000185614.4	3_49898000_A_G_b37	rs2777888_INKA1	EUR	N	57313	CEREBELLUM	111	154	0.500	0.470	0.060	1.70E-12	4.22E-11
ENSG00000185614.4	3_49898000_A_G_b37	rs2777888_INKA1	EUR	N	57313	CEREBELLAR.HEMISPHERE	89	123	0.492	0.413	0.064	3.98E-09	7.27E-08
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	CEREBELLUM	111	154	0.500	0.482	0.067	5.17E-11	1.07E-09
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	CORTEX	95	133	0.489	0.445	0.088	1.55E-06	2.37E-05
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	CEREBELLAR.HEMISPHERE	89	123	0.492	0.361	0.073	3.25E-06	4.88E-05
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	CAUDATE	107	143	0.497	0.362	0.074	3.49E-06	5.20E-05
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	CINGULATE	79	104	0.477	0.385	0.099	2.06E-04	0.003
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	NUCLEUS.ACCUMBENS	94	128	0.492	0.304	0.083	4.12E-04	0.005
ENSG00000164078.8	3_49898000_A_G_b37	rs2777888_MST1R	EUR	Y	-43277	HYPOTHALAMUS	76	106	0.491	0.304	0.099	0.003	0.029
ENSG00000243477.1	3_49898000_A_G_b37	rs2777888_NAA80	EUR	Y	-438852	CINGULATE	79	104	0.477	0.161	0.052	0.003	0.027
ENSG00000068028.13	3_49898000_A_G_b37	rs2777888_RASSF1	EUR	Y	-480343	CEREBELLUM	111	154	0.500	0.167	0.058	0.005	0.045
ENSG00000003756.12	3_49898000_A_G_b37	rs2777888_RBM5	EUR	Y	-228341	PUTAMEN	79	108	0.486	-0.187	0.062	0.003	0.035
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	CEREBELLUM	111	154	0.500	-0.633	0.041	4.02E-30	3.82E-27
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	NUCLEUS.ACCUMBENS	94	128	0.492	-0.473	0.048	1.14E-16	5.44E-15
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	CINGULATE	79	104	0.477	-0.455	0.048	3.79E-15	1.43E-13
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	CORTEX	95	133	0.489	-0.575	0.065	1.52E-14	5.26E-13
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	CEREBELLAR.HEMISPHERE	89	123	0.492	-0.397	0.045	2.63E-14	8.50E-13
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	PUTAMEN	79	108	0.486	-0.511	0.060	4.14E-13	1.13E-11
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	CAUDATE	107	143	0.497	-0.416	0.056	1.40E-11	3.07E-10
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	FRONTAL.CORTEX	86	118	0.500	-0.420	0.056	2.96E-11	6.24E-10
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	SPINAL.CORD	59	81	0.488	-0.481	0.072	8.15E-09	1.45E-07
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	HIPPOCAMPUS	76	104	0.468	-0.248	0.045	4.41E-07	7.01E-06
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	SUBSTANTIA.NIGRA	55	79	0.494	-0.303	0.055	7.74E-07	1.21E-05
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	HYPOTHALAMUS	76	106	0.491	-0.295	0.065	2.00E-05	2.82E-04
ENSG000000004534.10	3_49898000_A_G_b37	rs2777888_RBM6	EUR	Y	-79440	AMYGDALA	64	88	0.500	-0.289	0.068	7.22E-05	9.64E-04
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	CEREBELLUM	111	154	0.500	0.285	0.043	1.28E-09	2.39E-08

ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	HYPOTHALAMUS	76	106	0.491	0.187	0.039	6.47E-06	9.46E-05
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	CAUDATE	107	143	0.497	0.142	0.031	8.92E-06	1.28E-04
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	CEREBELLAR.HEMISPHERE	89	123	0.492	0.209	0.048	2.78E-05	3.86E-04
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	NUCLEUS.ACCUMBENS	94	128	0.492	0.161	0.037	3.38E-05	4.65E-04
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	CORTEX	95	133	0.489	0.153	0.038	1.00E-04	0.001
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	CINGULATE	79	104	0.477	0.133	0.034	2.16E-04	0.003
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	FRONTAL.CORTEX	86	118	0.500	0.111	0.031	6.48E-04	0.008
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	PUTAMEN	79	108	0.486	0.108	0.033	0.002	0.019
ENSG00000164068.11	3_49898000_A_G_b37	rs2777888_RNF123	EUR	Y	171065	SUBSTANTIA.NIGRA	55	79	0.494	0.162	0.054	0.004	0.041
ENSG00000235016.1	3_49898000_A_G_b37	rs2777888_SEMA3F-AS1	EUR	N	-295518	CEREBELLAR.HEMISPHERE	89	123	0.492	0.294	0.077	2.23E-04	0.003
ENSG00000114316.8	3_49898000_A_G_b37	rs2777888_USP4	EUR	Y	519855	NUCLEUS.ACCUMBENS	94	128	0.492	-0.243	0.075	0.002	0.018
ENSG00000272918.1	7_104907066_G_C_b37	rs67529088_AC005070.3	EUR	N	161181	SUBSTANTIA.NIGRA	57	70	0.438	0.391	0.109	6.97E-04	0.008
ENSG00000135250.12	7_104907066_G_C_b37	rs67529088_SRPK2	EUR	Y	-132689	PUTAMEN	81	106	0.477	-0.124	0.038	0.002	0.017
ENSG00000251411.1	4_88281182_G_A_b37	rs7688962_AC093827.3	EUR	N	445212	PUTAMEN	44	49	0.221	-0.447	0.133	0.001	0.013
ENSG00000267325.1	18_53305735_T_C_b37	rs12458015_LINCO1415	TRANS	N	-143217	NUCLEUS.ACCUMBENS	73	86	0.336	-0.238	0.082	0.005	0.044
ENSG00000196628.9	18_53305735_T_C_b37	rs12458015_TCF4	TRANS	Y	-26283	CINGULATE	60	71	0.329	-0.271	0.090	0.003	0.034
ENSG00000251411.1	4_88259008_G_A_b37	rs12649023_AC093827.3	TRANS	N	423038	PUTAMEN	40	42	0.189	-0.472	0.149	0.002	0.022
ENSG00000267344.1	17_43740565_G_T_b37	rs1724409_AC003070.1	TRANS	N	266174	CEREBELLUM	82	102	0.331	0.326	0.113	0.005	0.046
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	CEREBELLUM	82	102	0.331	-0.970	0.075	2.24E-24	5.24E-22
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.974	0.084	1.71E-20	1.55E-18
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	CAUDATE	76	92	0.319	-0.827	0.102	4.66E-13	1.27E-11
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	NUCLEUS.ACCUMBENS	74	91	0.350	-0.763	0.095	1.52E-12	3.81E-11
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	CORTEX	72	89	0.327	-0.791	0.103	5.63E-12	1.31E-10
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	PUTAMEN	60	75	0.338	-0.858	0.115	4.90E-11	1.02E-09
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	CINGULATE	54	66	0.303	-0.685	0.110	1.55E-08	2.71E-07
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	FRONTAL.CORTEX	66	82	0.347	-0.593	0.110	4.62E-07	7.32E-06
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	HYPOTHALAMUS	59	72	0.333	-0.662	0.129	1.64E-06	2.50E-05
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	AMYGDALA	48	61	0.347	-0.625	0.125	4.68E-06	6.91E-05
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	SPINAL.CORD	42	51	0.307	-0.723	0.162	3.50E-05	4.81E-04
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	SUBSTANTIA.NIGRA	40	47	0.294	-0.686	0.159	6.04E-05	8.11E-04
ENSG00000261575.2	17_43740565_G_T_b37	rs1724409_AC005829.1	TRANS	N	-603838	HIPPOCAMPUS	63	77	0.347	-0.504	0.126	1.32E-04	0.002
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	CEREBELLUM	82	102	0.331	-1.050	0.082	4.88E-24	1.04E-21
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	NUCLEUS.ACCUMBENS	74	91	0.350	-1.037	0.090	1.73E-20	1.55E-18
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	CAUDATE	76	92	0.319	-0.970	0.091	4.01E-19	2.82E-17
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	CORTEX	72	89	0.327	-0.926	0.090	5.09E-18	3.17E-16
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	PUTAMEN	60	75	0.338	-1.013	0.094	6.57E-18	3.89E-16
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.989	0.097	3.23E-17	1.73E-15
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	CINGULATE	54	66	0.303	-0.965	0.103	8.66E-15	3.15E-13
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	FRONTAL.CORTEX	66	82	0.347	-0.891	0.104	1.50E-13	4.26E-12
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	HIPPOCAMPUS	63	77	0.347	-0.874	0.102	3.50E-13	9.66E-12
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	HYPOTHALAMUS	59	72	0.333	-0.959	0.113	5.02E-13	1.35E-11
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	AMYGDALA	48	61	0.347	-0.894	0.103	1.77E-12	4.37E-11
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	SPINAL.CORD	42	51	0.307	-1.057	0.125	6.88E-12	1.58E-10
ENSG00000262539.1	17_43740565_G_T_b37	rs1724409_AC005829.2	TRANS	N	-597407	SUBSTANTIA.NIGRA	40	47	0.294	-1.013	0.157	2.58E-08	4.45E-07
ENSG00000233175.2	17_43740565_G_T_b37	rs1724409_AC008105.1	TRANS	N	421464	CEREBELLUM	82	102	0.331	0.245	0.067	3.62E-04	0.004
ENSG00000233175.2	17_43740565_G_T_b37	rs1724409_AC008105.1	TRANS	N	421464	SUBSTANTIA.NIGRA	40	47	0.294	0.322	0.087	4.48E-04	0.005
ENSG00000233175.2	17_43740565_G_T_b37	rs1724409_AC008105.1	TRANS	N	421464	CORTEX	72	89	0.327	0.333	0.098	8.81E-04	0.010
ENSG00000267121.1	17_43740565_G_T_b37	rs1724409_AC008105.3	TRANS	N	441410	CEREBELLUM	82	102	0.331	0.440	0.081	2.82E-07	4.56E-06
ENSG00000267121.1	17_43740565_G_T_b37	rs1724409_AC008105.3	TRANS	N	441410	CEREBELLAR.HEMISPHERE	64	80	0.320	0.417	0.096	3.20E-05	4.43E-04
ENSG00000267334.1	17_43740565_G_T_b37	rs1724409_AC015936.1	TRANS	N	715285	SPINAL.CORD	42	51	0.307	-0.603	0.167	6.09E-04	0.007
ENSG00000131484.3	17_43740565_G_T_b37	rs1724409_AC091132.1	TRANS	N	159939	CEREBELLUM	82	102	0.331	0.750	0.099	1.01E-11	2.26E-10
ENSG00000131484.3	17_43740565_G_T_b37	rs1724409_AC091132.1	TRANS	N	159939	CEREBELLAR.HEMISPHERE	64	80	0.320	0.674	0.111	2.17E-08	3.76E-07
ENSG00000236234.1	17_43740565_G_T_b37	rs1724409_AC091132.2	TRANS	N	210355	CEREBELLUM	82	102	0.331	0.562	0.093	1.90E-08	3.30E-07
ENSG00000236234.1	17_43740565_G_T_b37	rs1724409_AC091132.2	TRANS	N	210355	CEREBELLAR.HEMISPHERE	64	80	0.320	0.435	0.107	8.77E-05	0.001
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.753	0.103	6.49E-11	1.32E-09
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	CEREBELLUM	82	102	0.331	-0.585	0.099	3.73E-08	6.39E-07
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	CORTEX	72	89	0.327	-0.443	0.109	8.96E-05	0.001
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	CAUDATE	76	92	0.319	-0.405	0.115	6.27E-04	0.007
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	AMYGDALA	48	61	0.347	-0.460	0.141	0.002	0.019
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	NUCLEUS.ACCUMBENS	74	91	0.350	-0.389	0.122	0.002	0.021
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	CINGULATE	54	66	0.303	-0.379	0.120	0.002	0.024

ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	FRONTAL.CORTEX	66	82	0.347	-0.362	0.124	0.004	0.044
ENSG00000266918.1	17_43740565_G_T_b37	rs1724409_AC091132.3	TRANS	N	131622	PUTAMEN	60	75	0.338	-0.356	0.124	0.005	0.049
ENSG00000181513.10	17_43740565_G_T_b37	rs1724409_ACB4	TRANS	Y	530598	CEREBELLUM	82	102	0.331	0.194	0.053	3.68E-04	0.005
ENSG00000159314.7	17_43740565_G_T_b37	rs1724409_ARHGAP27	TRANS	Y	228778	NUCLEUS.ACCUMBENS	74	91	0.350	-0.379	0.075	1.95E-06	2.96E-05
ENSG00000159314.7	17_43740565_G_T_b37	rs1724409_ARHGAP27	TRANS	Y	228778	CAUDATE	76	92	0.319	-0.193	0.051	2.23E-04	0.003
ENSG00000159314.7	17_43740565_G_T_b37	rs1724409_ARHGAP27	TRANS	Y	228778	CORTEX	72	89	0.327	-0.276	0.087	0.002	0.021
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	CEREBELLUM	82	102	0.331	-1.002	0.077	1.87E-24	4.60E-22
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	CEREBELLAR.HEMISPHERE	64	80	0.320	-1.064	0.081	8.53E-24	1.61E-21
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	CORTEX	72	89	0.327	-0.980	0.090	2.51E-19	1.84E-17
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	FRONTAL.CORTEX	66	82	0.347	-1.034	0.099	1.39E-17	7.68E-16
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	NUCLEUS.ACCUMBENS	74	91	0.350	-0.938	0.097	2.93E-16	1.33E-14
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	HYPOTHALAMUS	59	72	0.333	-1.061	0.120	1.15E-13	3.31E-12
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	CAUDATE	76	92	0.319	-0.724	0.096	1.01E-11	2.26E-10
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	CINGULATE	54	66	0.303	-0.861	0.116	6.59E-11	1.33E-09
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	PUTAMEN	60	75	0.338	-0.758	0.106	2.24E-10	4.37E-09
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	AMYGDALA	48	61	0.347	-0.859	0.122	1.39E-09	2.59E-08
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	HIPPOCAMPUS	63	77	0.347	-0.586	0.114	1.54E-06	2.37E-05
ENSG00000185829.11	17_43740565_G_T_b37	rs1724409_ARL17A	TRANS	Y	-916523	SPINAL.CORD	42	51	0.307	-0.545	0.146	4.32E-04	0.005
ENSG00000120088.10	17_43740565_G_T_b37	rs1724409_CRHR1	TRANS	Y	41298	PUTAMEN	60	75	0.338	0.361	0.093	2.15E-04	0.003
ENSG00000120088.10	17_43740565_G_T_b37	rs1724409_CRHR1	TRANS	Y	41298	HIPPOCAMPUS	63	77	0.347	0.245	0.072	9.55E-04	0.011
ENSG00000120088.10	17_43740565_G_T_b37	rs1724409_CRHR1	TRANS	Y	41298	NUCLEUS.ACCUMBENS	74	91	0.350	0.235	0.079	0.004	0.037
ENSG00000120088.10	17_43740565_G_T_b37	rs1724409_CRHR1	TRANS	Y	41298	FRONTAL.CORTEX	66	82	0.347	-0.148	0.051	0.005	0.045
ENSG00000120088.10	17_43740565_G_T_b37	rs1724409_CRHR1	TRANS	Y	41298	SPINAL.CORD	42	51	0.307	0.276	0.094	0.005	0.045
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	CORTEX	72	89	0.327	-0.979	0.091	4.25E-19	2.94E-17
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	PUTAMEN	60	75	0.338	-0.866	0.103	5.66E-13	1.50E-11
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	CAUDATE	76	92	0.319	-0.766	0.095	7.27E-13	1.89E-11
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	CINGULATE	54	66	0.303	-0.922	0.114	3.45E-12	8.23E-11
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	FRONTAL.CORTEX	66	82	0.347	-0.829	0.104	3.47E-12	8.24E-11
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	HYPOTHALAMUS	59	72	0.333	-0.916	0.115	6.60E-12	1.52E-10
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	HIPPOCAMPUS	63	77	0.347	-0.801	0.107	5.24E-11	1.08E-09
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	NUCLEUS.ACCUMBENS	74	91	0.350	-0.793	0.110	7.04E-11	1.42E-09
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	SPINAL.CORD	42	51	0.307	-0.958	0.128	3.54E-10	6.82E-09
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	CEREBELLUM	82	102	0.331	-0.538	0.081	1.14E-09	2.14E-08
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.639	0.096	1.48E-09	2.74E-08
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	AMYGDALA	48	61	0.347	-0.672	0.096	1.66E-09	3.06E-08
ENSG00000264070.1	17_43740565_G_T_b37	rs1724409_DND1P1	TRANS	N	77328	SUBSTANTIA.NIGRA	40	47	0.294	-0.902	0.164	9.57E-07	1.49E-05
ENSG00000232300.1	17_43740565_G_T_b37	rs1724409_FAM215B	TRANS	N	-899596	CEREBELLUM	82	102	0.331	-0.759	0.087	1.74E-14	5.94E-13
ENSG00000232300.1	17_43740565_G_T_b37	rs1724409_FAM215B	TRANS	N	-899596	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.719	0.114	6.46E-09	1.16E-07
ENSG00000232300.1	17_43740565_G_T_b37	rs1724409_FAM215B	TRANS	N	-899596	NUCLEUS.ACCUMBENS	74	91	0.350	-0.703	0.115	1.56E-08	2.72E-07
ENSG00000232300.1	17_43740565_G_T_b37	rs1724409_FAM215B	TRANS	N	-899596	HYPOTHALAMUS	59	72	0.333	-0.512	0.145	6.89E-04	0.008
ENSG00000184922.9	17_43740565_G_T_b37	rs1724409_FMN1	TRANS	Y	440975	CEREBELLUM	82	102	0.331	0.609	0.070	2.91E-14	9.23E-13
ENSG00000184922.9	17_43740565_G_T_b37	rs1724409_FMN1	TRANS	Y	440975	CEREBELLAR.HEMISPHERE	64	80	0.320	0.572	0.078	6.28E-11	1.28E-09
ENSG00000184922.9	17_43740565_G_T_b37	rs1724409_FMN1	TRANS	Y	440975	FRONTAL.CORTEX	66	82	0.347	-0.184	0.059	0.002	0.024
ENSG00000120071.8	17_43740565_G_T_b37	rs1724409_KANSL1	TRANS	Y	-562168	CEREBELLUM	82	102	0.331	-0.401	0.082	2.94E-06	4.45E-05
ENSG00000120071.8	17_43740565_G_T_b37	rs1724409_KANSL1	TRANS	Y	-562168	CAUDATE	76	92	0.319	-0.296	0.073	9.03E-05	0.001
ENSG00000120071.8	17_43740565_G_T_b37	rs1724409_KANSL1	TRANS	Y	-562168	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.321	0.084	2.40E-04	0.003
ENSG00000120071.8	17_43740565_G_T_b37	rs1724409_KANSL1	TRANS	Y	-562168	CINGULATE	54	66	0.303	-0.318	0.101	0.002	0.024
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	CEREBELLUM	82	102	0.331	-1.028	0.076	1.20E-25	3.28E-23
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	CORTEX	72	89	0.327	-0.980	0.075	3.26E-24	7.28E-22
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	CAUDATE	76	92	0.319	-0.964	0.084	4.10E-21	4.29E-19
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	NUCLEUS.ACCUMBENS	74	91	0.350	-0.876	0.080	3.96E-19	2.82E-17
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	PUTAMEN	60	75	0.338	-0.970	0.088	2.97E-18	1.92E-16
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	CINGULATE	54	66	0.303	-0.904	0.083	7.15E-18	4.11E-16
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.854	0.082	7.33E-18	4.14E-16
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	FRONTAL.CORTEX	66	82	0.347	-0.884	0.087	8.89E-17	4.33E-15
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	HIPPOCAMPUS	63	77	0.347	-0.979	0.097	1.76E-16	8.16E-15
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	HYPOTHALAMUS	59	72	0.333	-0.997	0.105	4.28E-15	1.59E-13
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	SUBSTANTIA.NIGRA	40	47	0.294	-0.997	0.108	4.93E-13	1.33E-11
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	AMYGDALA	48	61	0.347	-0.773	0.090	2.23E-12	5.45E-11
ENSG00000214401.4	17_43740565_G_T_b37	rs1724409_KANSL1-AS1	TRANS	N	-530377	SPINAL.CORD	42	51	0.307	-0.943	0.110	5.13E-12	1.20E-10
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	CORTEX	72	89	0.327	-0.529	0.060	1.24E-14	4.35E-13

ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	CAUDATE	76	92	0.319	-0.639	0.075	4.23E-14	1.30E-12
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	PUTAMEN	60	75	0.338	-0.648	0.073	6.00E-14	1.78E-12
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	CINGULATE	54	66	0.303	-0.604	0.072	7.87E-13	2.03E-11
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	SPINAL.CORD	42	51	0.307	-0.894	0.104	4.12E-12	9.47E-11
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	NUCLEUS.ACCUMBENS	74	91	0.350	-0.502	0.065	7.39E-12	1.69E-10
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	HIPPOCAMPUS	63	77	0.347	-0.620	0.081	1.81E-11	3.94E-10
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	AMYGDALA	48	61	0.347	-0.710	0.088	2.17E-11	4.68E-10
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	CEREBELLUM	82	102	0.331	-0.473	0.070	6.22E-10	1.18E-08
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	FRONTAL.CORTEX	66	82	0.347	-0.396	0.059	1.50E-09	2.77E-08
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	HYPOTHALAMUS	59	72	0.333	-0.613	0.094	5.28E-09	9.54E-08
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	SUBSTANTIA.NIGRA	40	47	0.294	-0.604	0.127	1.40E-05	1.99E-04
ENSG00000204650.9	17_43740565_G_T_b37	rs1724409_LINC02210	TRANS	N	42871	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.289	0.065	2.42E-05	3.39E-04
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	CEREBELLUM	82	102	0.331	-0.837	0.096	1.88E-14	6.29E-13
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.829	0.106	4.83E-12	1.14E-10
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	HYPOTHALAMUS	59	72	0.333	-0.695	0.153	1.70E-05	2.41E-04
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	CORTEX	72	89	0.327	-0.490	0.113	3.27E-05	4.51E-04
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	SPINAL.CORD	42	51	0.307	-0.720	0.162	3.70E-05	5.05E-04
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	FRONTAL.CORTEX	66	82	0.347	-0.515	0.127	1.02E-04	0.001
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	CAUDATE	76	92	0.319	-0.445	0.119	2.75E-04	0.003
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	AMYGDALA	48	61	0.347	-0.553	0.149	4.31E-04	0.005
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	PUTAMEN	60	75	0.338	-0.486	0.134	4.63E-04	0.006
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	HIPPOCAMPUS	63	77	0.347	-0.440	0.128	9.19E-04	0.011
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	CINGULATE	54	66	0.303	-0.446	0.133	0.001	0.013
ENSG00000176681.10	17_43740565_G_T_b37	rs1724409_LRRC37A	TRANS	Y	-629534	NUCLEUS.ACCUMBENS	74	91	0.350	-0.406	0.125	0.002	0.017
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	CEREBELLUM	82	102	0.331	-1.034	0.068	1.18E-29	7.37E-27
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	CEREBELLAR.HEMISPHERE	64	80	0.320	-1.093	0.083	1.16E-23	2.04E-21
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	CORTEX	72	89	0.327	-0.953	0.084	1.71E-20	1.55E-18
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	CAUDATE	76	92	0.319	-0.905	0.086	8.01E-19	5.39E-17
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	NUCLEUS.ACCUMBENS	74	91	0.350	-0.920	0.094	1.39E-16	6.57E-15
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	CINGULATE	54	66	0.303	-1.021	0.104	7.90E-16	3.35E-14
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	HIPPOCAMPUS	63	77	0.347	-0.913	0.094	1.31E-15	5.41E-14
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	PUTAMEN	60	75	0.338	-0.952	0.099	1.63E-15	6.50E-14
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	HYPOTHALAMUS	59	72	0.333	-1.088	0.113	2.41E-15	9.33E-14
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	FRONTAL.CORTEX	66	82	0.347	-0.917	0.099	6.67E-15	2.45E-13
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	SPINAL.CORD	42	51	0.307	-1.097	0.108	1.01E-14	3.60E-13
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	AMYGDALA	48	61	0.347	-0.930	0.097	4.34E-14	1.32E-12
ENSG00000238083.3	17_43740565_G_T_b37	rs1724409_LRRC37A2	TRANS	Y	-848312	SUBSTANTIA.NIGRA	40	47	0.294	-0.826	0.133	6.66E-08	1.12E-06
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	CEREBELLUM	82	102	0.331	0.947	0.074	5.95E-24	1.22E-21
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	CAUDATE	76	92	0.319	0.863	0.071	7.44E-23	1.11E-20
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	CORTEX	72	89	0.327	0.907	0.075	4.05E-22	5.38E-20
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	CEREBELLAR.HEMISPHERE	64	80	0.320	0.898	0.073	5.95E-22	7.31E-20
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	NUCLEUS.ACCUMBENS	74	91	0.350	0.873	0.076	2.88E-20	2.44E-18
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	CINGULATE	54	66	0.303	1.037	0.088	9.88E-20	7.83E-18
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	FRONTAL.CORTEX	66	82	0.347	0.891	0.082	1.99E-18	1.30E-16
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	HYPOTHALAMUS	59	72	0.333	0.999	0.091	6.46E-18	3.87E-16
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	PUTAMEN	60	75	0.338	0.997	0.092	7.69E-18	4.30E-16
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	HIPPOCAMPUS	63	77	0.347	0.885	0.094	4.47E-15	1.65E-13
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	SPINAL.CORD	42	51	0.307	1.137	0.116	4.30E-14	1.31E-12
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	AMYGDALA	48	61	0.347	0.887	0.103	2.41E-12	5.86E-11
ENSG00000214425.2	17_43740565_G_T_b37	rs1724409_LRRC37A4P	TRANS	N	112864	SUBSTANTIA.NIGRA	40	47	0.294	0.854	0.148	3.25E-07	5.22E-06
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.954	0.087	6.95E-19	4.74E-17
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	CORTEX	72	89	0.327	-0.973	0.095	6.14E-18	3.73E-16
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	CEREBELLUM	82	102	0.331	-0.893	0.092	9.41E-17	4.53E-15
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	CAUDATE	76	92	0.319	-0.899	0.099	2.36E-15	9.21E-14
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	FRONTAL.CORTEX	66	82	0.347	-0.962	0.106	1.67E-14	5.74E-13
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	HIPPOCAMPUS	63	77	0.347	-0.952	0.106	3.80E-14	1.18E-12
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	NUCLEUS.ACCUMBENS	74	91	0.350	-0.976	0.108	1.01E-12	2.57E-11
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	CINGULATE	54	66	0.303	-0.829	0.115	2.95E-12	7.11E-11
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	PUTAMEN	60	75	0.338	-0.862	0.117	9.45E-11	1.89E-09
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	AMYGDALA	48	61	0.347	-0.824	0.111	2.56E-10	4.97E-09
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	HYPOTHALAMUS	59	72	0.333	-0.850	0.121	4.79E-10	9.16E-09

ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	SPINAL.CORD	42	51	0.307	-0.929	0.139	8.11E-09	1.45E-07
ENSG00000262500.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P1	TRANS	N	-580407	SUBSTANTIA.NIGRA	40	47	0.294	-1.062	0.178	1.52E-07	2.52E-06
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	CORTEX	72	89	0.327	-1.017	0.093	1.46E-19	1.12E-17
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	CEREBELLUM	82	102	0.331	-0.911	0.088	3.58E-18	2.29E-16
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	CINGULATE	54	66	0.303	-1.010	0.101	4.99E-16	2.17E-14
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.894	0.095	1.37E-15	5.61E-14
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	FRONTAL.CORTEX	66	82	0.347	-0.936	0.102	9.48E-15	3.40E-13
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	PUTAMEN	60	75	0.338	-0.945	0.103	1.79E-14	6.07E-13
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	CAUDATE	76	92	0.319	-0.872	0.101	3.13E-14	9.86E-13
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	SPINAL.CORD	42	51	0.307	-1.075	0.116	2.77E-13	7.69E-12
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	HIPPOCAMPUS	63	77	0.347	-0.935	0.110	3.80E-13	1.04E-11
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	HYPOTHALAMUS	59	72	0.333	-0.987	0.124	6.51E-12	1.51E-10
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	NUCLEUS.ACCUMBENS	74	91	0.350	-0.830	0.109	1.01E-11	2.26E-10
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	AMYGDALA	48	61	0.347	-0.835	0.105	3.18E-11	6.68E-10
ENSG00000263503.1	17_43740565_G_T_b37	rs1724409_MAPK8IP1P2	TRANS	N	60859	SUBSTANTIA.NIGRA	40	47	0.294	-1.132	0.171	1.35E-08	2.38E-07
ENSG00000186868.11	17_43740565_G_T_b37	rs1724409_MAPT	TRANS	Y	-231183	CEREBELLUM	82	102	0.331	0.244	0.063	1.69E-04	0.002
ENSG00000264589.1	17_43740565_G_T_b37	rs1724409_MAPT-AS1	TRANS	N	-232401	NUCLEUS.ACCUMBENS	74	91	0.350	0.612	0.109	1.41E-07	2.35E-06
ENSG00000264589.1	17_43740565_G_T_b37	rs1724409_MAPT-AS1	TRANS	N	-232401	CEREBELLUM	82	102	0.331	-0.461	0.091	1.38E-06	2.13E-05
ENSG00000264589.1	17_43740565_G_T_b37	rs1724409_MAPT-AS1	TRANS	N	-232401	FRONTAL.CORTEX	66	82	0.347	0.353	0.112	0.002	0.023
ENSG00000264589.1	17_43740565_G_T_b37	rs1724409_MAPT-AS1	TRANS	N	-232401	PUTAMEN	60	75	0.338	0.361	0.123	0.004	0.041
ENSG00000264589.1	17_43740565_G_T_b37	rs1724409_MAPT-AS1	TRANS	N	-232401	AMYGDALA	48	61	0.347	0.278	0.095	0.005	0.046
ENSG00000136448.7	17_43740565_G_T_b37	rs1724409_NMT1	TRANS	Y	611535	CEREBELLUM	82	102	0.331	0.170	0.054	0.002	0.024
ENSG00000136448.7	17_43740565_G_T_b37	rs1724409_NMT1	TRANS	Y	611535	CAUDATE	76	92	0.319	0.240	0.079	0.003	0.032
ENSG00000136448.7	17_43740565_G_T_b37	rs1724409_NMT1	TRANS	Y	611535	CORTEX	72	89	0.327	0.126	0.042	0.003	0.033
ENSG00000136448.7	17_43740565_G_T_b37	rs1724409_NMT1	TRANS	Y	611535	SPINAL.CORD	42	51	0.307	0.318	0.104	0.003	0.034
ENSG00000136448.7	17_43740565_G_T_b37	rs1724409_NMT1	TRANS	Y	611535	CEREBELLAR.HEMISPHERE	64	80	0.320	0.168	0.056	0.004	0.037
ENSG00000073969.14	17_43740565_G_T_b37	rs1724409_NSF	TRANS	Y	-927470	CEREBELLUM	82	102	0.331	0.183	0.039	7.23E-06	1.05E-04
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	CEREBELLUM	82	102	0.331	0.848	0.063	1.49E-25	3.85E-23
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	CEREBELLAR.HEMISPHERE	64	80	0.320	0.686	0.067	2.25E-17	1.22E-15
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	CORTEX	72	89	0.327	-0.394	0.072	2.47E-07	4.07E-06
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	NUCLEUS.ACCUMBENS	74	91	0.350	-0.264	0.074	5.72E-04	0.007
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	FRONTAL.CORTEX	66	82	0.347	-0.259	0.079	0.001	0.016
ENSG00000225190.4	17_43740565_G_T_b37	rs1724409_PLEKHM1	TRANS	Y	172450	PUTAMEN	60	75	0.338	-0.236	0.077	0.003	0.030
ENSG00000204652.5	17_43740565_G_T_b37	rs1724409_RPS26P8	TRANS	N	54656	SPINAL.CORD	42	51	0.307	-0.618	0.169	5.25E-04	0.006
ENSG00000185294.5	17_43740565_G_T_b37	rs1724409_SPPL2C	TRANS	Y	-181691	CEREBELLUM	82	102	0.331	-0.600	0.070	3.42E-14	1.07E-12
ENSG00000185294.5	17_43740565_G_T_b37	rs1724409_SPPL2C	TRANS	Y	-181691	CEREBELLAR.HEMISPHERE	64	80	0.320	-0.491	0.080	1.49E-08	2.62E-07
ENSG00000185294.5	17_43740565_G_T_b37	rs1724409_SPPL2C	TRANS	Y	-181691	FRONTAL.CORTEX	66	82	0.347	-0.354	0.103	8.79E-04	0.010
ENSG00000185294.5	17_43740565_G_T_b37	rs1724409_SPPL2C	TRANS	Y	-181691	NUCLEUS.ACCUMBENS	74	91	0.350	0.295	0.103	0.005	0.047
ENSG00000145020.10	3_49897830_C_T_b37	rs2681780_AMT	TRANS	Y	437644	HYPOTHALAMUS	76	106	0.491	-0.225	0.063	5.83E-04	0.007
ENSG00000164076.12	3_49897830_C_T_b37	rs2681780_CAMKV	TRANS	Y	-9825	NUCLEUS.ACCUMBENS	94	129	0.496	0.104	0.032	0.002	0.019
ENSG00000173402.7	3_49897830_C_T_b37	rs2681780_DAG1	TRANS	Y	391684	CEREBELLAR.HEMISPHERE	89	123	0.492	-0.126	0.043	0.004	0.043
ENSG00000233276.2	3_49897830_C_T_b37	rs2681780_GPX1	TRANS	Y	501797	CEREBELLUM	109	152	0.494	0.168	0.054	0.003	0.026
ENSG00000186792.11	3_49897830_C_T_b37	rs2681780_HYAL3	TRANS	Y	-435374	NUCLEUS.ACCUMBENS	94	129	0.496	-0.289	0.073	1.40E-04	0.002
ENSG00000186792.11	3_49897830_C_T_b37	rs2681780_HYAL3	TRANS	Y	-435374	CEREBELLUM	109	152	0.494	-0.263	0.074	5.71E-04	0.007
ENSG00000186792.11	3_49897830_C_T_b37	rs2681780_HYAL3	TRANS	Y	-435374	SUBSTANTIA.NIGRA	55	79	0.494	-0.235	0.079	0.004	0.041
ENSG00000185614.4	3_49897830_C_T_b37	rs2681780_INKA1	TRANS	N	57143	CEREBELLUM	109	152	0.494	0.473	0.058	5.46E-13	1.46E-11
ENSG00000185614.4	3_49897830_C_T_b37	rs2681780_INKA1	TRANS	N	57143	CEREBELLAR.HEMISPHERE	89	123	0.492	0.413	0.064	3.98E-09	7.27E-08
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	CEREBELLUM	109	152	0.494	0.468	0.066	1.40E-10	2.79E-09
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	CEREBELLAR.HEMISPHERE	89	123	0.492	0.361	0.073	3.25E-06	4.88E-05
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	CAUDATE	106	142	0.493	0.358	0.074	3.93E-06	5.82E-05
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	CORTEX	93	131	0.482	0.415	0.088	7.72E-06	1.12E-04
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	CINGULATE	79	104	0.477	0.385	0.099	2.06E-04	0.003
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	NUCLEUS.ACCUMBENS	94	129	0.496	0.302	0.083	4.10E-04	0.005
ENSG00000164078.8	3_49897830_C_T_b37	rs2681780_MST1R	TRANS	Y	-43447	HYPOTHALAMUS	76	106	0.491	0.304	0.099	0.003	0.029
ENSG00000243477.1	3_49897830_C_T_b37	rs2681780_NAA80	TRANS	Y	-439022	CINGULATE	79	104	0.477	0.161	0.052	0.003	0.027
ENSG00000003756.12	3_49897830_C_T_b37	rs2681780_RBM5	TRANS	Y	-228511	PUTAMEN	78	107	0.482	-0.183	0.062	0.004	0.041
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	CEREBELLUM	109	152	0.494	-0.623	0.041	1.20E-29	7.37E-27
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	NUCLEUS.ACCUMBENS	94	129	0.496	-0.463	0.049	5.78E-16	2.47E-14
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	CINGULATE	79	104	0.477	-0.455	0.048	3.79E-15	1.43E-13
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	CORTEX	93	131	0.482	-0.572	0.065	1.27E-14	4.43E-13
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	CEREBELLAR.HEMISPHERE	89	123	0.492	-0.397	0.045	2.63E-14	8.50E-13

ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	PUTAMEN	78	107	0.482	-0.507	0.060	6.39E-13	1.68E-11
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	CAUDATE	106	142	0.493	-0.413	0.056	1.69E-11	3.69E-10
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	FRONTAL.CORTEX	86	118	0.500	-0.420	0.056	2.96E-11	6.24E-10
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	SPINAL.CORD	59	81	0.488	-0.481	0.072	8.15E-09	1.45E-07
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	HIPPOCAMPUS	76	104	0.468	-0.248	0.045	4.41E-07	7.01E-06
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	SUBSTANTIA.NIGRA	55	79	0.494	-0.303	0.055	7.74E-07	1.21E-05
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	HYPOTHALAMUS	76	106	0.491	-0.295	0.065	2.00E-05	2.82E-04
ENSG00000004534.10	3_49897830_C_T_b37	rs2681780_RBM6	TRANS	Y	-79610	AMYGDALA	64	88	0.500	-0.289	0.068	7.22E-05	9.64E-04
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	CEREBELLUM	109	152	0.494	0.273	0.043	4.55E-09	8.25E-08
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	CAUDATE	106	142	0.493	0.144	0.030	6.13E-06	9.02E-05
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	HYPOTHALAMUS	76	106	0.491	0.187	0.039	6.47E-06	9.46E-05
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	CEREBELLAR.HEMISPHERE	89	123	0.492	0.209	0.048	2.78E-05	3.86E-04
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	NUCLEUS.ACCUMBENS	94	129	0.496	0.159	0.037	3.71E-05	5.05E-04
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	CORTEX	93	131	0.482	0.153	0.038	9.21E-05	0.001
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	CINGULATE	79	104	0.477	0.133	0.034	2.16E-04	0.003
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	FRONTAL.CORTEX	86	118	0.500	0.111	0.031	6.48E-04	0.008
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	PUTAMEN	78	107	0.482	0.103	0.034	0.003	0.029
ENSG00000164068.11	3_49897830_C_T_b37	rs2681780_RNF123	TRANS	Y	170895	SUBSTANTIA.NIGRA	55	79	0.494	0.162	0.054	0.004	0.041
ENSG00000235016.1	3_49897830_C_T_b37	rs2681780_SEMA3F-AS1	TRANS	N	-295688	CEREBELLAR.HEMISPHERE	89	123	0.492	0.294	0.077	2.23E-04	0.003
ENSG00000114316.8	3_49897830_C_T_b37	rs2681780_USP4	TRANS	Y	519685	NUCLEUS.ACCUMBENS	94	129	0.496	-0.235	0.075	0.002	0.024
ENSG00000176349.7	7_2110272_C_G_b37	rs3800872_AC104129.1	TRANS	N	232050	NUCLEUS.ACCUMBENS	50	58	0.223	-0.358	0.110	0.002	0.017
ENSG00000175873.3	7_2110272_C_G_b37	rs3800872_ENSG00000175873	TRANS	N	-367126	HYPOTHALAMUS	43	53	0.245	0.343	0.119	0.005	0.048
ENSG00000106003.8	7_2110272_C_G_b37	rs3800872_LFNG	TRANS	Y	-441891	AMYGDALA	36	41	0.233	0.327	0.096	0.001	0.012
ENSG00000002822.11	7_2110272_C_G_b37	rs3800872_MAD111	TRANS	Y	-162606	SPINAL.CORD	39	46	0.277	0.382	0.114	0.001	0.016
ENSG00000122687.13	7_2110272_C_G_b37	rs3800872_MRM2	TRANS	Y	-171568	CEREBELLAR.HEMISPHERE	48	58	0.232	-0.236	0.071	0.001	0.013
ENSG00000122687.13	7_2110272_C_G_b37	rs3800872_MRM2	TRANS	Y	-171568	CAUDATE	58	67	0.233	-0.260	0.087	0.003	0.034
ENSG00000122687.13	7_2110272_C_G_b37	rs3800872_MRM2	TRANS	Y	-171568	NUCLEUS.ACCUMBENS	50	58	0.223	-0.334	0.112	0.003	0.035
ENSG00000122687.13	7_2110272_C_G_b37	rs3800872_MRM2	TRANS	Y	-171568	CORTEX	53	60	0.221	-0.290	0.098	0.004	0.040



**Table S7: Gene-based associations that survived Bonferroni multiple testing correction (European-Americans).**

GENE	CHR	START	STOP	NSNPS	Z	P	SYMBOL
ENSG00000183763	3	49856034	49904007	32	6.7655	6.64E-12	<i>TRAIP</i>
ENSG00000164068	3	49716932	49768962	60	6.3082	1.41E-10	<i>RNF123</i>
ENSG00000164076	3	49885421	49917655	30	6.2626	1.89E-10	<i>CAMKV</i>
ENSG00000004534	3	49967440	50147478	262	6.1533	3.79E-10	<i>RBM6</i>
ENSG00000176020	3	49744267	49771349	34	6.1499	3.88E-10	<i>AMIGO3</i>
ENSG00000173540	3	49744277	49771384	34	6.1499	3.88E-10	<i>GMPPB</i>
ENSG00000164077	3	49936302	49977606	41	6.0925	5.56E-10	<i>MON1A</i>
ENSG00000164078	3	49914435	49951299	33	6.0835	5.88E-10	<i>MST1R</i>
ENSG00000003756	3	50116341	50166454	61	6.0006	9.83E-10	<i>RBM5</i>
ENSG00000176095	3	49751727	49833975	85	5.986	1.08E-09	<i>IP6K1</i>
ENSG00000108379	17	44829872	44920520	59	5.9477	1.36E-09	<i>WNT3</i>
ENSG00000186868	17	43961748	44115700	707	5.9367	1.45E-09	<i>MAPT</i>
ENSG00000120071	17	44097282	44312733	712	5.8385	2.63E-09	<i>KANSL1</i>
ENSG00000182179	3	49832640	49861379	14	5.4716	2.23E-08	<i>UBA7</i>
ENSG00000185614	3	49830687	49852463	12	5.4636	2.33E-08	<i>FAM212A</i>
ENSG00000185294	17	43912256	43934438	117	5.4342	2.75E-08	<i>SPPL2C</i>
ENSG00000225190	17	43503266	43578115	101	5.4342	2.75E-08	<i>PLEKHM1</i>
ENSG00000196628	18	52879562	53342018	472	5.4327	2.77E-08	<i>TCF4</i>
ENSG00000176681	17	44360099	44425160	54	5.4235	2.92E-08	<i>LRRC37A</i>
ENSG00000228696	17	44342150	44449130	189	5.4109	3.14E-08	<i>ARL17B</i>
ENSG00000256762	17	44066616	44087060	96	5.4021	3.29E-08	<i>STH</i>
ENSG00000120088	17	43689267	43923194	932	5.3941	3.44E-08	<i>CRHR1</i>
ENSG00000173531	3	49711380	49736934	24	5.3512	4.37E-08	<i>MST1</i>
ENSG00000184588	1	66248197	66850259	765	5.2752	6.63E-08	<i>PDE4B</i>
ENSG00000187492	3	49818165	49847268	26	5.2237	8.77E-08	<i>CDHR4</i>
ENSG00000159314	17	43461275	43521787	105	5.2161	9.14E-08	<i>ARHGAP27</i>
ENSG00000073969	17	44658035	44844830	51	5.2048	9.71E-08	<i>NSF</i>
ENSG00000135250	7	1.05E+08	105049755	342	5.1825	1.09E-07	<i>SRPK2</i>
ENSG00000001617	3	50182478	50236508	67	4.8176	7.26E-07	<i>SEMA3F</i>
ENSG00000182985	11	1.15E+08	115385675	207	4.7221	1.17E-06	<i>CADM1</i>

**Table S8: Genetic Correlation between REX and 1,779 phenotypic traits from UK Biobank and LDhub. For UK Biobank, information about phenotype coding is available at <http://biobank.ctsu.ox.ac.uk/crystal/>.**

Source	p2	rg	se	z	p
UKB	Overall health rating	0.5591	0.0352	15.8732	9.71E-57
UKB	Mood swings	0.6616	0.0417	15.8671	1.07E-56
UKB	Frequency of tiredness / lethargy in last 2 weeks	0.5972	0.0392	15.235	2.07E-52
UKB	Frequency of tenseness / restlessness in last 2 weeks	0.6852	0.0456	15.02	5.43E-51
UKB	Pain type(s) experienced in last month: None of the above	-0.585	0.0397	-14.7317	4.03E-49
UKB	Frequency of depressed mood in last 2 weeks	0.6576	0.0448	14.6711	9.87E-49
UKB	Frequency of unenthusiasm / disinterest in last 2 weeks	0.6887	0.047	14.6452	1.45E-48
UKB	Neuroticism score	0.5608	0.04	14.0142	1.28E-44
UKB	Fed-up feelings	0.5527	0.0398	13.881	8.26E-44
UKB	Age at first live birth	-0.6184	0.0454	-13.6144	3.29E-42
UKB	Seen doctor (GP) for nerves, anxiety, tension or depression	0.5805	0.043	13.5011	1.54E-41
UKB	Current employment status: Unable to work because of sickness or disability	0.6569	0.0497	13.2274	6.10E-40
UKB	Tense / 'highly strung'	0.5629	0.0437	12.8677	6.84E-38
UKB	Medication for pain relief, constipation, heartburn: None of the above	-0.4843	0.0392	-12.3535	4.66E-35
UKB	Qualifications: A levels/AS levels or equivalent	-0.5022	0.041	-12.2466	1.75E-34
UKB	Treatment/medication code: paracetamol	0.555	0.0454	12.2141	2.61E-34
UKB	Medication for pain relief, constipation, heartburn: Paracetamol	0.4936	0.0406	12.1456	6.05E-34
UKB	Qualifications: College or University degree	-0.4339	0.0365	-11.8973	1.22E-32
UKB	Age completed full time education	-0.5371	0.0452	-11.8759	1.58E-32
LDHUB	Years of schooling 2016	-0.4238	0.0361	-11.7265	9.32E-32
UKB	Loneliness, isolation	0.5631	0.0487	11.5592	6.63E-31
UKB	Miserableness	0.5259	0.046	11.4408	2.62E-30
LDHUB	Depressive symptoms	0.6356	0.0561	11.3234	1.00E-29
UKB	Sensitivity / hurt feelings	0.4657	0.0415	11.2351	2.74E-29
UKB	Wheeze or whistling in the chest in last year	0.5175	0.0461	11.2161	3.40E-29
UKB	Smoking status: Current	0.434	0.0387	11.2137	3.49E-29
LDHUB	Intelligence	-0.5306	0.0478	-11.1038	1.20E-28
UKB	Pain type(s) experienced in last month: Neck or shoulder pain	0.553	0.0499	11.0888	1.42E-28
UKB	Qualifications: None of the above	0.4276	0.0386	11.0834	1.51E-28
LDHUB	Age of first birth	-0.551	0.0498	-11.0616	1.93E-28
UKB	Fluid intelligence score	-0.4788	0.0434	-11.0382	2.50E-28
UKB	Current tobacco smoking	0.4358	0.0396	11.006	3.57E-28
UKB	Seen a psychiatrist for nerves, anxiety, tension or depression	0.5603	0.0514	10.8929	1.25E-27
UKB	Qualifications: O levels/GCSEs or equivalent	-0.4429	0.0415	-10.6782	1.29E-26
UKB	Falls in the last year	0.5089	0.0478	10.6416	1.91E-26
LDHUB	Neuroticism	0.5454	0.0519	10.5018	8.47E-26
UKB	Guilty feelings	0.4453	0.0428	10.4054	2.34E-25
UKB	Job involves mainly walking or standing	0.5053	0.0486	10.3916	2.71E-25
UKB	Worrier / anxious feelings	0.4407	0.0424	10.391	2.73E-25
UKB	Maternal smoking around birth	0.4231	0.0409	10.3353	4.88E-25
UKB	Job involves heavy manual or physical work	0.5184	0.0506	10.2486	1.20E-24
UKB	Pain type(s) experienced in last month: Back pain	0.4749	0.0464	10.2383	1.34E-24
UKB	Long-standing illness, disability or infirmity	0.4057	0.0401	10.1047	5.27E-24
UKB	Exposure to tobacco smoke outside home	0.4778	0.0475	10.0646	7.92E-24
UKB	Noisy workplace	0.636	0.0634	10.0309	1.11E-23
UKB	Health satisfaction	0.5361	0.0537	9.9852	1.77E-23
UKB	Illness, injury, bereavement, stress in last 2 years: Financial difficulties	0.5044	0.0511	9.8739	5.40E-23
UKB	Alcohol intake frequency.	0.3762	0.0387	9.7111	2.70E-22
UKB	Pain type(s) experienced in last month: Headache	0.41	0.0424	9.6727	3.94E-22
UKB	Number of self-reported non-cancer illnesses	0.4042	0.0418	9.668	4.12E-22
UKB	Illness, injury, bereavement, stress in last 2 years: None of the above	-0.5361	0.0567	-9.4527	3.30E-21
UKB	Leg pain on walking	0.5433	0.058	9.3706	7.21E-21
UKB	Number of treatments/medications taken	0.4148	0.0444	9.3493	8.82E-21
UKB	Pain type(s) experienced in last month: Stomach or abdominal pain	0.5241	0.0562	9.3192	1.17E-20
UKB	Pain type(s) experienced in last month: Hip pain	0.5243	0.0567	9.2497	2.25E-20
UKB	Leg fat percentage (left)	0.285	0.0314	9.0705	1.19E-19
UKB	Ever unenthusiastic/disinterested for a whole week	0.5726	0.0632	9.058	1.33E-19
UKB	Alcohol drinker status: Previous	0.5831	0.0644	9.0545	1.37E-19
UKB	Leg fat percentage (right)	0.2868	0.0318	9.0221	1.85E-19
UKB	Taking other prescription medications	0.4451	0.0493	9.0197	1.89E-19

UKB	Ever highly irritable/argumentative for 2 days	0.5993	0.0665	9.0184	1.91E-19
UKB	Number of days/week of moderate physical activity 10+ minutes	0.4302	0.0479	8.9859	2.57E-19
UKB	Pack years adult smoking as proportion of life span exposed to smoking PREVIEW ONLY	0.3881	0.0433	8.968	3.02E-19
UKB	Treatment/medication code: co-codamol	0.7841	0.0885	8.8594	8.05E-19
UKB	Shortness of breath walking on level ground	0.6397	0.0732	8.7431	2.27E-18
UKB	Pain type(s) experienced in last month: Knee pain	0.4031	0.0465	8.6756	4.11E-18
UKB	Non-cancer illness code, self-reported: depression	0.5758	0.0664	8.6675	4.42E-18
UKB	Sleeplessness / insomnia	0.3702	0.043	8.6077	7.45E-18
UKB	Chest pain or discomfort	0.4777	0.0557	8.5798	9.50E-18
UKB	Mouth/teeth dental problems: None of the above	-0.4049	0.048	-8.4415	3.13E-17
UKB	Age at last live birth	-0.4702	0.0558	-8.4303	3.45E-17
UKB	Frequency of walking for pleasure in last 4 weeks	0.4955	0.0592	8.3705	5.74E-17
UKB	Pack years of smoking PREVIEW ONLY	0.3764	0.0452	8.3323	7.93E-17
UKB	Drive faster than motorway speed limit	-0.3658	0.0446	-8.198	2.44E-16
UKB	Qualifications: CSEs or equivalent	0.4766	0.0585	8.1412	3.92E-16
LDHUB	College completion	-0.4616	0.057	-8.092	5.87E-16
UKB	Townsend deprivation index at recruitment	0.418	0.0518	8.0662	7.25E-16
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doct	0.5268	0.0656	8.0253	1.01E-15
UKB	Suffer from 'nerves'	0.4056	0.0506	8.0098	1.15E-15
UKB	Body mass index (BMI)	0.2323	0.0291	7.9862	1.39E-15
UKB	Leg fat mass (right)	0.2508	0.0315	7.9724	1.56E-15
UKB	Leg fat mass (left)	0.246	0.0311	7.908	2.62E-15
LDHUB	Years of schooling (proxy cognitive performance)	-0.4251	0.054	-7.8719	3.49E-15
UKB	Time spent watching television (TV)	0.2965	0.0381	7.7913	6.63E-15
UKB	Usual walking pace	-0.3127	0.0403	-7.7525	9.01E-15
UKB	Ever depressed for a whole week	0.4718	0.0616	7.6535	1.96E-14
UKB	Mouth/teeth dental problems: Dentures	0.3297	0.0431	7.6435	2.11E-14
UKB	Mother's age at death	-0.5306	0.0697	-7.6092	2.76E-14
UKB	Job involves shift work	0.5311	0.0699	7.5978	3.01E-14
UKB	Qualifications: NVQ or HND or HNC or equivalent	0.4932	0.0658	7.4949	6.63E-14
UKB	Prospective memory result	0.5074	0.068	7.4643	8.38E-14
UKB	Number of operations, self-reported	0.3481	0.0468	7.4381	1.02E-13
UKB	Body fat percentage	0.2334	0.0315	7.4081	1.28E-13
UKB	Nervous feelings	0.3442	0.0469	7.3324	2.26E-13
LDHUB	Years of schooling 2013	-0.4017	0.0549	-7.3202	2.48E-13
UKB	Pain type(s) experienced in last month: Pain all over the body	0.6399	0.088	7.2738	3.50E-13
UKB	Number of full brothers	0.4065	0.0574	7.0775	1.47E-12
UKB	Irritability	0.3305	0.0467	7.0769	1.47E-12
UKB	Diagnoses - main ICD10: R07 Pain in throat and chest	0.5019	0.0712	7.0523	1.76E-12
UKB	Treatment/medication code: tramadol	0.5743	0.0816	7.0366	1.97E-12
UKB	Peak expiratory flow (PEF)	-0.2759	0.0392	-7.0306	2.06E-12
UKB	Alcohol intake versus 10 years previously	0.3406	0.0485	7.0177	2.26E-12
UKB	Qualifications: Other professional qualifications eg: nursing, teaching	-0.3137	0.0448	-7.0103	2.38E-12
UKB	Diagnoses - main ICD10: R10 Abdominal and pelvic pain	0.5024	0.0718	7.0002	2.56E-12
UKB	Waist circumference	0.2146	0.0308	6.9733	3.10E-12
UKB	Alcohol usually taken with meals	-0.3139	0.0451	-6.9644	3.30E-12
LDHUB	Ever vs never smoked	0.4379	0.063	6.9458	3.76E-12
LDHUB	Schizophrenia	0.2534	0.0367	6.9009	5.17E-12
UKB	Arm fat percentage (right)	0.205	0.0297	6.8947	5.40E-12
UKB	Transport type for commuting to job workplace: Cycle	-0.4315	0.063	-6.8499	7.39E-12
UKB	Vascular/heart problems diagnosed by doctor: None of the above	-0.23	0.0337	-6.8264	8.71E-12
UKB	Arm fat mass (right)	0.2028	0.0299	6.7839	1.17E-11
UKB	Whole body fat mass	0.2104	0.031	6.7827	1.18E-11
UKB	Average weekly red wine intake	-0.3234	0.0477	-6.7823	1.18E-11
UKB	Financial situation satisfaction	0.4148	0.0613	6.7653	1.33E-11
UKB	Diagnoses - main ICD10: M54 Dorsalgia	0.569	0.0842	6.7584	1.40E-11
UKB	Treatment/medication code: omeprazole	0.5031	0.0745	6.7499	1.48E-11
UKB	Arm fat percentage (left)	0.1987	0.0299	6.6548	2.84E-11
UKB	Arm fat mass (left)	0.1978	0.0298	6.6375	3.19E-11
UKB	Exposure to tobacco smoke at home	0.5092	0.0769	6.6243	3.49E-11
UKB	Non-cancer illness code, self-reported: emphysema/chronic bronchitis	0.4866	0.0736	6.6115	3.81E-11
UKB	Breastfed as a baby	-0.3973	0.0605	-6.5621	5.31E-11
UKB	Types of physical activity in last 4 weeks: Other exercises (eg: swimming, cycling, keep fit, box	-0.3287	0.0503	-6.5303	6.56E-11

UKB	Medication for pain relief, constipation, heartburn: Omeprazole (e.g. Zanol)	0.4192	0.0645	6.4968	8.21E-11
UKB	Illnesses of mother: Chronic bronchitis/emphysema	0.6198	0.0956	6.4846	8.90E-11
UKB	Father's age at death	-0.3529	0.0546	-6.4592	1.05E-10
UKB	Trunk fat percentage	0.2061	0.0323	6.3737	1.85E-10
UKB	Average weekly champagne plus white wine intake	-0.3629	0.057	-6.3688	1.91E-10
UKB	Ever manic/hyper for 2 days	0.7362	0.1156	6.3687	1.91E-10
UKB	Age started oral contraceptive pill	-0.382	0.0606	-6.3018	2.94E-10
UKB	Illness, injury, bereavement, stress in last 2 years: Serious illness, injury or assault to yourself	0.4682	0.0752	6.2225	4.89E-10
UKB	Sodium in urine	0.2411	0.0393	6.1324	8.65E-10
LDHUB	Insomnia	0.3787	0.0619	6.1178	9.49E-10
UKB	Types of physical activity in last 4 weeks: None of the above	0.3766	0.0616	6.1108	9.92E-10
UKB	Illnesses of siblings: None of the above (group 1)	-0.2887	0.0475	-6.0717	1.27E-09
UKB	Trunk fat mass	0.1911	0.0315	6.0678	1.30E-09
UKB	Duration of walks	0.2878	0.0475	6.0565	1.39E-09
UKB	Number of live births	0.318	0.0525	6.0564	1.39E-09
UKB	Ever had stillbirth, spontaneous miscarriage or termination	0.4717	0.0786	5.9983	1.99E-09
UKB	Risk taking	0.2484	0.0417	5.9554	2.59E-09
UKB	Ever used hormone-replacement therapy (HRT)	0.3382	0.0569	5.9459	2.75E-09
LDHUB	Childhood IQ	-0.5508	0.0929	-5.9317	3.00E-09
UKB	Number of days/week of vigorous physical activity 10+ minutes	0.2936	0.0495	5.9288	3.05E-09
UKB	Vascular/heart problems diagnosed by doctor: High blood pressure	0.207	0.035	5.9223	3.17E-09
UKB	Number of incorrect matches in round	0.2509	0.0424	5.9167	3.29E-09
UKB	Chest pain or discomfort walking normally	0.4354	0.0738	5.9012	3.61E-09
UKB	Diagnoses - main ICD10: M75 Shoulder lesions	0.667	0.1131	5.8989	3.66E-09
UKB	Illnesses of father: Chronic bronchitis/emphysema	0.3982	0.0676	5.8909	3.84E-09
UKB	Duration walking for pleasure	-0.36	0.0615	-5.8552	4.76E-09
UKB	Types of physical activity in last 4 weeks: Strenuous sports	-0.3282	0.0572	-5.7393	9.51E-09
UKB	Treatment/medication code: amitriptyline	0.5077	0.0898	5.6564	1.55E-08
UKB	Other serious medical condition/disability diagnosed by doctor	0.3258	0.0576	5.6552	1.56E-08
UKB	Forced expiratory volume in 1-second (FEV1)	-0.2025	0.0359	-5.6421	1.68E-08
UKB	Forced expiratory volume in 1-second (FEV1), Best measure	-0.2103	0.0375	-5.6067	2.06E-08
UKB	Non-cancer illness code, self-reported: hypertension	0.1981	0.0354	5.5925	2.24E-08
UKB	Ever had hysterectomy (womb removed)	0.4333	0.0784	5.5267	3.26E-08
UKB	Number of days/week walked 10+ minutes	0.2651	0.0481	5.5145	3.50E-08
UKB	Types of physical activity in last 4 weeks: Light DIY (eg: pruning, watering the lawn)	-0.2525	0.0461	-5.478	4.30E-08
LDHUB	Neuroticism	0.6606	0.1214	5.4426	5.25E-08
UKB	Medication for pain relief, constipation, heartburn: Laxatives (e.g. Dulcolax, Senokot)	0.4269	0.079	5.4007	6.64E-08
UKB	Non-cancer illness code, self-reported: osteoarthritis	0.3423	0.0641	5.3421	9.19E-08
UKB	Illness, injury, bereavement, stress in last 2 years: Death of a close relative	0.5635	0.1059	5.3199	1.04E-07
UKB	Duration of moderate activity	0.345	0.0651	5.3021	1.14E-07
UKB	Treatment/medication code: ibuprofen	0.3842	0.0732	5.2493	1.53E-07
UKB	Frequency of heavy DIY in last 4 weeks	0.503	0.096	5.2413	1.59E-07
UKB	Illnesses of father: Lung cancer	0.3835	0.0737	5.2014	1.98E-07
UKB	Adopted as a child	0.4903	0.0943	5.1986	2.01E-07
UKB	Weight	0.1532	0.0295	5.1874	2.13E-07
UKB	Forced expiratory volume in 1-second (FEV1), predicted percentage	-0.2189	0.0424	-5.16	2.47E-07
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: None of t	-0.2486	0.0482	-5.1598	2.47E-07
UKB	Illnesses of father: None of the above (group 2)	-0.4404	0.0854	-5.1587	2.49E-07
UKB	Types of transport used (excluding work): Cycle	-0.334	0.0653	-5.112	3.19E-07
UKB	Impedance of arm (left)	-0.1451	0.0285	-5.0968	3.45E-07
UKB	Weight change compared with 1 year ago	0.4441	0.0875	5.0761	3.85E-07
UKB	Illnesses of siblings: Heart disease	0.3585	0.0708	5.0627	4.13E-07
UKB	Forced vital capacity (FVC), Best measure	-0.187	0.037	-5.0578	4.24E-07
UKB	Non-cancer illness code, self-reported: asthma	0.209	0.0414	5.0497	4.42E-07
LDHUB	Waist circumference	0.1686	0.0334	5.0405	4.64E-07
UKB	Light smokers, at least 100 smokes in lifetime	0.2902	0.0581	4.9939	5.92E-07
UKB	Illnesses of mother: Severe depression	0.4829	0.0968	4.9873	6.12E-07
UKB	Why stopped smoking: Health precaution	-0.3867	0.0778	-4.9734	6.58E-07
UKB	Frequency of travelling from home to job workplace	0.3484	0.0701	4.969	6.73E-07
UKB	Medication for pain relief, constipation, heartburn: Ibuprofen (e.g. Nurofen)	0.313	0.0633	4.9466	7.55E-07
LDHUB	Number of children ever born	0.2842	0.0579	4.9101	9.10E-07
UKB	Number of full sisters	0.3018	0.0617	4.8887	1.01E-06
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: Choleste	0.2766	0.0567	4.8803	1.06E-06

UKB	Non-cancer illness code, self-reported: chronic obstructive airways disease/copd	0.6118	0.1255	4.8763	1.08E-06
UKB	Pain type(s) experienced in last month: Facial pain	0.4408	0.0904	4.8741	1.09E-06
UKB	Diagnoses - main ICD10: M17 Gonarthrosis [arthrosis of knee]	0.3184	0.0654	4.8707	1.11E-06
UKB	Current employment status: Doing unpaid or voluntary work	-0.4733	0.0972	-4.8687	1.12E-06
UKB	Forced vital capacity (FVC)	-0.1725	0.0355	-4.8525	1.22E-06
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctc	0.197	0.0406	4.8467	1.26E-06
UKB	Types of physical activity in last 4 weeks: Heavy DIY (eg: weeding, lawn mowing, carpentry, di	-0.2394	0.0497	-4.814	1.48E-06
UKB	Illnesses of siblings: Severe depression	0.3747	0.0784	4.7803	1.75E-06
UKB	Non-cancer illness code, self-reported: anxiety/panic attacks	0.5156	0.1087	4.7419	2.12E-06
UKB	Age of primiparous women at birth of child	-0.5079	0.1071	-4.7409	2.13E-06
UKB	Types of physical activity in last 4 weeks: Walking for pleasure (not as a means of transport)	-0.2463	0.0528	-4.6641	3.10E-06
UKB	Length of working week for main job	0.3455	0.0741	4.6624	3.13E-06
UKB	Illnesses of siblings: Diabetes	0.2943	0.0637	4.6211	3.82E-06
LDHUB	Fathers age at death	-0.3814	0.0836	-4.5607	5.10E-06
UKB	Pulse rate, automated reading	0.1339	0.0294	4.5531	5.29E-06
LDHUB	Lung cancer	0.3889	0.0855	4.546	5.47E-06
UKB	Impedance of arm (right)	-0.1287	0.0284	-4.5392	5.65E-06
UKB	Non-cancer illness code, self-reported: deep venous thrombosis (dvt)	0.3124	0.0697	4.4812	7.42E-06
UKB	Pulse wave peak to peak time	-0.2625	0.0586	-4.4793	7.49E-06
UKB	Leg pain on walking : action taken	-0.4614	0.1034	-4.4618	8.13E-06
UKB	Smoking/smokers in household	0.4522	0.1015	4.4569	8.31E-06
UKB	Past tobacco smoking	-0.1778	0.0401	-4.4368	9.13E-06
UKB	Mouth/teeth dental problems: Loose teeth	0.3014	0.0679	4.4358	9.17E-06
UKB	Bilateral oophorectomy (both ovaries removed)	0.3098	0.0702	4.413	1.02E-05
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctc	0.3232	0.0734	4.4041	1.06E-05
UKB	Mineral and other dietary supplements: Glucosamine	-0.2336	0.0531	-4.3958	1.10E-05
UKB	Diagnoses - main ICD10: K29 Gastritis and duodenitis	0.3927	0.0894	4.3916	1.13E-05
UKB	Other eye problems	0.4183	0.0954	4.3838	1.17E-05
UKB	Worry too long after embarrassment	0.1723	0.0399	4.3135	1.61E-05
UKB	Mouth/teeth dental problems: Painful gums	0.4917	0.1149	4.2808	1.86E-05
UKB	Treatment/medication code: lansoprazole	0.3112	0.0729	4.2685	1.97E-05
UKB	Transport type for commuting to job workplace: Public transport	-0.2911	0.0687	-4.2402	2.23E-05
UKB	Had other major operations	0.2802	0.0661	4.2392	2.24E-05
UKB	Ever smoked	0.1636	0.0386	4.2379	2.26E-05
LDHUB	Subjective well being	-0.2322	0.0548	-4.2355	2.28E-05
UKB	No-wear time bias adjusted acceleration standard deviation	-0.2588	0.0614	-4.2167	2.48E-05
UKB	Non-cancer illness code, self-reported: gastro-oesophageal reflux (gord) / gastric reflux	0.3461	0.0826	4.1904	2.78E-05
LDHUB	Lung cancer (all)	0.4105	0.0982	4.1798	2.92E-05
LDHUB	Obesity class 3	0.3194	0.0764	4.1789	2.93E-05
UKB	Tobacco smoking: Ex-smoker	0.2864	0.0685	4.1788	2.93E-05
UKB	Non-cancer illness code, self-reported: angina	0.2422	0.058	4.1761	2.97E-05
UKB	Duration of heavy DIY	0.2833	0.0679	4.1712	3.03E-05
UKB	Hip circumference	0.1287	0.031	4.153	3.28E-05
UKB	Former alcohol drinker	0.3587	0.0865	4.149	3.34E-05
UKB	Sleep duration	-0.1643	0.0398	-4.1242	3.72E-05
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: Hormone	0.3787	0.0922	4.1066	4.01E-05
UKB	Time spent using computer	-0.1703	0.0416	-4.0959	4.20E-05
UKB	Creatinine (enzymatic) in urine	0.1631	0.04	4.0809	4.49E-05
LDHUB	Waist-to-hip ratio	0.1545	0.0379	4.0774	4.55E-05
UKB	Had major operations	0.286	0.0702	4.0765	4.57E-05
UKB	Diagnoses - main ICD10: N39 Other disorders of urinary system	0.4917	0.1206	4.076	4.58E-05
UKB	Treatment/medication code: salbutamol	0.4934	0.1223	4.036	5.44E-05
UKB	Average weekly fortified wine intake	-0.4301	0.1066	-4.0348	5.46E-05
UKB	Illnesses of mother: None of the above (group 2)	-0.3621	0.09	-4.0254	5.69E-05
UKB	Duration of vigorous activity	0.2553	0.0636	4.0152	5.94E-05
UKB	Vascular/heart problems diagnosed by doctor: Angina	0.2381	0.0594	4.0054	6.19E-05
UKB	Diastolic blood pressure, automated reading	0.1344	0.0337	3.9897	6.61E-05
LDHUB	Obesity class 2	0.1921	0.0482	3.9822	6.83E-05
UKB	Maximum workload during fitness test	-0.4863	0.1222	-3.9802	6.88E-05
UKB	Treatment/medication code: citalopram	0.5697	0.1432	3.9772	6.97E-05
LDHUB	Obesity class 1	0.1644	0.0415	3.9645	7.36E-05
UKB	Non-cancer illness code, self-reported: hiatus hernia	0.3881	0.098	3.9609	7.47E-05
LDHUB	Major depressive disorder	0.4446	0.1126	3.9479	7.89E-05

UKB	Illness, injury, bereavement, stress in last 2 years: Marital separation/divorce	0.7102	0.1811	3.9211	8.82E-05
UKB	Non-cancer illness code, self-reported: pulmonary embolism +/- dvt	0.4144	0.1063	3.8982	9.69E-05
UKB	Hand grip strength (right)	-0.136	0.0358	-3.7942	0.0001
UKB	Ever stopped smoking for 6+ months	0.5092	0.1341	3.7962	0.0001
UKB	Back pain for 3+ months	0.3239	0.0839	3.8618	0.0001
UKB	Illnesses of siblings: None of the above (group 2)	-0.4027	0.1056	-3.8133	0.0001
UKB	Illnesses of siblings: Chronic bronchitis/emphysema	0.5144	0.1348	3.8158	0.0001
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctc	0.3871	0.1016	3.8098	0.0001
UKB	Types of transport used (excluding work): Car/motor vehicle	-0.2027	0.0532	-3.8095	0.0001
UKB	Diagnoses - main ICD10: R51 Headache	0.6278	0.1627	3.8592	0.0001
LDHUB	Former vs Current smoker	-0.3704	0.0952	-3.8886	0.0001
UKB	Nap during day	0.1584	0.0421	3.763	0.0002
UKB	Number of cigarettes previously smoked daily	0.2108	0.0572	3.6861	0.0002
UKB	Number of unenthusiastic/disinterested episodes	0.5103	0.1354	3.7701	0.0002
UKB	Pulse wave Arterial Stiffness index	0.2292	0.0612	3.7434	0.0002
UKB	Non-cancer illness code, self-reported: spine arthritis/spondylitis	0.4202	0.1114	3.7714	0.0002
UKB	Treatment/medication code: atenolol	0.2265	0.0611	3.7104	0.0002
UKB	Treatment/medication code: fluoxetine	0.6401	0.1741	3.6766	0.0002
UKB	Treatment/medication code: diclofenac	0.3348	0.0912	3.6702	0.0002
UKB	Treatment/medication code: metformin	0.1858	0.0493	3.7677	0.0002
UKB	Current employment status: In paid employment or self-employed	-0.3647	0.0992	-3.6764	0.0002
UKB	Reason for glasses/contact lenses: For short-sightedness, i.e. only or mainly for distance view	-0.2209	0.0592	-3.7337	0.0002
UKB	Mouth/teeth dental problems: Toothache	0.3265	0.0881	3.7071	0.0002
UKB	Medication for pain relief, constipation, heartburn: Ranitidine (e.g. Zantac)	0.4389	0.1161	3.7815	0.0002
UKB	Standing height	-0.1021	0.0282	-3.6231	0.0003
UKB	Happiness	0.2196	0.0604	3.6329	0.0003
UKB	Treatment/medication code: diazepam	0.5633	0.1547	3.6417	0.0003
UKB	Treatment/medication code: gliclazide	0.2494	0.0686	3.6374	0.0003
UKB	Vascular/heart problems diagnosed by doctor: Stroke	0.596	0.1633	3.6497	0.0003
UKB	Why stopped smoking: Illness or ill health	0.5503	0.1507	3.6516	0.0003
UKB	Diagnoses - main ICD10: M20 Acquired deformities of fingers and toes	0.2795	0.0782	3.5753	0.0003
UKB	Diagnoses - main ICD10: M79 Other soft tissue disorders, not elsewhere classified	0.616	0.1691	3.6438	0.0003
LDHUB	Attention deficit hyperactivity disorder (GC)	0.6882	0.19	3.6212	0.0003
LDHUB	Attention deficit hyperactivity disorder (No GC)	0.688	0.1903	3.6149	0.0003
UKB	Cough on most days	0.2567	0.0718	3.5739	0.0004
UKB	Arm predicted mass (left)	0.1016	0.0286	3.5498	0.0004
UKB	Manic/hyper symptoms: None of the above	-0.8089	0.2272	-3.5608	0.0004
UKB	Why stopped smoking: Doctor's advice	0.5602	0.1592	3.5184	0.0004
UKB	Types of transport used (excluding work): Walk	-0.1902	0.0537	-3.5395	0.0004
UKB	Number of trend entries	-0.5399	0.1555	-3.4722	0.0005
UKB	Arm fat-free mass (left)	0.1007	0.0288	3.4963	0.0005
LDHUB	Squamous cell lung cancer	0.4818	0.1385	3.4788	0.0005
LDHUB	Parents age at death	-0.3435	0.098	-3.5045	0.0005
UKB	Average weekly beer plus cider intake	0.1914	0.0555	3.4501	0.0006
UKB	Diabetes diagnosed by doctor	0.1503	0.0437	3.4356	0.0006
UKB	Time from waking to first cigarette	-0.4271	0.1245	-3.4314	0.0006
UKB	Work/job satisfaction	0.2629	0.0765	3.4366	0.0006
UKB	Treatment/medication code: deep relief ibuprofen gel	0.4283	0.1244	3.4429	0.0006
UKB	Treatment/medication code: seretide 50 evohaler	0.2826	0.0827	3.4192	0.0006
UKB	Illnesses of mother: Lung cancer	0.5464	0.1587	3.4436	0.0006
UKB	Diagnoses - main ICD10: M47 Spondylosis	0.5199	0.1508	3.4474	0.0006
UKB	Non-cancer illness code, self-reported: prolapsed disc/slipped disc	0.3379	0.1	3.3793	0.0007
UKB	Tinnitus: Yes, but not now, but have in the past	0.3863	0.1136	3.3997	0.0007
UKB	Diagnoses - main ICD10: J44 Other chronic obstructive pulmonary disease	0.495	0.1459	3.3921	0.0007
UKB	Non-cancer illness code, self-reported: stroke	0.4902	0.1469	3.3363	0.0008
UKB	Diagnoses - main ICD10: M51 Other intervertebral disk disorders	0.5433	0.1615	3.3639	0.0008
LDHUB	Body mass index	0.1253	0.0375	3.342	0.0008
UKB	Number of children fathered	0.239	0.0718	3.3296	0.0009
UKB	Bring up phlegm/sputum/mucus on most days	0.3229	0.0969	3.3309	0.0009
UKB	Treatment/medication code: ventolin 100micrograms inhaler	0.2136	0.0642	3.3285	0.0009
UKB	Treatment/medication code: ranitidine	0.3567	0.1075	3.3194	0.0009
UKB	Diagnoses - main ICD10: G47 Sleep disorders	0.3501	0.1051	3.3315	0.0009
UKB	Treatment/medication code: gabapentin	0.4743	0.1438	3.2994	0.001

UKB	Treatment/medication code: dihydrocodeine	0.4321	0.1314	3.2883	0.001
UKB	Treatment/medication code: furosemide	0.4739	0.1439	3.2937	0.001
LDHUB	PGC cross-disorder analysis	0.1947	0.0594	3.2769	0.001
UKB	Reason for reducing amount of alcohol drunk: Financial reasons	0.6627	0.2036	3.2554	0.0011
UKB	Transport type for commuting to job workplace: Car/motor vehicle	0.2466	0.0753	3.2733	0.0011
UKB	Medication for pain relief, constipation, heartburn: Aspirin	0.1883	0.0578	3.2595	0.0011
LDHUB	Body fat	0.1729	0.0532	3.2496	0.0012
UKB	Diagnoses - main ICD10: I20 Angina pectoris	0.2613	0.0817	3.2006	0.0014
UKB	Hearing difficulty/problems with background noise	0.1397	0.0439	3.1823	0.0015
UKB	Treatment/medication code: propranolol	0.468	0.1472	3.1798	0.0015
UKB	Hand grip strength (left)	-0.1114	0.0353	-3.152	0.0016
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: Blood pr	0.1286	0.0409	3.1477	0.0016
UKB	Diagnoses - main ICD10: G56 Mononeuropathies of upper limb	0.2362	0.0749	3.1533	0.0016
UKB	Diagnoses - main ICD10: K20 Oesophagitis	0.5627	0.1788	3.1471	0.0016
UKB	Mouth/teeth dental problems: Bleeding gums	0.1951	0.0623	3.1324	0.0017
UKB	Arm predicted mass (right)	0.0885	0.0284	3.1147	0.0018
UKB	Treatment/medication code: aspirin	0.1923	0.0615	3.1241	0.0018
UKB	Diagnoses - main ICD10: N92 Excessive, frequent and irregular menstruation	0.3076	0.0985	3.1214	0.0018
UKB	Vitamin and mineral supplements: Vitamin B	0.3045	0.0981	3.1034	0.0019
UKB	Mineral and other dietary supplements: None of the above	0.1712	0.0551	3.1085	0.0019
UKB	Diagnoses - main ICD10: M70 Soft tissue disorders related to use, overuse and pressure	0.4006	0.129	3.1046	0.0019
LDHUB	Triglycerides	0.1165	0.0376	3.099	0.0019
LDHUB	Mothers age at death	-0.2419	0.078	-3.1015	0.0019
UKB	Non-cancer illness code, self-reported: diabetes	0.1415	0.0458	3.0855	0.002
UKB	Treatment/medication code: codeine	0.4651	0.1522	3.0558	0.0022
LDHUB	Childhood obesity	0.1852	0.0605	3.0592	0.0022
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doct	-0.1084	0.0356	-3.0482	0.0023
UKB	Neck/shoulder pain for 3+ months	0.4561	0.1505	3.0311	0.0024
UKB	Impedance of whole body	-0.0863	0.0286	-3.0204	0.0025
UKB	Chest pain or discomfort when walking uphill or hurrying	0.53	0.1759	3.0137	0.0026
UKB	Diagnoses - main ICD10: M24 Other specific joint derangements	0.4691	0.1556	3.0144	0.0026
UKB	Headaches for 3+ months	0.2086	0.0694	3.0056	0.0027
LDHUB	Coronary artery disease	0.1385	0.0462	2.9977	0.0027
UKB	Current employment status: Unemployed	0.3068	0.1025	2.9935	0.0028
LDHUB	Height; Females at age 10 and males at age 12	-0.1571	0.0526	-2.9868	0.0028
UKB	Hearing difficulty/problems: Yes	0.1334	0.0448	2.9767	0.0029
LDHUB	Lung cancer (squamous cell)	0.5403	0.1817	2.9743	0.0029
UKB	Non-cancer illness code, self-reported: high cholesterol	0.1501	0.0505	2.9709	0.003
UKB	Current employment status: Looking after home and/or family	-0.2997	0.101	-2.9682	0.003
UKB	Diagnoses - main ICD10: K21 Gastro-oesophageal reflux disease	0.3735	0.126	2.9648	0.003
UKB	Hair/balding pattern: Pattern 3	-0.1604	0.0542	-2.9578	0.0031
UKB	Diagnoses - main ICD10: N81 Female genital prolapse	0.2811	0.095	2.9592	0.0031
UKB	Arm fat-free mass (right)	0.0842	0.0286	2.9454	0.0032
UKB	Diagnoses - main ICD10: K57 Diverticular disease of intestine	0.194	0.0661	2.9342	0.0033
UKB	Transport type for commuting to job workplace: Walk	-0.2402	0.0821	-2.9275	0.0034
UKB	Diagnoses - main ICD10: K30 Dyspepsia	0.7571	0.2596	2.9168	0.0035
UKB	Non-cancer illness code, self-reported: endometriosis	0.6087	0.2088	2.9149	0.0036
UKB	Illnesses of siblings: High blood pressure	0.1451	0.0498	2.9142	0.0036
LDHUB	Lung adenocarcinoma	0.3771	0.1302	2.8966	0.0038
UKB	Non-cancer illness code, self-reported: diverticular disease/diverticulitis	0.2015	0.0697	2.8899	0.0039
UKB	Treatment/medication code: salbutamol 100micrograms spacehaler	0.3067	0.1066	2.876	0.004
UKB	Why stopped smoking: None of the above	0.2417	0.0847	2.8523	0.0043
UKB	Birth weight of first child	-0.1149	0.0404	-2.8478	0.0044
UKB	Number of depression episodes	0.3898	0.137	2.8457	0.0044
UKB	Illnesses of mother: Diabetes	0.1782	0.0628	2.84	0.0045
UKB	Smoking status: Previous	0.1329	0.0469	2.8326	0.0046
LDHUB	Extreme bmi	0.1616	0.0573	2.8191	0.0048
UKB	Diagnoses - main ICD10: T81 Complications of procedures, not elsewhere classified	0.3991	0.142	2.811	0.0049
UKB	Treatment/medication code: symbicort 100/6 turbohaler	0.4509	0.1605	2.8094	0.005
UKB	Relative age voice broke	-0.1357	0.0486	-2.7909	0.0053
UKB	Mouth/teeth dental problems: Mouth ulcers	0.1456	0.0522	2.7899	0.0053
UKB	Family relationship satisfaction	0.1736	0.0623	2.7844	0.0054
UKB	Diagnoses - main ICD10: R55 Syncope and collapse	0.2607	0.0937	2.7817	0.0054

UKB	Non-cancer illness code, self-reported: hypothyroidism/myxoedema	0.1172	0.0423	2.7728	0.0056
UKB	Illnesses of siblings: Lung cancer	0.3926	0.1418	2.7695	0.0056
UKB	Diagnoses - main ICD10: K22 Other diseases of oesophagus	0.5018	0.1821	2.7555	0.0059
UKB	Basal metabolic rate	0.0782	0.0286	2.7374	0.0062
UKB	Pulse rate	0.1131	0.0417	2.7139	0.0066
UKB	Diagnoses - main ICD10: Z03 Medical observation and evaluation for suspected diseases and	0.3583	0.1323	2.7077	0.0068
UKB	Diagnoses - main ICD10: K60 Fissure and fistula of anal and rectal regions	0.3399	0.1261	2.6956	0.007
UKB	Diagnoses - main ICD10: K80 Cholelithiasis	0.2413	0.0895	2.6954	0.007
LDHUB	Age at Menopause	-0.1389	0.0516	-2.6914	0.0071
UKB	Treatment/medication code: co-dydramol	0.5905	0.2198	2.687	0.0072
UKB	Treatment/medication code: ezetimibe	0.3262	0.1225	2.6629	0.0077
UKB	Why reduced smoking: Illness or ill health	0.4168	0.1564	2.6658	0.0077
UKB	Number of cigarettes currently smoked daily (current cigarette smokers)	0.262	0.0986	2.6559	0.0079
UKB	Treatment/medication code: quinine	0.2578	0.0974	2.6469	0.0081
UKB	Number of unsuccessful stop-smoking attempts	0.2067	0.0782	2.6429	0.0082
UKB	Non-cancer illness code, self-reported: irritable bowel syndrome	0.3174	0.1209	2.6263	0.0086
LDHUB	Overweight	0.1126	0.0428	2.6278	0.0086
UKB	Forced expiratory volume in 1-second (FEV1), predicted	-0.1109	0.0423	-2.6229	0.0087
UKB	Diagnoses - main ICD10: K62 Other diseases of anus and rectum	0.328	0.1254	2.615	0.0089
UKB	Time employed in main current job	-0.2399	0.0921	-2.606	0.0092
LDHUB	Amyotrophic lateral sclerosis	0.3485	0.1347	2.5874	0.0097
UKB	Treatment/medication code: atorvastatin	0.174	0.0674	2.5801	0.0099
UKB	Diagnoses - main ICD10: R06 Abnormalities of breathing	0.4828	0.1871	2.5806	0.0099
UKB	Loud music exposure frequency	0.2047	0.0805	2.5447	0.0109
UKB	Treatment/medication code: ramipril	0.1568	0.0616	2.5452	0.0109
UKB	Treatment/medication code: bendroflumethiazide	0.1201	0.0477	2.5203	0.0117
UKB	Treatment/medication code: temazepam	0.3962	0.1574	2.5163	0.0119
UKB	Reason for reducing amount of alcohol drunk: Doctor's advice	0.4418	0.176	2.5102	0.0121
UKB	Diagnoses - main ICD10: R69 Unknown and unspecified causes of morbidity	0.2648	0.1055	2.5106	0.0121
UKB	Reason for reducing amount of alcohol drunk: Illness or ill health	0.3558	0.142	2.5058	0.0122
UKB	Diagnoses - main ICD10: K44 Diaphragmatic hernia	0.3624	0.1447	2.5038	0.0123
UKB	Leg pain when standing still or sitting	0.6619	0.2648	2.4993	0.0124
UKB	Tinnitus: Yes, now most or all of the time	0.1929	0.0772	2.5	0.0124
UKB	Handedness (chirality/laterality): Use both right and left hands equally	0.3065	0.123	2.4915	0.0127
UKB	Diagnoses - main ICD10: I83 Varicose veins of lower extremities	0.1801	0.0723	2.4913	0.0127
UKB	Treatment/medication code: glucosamine product	-0.2105	0.0846	-2.4891	0.0128
LDHUB	Lumbar Spine bone mineral density	-0.1645	0.0662	-2.4846	0.013
UKB	Started insulin within one year diagnosis of diabetes	-0.203	0.0819	-2.4801	0.0131
UKB	Treatment/medication code: loratadine	0.3133	0.1267	2.473	0.0134
LDHUB	Celiac disease	-0.1897	0.0773	-2.4551	0.0141
UKB	Non-cancer illness code, self-reported: headaches (not migraine)	0.6028	0.2458	2.4529	0.0142
UKB	Treatment/medication code: amlodipine	0.1334	0.0545	2.4472	0.0144
UKB	Diagnoses - main ICD10: K52 Other non-infective gastro-enteritis and colitis	0.2692	0.11	2.448	0.0144
UKB	Diagnoses - main ICD10: I84 Haemorrhoids	0.2108	0.0862	2.445	0.0145
UKB	Non-cancer illness code, self-reported: cervical spondylosis	0.3723	0.1524	2.4429	0.0146
UKB	Illnesses of father: Severe depression	0.3026	0.124	2.4397	0.0147
UKB	Non-cancer illness code, self-reported: gastric/stomach ulcers	0.4866	0.2003	2.4289	0.0151
UKB	Treatment/medication code: venlafaxine	0.3863	0.1592	2.4262	0.0153
UKB	Treatment/medication code: spiriva 18micrograms inhalation capsule	0.3212	0.1328	2.4187	0.0156
UKB	Non-cancer illness code, self-reported: bladder problem (not cancer)	0.3488	0.1459	2.3904	0.0168
UKB	Non-cancer illness code, self-reported: uterine fibroids	0.2346	0.0982	2.3901	0.0168
UKB	Diagnoses - main ICD10: T84 Complications of internal orthopaedic prosthetic devices, implar	0.2685	0.1126	2.3848	0.0171
UKB	Diagnoses - main ICD10: T43 Poisoning by psychotropic drugs, not elsewhere classified	0.6075	0.2549	2.3833	0.0172
UKB	Duration of light DIY	0.164	0.069	2.3775	0.0174
UKB	Non-cancer illness code, self-reported: cholelithiasis/gall stones	0.238	0.1001	2.3772	0.0174
UKB	Ever had breast cancer screening / mammogram	-0.265	0.1115	-2.3764	0.0175
UKB	Treatment/medication code: reductil 10mg capsule	0.5294	0.2236	2.3673	0.0179
UKB	Treatment/medication code: tiotropium	0.4108	0.1737	2.3655	0.018
LDHUB	Fasting glucose main effect	0.146	0.0618	2.3606	0.0182
UKB	Mineral and other dietary supplements: Fish oil (including cod liver oil)	-0.1348	0.0573	-2.3526	0.0186
UKB	Diagnoses - main ICD10: K76 Other diseases of liver	0.5381	0.2289	2.3506	0.0187
UKB	Diagnoses - main ICD10: M23 Internal derangement of knee	0.2347	0.0999	2.3483	0.0189
UKB	Medication for cholesterol, blood pressure or diabetes: Blood pressure medication	0.1097	0.0468	2.3446	0.019



UKB	Non-cancer illness code, self-reported: back problem	0.2976	0.1271	2.3411	0.0192
UKB	Leg fat-free mass (left)	0.0673	0.0289	2.3258	0.02
UKB	Chest pain felt during physical activity	0.5723	0.2462	2.3248	0.0201
UKB	Tinnitus: Yes, now a lot of the time	0.2822	0.1214	2.3248	0.0201
UKB	Diagnoses - main ICD10: M19 Other arthrosis	0.4512	0.1941	2.3249	0.0201
UKB	Treatment/medication code: buprenorphine	0.5547	0.2387	2.3234	0.0202
UKB	Manic/hyper symptoms: I was more active than usual	0.5095	0.2196	2.3198	0.0203
UKB	Treatment/medication code: enalapril	0.2523	0.1088	2.318	0.0204
UKB	Treatment/medication code: levothyroxine sodium	0.1063	0.0459	2.3125	0.0207
UKB	Diagnoses - main ICD10: C18 Malignant neoplasm of colon	0.3002	0.1298	2.3133	0.0207
UKB	Non-cancer illness code, self-reported: chronic fatigue syndrome	0.3419	0.148	2.3097	0.0209
UKB	Diagnoses - main ICD10: M77 Other enthesopathies	0.4808	0.2082	2.3093	0.0209
UKB	Diagnoses - main ICD10: N64 Other disorders of breast	0.4214	0.183	2.3028	0.0213
UKB	Diagnoses - main ICD10: T39 Poisoning by nonopioid analgesics, antipyretics and antirheumal	0.7702	0.3346	2.3018	0.0213
UKB	Average weekly spirits intake	0.1436	0.0624	2.2999	0.0215
UKB	Leg predicted mass (left)	0.0664	0.029	2.2923	0.0219
UKB	Underlying (primary) cause of death: ICD10: J45.9 Asthma, unspecified	0.3491	0.1526	2.2882	0.0221
UKB	Treatment/medication code: xalatan 0.005% eye drops	-0.2178	0.0952	-2.2878	0.0222
UKB	Able to walk or cycle unaided for 10 minutes	-0.4977	0.2178	-2.2844	0.0223
LDHUB	Forced expiratory volume in 1 second (FEV1)	-0.1336	0.0586	-2.2789	0.0227
UKB	Duration of fitness test	-0.3235	0.1424	-2.2716	0.0231
UKB	Cancer code, self-reported: cervical cancer	0.2478	0.1092	2.2702	0.0232
LDHUB	Cigarettes smoked per day	0.2466	0.1086	2.2699	0.0232
UKB	Alcohol drinker status: Never	0.1549	0.0683	2.2671	0.0234
UKB	Reason for glasses/contact lenses: For 'astigmatism'	-0.1842	0.0813	-2.2664	0.0234
UKB	Relative age of first facial hair	-0.0988	0.044	-2.2446	0.0248
UKB	Treatment/medication code: simvastatin	0.1157	0.0516	2.2435	0.0249
UKB	Daytime dozing / sleeping (narcolepsy)	0.0953	0.0426	2.2369	0.0253
UKB	Vascular/heart problems diagnosed by doctor: Heart attack	0.141	0.063	2.2368	0.0253
UKB	Morning/evening person (chronotype)	-0.0821	0.0368	-2.2307	0.0257
UKB	Treatment/medication code: gtn 400micrograms spray	0.2642	0.1185	2.2301	0.0257
UKB	Home area population density - urban or rural: England/Wales - Village - less sparse	-0.6469	0.2903	-2.2284	0.0259
LDHUB	Citrate	-0.2432	0.1096	-2.2191	0.0265
LDHUB	Asthma	0.2066	0.0935	2.2096	0.0271
UKB	Treatment/medication code: evorel 25 patch	0.3551	0.1626	2.1831	0.029
UKB	Leg pain on walking : effect of standing still	-0.7184	0.3299	-2.1772	0.0295
UKB	Frequency of light DIY in last 4 weeks	0.1798	0.0826	2.1758	0.0296
UKB	Treatment/medication code: Free-text entry, unable to be coded	0.2828	0.1305	2.1676	0.0302
UKB	Stomach/abdominal pain for 3+ months	0.4814	0.2223	2.1657	0.0303
UKB	Non-cancer illness code, self-reported: heart attack/myocardial infarction	0.1333	0.0625	2.1329	0.0329
UKB	Diagnoses - main ICD10: Z46 Fitting and adjustment of other devices	0.2794	0.1313	2.1278	0.0334
UKB	Diagnoses - main ICD10: I26 Pulmonary embolism	0.375	0.1766	2.124	0.0337
UKB	Treatment/medication code: isosorbide mononitrate	0.239	0.1126	2.123	0.0338
UKB	Illnesses of siblings: Stroke	0.4765	0.2244	2.1229	0.0338
UKB	Treatment/medication code: paroxetine	0.4133	0.1963	2.1054	0.0353
UKB	Diagnoses - main ICD10: H53 Visual disturbances	0.2807	0.1334	2.1039	0.0354
UKB	Diagnoses - main ICD10: J22 Unspecified acute lower respiratory infection	0.4309	0.2056	2.0953	0.0361
UKB	Treatment/medication code: hyoscine butylbromide	0.446	0.2129	2.0943	0.0362
UKB	Fractured bone site(s): Other bones	0.2126	0.1021	2.0824	0.0373
LDHUB	Leptin_not_adjBMI	0.1616	0.0781	2.0681	0.0386
UKB	Leg pain in calf/calves	0.7097	0.3435	2.0662	0.0388
UKB	Illnesses of siblings: Prostate cancer	0.2465	0.1193	2.0666	0.0388
UKB	Non-cancer illness code, self-reported: kidney stone/ureter stone/bladder stone	0.1691	0.0818	2.0656	0.0389
UKB	Mineral and other dietary supplements: Calcium	-0.1525	0.0739	-2.0649	0.0389
UKB	Diagnoses - main ICD10: G44 Other headache syndromes	0.3443	0.1667	2.0654	0.0389
UKB	Sitting height	-0.0573	0.0279	-2.0546	0.0399
UKB	Diagnoses - main ICD10: M48 Other spondylopathies	0.3494	0.1705	2.0489	0.0405
UKB	Medication for cholesterol, blood pressure or diabetes: None of the above	-0.0987	0.0483	-2.0416	0.0412
LDHUB	Forced Vital capacity(FVC)	-0.1044	0.0513	-2.0339	0.042
UKB	Treatment/medication code: vitamin b compound tablet	0.2443	0.1203	2.0309	0.0423
LDHUB	Hip circumference	0.0725	0.0357	2.0309	0.0423
UKB	Treatment/medication code: aqueous cream bp	0.5528	0.2725	2.0287	0.0425
UKB	Systolic blood pressure, automated reading	0.0697	0.0346	2.0167	0.0437

UKB	Type of tobacco previously smoked: Hand-rolled cigarettes	0.3009	0.1494	2.0141	0.044
UKB	Non-cancer illness code, self-reported: pneumonia	0.3119	0.1551	2.011	0.0443
UKB	Treatment/medication code: clopidogrel	0.2735	0.1371	1.9948	0.0461
UKB	Diagnoses - main ICD10: K02 Dental caries	0.4866	0.2442	1.9925	0.0463
UKB	Non-cancer illness code, self-reported: joint disorder	0.4538	0.2285	1.9863	0.047
UKB	Non-cancer illness code, self-reported: cataract	0.2857	0.1439	1.9858	0.0471
UKB	Fractured/broken bones in last 5 years	0.1368	0.069	1.9826	0.0474
UKB	Treatment/medication code: cod liver oil capsule	-0.246	0.1242	-1.9807	0.0476
UKB	Diagnoses - main ICD10: N80 Endometriosis	0.2541	0.1284	1.9791	0.0478
UKB	Type of tobacco currently smoked: Hand-rolled cigarettes	0.3898	0.1974	1.9742	0.0484
UKB	Treatment/medication code: latanoprost	0.2279	0.116	1.9642	0.0495
UKB	Part of a multiple birth	0.3237	0.1648	1.9638	0.0496
UKB	Diagnoses - main ICD10: N20 Calculus of kidney and ureter	0.1679	0.086	1.9513	0.051
LDHUB	Rheumatoid Arthritis	0.1083	0.0555	1.951	0.0511
UKB	Treatment/medication code: pioglitazone	0.2055	0.1057	1.9444	0.0518
UKB	Cancer code, self-reported: testicular cancer	0.2812	0.1448	1.9414	0.0522
UKB	Treatment/medication code: clonidine	0.3326	0.1715	1.9389	0.0525
UKB	Non-cancer illness code, self-reported: urinary frequency / incontinence	0.2687	0.1389	1.9347	0.053
UKB	Current employment status: Retired	-0.1638	0.0849	-1.9295	0.0537
UKB	Ever had prostate specific antigen (PSA) test	-0.1272	0.066	-1.9269	0.054
UKB	Illnesses of father: Bowel cancer	0.2817	0.1464	1.9249	0.0542
UKB	Tinnitus: Yes, now some of the time	0.4947	0.2573	1.9228	0.0545
LDHUB	Difference in height between adolescence and adulthood; age 14	0.2034	0.1058	1.9231	0.0545
UKB	Friendships satisfaction	0.1127	0.0588	1.9159	0.0554
UKB	Treatment/medication code: esomeprazole	0.466	0.2436	1.9129	0.0558
UKB	Diagnoses - main ICD10: O42 Premature rupture of membranes	-0.5536	0.2896	-1.9115	0.0559
LDHUB	Primary sclerosing cholangitis	-0.1316	0.0688	-1.9118	0.0559
LDHUB	Infant head circumference	-0.1818	0.0952	-1.9094	0.0562
UKB	Likelihood of resuming smoking	-0.4058	0.2129	-1.9061	0.0566
LDHUB	22:6 docosahexaenoic acid	-0.1941	0.1021	-1.9013	0.0573
UKB	Fractured bone site(s): Ankle	0.1799	0.0948	1.8981	0.0577
UKB	Diagnoses - main ICD10: O75 Other complications of labour and delivery, not elsewhere class	0.2728	0.1441	1.8935	0.0583
UKB	Fractured bone site(s): Spine	0.3185	0.1692	1.8818	0.0599
UKB	Treatment/medication code: antihistamine 60mg tablet	0.3555	0.189	1.8807	0.06
UKB	Diagnoses - main ICD10: D17 Benign lipomatous neoplasm	0.2702	0.144	1.8765	0.0606
LDHUB	Mean Caudate	0.1512	0.0808	1.872	0.0612
UKB	Non-cancer illness code, self-reported: alcohol dependency	0.2693	0.1444	1.8648	0.0622
UKB	Eye problems/disorders: None of the above	-0.1591	0.0854	-1.8639	0.0623
UKB	Non-cancer illness code, self-reported: other abdominal problem	0.3944	0.2118	1.8619	0.0626
UKB	Diagnoses - main ICD10: R23 Other skin changes	0.2309	0.1242	1.859	0.063
UKB	Diagnoses - main ICD10: K14 Diseases of tongue	0.3803	0.2047	1.8576	0.0632
UKB	Frequency of strenuous sports in last 4 weeks	0.2636	0.1419	1.8569	0.0633
UKB	Non-cancer illness code, self-reported: type 2 diabetes	0.1804	0.0972	1.856	0.0635
UKB	Diagnoses - main ICD10: F10 Mental and behavioural disorders due to use of alcohol	0.2399	0.1296	1.8517	0.0641
UKB	Leg pain when walking uphill or hurrying	0.311	0.1688	1.8429	0.0653
UKB	Wants to stop smoking	-0.5432	0.2956	-1.8377	0.0661
UKB	Non-cancer illness code, self-reported: gall bladder disease	0.4297	0.2342	1.8347	0.0665
UKB	Non-cancer illness code, self-reported: carpal tunnel syndrome	0.428	0.2336	1.8319	0.067
UKB	Treatment/medication code: rosiglitazone	0.2942	0.1607	1.8305	0.0672
UKB	Non-cancer illness code, self-reported: diabetic eye disease	0.3347	0.1836	1.8232	0.0683
UKB	Diagnoses - main ICD10: C34 Malignant neoplasm of bronchus and lung	0.5218	0.2866	1.8207	0.0687
UKB	Diagnoses - main ICD10: N13 Obstructive and reflux uropathy	0.3603	0.1982	1.8175	0.0691
UKB	Diagnoses - main ICD10: J18 Pneumonia, organism unspecified	0.3239	0.1785	1.8146	0.0696
LDHUB	Heart rate	0.0973	0.0537	1.8128	0.0699
UKB	Treatment/medication code: flax oil tablet	0.2044	0.1131	1.8073	0.0707
LDHUB	HDL cholesterol	-0.0953	0.0527	-1.8068	0.0708
UKB	Types of transport used (excluding work): None of the above	0.2373	0.1314	1.8059	0.0709
UKB	Treatment/medication code: doxazosin	0.1715	0.0951	1.804	0.0712
UKB	Non-cancer illness code, self-reported: helicobacter pylori	0.4651	0.2579	1.8034	0.0713
UKB	Treatment/medication code: mebeverine	0.305	0.1693	1.8021	0.0715
UKB	Leg fat-free mass (right)	0.051	0.0283	1.801	0.0717
UKB	Treatment/medication code: diclofenac sodium+misoprostol	0.2785	0.1551	1.7958	0.0725
UKB	Getting up in morning	-0.0762	0.0425	-1.7956	0.0726

UKB	Leg predicted mass (right)	0.0505	0.0281	1.7956	0.0726
UKB	Non-cancer illness code, self-reported: allergy or anaphylactic reaction to drug	0.5564	0.3099	1.7954	0.0726
UKB	Treatment/medication code: ipratropium	0.2897	0.1615	1.794	0.0728
UKB	Non-cancer illness code, self-reported: migraine	0.11	0.0618	1.7808	0.075
UKB	Treatment/medication code: escitalopram	0.2357	0.1325	1.7791	0.0752
UKB	Diagnoses - main ICD10: M67 Other disorders of synovium and tendon	0.2943	0.1662	1.7702	0.0767
UKB	Why reduced smoking: Doctor's advice	0.727	0.4121	1.7643	0.0777
UKB	Treatment/medication code: beclometasone	0.1812	0.1028	1.7634	0.0778
UKB	Whole body fat-free mass	0.0499	0.0283	1.7608	0.0783
UKB	Vitamin and mineral supplements: None of the above	-0.0953	0.0542	-1.759	0.0786
UKB	Father still alive	0.1977	0.1129	1.7521	0.0798
UKB	Diagnoses - main ICD10: N97 Female infertility	0.2691	0.1537	1.7509	0.08
UKB	Diagnoses - main ICD10: E66 Obesity	0.257	0.1479	1.7379	0.0822
UKB	Fractured bone site(s): Hip	0.2443	0.1406	1.7372	0.0824
UKB	Diagnoses - main ICD10: C67 Malignant neoplasm of bladder	0.3278	0.1887	1.737	0.0824
UKB	Whole body water mass	0.0489	0.0282	1.7345	0.0828
UKB	Diagnoses - main ICD10: F32 Depressive episode	0.4346	0.2514	1.7285	0.0839
UKB	Non-cancer illness code, self-reported: sciatica	0.4983	0.2888	1.7255	0.0844
UKB	Treatment/medication code: serevent 25mcg inhaler	0.2422	0.1406	1.7225	0.085
LDHUB	Type 2 Diabetes	0.102	0.0593	1.7199	0.0854
UKB	Treatment/medication code: detrusitol 1mg tablet	0.2701	0.1571	1.7187	0.0857
LDHUB	Sleep duration	-0.1021	0.0595	-1.7152	0.0863
UKB	Diagnoses - main ICD10: K81 Cholecystitis	0.3069	0.1797	1.7077	0.0877
UKB	Eye problems/disorders: Cataract	0.1495	0.0875	1.7073	0.0878
UKB	Diagnoses - main ICD10: I86 Varicose veins of other sites	0.611	0.359	1.7021	0.0887
UKB	Treatment/medication code: senna	0.409	0.2408	1.6986	0.0894
UKB	Treatment/medication code: movicol oral powder	0.2838	0.1671	1.6978	0.0896
UKB	Birth weight	-0.0679	0.0402	-1.6889	0.0912
UKB	Diagnoses - main ICD10: J46 Status asthmaticus	0.2925	0.1732	1.689	0.0912
UKB	Vitamin and mineral supplements: Vitamin C	0.1196	0.071	1.6859	0.0918
UKB	Treatment/medication code: elleste-solo 1mg tablet	0.2502	0.1487	1.6823	0.0925
LDHUB	Forced expiratory volume in 1 second (FEV1)	-0.086	0.0512	-1.681	0.0928
UKB	Treatment/medication code: salmeterol	0.2252	0.1344	1.6758	0.0938
UKB	Treatment/medication code: chondroitin product	-0.1881	0.1125	-1.6726	0.0944
LDHUB	Child birth length	-0.1268	0.0758	-1.6723	0.0945
UKB	Knee pain for 3+ months	0.1616	0.0967	1.6712	0.0947
UKB	Treatment/medication code: verapamil	0.365	0.2184	1.6713	0.0947
UKB	Average monthly red wine intake	-0.2218	0.1329	-1.6682	0.0953
UKB	Diagnoses - main ICD10: N40 Hyperplasia of prostate	-0.1703	0.1024	-1.6623	0.0965
UKB	Diagnoses - main ICD10: M72 Fibroblastic disorders	0.1258	0.0757	1.6618	0.0966
UKB	Treatment/medication code: rhinocort 50micrograms nasal spray	0.2222	0.1339	1.6595	0.097
UKB	Diagnoses - main ICD10: M50 Cervical disk disorders	0.5728	0.3454	1.6585	0.0972
UKB	Treatment/medication code: thiamine preparation	0.3209	0.1936	1.6579	0.0973
UKB	Vitamin and mineral supplements: Vitamin E	0.1596	0.0963	1.6577	0.0974
UKB	Diagnoses - main ICD10: C50 Malignant neoplasm of breast	-0.1332	0.0804	-1.6565	0.0976
UKB	Treatment/medication code: conjugated oestrogens	0.2897	0.175	1.6559	0.0977
LDHUB	Fasting insulin main effect	0.119	0.072	1.6537	0.0982
UKB	Home area population density - urban or rural: Scotland - Large Urban Area	-0.2108	0.1283	-1.6431	0.1004
UKB	Reason for glasses/contact lenses: For long-sightedness, i.e. for distance and near, but partici	0.1308	0.0797	1.6427	0.1004
UKB	Treatment/medication code: dipyridamole	0.2357	0.1435	1.6419	0.1006
UKB	Treatment/medication code: qvar 50 inhaler	0.4195	0.2561	1.6382	0.1014
UKB	Diagnoses - main ICD10: Z47 Other orthopaedic follow-up care	0.208	0.1272	1.6347	0.1021
UKB	Treatment/medication code: polyvinyl alcohol 1% eye drops	0.4011	0.2456	1.6329	0.1025
UKB	Diagnoses - main ICD10: R53 Malaise and fatigue	0.3322	0.2038	1.6302	0.1031
UKB	Non-cancer illness code, self-reported: pleurisy	0.316	0.1939	1.6291	0.1033
UKB	Diagnoses - main ICD10: R31 Unspecified haematuria	0.2555	0.1569	1.6281	0.1035
UKB	Non-cancer illness code, self-reported: renal failure requiring dialysis	0.2467	0.1516	1.6275	0.1036
UKB	Number of self-reported cancers	0.1559	0.0959	1.626	0.104
UKB	Diagnoses - main ICD10: R04 Haemorrhage from respiratory passages	0.8619	0.5303	1.6251	0.1041
UKB	Years since last cervical smear test	0.2179	0.1342	1.6243	0.1043
UKB	Diagnoses - main ICD10: J34 Other disorders of nose and nasal sinuses	0.3307	0.2038	1.623	0.1046
LDHUB	Serum cystatin c	-0.1037	0.064	-1.619	0.1054
UKB	Non-cancer illness code, self-reported: emphysema	0.2244	0.1387	1.6176	0.1058

UKB	Diagnoses - main ICD10: O04 Medical abortion	0.587	0.3634	1.6152	0.1063
UKB	Treatment/medication code: rino clenil 50micrograms nasal spray	0.2115	0.1311	1.6136	0.1066
UKB	Tobacco smoking: Smokes on most or all days	0.3042	0.1891	1.6084	0.1078
UKB	Cancer code, self-reported: kidney/renal cell cancer	0.3493	0.2178	1.6039	0.1087
UKB	Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctc	-0.0582	0.0363	-1.6025	0.1091
UKB	Illnesses of mother: Heart disease	0.1215	0.0761	1.5962	0.1104
UKB	Underlying (primary) cause of death: ICD10: C91.1 Chronic lymphocytic leukaemia	0.5084	0.3204	1.5866	0.1126
UKB	Diagnoses - main ICD10: A04 Other bacterial intestinal infections	0.2781	0.1755	1.5844	0.1131
UKB	Doctor diagnosed asthma	0.0972	0.0614	1.5838	0.1132
UKB	Treatment/medication code: trandolapril	0.2781	0.1759	1.581	0.1139
UKB	Treatment/medication code: cyclizine	0.3912	0.2474	1.5809	0.1139
LDHUB	2hr glucose adjusted for BMI	0.1805	0.1145	1.5764	0.1149
UKB	Treatment/medication code: cinnarizine	0.2713	0.1723	1.5744	0.1154
UKB	Home area population density - urban or rural: Scotland - Other Urban Area	-0.2437	0.1553	-1.5691	0.1166
UKB	Treatment/medication code: morphine	0.7635	0.4866	1.569	0.1167
UKB	Diagnoses - main ICD10: M13 Other arthritis	0.4594	0.294	1.5628	0.1181
UKB	Vitamin and mineral supplements: Multivitamins +/- minerals	0.092	0.0589	1.5618	0.1183
UKB	Treatment/medication code: candesartan cilexetil	0.1279	0.082	1.5601	0.1187
UKB	Non-cancer illness code, self-reported: pernicious anaemia	0.2169	0.1397	1.553	0.1204
LDHUB	HbA1C	0.1167	0.0751	1.5532	0.1204
UKB	Non-cancer illness code, self-reported: gout	0.0846	0.0546	1.5489	0.1214
UKB	Treatment/medication code: fluticasone	0.3266	0.2113	1.5455	0.1222
UKB	Diagnoses - main ICD10: K92 Other diseases of digestive system	0.5209	0.3373	1.5443	0.1225
UKB	Length of menstrual cycle	-0.1306	0.0846	-1.5427	0.1229
LDHUB	Creatinine	-0.1269	0.0824	-1.5403	0.1235
UKB	Illnesses of father: High blood pressure	0.0944	0.0617	1.5302	0.126
LDHUB	Extreme waist-to-hip ratio	0.1362	0.0891	1.529	0.1263
UKB	Treatment/medication code: peptac liquid	0.483	0.3168	1.5247	0.1273
UKB	Most recent bowel cancer screening	0.1769	0.1161	1.5238	0.1276
UKB	Treatment/medication code: lipantil micro 67mg capsule	0.2667	0.175	1.5235	0.1276
UKB	Treatment/medication code: premarin 625micrograms tablet	0.3589	0.2362	1.5194	0.1287
UKB	Treatment/medication code: multivitamin+mineral preparations	-0.2691	0.1772	-1.5184	0.1289
UKB	Number of pregnancy terminations	0.1161	0.0768	1.5124	0.1304
UKB	Reason former drinker stopped drinking alcohol: Financial reasons	0.3571	0.2363	1.5111	0.1308
UKB	Diagnoses - main ICD10: Z30 Contraceptive management	0.5129	0.3395	1.5107	0.1309
UKB	Treatment/medication code: colchicine	0.1823	0.1213	1.5027	0.1329
UKB	Non-cancer illness code, self-reported: ear/vestibular disorder	0.3011	0.2006	1.5009	0.1334
UKB	Comparative body size at age 10	-0.0507	0.0338	-1.4992	0.1338
LDHUB	Tyrosine	0.1432	0.0956	1.4974	0.1343
UKB	Diagnoses - main ICD10: O68 Labour and delivery complicated by foetal stress [distress]	-0.2242	0.1504	-1.4912	0.1359
UKB	Diagnoses - main ICD10: L50 Urticaria	0.2243	0.1511	1.4843	0.1377
UKB	Treatment/medication code: digoxin	0.194	0.1314	1.4765	0.1398
UKB	Treatment/medication code: sodium cromoglicate	0.1819	0.1238	1.4692	0.1418
UKB	Diagnoses - main ICD10: H33 Retinal detachments and breaks	-0.161	0.1096	-1.4682	0.142
UKB	Diagnoses - main ICD10: D16 Benign neoplasm of bone and articular cartilage	0.3295	0.2244	1.4681	0.1421
UKB	Eye problems/disorders: Diabetes related eye disease	0.1383	0.0943	1.4669	0.1424
UKB	Illnesses of mother: None of the above (group 1)	-0.0941	0.0642	-1.4658	0.1427
UKB	Diagnoses - main ICD10: M18 Arthrosis of first carpometacarpal joint	0.436	0.2979	1.4636	0.1433
LDHUB	Primary biliary cirrhosis	0.1196	0.0818	1.461	0.144
LDHUB	Forced Vital capacity(FVC)	-0.0801	0.0549	-1.4585	0.1447
UKB	Diagnoses - main ICD10: R11 Nausea and vomiting	0.7979	0.548	1.4562	0.1453
UKB	Treatment/medication code: tolterodine l-tartrate	0.3243	0.2227	1.4559	0.1454
UKB	Diagnoses - main ICD10: J03 Acute tonsillitis	0.2516	0.1728	1.4558	0.1454
UKB	Treatment/medication code: allopurinol	0.0736	0.0509	1.4446	0.1486
UKB	Home area population density - urban or rural: England/Wales - Hamlet and Isolated Dwelling	-0.2137	0.1481	-1.4424	0.1492
UKB	Vitamin and mineral supplements: Vitamin A	0.1908	0.1326	1.4384	0.1503
UKB	Underlying (primary) cause of death: ICD10: C25.9 Pancreas, unspecified	-0.2581	0.1798	-1.436	0.151
UKB	Which eye(s) affected by astigmatism: Right eye	0.1522	0.1061	1.4338	0.1516
UKB	Treatment/medication code: beconase 50micrograms nasal spray	-0.2422	0.1692	-1.4316	0.1523
UKB	Diagnoses - main ICD10: C69 Malignant neoplasm of eye and adnexa	-0.3104	0.217	-1.4306	0.1526
LDHUB	Age of smoking initiation	-0.1746	0.1221	-1.4303	0.1526
UKB	Treatment/medication code: salmeterol+fluticasone propionate	0.4381	0.3067	1.4286	0.1531
UKB	Treatment/medication code: oilatum cream	0.2194	0.1536	1.4284	0.1532

UKB	Diagnoses - main ICD10: C15 Malignant neoplasm of oesophagus	0.1847	0.1294	1.4272	0.1535
UKB	Diagnoses - main ICD10: O20 Haemorrhage in early pregnancy	0.3873	0.2715	1.4265	0.1537
UKB	Manic/hyper symptoms: I needed less sleep than usual	0.3766	0.2642	1.4251	0.1541
UKB	Non-cancer illness code, self-reported: spinal injury	0.204	0.1432	1.4248	0.1542
UKB	Doctor diagnosed COPD (chronic obstructive pulmonary disease)	0.4738	0.3326	1.4244	0.1543
UKB	Non-cancer illness code, self-reported: post-natal depression	0.3235	0.2271	1.4246	0.1543
LDHUB	Triglycerides in chylomicrons and largest VLDL particles	-0.13	0.0918	-1.4156	0.1569
UKB	Diagnoses - main ICD10: I10 Essential (primary) hypertension	0.3354	0.2377	1.4111	0.1582
UKB	Treatment/medication code: beclazone 50 inhaler	0.1682	0.1195	1.4077	0.1592
UKB	Treatment/medication code: co-tenidone	-0.2407	0.1711	-1.4068	0.1595
UKB	Diagnoses - main ICD10: E87 Other disorders of fluid, electrolyte and acid-base balance	0.4155	0.2961	1.4033	0.1605
UKB	Diagnoses - main ICD10: K58 Irritable bowel syndrome	0.6775	0.4831	1.4022	0.1609
UKB	Underlying (primary) cause of death: ICD10: C73 Malignant neoplasm of thyroid gland	0.1821	0.13	1.4016	0.161
UKB	Non-cancer illness code, self-reported: ankylosing spondylitis	0.2557	0.1828	1.399	0.1618
LDHUB	Phospholipids in very large VLDL	-0.1233	0.0883	-1.3967	0.1625
UKB	Diagnoses - main ICD10: R05 Cough	0.2317	0.1662	1.394	0.1633
UKB	Diagnoses - main ICD10: G43 Migraine	0.2569	0.1844	1.3936	0.1634
UKB	Treatment/medication code: trospium	0.3872	0.2786	1.39	0.1645
LDHUB	Lumbar spine bone mineral density	-0.0722	0.0519	-1.3895	0.1647
LDHUB	Systemic lupus erythematosus	0.09	0.0649	1.3867	0.1655
UKB	Pace-maker	0.266	0.1926	1.3813	0.1672
UKB	Diagnoses - main ICD10: L72 Follicular cysts of skin and subcutaneous tissue	0.2117	0.1536	1.3782	0.1681
UKB	Diagnoses - main ICD10: K63 Other diseases of intestine	0.3773	0.2738	1.3778	0.1683
LDHUB	Forced expiratory volume in 1 second (FEV1)/Forced Vital capacity(FVC)	-0.0864	0.0629	-1.3743	0.1694
UKB	Diagnoses - main ICD10: R47 Speech disturbances, not elsewhere classified	0.3795	0.2765	1.3724	0.1699
UKB	Diagnoses - main ICD10: T50 Poisoning by diuretics and other and unspecified drugs, medicar	0.1743	0.1271	1.3716	0.1702
UKB	Diagnoses - main ICD10: N76 Other inflammation of vagina and vulva	0.3601	0.2628	1.3703	0.1706
UKB	Non-cancer illness code, self-reported: tennis elbow / lateral epicondylitis	0.1703	0.1248	1.3648	0.1723
LDHUB	Total lipids in small HDL	0.2048	0.1501	1.3646	0.1724
UKB	Treatment/medication code: salamol 100micrograms inhaler	0.2054	0.1511	1.3596	0.1739
LDHUB	Acetate	-0.1804	0.1329	-1.3574	0.1746
UKB	Diagnoses - main ICD10: M10 Gout	0.2854	0.2107	1.3548	0.1755
UKB	Diagnoses - main ICD10: L97 Ulcer of lower limb, not elsewhere classified	-0.4485	0.3321	-1.3503	0.1769
UKB	Treatment/medication code: spironolactone	0.2071	0.1534	1.3501	0.177
LDHUB	Glycoprotein acetyls; mainly a1-acid glycoprotein	0.1182	0.0876	1.3488	0.1774
UKB	Non-cancer illness code, self-reported: meniere's disease	-0.3023	0.2243	-1.348	0.1777
UKB	Non-cancer illness code, self-reported: osteoporosis	0.0858	0.0639	1.3436	0.1791
UKB	Treatment/medication code: indoramin	-0.1786	0.1331	-1.3413	0.1798
UKB	Non-cancer illness code, self-reported: rheumatoid arthritis	0.1421	0.106	1.3409	0.1799
UKB	Non-cancer illness code, self-reported: femoral hernia	-0.2894	0.2159	-1.3402	0.1802
UKB	Non-cancer illness code, self-reported: liver/biliary/pancreas problem	0.2421	0.1817	1.3325	0.1827
UKB	Underlying (primary) cause of death: ICD10: I11.0 Hypertensive heart disease with (congestiv	0.6098	0.458	1.3313	0.1831
UKB	Treatment/medication code: kalms tablet	-0.2394	0.1799	-1.3308	0.1832
UKB	Treatment/medication code: flecainide	-0.1821	0.1368	-1.3308	0.1833
UKB	Diagnoses - main ICD10: R32 Unspecified urinary incontinence	0.3421	0.2572	1.3299	0.1835
UKB	Reason for glasses/contact lenses: Other eye condition	0.3409	0.2569	1.3267	0.1846
LDHUB	Concentration of very large VLDL particles	-0.1227	0.0926	-1.3247	0.1853
UKB	Treatment/medication code: lactulose product	0.3574	0.2702	1.3227	0.1859
UKB	Treatment/medication code: amisulpride	-0.3244	0.2457	-1.3203	0.1867
LDHUB	Phenylalanine	0.1649	0.1249	1.3205	0.1867
UKB	Treatment/medication code: selenium product	-0.2658	0.2017	-1.3181	0.1875
UKB	Medication for cholesterol, blood pressure or diabetes: Cholesterol lowering medication	0.0701	0.0533	1.3165	0.188
UKB	Treatment/medication code: ciprax 5mg tablet	0.3182	0.2422	1.3137	0.1889
LDHUB	Femoral Neck bone mineral density	-0.0837	0.0637	-1.3139	0.1889
LDHUB	Triglycerides in very large HDL	-0.1421	0.1085	-1.3096	0.1903
UKB	Treatment/medication code: pantoprazole	0.1607	0.1231	1.3063	0.1914
UKB	Treatment/medication code: iron product	0.213	0.1631	1.3056	0.1917
UKB	Frequency of stair climbing in last 4 weeks	-0.0674	0.0518	-1.3017	0.193
UKB	Treatment/medication code: salbutamol+ipratropium 100micrograms/20micrograms inhaler	0.5212	0.4013	1.2988	0.194
LDHUB	Ulcerative colitis	-0.0829	0.0638	-1.2983	0.1942
UKB	Non-cancer illness code, self-reported: pulmonary fibrosis	0.2801	0.2161	1.2962	0.1949
UKB	Diagnoses - main ICD10: M84 Disorders of continuity of bone	0.1987	0.1536	1.2941	0.1956
UKB	Treatment/medication code: chlorphenamine	0.2316	0.179	1.2935	0.1958

UKB	Used an inhaler for chest within last hour	0.201	0.1554	1.2933	0.1959
UKB	Diagnoses - main ICD10: G70 Myasthenia gravis and other myoneural disorders	-0.5302	0.41	-1.2932	0.196
UKB	Treatment/medication code: indapamide	-0.1826	0.1413	-1.2924	0.1962
LDHUB	Leptin_adjBMI	0.1023	0.0792	1.2919	0.1964
UKB	Diagnoses - main ICD10: G61 Inflammatory polyneuropathy	-0.2041	0.1581	-1.2911	0.1967
UKB	Diagnoses - main ICD10: L60 Nail disorders	0.2254	0.1749	1.2885	0.1976
UKB	Diagnoses - main ICD10: C43 Malignant melanoma of skin	-0.2768	0.2156	-1.2841	0.1991
UKB	Cancer code, self-reported: squamous cell carcinoma	-0.2782	0.2167	-1.2838	0.1992
UKB	Treatment/medication code: humira 40mg injection solution 0.8ml prefilled syringe	0.1922	0.1499	1.2821	0.1998
UKB	Underlying (primary) cause of death: ICD10: X70.0 Home	0.3072	0.2397	1.2816	0.2
UKB	Snoring	-0.0501	0.0391	-1.2792	0.2008
LDHUB	Triglycerides in very large VLDL	-0.1068	0.0836	-1.2769	0.2016
UKB	Doctor diagnosed lung cancer (not mesothelioma)	-0.1934	0.1515	-1.2762	0.2019
UKB	Diagnoses - main ICD10: T40 Poisoning by narcotics and psychodysleptics [hallucinogens]	0.4925	0.3863	1.2751	0.2023
LDHUB	Chronotype	0.0613	0.0481	1.275	0.2023
LDHUB	Total lipids in chylomicrons and largest VLDL particles	-0.115	0.0903	-1.2741	0.2026
UKB	Diagnoses - main ICD10: J01 Acute sinusitis	0.3594	0.2835	1.2679	0.2048
UKB	Diagnoses - main ICD10: D25 Leiomyoma of uterus	0.1149	0.0907	1.2675	0.205
UKB	Treatment/medication code: lumigan 0.3mg/ml eye drops	0.215	0.1698	1.2663	0.2054
UKB	Non-cancer illness code, self-reported: gastrointestinal bleeding	0.3068	0.243	1.2625	0.2068
UKB	Diagnoses - main ICD10: I24 Other acute ischaemic heart diseases	0.293	0.2323	1.261	0.2073
UKB	Non-cancer illness code, self-reported: measles / morbillivirus	-0.3034	0.2411	-1.2586	0.2082
UKB	Non-cancer illness code, self-reported: peripheral nerve injury	0.2819	0.2242	1.2577	0.2085
UKB	Non-cancer illness code, self-reported: disc problem	0.4728	0.3766	1.2552	0.2094
UKB	Diagnoses - main ICD10: N63 Unspecified lump in breast	0.2036	0.1627	1.2516	0.2107
UKB	Cancer code, self-reported: brain cancer / primary malignant brain tumour	0.5386	0.4318	1.2472	0.2123
UKB	Treatment/medication code: kapake tablet	0.2645	0.2122	1.2469	0.2124
UKB	Why stopped smoking: Financial reasons	-0.172	0.1385	-1.2417	0.2143
UKB	Treatment/medication code: nortriptyline	0.2658	0.2142	1.2409	0.2146
UKB	Non-cancer illness code, self-reported: unclassifiable	0.3674	0.2963	1.24	0.215
UKB	Difficulty not smoking for 1 day	0.1231	0.0994	1.2381	0.2157
UKB	Diagnoses - main ICD10: I50 Heart failure	0.1507	0.1223	1.2324	0.2178
UKB	Treatment/medication code: minims artificial tears single-use eye drops	0.3956	0.3214	1.2307	0.2184
UKB	Why reduced smoking: Health precaution	-0.2195	0.1784	-1.2298	0.2188
UKB	Cancer diagnosed by doctor	0.1109	0.0909	1.2202	0.2224
UKB	Treatment/medication code: atrovent 20micrograms inhaler	0.1991	0.1633	1.219	0.2228
UKB	Non-cancer illness code, self-reported: hayfever/allergic rhinitis	-0.0667	0.0548	-1.2183	0.2231
UKB	Diagnoses - main ICD10: S13 Dislocation, sprain and strain of joints and ligaments at neck lev	0.3269	0.2689	1.2157	0.2241
UKB	Non-cancer illness code, self-reported: dupuytren's contracture	0.2437	0.2006	1.2152	0.2243
UKB	Treatment/medication code: bendrofluzide	0.1278	0.1052	1.2151	0.2243
UKB	Hip pain for 3+ months	0.4609	0.3796	1.2142	0.2247
UKB	Diagnoses - main ICD10: M65 Synovitis and tenosynovitis	0.2021	0.1665	1.2136	0.2249
LDHUB	Anorexia Nervosa	0.0686	0.0566	1.2122	0.2254
UKB	Age when periods started (menarche)	-0.0356	0.0295	-1.2084	0.2269
UKB	Non-cancer illness code, self-reported: polycystic ovaries/polycystic ovarian syndrome	0.1709	0.1414	1.208	0.227
UKB	Treatment/medication code: zimovane ls 3.75mg tablet	0.2208	0.1831	1.2056	0.228
UKB	Diagnoses - main ICD10: Z01 Other special examinations and investigations of persons withou	0.2329	0.1932	1.2057	0.228
LDHUB	Cholesterol esters in large VLDL	-0.0883	0.0732	-1.2051	0.2282
UKB	Chest pain due to walking ceases when standing still	-0.4592	0.3814	-1.2038	0.2287
UKB	Type of tobacco previously smoked: Cigars or pipes	-0.1942	0.1614	-1.2035	0.2288
UKB	Diagnoses - main ICD10: S69 Other and unspecified injuries of wrist and hand	0.2252	0.1873	1.2025	0.2292
UKB	Non-cancer illness code, self-reported: epilepsy	0.1463	0.1219	1.1999	0.2302
UKB	Diagnoses - main ICD10: T17 Foreign body in respiratory tract	0.3587	0.299	1.1996	0.2303
UKB	Treatment/medication code: amiodarone	0.1589	0.1329	1.196	0.2317
UKB	Treatment/medication code: felodipine	0.148	0.1239	1.194	0.2325
UKB	Diagnoses - main ICD10: J45 Asthma	0.4536	0.3805	1.1922	0.2332
UKB	Treatment/medication code: diprosalic ointment	-0.1329	0.1116	-1.1908	0.2337
UKB	Diagnoses - main ICD10: N75 Diseases of Bartholin's gland	0.2238	0.188	1.1901	0.234
UKB	Non-cancer illness code, self-reported: fracture upper arm / humerus / elbow	-0.181	0.1522	-1.1889	0.2345
UKB	Diagnoses - main ICD10: H72 Perforation of tympanic membrane	0.3306	0.2784	1.1873	0.2351
LDHUB	Child birth weight	-0.0896	0.0756	-1.1858	0.2357
LDHUB	HOMA-IR	0.1123	0.0948	1.1853	0.2359
UKB	Non-cancer illness code, self-reported: bronchiectasis	0.2471	0.2085	1.1847	0.2361

UKB	Diagnoses - main ICD10: S22 Fracture of rib(s), sternum and thoracic spine	0.2054	0.1734	1.1848	0.2361
UKB	Which eye(s) affected by hypermetropia (long sight): Right eye	0.2066	0.1744	1.1843	0.2363
UKB	Treatment/medication code: clobetasol	0.2928	0.2473	1.184	0.2364
UKB	Diagnoses - main ICD10: K43 Ventral hernia	0.126	0.107	1.1782	0.2387
LDHUB	Free cholesterol in large VLDL	-0.0937	0.0797	-1.1753	0.2399
UKB	Non-cancer illness code, self-reported: raynaud's phenomenon/disease	-0.2145	0.1829	-1.1727	0.2409
UKB	Non-cancer illness code, self-reported: fracture skull / head	0.1512	0.1292	1.1698	0.2421
UKB	Diagnoses - main ICD10: H25 Senile cataract	0.1638	0.14	1.1695	0.2422
UKB	Treatment/medication code: docusate sodium	0.5511	0.4715	1.1686	0.2426
LDHUB	Multiple sclerosis	0.1846	0.158	1.1679	0.2429
UKB	Diagnoses - main ICD10: O36 Maternal care for other known or suspected foetal problems	0.19	0.1629	1.1667	0.2433
UKB	Non-cancer illness code, self-reported: appendicitis	0.2955	0.2551	1.1585	0.2466
UKB	Maximum heart rate during fitness test	-0.0931	0.0805	-1.1565	0.2475
UKB	Treatment/medication code: logynon tablet	-0.1803	0.1561	-1.1551	0.2481
UKB	Non-cancer illness code, self-reported: scleroderma/systemic sclerosis	-0.2409	0.2086	-1.1545	0.2483
UKB	Treatment/medication code: protelos 2g sachets	0.1805	0.1565	1.1534	0.2488
UKB	Non-cancer illness code, self-reported: peptic ulcer	0.37	0.321	1.1526	0.2491
UKB	Treatment/medication code: singulair 10mg tablet	0.6466	0.5618	1.1509	0.2498
UKB	Diagnoses - main ICD10: E10 Insulin-dependent diabetes mellitus	-0.1979	0.1724	-1.1477	0.2511
UKB	Years since last breast cancer screening / mammogram	-0.1739	0.1518	-1.1454	0.252
UKB	Treatment/medication code: creon e/c granules in capsule	0.3681	0.3217	1.1443	0.2525
UKB	Heel bone mineral density (BMD) T-score, automated (right)	-0.039	0.0342	-1.1427	0.2532
UKB	Treatment/medication code: gaviscon liquid	0.2367	0.2074	1.1411	0.2538
LDHUB	Albumin	0.1695	0.1486	1.1404	0.2541
UKB	Non-cancer illness code, self-reported: vertigo	0.324	0.2843	1.1397	0.2544
UKB	Diagnoses - main ICD10: H02 Other disorders of eyelid	0.3409	0.2994	1.1385	0.2549
LDHUB	Difference in height between childhood and adulthood; age 8	0.091	0.08	1.1377	0.2552
UKB	Underlying (primary) cause of death: ICD10: C15.9 Oesophagus, unspecified	0.1867	0.1643	1.1366	0.2557
UKB	Surgery on leg arteries (other than for varicose veins)	0.432	0.3801	1.1364	0.2558
UKB	Diagnoses - main ICD10: O64 Obstructed labour due to malposition and malpresentation of foetus	-0.2309	0.2033	-1.1359	0.256
UKB	Treatment/medication code: leflunomide	0.3699	0.3268	1.132	0.2576
UKB	Treatment/medication code: salmeterol product	0.1757	0.1555	1.1299	0.2585
UKB	Diagnoses - main ICD10: A87 Viral meningitis	0.1909	0.1693	1.1275	0.2595
UKB	Diagnoses - main ICD10: J38 Diseases of vocal cords and larynx, not elsewhere classified	0.3299	0.2934	1.1246	0.2608
UKB	Treatment/medication code: co-proxamol	0.3094	0.2759	1.1216	0.262
UKB	Treatment/medication code: naproxen	0.1504	0.1341	1.1214	0.2621
LDHUB	Concentration of chylomicrons and largest VLDL particles	-0.1104	0.0985	-1.1207	0.2624
UKB	Non-cancer illness code, self-reported: interstitial lung disease	-0.1575	0.1405	-1.1205	0.2625
UKB	Which eye(s) affected by myopia (short sight): Right eye	0.1218	0.1089	1.1187	0.2633
UKB	Diagnoses - main ICD10: N12 Tubulo-interstitial nephritis, not specified as acute or chronic	0.3875	0.3464	1.1187	0.2633
UKB	Diagnoses - main ICD10: O60 Preterm delivery	0.2247	0.201	1.1181	0.2635
UKB	Diagnoses - main ICD10: I65 Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction	0.1769	0.1582	1.118	0.2636
UKB	Diagnoses - main ICD10: D23 Other benign neoplasms of skin	0.207	0.1853	1.1171	0.264
UKB	Diagnoses - main ICD10: D21 Other benign neoplasms of connective and other soft tissue	0.1801	0.1614	1.1158	0.2645
UKB	Treatment/medication code: spasmonal 60mg capsule	0.347	0.3118	1.1129	0.2657
UKB	Non-cancer illness code, self-reported: chickenpox	-0.3602	0.3238	-1.1124	0.266
UKB	Treatment/medication code: mercilon tablet	0.1808	0.1631	1.1082	0.2678
UKB	Diagnoses - main ICD10: Z51 Other medical care	-0.2049	0.1851	-1.107	0.2683
UKB	Treatment/medication code: vitamin b6 preparation	-0.1778	0.1609	-1.1054	0.269
LDHUB	Autism spectrum disorder	-0.0949	0.086	-1.1041	0.2695
UKB	Diagnoses - main ICD10: L03 Cellulitis	0.1942	0.1759	1.1041	0.2696
UKB	Underlying (primary) cause of death: ICD10: I42.0 Dilated cardiomyopathy	-0.2559	0.2319	-1.1034	0.2699
UKB	Non-cancer illness code, self-reported: hyperthyroidism/thyrototoxicosis	-0.1087	0.0988	-1.1	0.2713
UKB	Treatment/medication code: indivina 1mg/2.5mg tablet	0.2412	0.2193	1.0998	0.2714
UKB	Number of older siblings	0.45	0.4108	1.0955	0.2733
UKB	Treatment/medication code: simvador 10mg tablet	0.2818	0.2574	1.095	0.2735
UKB	Diagnoses - main ICD10: L91 Hypertrophic disorders of skin	0.2287	0.2089	1.0949	0.2735
UKB	Non-cancer illness code, self-reported: oesophageal disorder	-0.1536	0.1403	-1.0947	0.2737
UKB	Treatment/medication code: climaval 1mg tablet	0.1915	0.1754	1.0915	0.2751
UKB	Treatment/medication code: solpadol caplet	0.443	0.4063	1.0904	0.2756
UKB	Treatment/medication code: dothiepin	0.3639	0.3342	1.0886	0.2763
LDHUB	ICV	-0.0991	0.0911	-1.088	0.2766
UKB	Non-cancer illness code, self-reported: allergy or anaphylactic reaction to food	0.6709	0.6167	1.0878	0.2767

UKB	Treatment/medication code: e45 cream	0.6593	0.6066	1.0868	0.2771
UKB	Treatment/medication code: mirapexin 0.088mg tablet	0.2617	0.2412	1.0852	0.2778
UKB	Treatment/medication code: irbesartan	0.1367	0.1263	1.0824	0.2791
UKB	Treatment/medication code: ginkgo forte tablet	-0.1582	0.1463	-1.0811	0.2797
UKB	Diagnoses - main ICD10: J47 Bronchiectasis	-0.2313	0.2141	-1.0808	0.2798
UKB	Treatment/medication code: etodolac	0.2796	0.2587	1.0806	0.2799
LDHUB	Total lipids in very large VLDL	-0.0908	0.0841	-1.0806	0.2799
UKB	Treatment/medication code: losartan	0.0858	0.0795	1.0794	0.2804
UKB	Leg pain when walking normally	0.2354	0.2181	1.0792	0.2805
UKB	Treatment/medication code: carbimazole	-0.3738	0.3468	-1.0779	0.2811
LDHUB	Forced expiratory volume in 1 second (FEV1)	-0.0875	0.0815	-1.0745	0.2826
UKB	Treatment/medication code: cabergoline	0.5896	0.5495	1.073	0.2833
UKB	Treatment/medication code: viazem xl 120mg m/r capsule	0.2036	0.19	1.0716	0.2839
LDHUB	Height_2010	-0.0394	0.0368	-1.07	0.2846
UKB	Non-cancer illness code, self-reported: psoriasis	0.0934	0.0874	1.0692	0.285
UKB	Treatment/medication code: mycophenolate	0.2191	0.2053	1.0671	0.2859
UKB	Underlying (primary) cause of death: ICD10: J44.9 Chronic obstructive pulmonary disease, un	0.4129	0.3876	1.0652	0.2868
UKB	Diagnoses - main ICD10: Z09 Follow-up examination after treatment for conditions other than	0.1508	0.1416	1.0649	0.2869
UKB	Diagnoses - main ICD10: I95 Hypotension	0.4729	0.4449	1.0628	0.2879
UKB	Diagnoses - main ICD10: E11 Non-insulin-dependent diabetes mellitus	0.15	0.1412	1.0622	0.2881
UKB	Treatment/medication code: duloxetine	0.318	0.2998	1.0608	0.2888
UKB	Home area population density - urban or rural: Scotland - Remote Rural	0.1265	0.1194	1.0598	0.2892
UKB	Treatment/medication code: enalapril maleate+hydrochlorothiazide 20mg/12.5mg tablet	0.2477	0.2339	1.0588	0.2897
UKB	Longest period of depression	0.1029	0.0973	1.0571	0.2905
UKB	Trunk predicted mass	0.03	0.0284	1.0567	0.2906
UKB	Treatment/medication code: salazopyrin 500mg tablet	0.1512	0.1431	1.0565	0.2908
LDHUB	Forearm Bone mineral density	0.1708	0.1621	1.0534	0.2922
UKB	Trunk fat-free mass	0.0299	0.0284	1.0525	0.2926
UKB	Doctor diagnosed sarcoidosis	0.1712	0.1628	1.0515	0.2931
UKB	Diagnoses - main ICD10: N49 Inflammatory disorders of male genital organs, not elsewhere class	0.2843	0.2709	1.0496	0.2939
UKB	Longest period of unenthusiasm / disinterest	-0.1465	0.1398	-1.0484	0.2945
UKB	Non-cancer illness code, self-reported: crohns disease	0.1051	0.1004	1.0472	0.295
UKB	Non-cancer illness code, self-reported: duodenal ulcer	0.4469	0.4268	1.047	0.2951
UKB	Treatment/medication code: hydroxocobalamin	-0.1939	0.1855	-1.045	0.296
UKB	Illnesses of mother: Breast cancer	0.0819	0.0784	1.0441	0.2964
UKB	Treatment/medication code: multivitamins	0.8038	0.7707	1.043	0.297
UKB	Non-cancer illness code, self-reported: other joint disorder	0.5655	0.5426	1.0422	0.2973
UKB	Heel bone mineral density (BMD) T-score, automated	-0.0375	0.036	-1.0404	0.2982
UKB	Illnesses of father: Parkinson's disease	-0.196	0.1884	-1.0399	0.2984
UKB	Treatment/medication code: lisinopril	0.0715	0.0688	1.0385	0.2991
UKB	Non-cancer illness code, self-reported: fracture vertebra / crush fracture / vertebral collapse	0.3705	0.3572	1.0372	0.2996
UKB	Treatment/medication code: flucloxacillin	0.2696	0.2599	1.0373	0.2996
UKB	Duration of other exercises	0.0827	0.0803	1.0296	0.3032
UKB	Treatment/medication code: zestoretic 10 tablet	0.2302	0.2237	1.0292	0.3034
UKB	Treatment/medication code: isosorbide dinitrate	0.1415	0.1377	1.028	0.3039
UKB	Diagnoses - main ICD10: D48 Neoplasm of uncertain or unknown behaviour of other and unspecified	0.298	0.29	1.0276	0.3041
UKB	Treatment/medication code: vitamin a	-0.1918	0.1868	-1.0272	0.3043
UKB	Diagnoses - main ICD10: I21 Acute myocardial infarction	0.0883	0.086	1.0273	0.3043
UKB	Illnesses of father: None of the above (group 1)	-0.0772	0.0752	-1.026	0.3049
UKB	Had menopause	-0.0836	0.0817	-1.023	0.3063
UKB	Non-cancer illness code, self-reported: menorrhagia (unknown cause)	0.1359	0.1328	1.0228	0.3064
UKB	Treatment/medication code: nitrolingual 400micrograms spray	0.1504	0.1474	1.0206	0.3074
UKB	Wears glasses or contact lenses	-0.0629	0.0616	-1.0203	0.3076
UKB	Treatment/medication code: pregabalin	0.456	0.447	1.02	0.3077
UKB	Treatment/medication code: glyceryl trinitrate	0.4319	0.4243	1.0179	0.3087
LDHUB	Ferritin	-0.1095	0.1076	-1.017	0.3092
UKB	Non-cancer illness code, self-reported: haemorrhoids / piles	-0.1678	0.1652	-1.0161	0.3096
UKB	Diagnoses - main ICD10: S83 Dislocation, sprain and strain of joints and ligaments of knee	0.2334	0.2297	1.0159	0.3097
UKB	Treatment/medication code: angitil sr 90 m/r capsule	0.1549	0.1525	1.0157	0.3098
UKB	Comparative height size at age 10	-0.0302	0.0298	-1.0124	0.3113
UKB	Tinnitus severity/nuisance	0.14	0.1387	1.0094	0.3128
UKB	Non-cancer illness code, self-reported: pericarditis	0.2117	0.2098	1.0093	0.3128
UKB	Diagnoses - main ICD10: K85 Acute pancreatitis	0.13	0.129	1.0083	0.3133



UKB	Diagnoses - main ICD10: D50 Iron deficiency anaemia	0.1304	0.1295	1.0075	0.3137
UKB	Underlying (primary) cause of death: ICD10: K70.3 Alcoholic cirrhosis of liver	0.285	0.2829	1.0073	0.3138
UKB	Manic/hyper symptoms: I was more creative or had more ideas than usual	0.2459	0.2442	1.0071	0.3139
UKB	Diagnoses - main ICD10: N86 Erosion and ectropion of cervix uteri	0.207	0.2055	1.0071	0.3139
UKB	Diagnoses - main ICD10: H26 Other cataract	0.0783	0.0778	1.0066	0.3141
UKB	Diagnoses - main ICD10: J36 Peritonsillar abscess	0.4981	0.4958	1.0047	0.3151
UKB	Diagnoses - main ICD10: R42 Dizziness and giddiness	0.7031	0.7004	1.0038	0.3155
UKB	Diagnoses - main ICD10: K05 Gingivitis and periodontal diseases	0.1828	0.1822	1.0029	0.3159
UKB	Diagnoses - main ICD10: D12 Benign neoplasm of colon, rectum, anus and anal canal	0.0833	0.0835	0.9975	0.3185
UKB	Diagnoses - main ICD10: S46 Injury of muscle and tendon at shoulder and upper arm level	0.24	0.241	0.9957	0.3194
LDHUB	Forced expiratory volume in 1 second (FEV1)/Forced Vital capacity(FVC)	-0.0678	0.0683	-0.9924	0.321
UKB	Underlying (primary) cause of death: ICD10: A81.0 Creutzfeldt-Jakob disease	0.183	0.1852	0.9883	0.323
UKB	Cancer code, self-reported: rectal cancer	-0.1319	0.1335	-0.9877	0.3233
LDHUB	Total cholesterol in large VLDL	-0.0836	0.0846	-0.9876	0.3234
UKB	Treatment/medication code: volsaid retard 75mg m/r tablet	0.1804	0.1829	0.9862	0.324
UKB	Medication for cholesterol, blood pressure or diabetes: Insulin	0.1095	0.1111	0.9863	0.324
UKB	Distance between home and job workplace	0.1004	0.1019	0.9851	0.3246
UKB	Cancer code, self-reported: rodent ulcer	0.1621	0.1648	0.9834	0.3254
UKB	Diagnoses - main ICD10: Z42 Follow-up care involving plastic surgery	0.2791	0.2838	0.9833	0.3255
LDHUB	Acetoacetate	-0.0866	0.0882	-0.9821	0.3261
UKB	Mean time to correctly identify matches	0.0403	0.0412	0.9803	0.3269
UKB	Treatment/medication code: prozac 20mg capsule	0.4396	0.451	0.9747	0.3297
UKB	Treatment/medication code: zydol 50mg capsule	0.2357	0.2422	0.9732	0.3305
UKB	Reproducibility of spirometry measurement using ERS/ATS criteria	-0.0821	0.0844	-0.9729	0.3306
UKB	Diagnoses - main ICD10: I22 Subsequent myocardial infarction	0.2951	0.3033	0.9728	0.3307
UKB	Ever had cervical smear test	-0.1808	0.1862	-0.9711	0.3315
UKB	Treatment/medication code: piriton 4mg tablet	0.2255	0.2327	0.9689	0.3326
UKB	Treatment/medication code: cozaar 25mg tablet	-0.1657	0.171	-0.9685	0.3328
UKB	Non-cancer illness code, self-reported: iritis	0.1551	0.1606	0.9657	0.3342
UKB	Duration of strenuous sports	0.1322	0.137	0.9645	0.3348
UKB	Manic/hyper symptoms: All of the above	0.2199	0.2281	0.9641	0.335
UKB	Treatment/medication code: vitamin b12 preparation	0.1266	0.1315	0.9632	0.3354
UKB	Treatment/medication code: anusol cream	0.2343	0.2434	0.9625	0.3358
UKB	Average monthly fortified wine intake	-0.1789	0.1866	-0.9587	0.3377
UKB	Treatment/medication code: rosuvastatin	0.1638	0.1709	0.9584	0.3379
LDHUB	Description of average fatty acid chain length; not actual carbon number	-0.1051	0.11	-0.9563	0.3389
UKB	Treatment/medication code: fentanyl	-0.1435	0.1501	-0.9561	0.339
LDHUB	Parkinsons disease	-0.0697	0.0729	-0.9558	0.3392
UKB	Doctor diagnosed tuberculosis	0.2141	0.2243	0.9545	0.3398
UKB	Treatment/medication code: fludrocortisone	-0.3514	0.3691	-0.9521	0.341
UKB	Treatment/medication code: timolol 0.25% eye drops	0.3666	0.385	0.9521	0.3411
UKB	Diagnoses - main ICD10: R40 Somnolence, stupor and coma	0.2503	0.2635	0.95	0.3421
UKB	Treatment/medication code: solaraze 3% gel	0.4964	0.5235	0.9482	0.343
UKB	Non-cancer illness code, self-reported: systemic lupus erythematosus/sle	-0.2041	0.2154	-0.9475	0.3434
UKB	Diagnoses - main ICD10: F33 Recurrent depressive disorder	0.3235	0.3421	0.9455	0.3444
UKB	Diagnoses - main ICD10: M95 Other acquired deformities of musculoskeletal system and con	0.1239	0.1311	0.945	0.3447
UKB	Treatment/medication code: clomipramine	-0.1939	0.2056	-0.943	0.3457
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: Oral cont	-0.1356	0.1438	-0.9426	0.3459
UKB	Doctor diagnosed emphysema	0.2394	0.2551	0.9383	0.3481
UKB	Treatment/medication code: tildiem 60mg m/r tablet	0.1452	0.155	0.9369	0.3488
UKB	Diagnoses - main ICD10: N30 Cystitis	0.3744	0.4003	0.9353	0.3497
UKB	Diagnoses - main ICD10: S92 Fracture of foot, except ankle	0.2291	0.2451	0.935	0.3498
UKB	Diagnoses - main ICD10: D28 Benign neoplasm of other and unspecified female genital organ	0.2496	0.2672	0.9342	0.3502
UKB	Diagnoses - main ICD10: O03 Spontaneous abortion	0.2175	0.233	0.9336	0.3505
LDHUB	Serumurate overweight	-0.0605	0.0651	-0.9301	0.3523
UKB	Diagnoses - main ICD10: F60 Specific personality disorders	0.1151	0.1238	0.9296	0.3526
UKB	Diagnoses - main ICD10: S52 Fracture of forearm	-0.087	0.0936	-0.9295	0.3526
UKB	Underlying (primary) cause of death: ICD10: C66 Malignant neoplasm of ureter	-0.1513	0.1632	-0.927	0.3539
UKB	Diagnoses - main ICD10: T83 Complications of genito-urinary prosthetic devices, implants anc	0.1593	0.1719	0.9268	0.354
UKB	Diagnoses - main ICD10: I73 Other peripheral vascular diseases	-0.4102	0.4435	-0.9249	0.355
UKB	Treatment/medication code: celecoxib	0.3962	0.4299	0.9216	0.3567
UKB	Treatment/medication code: sotalol	0.2094	0.2274	0.9209	0.3571
UKB	Non-cancer illness code, self-reported: parkinsons disease	0.2105	0.2289	0.9198	0.3577

UKB	Underlying (primary) cause of death: ICD10: K63.1 Perforation of intestine (nontraumatic)	0.1839	0.1999	0.9198	0.3577
LDHUB	Femoral neck bone mineral density	-0.0425	0.0464	-0.9164	0.3594
UKB	Diagnoses - main ICD10: Z35 Supervision of high-risk pregnancy	0.1462	0.1595	0.9163	0.3595
UKB	Non-cancer illness code, self-reported: polycystic kidney	0.2719	0.2984	0.9111	0.3623
UKB	Treatment/medication code: tramacet 325mg/37.5mg tablet	0.5471	0.6009	0.9105	0.3626
UKB	Treatment/medication code: femoston 1/10 tablet	0.1645	0.1808	0.9097	0.363
UKB	Average monthly intake of other alcoholic drinks	-0.1273	0.1402	-0.9081	0.3638
UKB	Non-cancer illness code, self-reported: sarcoidosis	0.1067	0.1174	0.9082	0.3638
LDHUB	Phospholipids in chylomicrons and largest VLDL particles	-0.0796	0.088	-0.9054	0.3652
UKB	Diagnoses - main ICD10: H04 Disorders of lachrymal system	0.5037	0.5586	0.9017	0.3672
UKB	Non-cancer illness code, self-reported: miscarriage	0.4256	0.4747	0.8966	0.3699
LDHUB	Mean Thalamus	0.0907	0.1014	0.8938	0.3714
UKB	Non-cancer illness code, self-reported: osteopenia	-0.2947	0.3299	-0.8934	0.3717
UKB	Non-cancer illness code, self-reported: muscle/soft tissue problem	0.1289	0.1445	0.8925	0.3721
UKB	Treatment/medication code: nicorandil	0.1143	0.1291	0.886	0.3756
UKB	Mineral and other dietary supplements: Zinc	0.066	0.0747	0.8842	0.3766
UKB	Non-cancer illness code, self-reported: head injury	0.1382	0.1563	0.8837	0.3768
UKB	Diagnoses - main ICD10: G40 Epilepsy	0.5406	0.6123	0.8828	0.3773
UKB	Types of transport used (excluding work): Public transport	-0.0486	0.0551	-0.8822	0.3777
LDHUB	Platelet count	0.0473	0.0537	0.8821	0.3777
UKB	Illnesses of mother: Stroke	-0.082	0.093	-0.882	0.3778
UKB	Treatment/medication code: prochlorperazine	0.2369	0.269	0.8805	0.3786
UKB	Treatment/medication code: piroxicam	0.2076	0.2358	0.8805	0.3786
UKB	Treatment/medication code: amitriptyline hydrochloride+perphenazine 10mg/2mg tablet	0.161	0.183	0.8796	0.3791
UKB	Average monthly spirits intake	0.1175	0.1337	0.8788	0.3795
LDHUB	Adiponectin	-0.0669	0.0761	-0.8787	0.3796
UKB	Cancer code, self-reported: small intestine/small bowel cancer	0.2299	0.262	0.8774	0.3803
LDHUB	Extreme height	-0.0396	0.0452	-0.8771	0.3804
UKB	Diagnoses - main ICD10: N43 Hydrocele and spermatocele	0.1011	0.1154	0.8759	0.3811
UKB	Treatment/medication code: eprosartan	0.2293	0.262	0.8754	0.3814
UKB	Treatment/medication code: tetralysal 300 capsule	0.1602	0.1833	0.8739	0.3822
UKB	Fractured bone site(s): Leg	0.1123	0.1286	0.8727	0.3828
UKB	Underlying (primary) cause of death: ICD10: N39.0 Urinary tract infection, site not specified	-0.1997	0.2289	-0.8724	0.383
UKB	Non-cancer illness code, self-reported: infectious mononucleosis / glandular fever / Epstein B	-0.4136	0.4754	-0.87	0.3843
UKB	Doctor diagnosed idiopathic pulmonary fibrosis	0.3287	0.3779	0.8699	0.3844
UKB	Treatment/medication code: olmesartan	0.2224	0.2566	0.8664	0.3863
LDHUB	Urinary albumin-to-creatinine ratio	0.0797	0.0921	0.865	0.3871
UKB	Diagnoses - main ICD10: C92 Myeloid leukaemia	-0.2471	0.2858	-0.8645	0.3873
UKB	Treatment/medication code: levocetirizine	0.2958	0.3422	0.8642	0.3875
UKB	Treatment/medication code: folic acid product	-0.2199	0.2545	-0.8641	0.3876
UKB	Diagnoses - main ICD10: F31 Bipolar affective disorder	0.0854	0.0997	0.8573	0.3913
UKB	Diagnoses - main ICD10: H71 Cholesteatoma of middle ear	0.252	0.2941	0.857	0.3914
LDHUB	Mean Pallidum	0.0807	0.0941	0.857	0.3914
UKB	Diagnoses - main ICD10: S00 Superficial injury of head	0.4376	0.5111	0.8562	0.3919
UKB	Underlying (primary) cause of death: ICD10: I25.1 Atherosclerotic heart disease	0.1671	0.1965	0.8504	0.3951
UKB	Illness, injury, bereavement, stress in last 2 years: Serious illness, injury or assault of a close r	0.0645	0.076	0.8485	0.3961
UKB	Treatment/medication code: thyroxine sodium	0.146	0.1721	0.8482	0.3963
UKB	Manic/hyper symptoms: I was more talkative than usual	0.4045	0.477	0.8479	0.3965
UKB	Diagnoses - main ICD10: R19 Other symptoms and signs involving the digestive system and al	0.7005	0.8271	0.8469	0.3971
UKB	Hearing aid user	0.0703	0.0832	0.8447	0.3983
UKB	Diagnoses - main ICD10: S86 Injury of muscle and tendon at lower leg level	-0.1788	0.2117	-0.8444	0.3984
UKB	Diagnoses - main ICD10: D36 Benign neoplasm of other and unspecified sites	0.4225	0.5008	0.8437	0.3988
UKB	Cancer code, self-reported: unclassifiable	0.1544	0.1837	0.8408	0.4005
UKB	Diagnoses - main ICD10: G37 Other demyelinating diseases of central nervous system	-0.1521	0.1812	-0.8394	0.4012
UKB	Diagnoses - main ICD10: L30 Other dermatitis	-0.3671	0.4376	-0.8391	0.4014
UKB	Diagnoses - main ICD10: I80 Phlebitis and thrombophlebitis	0.0697	0.0832	0.8368	0.4027
UKB	Diagnoses - main ICD10: T18 Foreign body in alimentary tract	0.146	0.1746	0.8361	0.4031
UKB	Treatment/medication code: berocca effervescent tablet	-0.2142	0.2563	-0.8357	0.4033
UKB	Treatment/medication code: depakote 250mg e/c tablet	0.3112	0.3738	0.8325	0.4051
UKB	Diagnoses - main ICD10: H34 Retinal vascular occlusions	0.2603	0.3129	0.8319	0.4054
UKB	Reason for glasses/contact lenses: For a 'squint' or 'turn' in an eye since childhood (called 'str	0.0967	0.1167	0.8293	0.4069
UKB	Diagnoses - main ICD10: Z45 Adjustment and management of implanted device	0.4957	0.5983	0.8286	0.4073
UKB	Why reduced smoking: Financial reasons	0.1605	0.1949	0.8236	0.4102

UKB	Underlying (primary) cause of death: ICD10: C45.0 Mesothelioma of pleura	0.1444	0.1761	0.8197	0.4124
UKB	Diagnoses - main ICD10: L57 Skin changes due to chronic exposure to nonionising radiation	0.4255	0.5191	0.8196	0.4124
UKB	Diagnoses - main ICD10: I25 Chronic ischaemic heart disease	0.0517	0.0632	0.8183	0.4132
UKB	Fractured bone site(s): Wrist	0.079	0.0966	0.8175	0.4137
UKB	Treatment/medication code: iodine 200mg tablet	0.1203	0.1472	0.8173	0.4138
UKB	Treatment/medication code: amiloride	0.1292	0.1582	0.8168	0.4141
UKB	Treatment/medication code: mometasone	0.1284	0.1573	0.8161	0.4144
UKB	Ever taken oral contraceptive pill	-0.0633	0.0777	-0.815	0.4151
UKB	Diagnoses - main ICD10: S05 Injury of eye and orbit	-0.2349	0.2887	-0.8137	0.4158
LDHUB	Birth weight	-0.0349	0.043	-0.813	0.4162
UKB	Diagnoses - main ICD10: B37 Candidiasis	0.5403	0.6655	0.8119	0.4169
UKB	Treatment/medication code: clarithromycin	0.4557	0.5617	0.8113	0.4172
UKB	Diagnoses - main ICD10: D45 Polycythaemia vera	0.2693	0.3329	0.809	0.4185
LDHUB	Cholesterol esters in medium VLDL	-0.0629	0.0779	-0.8076	0.4193
UKB	Treatment/medication code: ismn - isosorbide mononitrate	0.3743	0.4638	0.8069	0.4197
UKB	Treatment/medication code: micronor tablet	-0.539	0.6696	-0.805	0.4208
UKB	Non-cancer illness code, self-reported: trapped nerve/compressed nerve	0.3154	0.3919	0.8048	0.4209
UKB	Treatment/medication code: penicillin	0.2271	0.283	0.8025	0.4223
UKB	Gestational diabetes only	0.2997	0.3741	0.8012	0.423
UKB	Non-cancer illness code, self-reported: acne/acne vulgaris	-0.1378	0.1724	-0.7995	0.424
UKB	Illnesses of mother: High blood pressure	0.0411	0.0516	0.796	0.426
UKB	Treatment/medication code: nexium 20mg tablet	0.2094	0.2635	0.7949	0.4267
UKB	Diagnoses - main ICD10: L73 Other follicular disorders	0.1541	0.1945	0.7923	0.4282
UKB	Treatment/medication code: loperamide	0.1403	0.1774	0.7912	0.4288
LDHUB	Total cholesterol in medium VLDL	-0.0621	0.0785	-0.7907	0.4291
UKB	Diagnoses - main ICD10: S66 Injury of muscle and tendon at wrist and hand level	0.1168	0.148	0.7897	0.4297
UKB	Treatment/medication code: tacrolimus	0.2659	0.3378	0.7871	0.4312
UKB	Diagnoses - main ICD10: N45 Orchitis and epididymitis	0.2238	0.285	0.785	0.4324
UKB	Non-cancer illness code, self-reported: oesophagitis/barretts oesophagus	0.1215	0.1551	0.7834	0.4334
UKB	Treatment/medication code: magnesium citrate	0.2405	0.3076	0.782	0.4342
UKB	Diagnoses - main ICD10: S09 Other and unspecified injuries of head	0.0807	0.1034	0.7804	0.4351
UKB	Diagnoses - main ICD10: E04 Other non-toxic goitre	-0.0862	0.1104	-0.7804	0.4352
LDHUB	Total cholesterol in very large HDL	-0.1663	0.2134	-0.7795	0.4357
UKB	Diagnoses - main ICD10: E07 Other disorders of thyroid	-0.4015	0.5155	-0.779	0.436
UKB	Treatment/medication code: cialis 20mg tablet	0.2513	0.3227	0.7788	0.4361
UKB	Diagnoses - main ICD10: N02 Recurrent and persistent haematuria	0.1776	0.2284	0.7776	0.4368
UKB	Underlying (primary) cause of death: ICD10: K55.9 Vascular disorder of intestine, unspecified	-0.122	0.1569	-0.7774	0.4369
UKB	Underlying (primary) cause of death: ICD10: C67.9 Bladder, unspecified	-0.1406	0.1811	-0.7765	0.4375
UKB	Non-cancer illness code, self-reported: nasal polyps	0.08	0.1031	0.7755	0.4381
UKB	Non-cancer illness code, self-reported: sleep apnoea	0.1066	0.1376	0.7746	0.4386
UKB	Diagnoses - main ICD10: N50 Other disorders of male genital organs	0.1533	0.198	0.7746	0.4386
UKB	Diagnoses - main ICD10: O69 Labour and delivery complicated by umbilical cord complication	-0.2822	0.3646	-0.774	0.4389
UKB	Treatment/medication code: letrozole	0.1107	0.143	0.7737	0.4391
UKB	Cancer code, self-reported: thyroid cancer	-0.1351	0.1746	-0.7735	0.4392
UKB	Mineral and other dietary supplements: Iron	0.1085	0.1407	0.7714	0.4405
UKB	Treatment/medication code: oxybutynin	-0.0998	0.1296	-0.7699	0.4413
UKB	Treatment/medication code: implanon 68mg subdermal implant	-0.3496	0.4548	-0.7686	0.4421
UKB	Treatment/medication code: dovet ointment	0.1528	0.1991	0.7678	0.4426
UKB	Non-cancer illness code, self-reported: enlarged prostate	-0.0753	0.0986	-0.7637	0.445
UKB	Non-cancer illness code, self-reported: prostatitis	0.4001	0.5241	0.7633	0.4453
UKB	Ever tried to stop smoking	0.3282	0.434	0.7562	0.4495
UKB	Diagnoses - main ICD10: D70 Agranulocytosis	-0.2158	0.2856	-0.7557	0.4498
UKB	Diagnoses - main ICD10: L90 Atrophic disorders of skin	0.3876	0.5132	0.7553	0.4501
UKB	Non-cancer illness code, self-reported: tinnitus / tinitis	-0.1812	0.2399	-0.7551	0.4502
UKB	Non-cancer illness code, self-reported: testicular problems (not cancer)	-0.13	0.1722	-0.7548	0.4504
UKB	Treatment/medication code: securon 40mg tablet	0.9178	1.216	0.7548	0.4504
UKB	Diagnoses - main ICD10: J32 Chronic sinusitis	0.3061	0.4059	0.754	0.4508
LDHUB	Serum creatinine	0.0344	0.0456	0.7532	0.4513
UKB	Treatment/medication code: phenobarbital	0.103	0.1368	0.7529	0.4515
UKB	Diagnoses - main ICD10: I47 Paroxysmal tachycardia	-0.1353	0.1801	-0.7513	0.4525
UKB	Home area population density - urban or rural: Scotland - Accessible Rural	-0.5829	0.7769	-0.7503	0.4531
UKB	Underlying (primary) cause of death: ICD10: C71.0 Cerebrum, except lobes and ventricles	-0.565	0.7557	-0.7476	0.4547
LDHUB	Fasting proinsulin	0.072	0.0964	0.7468	0.4552

UKB	Non-cancer illness code, self-reported: peritonitis	0.088	0.1185	0.7425	0.4578
UKB	Diagnoses - main ICD10: H00 Hordeolum and chalazion	0.2367	0.3191	0.7418	0.4582
UKB	Non-cancer illness code, self-reported: nephritis	0.3551	0.4809	0.7382	0.4604
UKB	Which eye(s) affected by astigmatism: Left eye	0.1031	0.1399	0.7372	0.461
LDHUB	18:2 linoleic acid (LA)	0.0868	0.1181	0.7351	0.4623
UKB	Underlying (primary) cause of death: ICD10: C64 Malignant neoplasm of kidney, except renal	0.141	0.1919	0.735	0.4624
UKB	Eye problems/disorders: Macular degeneration	0.1061	0.1444	0.7347	0.4625
UKB	Non-cancer illness code, self-reported: hereditary/genetic haematological disorder	0.1542	0.2107	0.7318	0.4643
UKB	Underlying (primary) cause of death: ICD10: X70.8 Other specified place	-0.1132	0.1553	-0.7287	0.4662
UKB	Diagnoses - main ICD10: D22 Melanocytic naevi	0.2532	0.348	0.7277	0.4668
LDHUB	HOMA-B	0.0584	0.0802	0.7275	0.4669
UKB	Non-cancer illness code, self-reported: fracture foot	-0.1893	0.2603	-0.7272	0.4671
UKB	Treatment/medication code: calcichew 1.25g chewable tablet	0.1756	0.2416	0.7268	0.4674
UKB	Treatment/medication code: sodium thyroxine	0.3744	0.5158	0.7258	0.468
UKB	Diagnoses - main ICD10: Z48 Other surgical follow-up care	0.1073	0.1483	0.7236	0.4693
LDHUB	Phospholipids in large LDL	0.1096	0.152	0.7214	0.4706
LDHUB	Free cholesterol in medium VLDL	-0.0571	0.0793	-0.7201	0.4715
UKB	Treatment/medication code: calcium carbonate+cholecalciferol 1.25g/5micrograms tablet	0.0823	0.1146	0.7183	0.4725
UKB	Doctor diagnosed bronchiectasis	-0.1388	0.1933	-0.7179	0.4728
UKB	Non-cancer illness code, self-reported: spontaneous pneumothorax/recurrent pneumothorax	0.1087	0.1515	0.7174	0.4731
LDHUB	Free cholesterol to esterified cholesterol ratio	0.1202	0.1676	0.7175	0.4731
UKB	Treatment/medication code: telmisartan	0.0903	0.1259	0.717	0.4733
UKB	Diagnoses - main ICD10: H81 Disorders of vestibular function	0.1964	0.2743	0.7159	0.474
UKB	Treatment/medication code: dixarit 25mcg tablet	0.5594	0.7818	0.7156	0.4743
UKB	Non-cancer illness code, self-reported: encephalitis	0.1878	0.2626	0.7152	0.4745
UKB	Underlying (primary) cause of death: ICD10: K76.0 Fatty (change of) liver, not elsewhere class	-0.1039	0.1456	-0.7133	0.4757
UKB	Treatment/medication code: perindopril	-0.0675	0.0947	-0.7131	0.4758
LDHUB	Mean diameter for LDL particles	-0.1146	0.161	-0.7119	0.4766
UKB	Diagnoses - main ICD10: S56 Injury of muscle and tendon at forearm level	0.5302	0.7458	0.711	0.4771
UKB	Non-cancer illness code, self-reported: fracture shaft of femur	-0.1162	0.1636	-0.7102	0.4776
UKB	Diagnoses - main ICD10: C25 Malignant neoplasm of pancreas	0.09	0.1268	0.7097	0.4779
UKB	Diagnoses - main ICD10: K35 Acute appendicitis	0.1146	0.162	0.7074	0.4793
UKB	Diagnoses - main ICD10: I05 Rheumatic mitral valve diseases	0.2418	0.3421	0.7067	0.4798
UKB	Treatment/medication code: flixotide 25micrograms inhaler	0.1347	0.1908	0.7058	0.4803
UKB	Diagnoses - main ICD10: R52 Pain, not elsewhere classified	0.2015	0.2856	0.7056	0.4805
UKB	Treatment/medication code: aciclovir	0.1321	0.1875	0.7046	0.4811
UKB	Current employment status: Full or part-time student	-0.1554	0.2215	-0.7018	0.4828
UKB	Treatment/medication code: azithromycin	0.1728	0.2463	0.7017	0.4829
UKB	Hair/balding pattern: Pattern 4	-0.0323	0.0462	-0.6997	0.4841
UKB	Diagnoses - main ICD10: K00 Disorders of tooth development and eruption	0.1344	0.1921	0.6996	0.4842
UKB	Diagnoses - main ICD10: H60 Otitis externa	0.1441	0.2061	0.6993	0.4844
UKB	Diagnoses - main ICD10: G58 Other mononeuropathies	0.2011	0.2878	0.699	0.4846
UKB	Average weekly intake of other alcoholic drinks	0.0952	0.1363	0.6985	0.4848
UKB	Treatment/medication code: nitrofurantoin	0.1611	0.2306	0.6986	0.4848
UKB	Treatment/medication code: betnovate cream	0.1399	0.2004	0.6983	0.485
LDHUB	Mean platelet volume	0.0431	0.0618	0.6978	0.4853
UKB	Treatment/medication code: evening primrose oil	-0.114	0.1639	-0.6955	0.4867
UKB	Treatment/medication code: almotriptan	-0.1096	0.1582	-0.6927	0.4885
UKB	Diagnoses - main ICD10: F20 Schizophrenia	0.1714	0.248	0.6909	0.4896
UKB	Non-cancer illness code, self-reported: polio / poliomyelitis	-0.0882	0.1278	-0.6903	0.49
UKB	Illnesses of father: Prostate cancer	0.0618	0.0895	0.69	0.4902
UKB	Cancer code, self-reported: prostate cancer	0.0744	0.108	0.6888	0.491
UKB	Non-cancer illness code, self-reported: infective/viral hepatitis	0.1851	0.2704	0.6847	0.4935
UKB	Non-cancer illness code, self-reported: dry eyes	0.7089	1.0355	0.6846	0.4936
UKB	Doctor diagnosed hayfever or allergic rhinitis	-0.0358	0.0525	-0.6829	0.4947
UKB	Treatment/medication code: asacol mr 400mg e/c tablet	-0.1217	0.1785	-0.6821	0.4952
UKB	Diagnoses - main ICD10: F45 Somatoform disorders	0.176	0.258	0.6821	0.4952
UKB	Diagnoses - main ICD10: C80 Malignant neoplasm without specification of site	-0.7356	1.0787	-0.682	0.4953
UKB	Non-cancer illness code, self-reported: bursitis	0.1505	0.2209	0.6815	0.4955
UKB	Underlying (primary) cause of death: ICD10: K92.2 Gastro-intestinal haemorrhage, unspecified	-0.3843	0.5644	-0.6809	0.4959
UKB	Non-cancer illness code, self-reported: peripheral vascular disease	0.0921	0.1357	0.6789	0.4972
UKB	Non-cancer illness code, self-reported: obsessive compulsive disorder (ocd)	-0.116	0.1714	-0.6771	0.4984
UKB	Diagnoses - main ICD10: L08 Other local infections of skin and subcutaneous tissue	0.1216	0.1797	0.6767	0.4986

LDHUB	Ratio of bisallylic groups to double bonds	-0.0455	0.0675	-0.6742	0.5002
UKB	Years of cough on most days	-0.1297	0.1925	-0.6735	0.5006
UKB	Reason for glasses/contact lenses: For a 'lazy' eye or an eye with poor vision since childhood	0.0948	0.1408	0.6734	0.5007
UKB	Cancer code, self-reported: cin/pre-cancer cells cervix	0.0867	0.1288	0.673	0.5009
UKB	Diagnoses - main ICD10: Z80 Family history of malignant neoplasm	-0.1474	0.2195	-0.6715	0.5019
UKB	Underlying (primary) cause of death: ICD10: I71.0 Dissection of aorta [any part]	0.3698	0.5525	0.6693	0.5033
UKB	Target heart rate achieved	-0.0738	0.1103	-0.6686	0.5038
UKB	Non-cancer illness code, self-reported: transient ischaemic attack (tia)	0.1198	0.1792	0.6683	0.5039
UKB	Diagnoses - main ICD10: H43 Disorders of vitreous body	-0.2948	0.4424	-0.6664	0.5052
UKB	Diagnoses - main ICD10: L98 Other disorders of skin and subcutaneous tissue, not elsewhere	0.0772	0.1161	0.6651	0.506
LDHUB	Concentration of very large HDL particles	-0.086	0.1293	-0.6651	0.506
UKB	Vitamin and mineral supplements: Vitamin D	-0.0666	0.1007	-0.6617	0.5082
UKB	Non-cancer illness code, self-reported: iron deficiency anaemia	0.0804	0.1216	0.6614	0.5084
UKB	Diagnoses - main ICD10: I62 Other nontraumatic intracranial haemorrhage	-0.2399	0.3634	-0.6601	0.5092
UKB	Treatment/medication code: azopt 10mg/ml eye drops	-0.2037	0.3089	-0.6595	0.5096
LDHUB	Urinary albumin-to-creatinine ratio (non-diabetes)	0.0607	0.0923	0.6576	0.5108
UKB	Diagnoses - main ICD10: S68 Traumatic amputation of wrist and hand	0.3631	0.5522	0.6575	0.5109
UKB	Treatment/medication code: fosinopril	0.125	0.1905	0.6564	0.5115
LDHUB	Leucine	-0.0763	0.1162	-0.6563	0.5116
LDHUB	Attention deficit hyperactivity disorder	0.1057	0.1612	0.656	0.5118
UKB	Non-cancer illness code, self-reported: chronic sinusitis	0.1297	0.198	0.6549	0.5125
UKB	Treatment/medication code: alendronate sodium	-0.05	0.0765	-0.6541	0.513
UKB	Treatment/medication code: macrogol ointment	0.2635	0.4032	0.6536	0.5133
UKB	Non-cancer illness code, self-reported: fracture lower leg / ankle	0.469	0.7213	0.6502	0.5155
UKB	Which eye(s) affected by hypermetropia (long sight): Left eye	0.1574	0.2421	0.6502	0.5156
LDHUB	Isoleucine	-0.0621	0.0955	-0.6498	0.5158
UKB	Diagnoses - main ICD10: G93 Other disorders of brain	0.355	0.5464	0.6496	0.5159
UKB	Treatment/medication code: beclomethasone	0.1741	0.2682	0.6491	0.5162
LDHUB	Eczema	0.0481	0.0741	0.6493	0.5162
UKB	Diagnoses - main ICD10: M16 Coxarthrosis [arthrosis of hip]	0.0507	0.0783	0.6484	0.5167
UKB	Treatment/medication code: trazodone	0.747	1.1542	0.6472	0.5175
UKB	Diagnoses - main ICD10: O90 Complications of the puerperium, not elsewhere classified	0.1556	0.2407	0.6466	0.5179
UKB	Underlying (primary) cause of death: ICD10: I51.7 Cardiomegaly	-0.7565	1.1782	-0.6421	0.5208
UKB	Reason for reducing amount of alcohol drunk: Health precaution	-0.0435	0.0677	-0.6419	0.521
UKB	Diagnoses - main ICD10: M22 Disorders of patella	0.2045	0.3187	0.6415	0.5212
UKB	Time spent driving	0.0362	0.0569	0.6366	0.5244
LDHUB	Free cholesterol in large LDL	0.0968	0.1522	0.6365	0.5245
UKB	Illnesses of mother: Parkinson's disease	-0.6895	1.0836	-0.6363	0.5246
UKB	Non-cancer illness code, self-reported: inflammatory bowel disease	0.1164	0.1833	0.6351	0.5254
LDHUB	Total cholesterol in large LDL	0.0952	0.1501	0.6343	0.5259
UKB	Treatment/medication code: indometacin	-0.1455	0.2302	-0.6322	0.5273
UKB	Treatment/medication code: flixonase 50micrograms aqueous nasal spray	-0.0797	0.1262	-0.6313	0.5278
UKB	Diagnoses - main ICD10: J33 Nasal polyp	0.0775	0.1228	0.631	0.528
UKB	Non-cancer illness code, self-reported: multiple sclerosis	-0.0929	0.1474	-0.6302	0.5286
UKB	Diagnoses - main ICD10: M05 Seropositive rheumatoid arthritis	-0.1025	0.1627	-0.63	0.5287
UKB	Underlying (primary) cause of death: ICD10: E85.4 Organ-limited amyloidosis	-0.1458	0.2318	-0.6289	0.5294
UKB	Diagnoses - main ICD10: R12 Heartburn	0.1696	0.2703	0.6277	0.5302
UKB	Non-cancer illness code, self-reported: hepatitis b	0.1343	0.2141	0.6273	0.5304
UKB	Treatment/medication code: lipitor 10mg tablet	0.5263	0.8412	0.6257	0.5315
UKB	Non-cancer illness code, self-reported: eczema/dermatitis	-0.0515	0.0823	-0.6254	0.5317
UKB	Treatment/medication code: senokot 7.5mg tablet	0.1246	0.1995	0.6247	0.5321
UKB	Diagnoses - main ICD10: N94 Pain and other conditions associated with female genital organs	0.1975	0.3167	0.6237	0.5328
LDHUB	Free cholesterol in medium HDL	0.0784	0.1264	0.6202	0.5351
LDHUB	Total lipids in very large HDL	-0.0965	0.1558	-0.6194	0.5357
UKB	Non-accidental death in close genetic family	0.0649	0.1051	0.6173	0.537
UKB	Diagnoses - main ICD10: L82 Seborrhoeic keratosis	0.195	0.3158	0.6173	0.537
UKB	Non-cancer illness code, self-reported: inguinal hernia	-0.2005	0.326	-0.615	0.5386
UKB	Underlying (primary) cause of death: ICD10: C10.9 Oropharynx, unspecified	0.2686	0.437	0.6145	0.5389
UKB	Underlying (primary) cause of death: ICD10: C23 Malignant neoplasm of gallbladder	-0.1051	0.1712	-0.6137	0.5394
UKB	Treatment/medication code: terbutaline	0.1938	0.3167	0.612	0.5406
UKB	Treatment/medication code: amantadine	0.2547	0.4168	0.6111	0.5411
UKB	Treatment/medication code: hypromellose	0.3721	0.6089	0.6111	0.5412
LDHUB	Total lipids in large VLDL	-0.0501	0.0823	-0.6086	0.5428

UKB	Diagnoses - main ICD10: D24 Benign neoplasm of breast	0.1694	0.279	0.6074	0.5436
LDHUB	Serum total triglycerides	-0.0463	0.0763	-0.6067	0.5441
UKB	Treatment/medication code: estraderm mx 25 patch	0.2778	0.4608	0.6029	0.5466
UKB	Treatment/medication code: phenytoin	0.0775	0.1288	0.6015	0.5475
UKB	Non-cancer illness code, self-reported: stress	0.4494	0.7479	0.6009	0.5479
UKB	Treatment/medication code: kiofem tablet	0.1618	0.2699	0.5995	0.5488
UKB	Diagnoses - main ICD10: R61 Hyperhidrosis	0.1297	0.2166	0.5989	0.5492
UKB	Treatment/medication code: hydroxocobalamin product	0.4553	0.7617	0.5977	0.5501
UKB	Diagnoses - main ICD10: K59 Other functional intestinal disorders	0.0968	0.162	0.5974	0.5502
UKB	Diagnoses - main ICD10: I12 Hypertensive renal disease	0.1028	0.1722	0.5973	0.5503
UKB	Diagnoses - main ICD10: D47 Other neoplasms of uncertain or unknown behaviour of lymphoc	-0.1634	0.2739	-0.5964	0.5509
UKB	Non-cancer illness code, self-reported: polymyalgia rheumatica	0.0667	0.1119	0.5957	0.5514
UKB	Treatment/medication code: imigran 50mg tablet	0.0635	0.1067	0.5956	0.5514
LDHUB	Triglycerides in large VLDL	-0.0494	0.0832	-0.5941	0.5525
LDHUB	Phospholipids in medium LDL	0.0801	0.135	0.5935	0.5529
UKB	Illnesses of siblings: Parkinson's disease	0.5606	0.9491	0.5907	0.5547
UKB	Treatment/medication code: food supplement/plant/herbal extract	0.0818	0.139	0.5886	0.5561
UKB	Treatment/medication code: mirtazapine	0.8928	1.5174	0.5884	0.5563
UKB	Diagnoses - main ICD10: C82 Follicular [nodular] non-Hodgkin's lymphoma	0.1758	0.2999	0.5864	0.5576
UKB	Underlying (primary) cause of death: ICD10: M06.9 Rheumatoid arthritis, unspecified	0.1626	0.2795	0.5816	0.5608
UKB	Non-cancer illness code, self-reported: thyroid problem (not cancer)	0.2148	0.3695	0.5812	0.5611
LDHUB	Total cholesterol in medium LDL	0.0843	0.1456	0.579	0.5626
UKB	Treatment/medication code: omacor 1g capsule	0.6136	1.0607	0.5785	0.5629
LDHUB	Transferrin	-0.0511	0.0887	-0.5763	0.5644
UKB	Treatment/medication code: xenical 120mg capsule	0.161	0.2799	0.5752	0.5652
UKB	Non-cancer illness code, self-reported: tendonitis / tendinitis / tenosynovitis	0.1075	0.1877	0.5729	0.5667
UKB	Underlying (primary) cause of death: ICD10: C84.5 Other and unspecified T-cell lymphomas	-0.0922	0.1609	-0.5729	0.5667
UKB	Treatment/medication code: phenergan 10mg tablet	0.1552	0.2716	0.5712	0.5678
UKB	Diagnoses - main ICD10: O70 Perineal laceration during delivery	-0.2102	0.3684	-0.5707	0.5682
UKB	Diagnoses - main ICD10: N70 Salpingitis and oophoritis	0.5081	0.8907	0.5704	0.5684
LDHUB	Triglycerides in small HDL	0.0634	0.1115	0.5688	0.5695
UKB	Treatment/medication code: thyroxine product	0.0457	0.0806	0.5678	0.5701
UKB	Treatment/medication code: kelp+garlic product	0.093	0.1641	0.5668	0.5709
UKB	Non-cancer illness code, self-reported: brain haemorrhage	-0.272	0.4822	-0.5641	0.5727
UKB	Diagnoses - main ICD10: N17 Acute renal failure	0.2647	0.4692	0.5641	0.5727
LDHUB	Mean diameter for HDL particles	-0.0533	0.0948	-0.5623	0.5739
UKB	Non-cancer illness code, self-reported: pericardial problem	0.2486	0.4422	0.5621	0.5741
UKB	Diagnoses - main ICD10: F30 Manic episode	-0.0892	0.1589	-0.5617	0.5744
LDHUB	Free cholesterol in very large HDL	-0.0892	0.1591	-0.5609	0.5749
UKB	Tobacco smoking: Occasionally	0.0692	0.1241	0.558	0.5769
UKB	Diagnoses - main ICD10: R25 Abnormal involuntary movements	0.2224	0.3993	0.5571	0.5775
UKB	Non-cancer illness code, self-reported: pneumothorax	0.07	0.1263	0.5543	0.5794
UKB	Treatment/medication code: eumovate cream	0.2167	0.3909	0.5543	0.5794
UKB	Non-cancer illness code, self-reported: eye/eyelid problem	0.1778	0.3217	0.5528	0.5804
UKB	Diagnoses - main ICD10: G24 Dystonia	0.1384	0.2505	0.5525	0.5806
UKB	Treatment/medication code: valsartan	0.0702	0.1273	0.5518	0.5811
UKB	Treatment/medication code: calcium carbonate+colecalciferol 1.25g/5micrograms tablet	0.3303	0.5993	0.5511	0.5816
LDHUB	Phospholipids in very large HDL	-0.0625	0.1135	-0.5508	0.5818
UKB	Non-cancer illness code, self-reported: hepatitis a	-0.1384	0.252	-0.5494	0.5827
UKB	Treatment/medication code: migril tablet	0.0864	0.1577	0.5478	0.5838
UKB	Treatment/medication code: amias 2mg tablet	0.1399	0.2568	0.5449	0.5858
UKB	Treatment/medication code: carvedilol	-0.11	0.2019	-0.5447	0.586
UKB	Treatment/medication code: calcichew d3 tablet	-0.0584	0.1078	-0.542	0.5878
UKB	Non-cancer illness code, self-reported: urticaria	-0.1526	0.2819	-0.5413	0.5883
UKB	Treatment/medication code: luteine	-0.2288	0.4234	-0.5402	0.589
UKB	Non-cancer illness code, self-reported: hypopituitarism	0.4083	0.7576	0.5389	0.5899
UKB	Treatment/medication code: tibolone	0.1159	0.2155	0.5378	0.5907
UKB	Diagnoses - main ICD10: K25 Gastric ulcer	0.9029	1.6808	0.5372	0.5911
UKB	Non-cancer illness code, self-reported: fracture face / orbit / eye socket	0.4541	0.8468	0.5363	0.5918
UKB	Treatment/medication code: zolmitriptan	0.087	0.1624	0.5357	0.5922
UKB	Treatment/medication code: microgynon 30 tablet	0.1653	0.3094	0.5341	0.5933
UKB	Cancer code, self-reported: lymphoma	-0.1671	0.3132	-0.5335	0.5937
UKB	Treatment/medication code: prednisolone	0.0652	0.1223	0.5327	0.5942

UKB	Underlying (primary) cause of death: ICD10: A41.9 Septicaemia, unspecified	0.1494	0.2814	0.5311	0.5954
UKB	Diagnoses - main ICD10: B34 Viral infection of unspecified site	0.5203	0.9804	0.5307	0.5956
LDHUB	Bipolar disorder	0.0313	0.059	0.5308	0.5956
UKB	Diagnoses - main ICD10: J13 Pneumonia due to Streptococcus pneumoniae	-0.2359	0.4446	-0.5306	0.5957
UKB	Vitamin and mineral supplements: Folic acid or Folate (Vit B9)	0.0984	0.1872	0.5254	0.5993
UKB	Treatment/medication code: losec 10mg capsule	0.291	0.5543	0.525	0.5995
LDHUB	Cholesterol esters in medium LDL	0.0749	0.1427	0.5247	0.5998
UKB	Treatment/medication code: anastrozole	0.1367	0.2607	0.5244	0.6
UKB	Treatment/medication code: glucophage 500mg tablet	0.3848	0.7354	0.5232	0.6008
UKB	Ever had bowel cancer screening	0.0428	0.0822	0.5211	0.6023
UKB	Non-cancer illness code, self-reported: fracture shoulder / scapula	-0.1953	0.3758	-0.5198	0.6032
UKB	Diagnoses - main ICD10: I31 Other diseases of pericardium	0.1791	0.3447	0.5196	0.6033
UKB	Treatment/medication code: zomig 2.5mg tablet	-0.0506	0.0976	-0.5188	0.6039
LDHUB	Serum creatinine (non-diabetes)	0.0245	0.0473	0.5181	0.6044
UKB	Underlying (primary) cause of death: ICD10: J84.1 Other interstitial pulmonary diseases with	-0.0941	0.1822	-0.5166	0.6054
UKB	Treatment/medication code: monomax xl 60mg m/r tablet	0.0966	0.1874	0.5152	0.6064
LDHUB	Average number of double bonds in a fatty acid chain	0.0422	0.0821	0.5136	0.6076
UKB	Which eye(s) affected by presbyopia: Right eye	0.2239	0.4367	0.5127	0.6081
UKB	Underlying (primary) cause of death: ICD10: K70.1 Alcoholic hepatitis	-0.1982	0.387	-0.5121	0.6086
UKB	Treatment/medication code: estradiol product	0.5458	1.0686	0.5108	0.6095
UKB	Treatment/medication code: colofac-100 tablet	0.178	0.3491	0.5099	0.6101
UKB	Treatment/medication code: iron sulphate	0.1897	0.3724	0.5093	0.6105
UKB	Non-cancer illness code, self-reported: hypertrophic cardiomyopathy (hcm / hocm)	0.1637	0.3221	0.5084	0.6112
LDHUB	Concentration of large VLDL particles	-0.041	0.0806	-0.5078	0.6116
UKB	Treatment/medication code: neoclarityn 5mg tablet	-0.0701	0.1389	-0.5048	0.6137
UKB	Treatment/medication code: norgeston tablet	0.2728	0.5421	0.5032	0.6148
UKB	Number of spontaneous miscarriages	0.0608	0.1209	0.5027	0.6152
UKB	Non-cancer illness code, self-reported: liver failure/cirrhosis	0.1248	0.2486	0.5021	0.6156
UKB	Diagnoses - main ICD10: J39 Other diseases of upper respiratory tract	-0.0956	0.1906	-0.5013	0.6161
UKB	Treatment/medication code: warfarin	0.0515	0.1029	0.5008	0.6165
UKB	Non-cancer illness code, self-reported: breast fibroadenoma	0.0798	0.1597	0.4997	0.6173
UKB	Diagnoses - main ICD10: O02 Other abnormal products of conception	0.1485	0.2971	0.4996	0.6173
UKB	Treatment/medication code: bimatoprost	0.0795	0.1594	0.4985	0.6181
UKB	Illnesses of mother: Bowel cancer	0.0501	0.1007	0.4973	0.619
LDHUB	Total cholesterol in medium HDL	0.0745	0.1502	0.4964	0.6196
UKB	Non-cancer illness code, self-reported: cerebral aneurysm	0.0703	0.1418	0.4962	0.6198
UKB	Diagnoses - main ICD10: R56 Convulsions, not elsewhere classified	0.1392	0.2813	0.4949	0.6206
LDHUB	Concentration of medium LDL particles	0.0707	0.1438	0.4917	0.6229
UKB	Diagnoses - main ICD10: I63 Cerebral infarction	0.2138	0.4373	0.4889	0.6249
UKB	Non-cancer illness code, self-reported: breast cysts	-0.2637	0.5403	-0.488	0.6256
UKB	Diagnoses - main ICD10: R35 Polyuria	0.0703	0.1443	0.4872	0.6261
UKB	Non-cancer illness code, self-reported: benign neuroma	0.1301	0.2687	0.4843	0.6282
UKB	Non-cancer illness code, self-reported: respiratory infection	0.2028	0.4192	0.4836	0.6286
UKB	Treatment/medication code: migravele tablet	-0.1906	0.3939	-0.4838	0.6286
UKB	Treatment/medication code: oramorph 10mg/5ml oral solution	0.5041	1.0439	0.4829	0.6292
UKB	Treatment/medication code: diclomax sr 75mg m/r capsule	0.0819	0.1696	0.4828	0.6292
LDHUB	Mean diameter for VLDL particles	-0.0358	0.0742	-0.4818	0.6299
UKB	Underlying (primary) cause of death: ICD10: K70.4 Alcoholic hepatic failure	0.1033	0.2144	0.4817	0.63
LDHUB	Alanine	-0.0447	0.0928	-0.4817	0.63
UKB	Hair/balding pattern: Pattern 2	0.0253	0.0526	0.4812	0.6304
LDHUB	Forced expiratory volume in 1 second (FEV1)/Forced Vital capacity(FVC)	-0.0234	0.0486	-0.4809	0.6306
LDHUB	Chronic Kidney Disease	-0.0439	0.0916	-0.4791	0.6319
UKB	Non-cancer illness code, self-reported: rosacea	-0.1314	0.2749	-0.4781	0.6326
UKB	Treatment/medication code: arimidex 1mg tablet	-0.4927	1.0324	-0.4772	0.6332
UKB	Diagnoses - main ICD10: K61 Abscess of anal and rectal regions	0.1496	0.3138	0.4766	0.6336
UKB	Treatment/medication code: crestor 10mg tablet	-0.1171	0.2457	-0.4766	0.6337
UKB	Underlying (primary) cause of death: ICD10: C80.9 Malignant neoplasm, unspecified	0.1012	0.2127	0.476	0.6341
UKB	Non-cancer illness code, self-reported: anorexia/bulimia/other eating disorder	0.2836	0.5965	0.4754	0.6345
UKB	Diagnoses - main ICD10: K40 Inguinal hernia	0.028	0.0591	0.474	0.6355
UKB	Impedance of leg (right)	-0.0133	0.028	-0.4738	0.6356
UKB	Diagnoses - main ICD10: Q18 Other congenital malformations of face and neck	0.1617	0.3421	0.4727	0.6364
UKB	Non-cancer illness code, self-reported: acute infective polyneuritis/guillain-barre syndrome	-0.0637	0.1349	-0.4721	0.6369
UKB	Non-cancer illness code, self-reported: hiv/aids	0.1079	0.2285	0.472	0.6369

LDHUB	Phospholipids in large VLDL	-0.0387	0.0822	-0.4707	0.6378
UKB	Non-cancer illness code, self-reported: cervical polyps	-0.4924	1.0505	-0.4687	0.6393
LDHUB	Omega-9 and saturated fatty acids	0.0614	0.131	0.4685	0.6394
UKB	Heel bone mineral density (BMD) T-score, automated (left)	-0.0167	0.0356	-0.4676	0.6401
UKB	Cancer code, self-reported: uterine/endometrial cancer	-0.0958	0.2059	-0.4653	0.6417
LDHUB	Total lipids in medium LDL	0.0666	0.1432	0.465	0.6419
UKB	Chest pain felt outside physical activity	0.953	2.0554	0.4637	0.6429
UKB	Non-cancer illness code, self-reported: muscle or soft tissue injuries	0.0758	0.1635	0.4632	0.6432
UKB	Diagnoses - main ICD10: A09 Diarrhoea and gastro-enteritis of presumed infectious origin	-0.1307	0.2828	-0.462	0.6441
UKB	Diagnoses - main ICD10: S42 Fracture of shoulder and upper arm	-0.1471	0.3204	-0.4593	0.646
UKB	Non-cancer illness code, self-reported: fracture forearm / wrist	-0.584	1.2716	-0.4592	0.6461
UKB	Treatment/medication code: liquifilm tears 1.4% eye drops	-0.134	0.2922	-0.4587	0.6465
UKB	Underlying (primary) cause of death: ICD10: C53.9 Cervix uteri, unspecified	0.258	0.5632	0.4582	0.6468
UKB	Number of stillbirths	0.8292	1.8155	0.4567	0.6479
UKB	Treatment/medication code: canesten 1% cream	0.0667	0.1463	0.4561	0.6483
LDHUB	Mean Accumbens	0.0602	0.1328	0.4532	0.6504
UKB	Diagnoses - main ICD10: N84 Polyp of female genital tract	0.049	0.1082	0.4525	0.6509
UKB	Diagnoses - main ICD10: K01 Embedded and impacted teeth	-0.0875	0.1934	-0.4523	0.651
UKB	Non-cancer illness code, self-reported: stomach disorder	0.0862	0.1912	0.451	0.652
UKB	Underlying (primary) cause of death: ICD10: J43.9 Emphysema, unspecified	-0.4297	0.959	-0.448	0.6541
UKB	Non-cancer illness code, self-reported: pancreatitis	-0.0753	0.1682	-0.4478	0.6543
UKB	Non-cancer illness code, self-reported: leg claudication/ intermittent claudication	0.0642	0.144	0.4458	0.6557
LDHUB	Sitting height ratio	0.0315	0.0706	0.4459	0.6557
UKB	Diagnoses - main ICD10: K51 Ulcerative colitis	-0.0498	0.1118	-0.4455	0.656
UKB	Underlying (primary) cause of death: ICD10: C32.9 Larynx, unspecified	-0.2202	0.4962	-0.4438	0.6572
UKB	Treatment/medication code: movelat cream	0.778	1.7554	0.4432	0.6576
UKB	Treatment/medication code: tridestra tablet	0.1165	0.2631	0.4428	0.6579
UKB	Diagnoses - main ICD10: M45 Ankylosing spondylitis	0.0646	0.1461	0.4425	0.6581
UKB	Diagnoses - main ICD10: D86 Sarcoidosis	0.0658	0.1489	0.442	0.6585
UKB	Non-cancer illness code, self-reported: allergy to house dust mite	-0.1998	0.4552	-0.4389	0.6607
UKB	Diagnoses - main ICD10: J84 Other interstitial pulmonary diseases	0.2252	0.5136	0.4385	0.661
UKB	Treatment/medication code: buccastem 3mg tablet	0.3604	0.8245	0.4372	0.662
UKB	Treatment/medication code: solifenacin	0.0595	0.1373	0.4332	0.6649
UKB	Diagnoses - main ICD10: S12 Fracture of neck	0.2102	0.4862	0.4323	0.6655
UKB	Non-cancer illness code, self-reported: food intolerance	0.5684	1.3168	0.4317	0.666
LDHUB	Total lipids in small LDL	0.0569	0.1325	0.4292	0.6678
UKB	Non-cancer illness code, self-reported: svt / supraventricular tachycardia	0.1522	0.3564	0.4269	0.6695
UKB	Underlying (primary) cause of death: ICD10: G90.3 Multisystem degeneration	-0.0498	0.1173	-0.4247	0.671
UKB	Treatment/medication code: tamsulosin	0.084	0.1981	0.424	0.6715
UKB	Cancer code, self-reported: chronic myeloid	0.0896	0.2122	0.4221	0.6729
UKB	Treatment/medication code: azathioprine	-0.2181	0.5168	-0.4221	0.673
UKB	Non-cancer illness code, self-reported: pyloric stenosis	0.0464	0.11	0.422	0.6731
UKB	Treatment/medication code: adcal-d3 1.5g/10micrograms chewable tablet	0.0485	0.1161	0.4178	0.6761
UKB	Pulse wave reflection index	0.0273	0.0653	0.4176	0.6762
LDHUB	Total cholesterol in LDL	0.0623	0.1493	0.4176	0.6762
UKB	Treatment/medication code: lyrica 25mg capsule	0.4785	1.1499	0.4161	0.6773
UKB	Diagnoses - main ICD10: O00 Ectopic pregnancy	-0.1102	0.2647	-0.4162	0.6773
UKB	Diagnoses - main ICD10: N41 Inflammatory diseases of prostate	0.0882	0.2126	0.4148	0.6783
UKB	Diagnoses - main ICD10: M62 Other disorders of muscle	-0.156	0.3771	-0.4137	0.6791
UKB	Diagnoses - main ICD10: Z12 Special screening examination for neoplasms	0.0647	0.1568	0.4125	0.68
UKB	Diagnoses - main ICD10: O32 Maternal care for known or suspected malpresentation of foetu	0.1204	0.292	0.4123	0.6801
UKB	Diagnoses - main ICD10: L43 Lichen planus	-0.0808	0.1975	-0.4094	0.6822
UKB	Treatment/medication code: aminophylline	-0.0448	0.1096	-0.4087	0.6828
UKB	Underlying (primary) cause of death: ICD10: C20 Malignant neoplasm of rectum	-0.1785	0.4373	-0.4081	0.6832
UKB	Treatment/medication code: co-amoxiclav	0.0641	0.1575	0.4071	0.6839
UKB	Diagnoses - main ICD10: C20 Malignant neoplasm of rectum	-0.1483	0.3646	-0.4069	0.6841
UKB	Treatment/medication code: zirtek 10mg tablet	-0.1636	0.4025	-0.4064	0.6844
UKB	Underlying (primary) cause of death: ICD10: C91.0 Acute lymphoblastic leukaemia	0.0834	0.2053	0.4061	0.6847
UKB	Treatment/medication code: coversyl plus 4mg/1.25mg tablet	0.0947	0.2334	0.4055	0.6851
UKB	Underlying (primary) cause of death: ICD10: C55 Malignant neoplasm of uterus, part unspeci	-0.3268	0.8081	-0.4045	0.6859
UKB	Treatment/medication code: alfacalcidol	0.0793	0.1965	0.4039	0.6863
UKB	Treatment/medication code: sandrena 0.5mg gel	0.818	2.0251	0.4039	0.6863
LDHUB	Crohns disease	0.0243	0.0602	0.4039	0.6863



UKB	Non-cancer illness code, self-reported: fibrosing alveolitis/unspecified alveolitis	0.2035	0.5068	0.4016	0.688
UKB	Diagnoses - main ICD10: N34 Urethritis and urethral syndrome	0.0874	0.2208	0.396	0.6921
UKB	Treatment/medication code: norethisterone	0.5766	1.4576	0.3955	0.6924
UKB	Diagnoses - main ICD10: S30 Superficial injury of abdomen, lower back and pelvis	-0.0927	0.2358	-0.3932	0.6942
UKB	Diagnoses - main ICD10: O47 False labour	0.0744	0.1907	0.3899	0.6966
UKB	Treatment/medication code: brimonidine tartrate	-0.0662	0.1699	-0.3894	0.697
UKB	Underlying (primary) cause of death: ICD10: C90.0 Multiple myeloma	0.1125	0.2899	0.3879	0.6981
UKB	Treatment/medication code: bezafibrate	-0.1881	0.4895	-0.3844	0.7007
UKB	Diagnoses - main ICD10: K50 Crohn's disease [regional enteritis]	-0.0452	0.1184	-0.3819	0.7025
UKB	Length of longest manic/irritable episode	-0.0929	0.2439	-0.3808	0.7033
UKB	Treatment/medication code: viagra 50mg tablet	0.0851	0.2234	0.3807	0.7034
LDHUB	Free cholesterol	-0.0669	0.1759	-0.3801	0.7039
LDHUB	Cholesterol esters in large LDL	0.0562	0.1479	0.3798	0.7041
UKB	Non-cancer illness code, self-reported: heart failure/pulmonary odema	0.0663	0.1753	0.3781	0.7054
UKB	Non-cancer illness code, self-reported: gastritis/gastric erosions	0.8725	2.3088	0.3779	0.7055
UKB	Mineral and other dietary supplements: Selenium	0.0357	0.095	0.3763	0.7067
UKB	Diagnoses - main ICD10: Z71 Persons encountering health services for other counselling and i	0.0988	0.2628	0.3758	0.7071
LDHUB	Concentration of small LDL particles	0.0461	0.1238	0.3725	0.7095
UKB	Treatment/medication code: opticrom allergy eye drops	0.3498	0.9408	0.3718	0.71
UKB	Diagnoses - main ICD10: G62 Other polyneuropathies	0.0807	0.2176	0.371	0.7106
UKB	Non-cancer illness code, self-reported: vaginal prolapse/uterine prolapse	-0.0423	0.1149	-0.3681	0.7128
UKB	Cancer code, self-reported: sarcoma/fibrosarcoma	0.0866	0.2354	0.3678	0.713
LDHUB	Apolipoprotein B	-0.0423	0.1178	-0.3588	0.7198
UKB	Diagnoses - main ICD10: H80 Otosclerosis	-0.0483	0.1346	-0.3586	0.7199
UKB	Treatment/medication code: calcium+ergocalciferol tablet	-0.0895	0.2499	-0.3582	0.7202
UKB	Treatment/medication code: travatan 40micrograms/ml eye drops	-0.0611	0.1713	-0.3566	0.7214
UKB	Impedance of leg (left)	-0.0102	0.0287	-0.356	0.7218
UKB	Diagnoses - main ICD10: K65 Peritonitis	-0.1314	0.369	-0.3561	0.7218
UKB	Cancer code, self-reported: malignant melanoma	0.0399	0.1125	0.3551	0.7225
UKB	Non-cancer illness code, self-reported: anal problem	0.0956	0.2692	0.3551	0.7225
UKB	Diagnoses - main ICD10: D05 Carcinoma in situ of breast	-0.2359	0.6653	-0.3546	0.7229
UKB	Cancer code, self-reported: chronic lymphocytic	-0.0832	0.2354	-0.3534	0.7238
UKB	Treatment/medication code: hepacon b12 1mg/1ml injection	0.0777	0.2211	0.3512	0.7255
UKB	Treatment/medication code: cosopt 2%/0.5% eye drops	-0.0478	0.1364	-0.3505	0.7259
LDHUB	Total lipids in large LDL	0.0517	0.1479	0.3496	0.7266
UKB	Non-cancer illness code, self-reported: ectopic pregnancy	0.061	0.1749	0.3488	0.7272
UKB	Diagnoses - main ICD10: K86 Other diseases of pancreas	0.0463	0.1333	0.3471	0.7285
UKB	Treatment/medication code: sodium valproate	0.3716	1.0891	0.3412	0.7329
UKB	Diagnoses - main ICD10: H40 Glaucoma	0.0614	0.1804	0.3406	0.7334
LDHUB	Phospholipids in medium VLDL	-0.0263	0.0773	-0.3405	0.7334
UKB	Treatment/medication code: epilim 100mg crushable tablet	0.0576	0.1694	0.3399	0.7339
UKB	Diagnoses - main ICD10: Z08 Follow-up examination after treatment for malignant neoplasm	0.1565	0.4618	0.3388	0.7348
UKB	Treatment/medication code: garlic product	0.0519	0.1538	0.3375	0.7358
UKB	Treatment/medication code: tylex capsule	0.3913	1.1625	0.3366	0.7364
LDHUB	Concentration of large LDL particles	0.049	0.1456	0.3365	0.7365
LDHUB	Total cholesterol in HDL	0.0388	0.1162	0.3337	0.7386
UKB	Diagnoses - main ICD10: O16 Unspecified maternal hypertension	0.1293	0.3887	0.3328	0.7393
UKB	Eye problems/disorders: Other serious eye condition	-0.063	0.1895	-0.3325	0.7395
UKB	Treatment/medication code: terbinafine	0.0488	0.147	0.3317	0.7401
UKB	Treatment/medication code: betahistine	0.0855	0.2581	0.3311	0.7405
UKB	Diagnoses - main ICD10: H57 Other disorders of eye and adnexa	-0.0734	0.2219	-0.3306	0.7409
LDHUB	Free cholesterol in small VLDL	-0.03	0.0909	-0.3302	0.7413
UKB	Treatment/medication code: doxycycline	0.2728	0.8342	0.327	0.7436
UKB	Fracture resulting from simple fall	-0.0342	0.1046	-0.327	0.7437
UKB	Treatment/medication code: adalat 5mg capsule	-0.0822	0.2527	-0.3253	0.745
LDHUB	Neo-conscientiousness	-0.0398	0.1223	-0.325	0.7452
LDHUB	LDL cholesterol	-0.0169	0.0521	-0.3245	0.7456
UKB	Diagnoses - main ICD10: M21 Other acquired deformities of limbs	-0.807	2.492	-0.3239	0.7461
LDHUB	Inflammatory Bowel Disease (Euro)	-0.0185	0.0574	-0.3217	0.7477
UKB	Treatment/medication code: arcoxia 90mg tablet	-0.2014	0.6301	-0.3196	0.7492
UKB	Diagnoses - main ICD10: T86 Failure and rejection of transplanted organs and tissues	0.0393	0.1236	0.3183	0.7503
UKB	Potassium in urine	0.0136	0.043	0.3168	0.7514
UKB	Reason former drinker stopped drinking alcohol: Doctor's advice	-0.0595	0.1881	-0.3164	0.7517

UKB	Diagnoses - main ICD10: N05 Unspecified nephritic syndrome	-0.0784	0.251	-0.3125	0.7546
UKB	Non-cancer illness code, self-reported: fracture toe	0.1817	0.5821	0.3121	0.755
UKB	Treatment/medication code: bisoprolol	0.0291	0.094	0.3097	0.7568
LDHUB	Apolipoprotein A-I	-0.0416	0.1345	-0.3095	0.757
UKB	Non-cancer illness code, self-reported: renal failure not requiring dialysis	0.0901	0.2915	0.3089	0.7574
UKB	Diagnoses - main ICD10: J86 Pyothorax	-0.0571	0.1857	-0.3074	0.7585
UKB	Treatment/medication code: olmetec 10mg tablet	-0.0719	0.2358	-0.3048	0.7605
UKB	Treatment/medication code: senna product	-0.0681	0.2236	-0.3047	0.7606
UKB	Treatment/medication code: pilocarpine	0.0319	0.1048	0.3045	0.7607
UKB	Non-cancer illness code, self-reported: ulcerative colitis	-0.0357	0.1178	-0.3028	0.7621
UKB	Treatment/medication code: mesalazine	-0.0832	0.2756	-0.3019	0.7627
UKB	Treatment/medication code: quetiapine	0.0815	0.2703	0.3017	0.7629
UKB	Diagnoses - main ICD10: L05 Pilonidal cyst	0.0459	0.1522	0.3015	0.763
UKB	Treatment/medication code: metoclopramide	0.0474	0.1575	0.3007	0.7636
UKB	Diagnoses - main ICD10: O14 Gestational [pregnancy-induced] hypertension with significant p	-0.2207	0.7385	-0.2988	0.7651
UKB	Treatment/medication code: chlorpheniramine	0.0818	0.2739	0.2986	0.7652
UKB	Fractured bone site(s): Arm	-0.0362	0.1212	-0.2982	0.7655
UKB	Non-cancer illness code, self-reported: blistering/desquamating skin disorder	0.042	0.142	0.2959	0.7673
UKB	Diagnoses - main ICD10: R20 Disturbances of skin sensation	0.6119	2.0683	0.2958	0.7674
UKB	Underlying (primary) cause of death: ICD10: C16.0 Cardia	0.0532	0.1826	0.2914	0.7707
UKB	Treatment/medication code: brinzolamide	-0.0793	0.2731	-0.2904	0.7715
UKB	Treatment/medication code: omega-3/fish oil supplement	0.0279	0.0966	0.2891	0.7725
UKB	Diagnoses - main ICD10: I48 Atrial fibrillation and flutter	0.0204	0.0707	0.2891	0.7725
UKB	Non-cancer illness code, self-reported: gestational diabetes	-0.1384	0.4798	-0.2885	0.773
UKB	Frequency of other exercises in last 4 weeks	0.0251	0.087	0.2881	0.7733
UKB	Diagnoses - main ICD10: J43 Emphysema	0.0649	0.2256	0.2877	0.7736
UKB	Diagnoses - main ICD10: D69 Purpura and other haemorrhagic conditions	0.0556	0.1937	0.2871	0.774
UKB	Treatment/medication code: premique 0.625mg/5mg tablet	-0.0414	0.1446	-0.2864	0.7746
UKB	Treatment/medication code: zinc product	0.0711	0.2522	0.2819	0.778
UKB	Treatment/medication code: testogel 50mg gel 5g sachet	-0.0323	0.1147	-0.2816	0.7782
UKB	Diagnoses - main ICD10: Z36 Antenatal screening	0.028	0.1	0.2795	0.7799
UKB	Mother still alive	0.0379	0.1358	0.279	0.7802
UKB	Treatment/medication code: daktacort cream	-0.0492	0.177	-0.2781	0.7809
UKB	Diagnoses - main ICD10: I61 Intracerebral haemorrhage	-0.103	0.371	-0.2776	0.7813
UKB	Treatment/medication code: arthrotec 50 tablet	0.0779	0.2806	0.2774	0.7814
UKB	Reported occurrences of cancer	0.052	0.1875	0.2774	0.7815
LDHUB	Mono-unsaturated fatty acids	0.031	0.1124	0.2759	0.7826
UKB	Leg pain when walking ever disappears while walking	-0.0325	0.1179	-0.2757	0.7828
LDHUB	Glutamine	0.0288	0.1048	0.2745	0.7837
UKB	Treatment/medication code: cerazette 75micrograms tablet	0.2038	0.7452	0.2735	0.7845
UKB	Diagnoses - main ICD10: K90 Intestinal malabsorption	-0.0293	0.109	-0.2688	0.7881
UKB	Non-cancer illness code, self-reported: bowel / intestinal obstruction	-0.2236	0.8373	-0.267	0.7895
UKB	Non-cancer illness code, self-reported: arthritis (nos)	0.0416	0.1566	0.2658	0.7904
UKB	Diagnoses - main ICD10: Q38 Other congenital malformations of tongue, mouth and pharynx	0.0585	0.22	0.2658	0.7904
UKB	Diagnoses - main ICD10: M53 Other dorsopathies, not elsewhere classified	-0.0406	0.153	-0.2653	0.7908
UKB	Underlying (primary) cause of death: ICD10: F03 Unspecified dementia	-0.3649	1.3852	-0.2634	0.7922
UKB	Non-cancer illness code, self-reported: benign breast lump	0.0433	0.1647	0.2631	0.7925
LDHUB	Triglycerides in small VLDL	-0.0203	0.0778	-0.2609	0.7942
UKB	Non-cancer illness code, self-reported: cardiomyopathy	-0.0429	0.1648	-0.2601	0.7948
LDHUB	Ratio of bisallylic groups to total fatty acids	-0.0182	0.0699	-0.2597	0.7951
UKB	Diagnoses - main ICD10: I42 Cardiomyopathy	0.0313	0.1213	0.2583	0.7962
LDHUB	Cholesterol esters in medium HDL	0.0411	0.1599	0.257	0.7972
UKB	Diagnoses - main ICD10: C61 Malignant neoplasm of prostate	0.0334	0.1308	0.2556	0.7982
UKB	Underlying (primary) cause of death: ICD10: C78.6 Secondary malignant neoplasm of retrope	-0.0495	0.1947	-0.2542	0.7994
UKB	Treatment/medication code: telfast 30 tablet	0.0826	0.3261	0.2532	0.8001
LDHUB	Phospholipids in IDL	0.0364	0.1444	0.2521	0.801
UKB	Diagnoses - main ICD10: N83 Noninflammatory disorders of ovary, Fallopian tube and broad l	0.6712	2.6765	0.2508	0.802
UKB	Non-cancer illness code, self-reported: atrial fibrillation	0.0238	0.0961	0.2473	0.8047
UKB	Diagnoses - main ICD10: N18 Chronic renal failure	0.0783	0.317	0.247	0.8049
UKB	Diagnoses - main ICD10: K91 Postprocedural disorders of digestive system, not elsewhere cla	-0.0368	0.1491	-0.2466	0.8052
UKB	Illnesses of siblings: Breast cancer	0.035	0.1434	0.2443	0.807
UKB	Treatment/medication code: cozaar-comp 50mg/12.5mg tablet	-0.0433	0.178	-0.2435	0.8076
LDHUB	Phospholipids in medium HDL	0.0303	0.1248	0.2427	0.8082

LDHUB	Cholesterol esters in large HDL	-0.0233	0.0959	-0.2425	0.8084
UKB	Underlying (primary) cause of death: ICD10: C45.9 Mesothelioma, unspecified	0.0688	0.2842	0.2421	0.8087
UKB	Underlying (primary) cause of death: ICD10: K74.6 Other and unspecified cirrhosis of liver	-0.0581	0.2425	-0.2398	0.8105
LDHUB	Urate	0.0086	0.0357	0.2395	0.8107
UKB	Treatment/medication code: diovan 40mg capsule	-0.0452	0.1888	-0.2394	0.8108
LDHUB	Omega-3 fatty acids	0.0237	0.0992	0.2387	0.8114
UKB	Treatment/medication code: phenoxymethylpenicillin	-0.0472	0.198	-0.2385	0.8115
UKB	Diagnoses - main ICD10: I30 Acute pericarditis	-0.0294	0.1241	-0.2374	0.8124
UKB	Diagnoses - main ICD10: K42 Umbilical hernia	0.0296	0.125	0.2368	0.8128
UKB	Treatment/medication code: rhumalgan 25mg e/c tablet	0.0446	0.1888	0.2364	0.8131
UKB	Treatment/medication code: insulin product	0.0191	0.0812	0.2351	0.8141
UKB	Treatment/medication code: captopril	0.0662	0.2831	0.2339	0.8151
UKB	Diagnoses - main ICD10: N32 Other disorders of bladder	0.0249	0.1064	0.2339	0.8151
UKB	Diagnoses - main ICD10: H11 Other disorders of conjunctiva	0.0409	0.1752	0.2334	0.8155
UKB	Underlying (primary) cause of death: ICD10: K83.0 Cholangitis	0.052	0.2271	0.2292	0.8187
UKB	Treatment/medication code: nifedipine	-0.0378	0.1653	-0.2288	0.819
UKB	Underlying (primary) cause of death: ICD10: X78.0 Home	-0.0637	0.2792	-0.2283	0.8194
UKB	Treatment/medication code: progynova 1mg tablet	-0.0479	0.2104	-0.2278	0.8198
UKB	Treatment/medication code: dermivate cream	0.0576	0.2539	0.2269	0.8205
UKB	Treatment/medication code: phyllocontin continus 225mg m/r tablet	0.1012	0.4479	0.2258	0.8213
UKB	Reason for glasses/contact lenses: For just reading/near work as you are getting older (called	-0.0388	0.1721	-0.2253	0.8218
UKB	Underlying (primary) cause of death: ICD10: D43.2 Brain, unspecified	-0.4314	1.9405	-0.2223	0.8241
UKB	Diagnoses - main ICD10: N19 Unspecified renal failure	0.0366	0.1659	0.2204	0.8256
UKB	Non-cancer illness code, self-reported: retinal artery/vein occlusion	-0.0871	0.3961	-0.2199	0.826
UKB	Diagnoses - main ICD10: R14 Flatulence and related conditions	0.0295	0.1348	0.2186	0.8269
UKB	Treatment/medication code: cymalon cranberry 1.5g/5ml liquid	-0.0494	0.2273	-0.2174	0.8279
UKB	Diagnoses - main ICD10: H59 Postprocedural disorders of eye and adnexa, not elsewhere clas	-0.2737	1.2642	-0.2165	0.8286
UKB	Treatment/medication code: moxonidine	0.1823	0.8437	0.2161	0.8289
LDHUB	Total lipids in medium VLDL	-0.0166	0.0767	-0.2158	0.8292
UKB	Treatment/medication code: xalacom 0.005%/0.5% eye drops	0.0245	0.1139	0.2152	0.8296
UKB	Treatment/medication code: metronidazole	-0.0544	0.2538	-0.2145	0.8302
UKB	Diagnoses - main ICD10: H05 Disorders of orbit	-0.0346	0.1613	-0.2143	0.8303
UKB	Diagnoses - main ICD10: N47 Redundant prepuce, phimosis and paraphimosis	0.089	0.4153	0.2143	0.8303
UKB	Non-cancer illness code, self-reported: glaucoma	-0.0167	0.0782	-0.2131	0.8313
UKB	Diagnoses - main ICD10: S06 Intracranial injury	0.2594	1.2242	0.2119	0.8322
LDHUB	Concentration of large HDL particles	-0.0194	0.0928	-0.2092	0.8343
UKB	Diagnoses - main ICD10: D07 Carcinoma in situ of other and unspecified genital organs	0.1049	0.5028	0.2087	0.8347
UKB	Diagnoses - main ICD10: R30 Pain associated with micturition	0.0323	0.1558	0.2073	0.8358
UKB	Diagnoses - main ICD10: R26 Abnormalities of gait and mobility	0.0306	0.1501	0.2042	0.8382
UKB	Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones: Insulin	-0.0235	0.1168	-0.2015	0.8403
LDHUB	Total lipids in medium HDL	0.0271	0.1346	0.2011	0.8406
UKB	Treatment/medication code: sumatriptan	0.0254	0.1274	0.1992	0.8421
UKB	Treatment/medication code: adcal 600mg chewable tablet	-0.0481	0.2418	-0.199	0.8423
UKB	Treatment/medication code: priadel 200mg m/r tablet	0.0341	0.173	0.1971	0.8437
UKB	Treatment/medication code: selegiline	0.0447	0.2292	0.1952	0.8452
UKB	Cancer code, self-reported: basal cell carcinoma	0.0152	0.08	0.19	0.8493
UKB	Diagnoses - main ICD10: M46 Other inflammatory spondylopathies	-0.0246	0.1297	-0.1897	0.8495
UKB	Illnesses of father: Stroke	-0.0257	0.136	-0.1889	0.8502
UKB	Diagnoses - main ICD10: S72 Fracture of femur	-0.0304	0.1629	-0.1864	0.8522
LDHUB	Triglycerides in IDL	-0.0187	0.1009	-0.1853	0.853
UKB	Treatment/medication code: epaderm ointment	0.0279	0.1508	0.1847	0.8534
UKB	Illnesses of father: Diabetes	-0.0124	0.0673	-0.1842	0.8538
UKB	Age at death	0.134	0.7286	0.1839	0.8541
UKB	Treatment/medication code: lacidipine	-0.0453	0.2467	-0.1836	0.8544
LDHUB	Total cholesterol in large HDL	0.0189	0.1035	0.1826	0.8551
UKB	Treatment/medication code: carbomers	-0.0686	0.38	-0.1805	0.8568
LDHUB	Total lipids in large HDL	-0.0167	0.093	-0.1798	0.8573
UKB	Treatment/medication code: budesonide	0.0305	0.1717	0.1777	0.8589
UKB	Treatment/medication code: pizotifen	0.4661	2.6322	0.1771	0.8594
LDHUB	Concentration of medium HDL particles	0.0222	0.1273	0.174	0.8619
LDHUB	Free cholesterol in IDL	0.0209	0.1219	0.1714	0.8639
UKB	Treatment/medication code: budesonide+formoterol	0.6199	3.6257	0.171	0.8642
UKB	Non-cancer illness code, self-reported: spinal cord disorder	0.0317	0.1879	0.1685	0.8662

UKB	Treatment/medication code: risedronate sodium	-0.0282	0.1721	-0.1641	0.8696
UKB	Treatment/medication code: capasal shampoo	-0.0191	0.1176	-0.1623	0.8711
UKB	Treatment/medication code: nitrazepam	0.0238	0.1475	0.1611	0.872
UKB	Diagnoses - main ICD10: M06 Other rheumatoid arthritis	0.022	0.1376	0.1601	0.8728
LDHUB	Free cholesterol in large HDL	0.016	0.1002	0.1595	0.8733
UKB	Diagnoses - main ICD10: K08 Other disorders of teeth and supporting structures	0.0233	0.1481	0.1571	0.8752
UKB	Cancer code, self-reported: oesophageal cancer	-0.0282	0.1806	-0.1564	0.8757
UKB	Diagnoses - main ICD10: C22 Malignant neoplasm of liver and intrahepatic bile ducts	0.0317	0.2033	0.1559	0.8761
UKB	Diagnoses - main ICD10: S20 Superficial injury of thorax	0.0404	0.2597	0.1556	0.8763
LDHUB	Triglycerides in medium VLDL	-0.0128	0.0824	-0.1553	0.8766
LDHUB	Age at Menarche	0.0059	0.0383	0.1549	0.8769
UKB	Diagnoses - main ICD10: K41 Femoral hernia	0.0535	0.3459	0.1548	0.877
UKB	Underlying (primary) cause of death: ICD10: G20 Parkinson's disease	0.0461	0.2987	0.1543	0.8774
UKB	Diagnoses - main ICD10: D03 Melanoma in situ	-0.1213	0.7937	-0.1528	0.8786
LDHUB	Alzheimers disease	0.014	0.0932	0.1501	0.8807
UKB	Diagnoses - main ICD10: N73 Other female pelvic inflammatory diseases	0.6002	4.0024	0.15	0.8808
UKB	Treatment/medication code: adizem-xl plus m/r capsule	0.2724	1.8331	0.1486	0.8819
UKB	Treatment/medication code: dovonex 50micrograms/g cream	-0.0261	0.1763	-0.1482	0.8822
LDHUB	Total lipids in very small VLDL	-0.0152	0.1037	-0.1461	0.8839
UKB	Average monthly beer plus cider intake	0.0221	0.157	0.141	0.8879
UKB	Treatment/medication code: nasonex 0.05% aqueous nasal spray	0.0208	0.1485	0.1401	0.8886
UKB	Non-cancer illness code, self-reported: myositis/myopathy	-0.049	0.35	-0.14	0.8887
UKB	Diagnoses - main ICD10: G50 Disorders of trigeminal nerve	0.0334	0.2412	0.1385	0.8898
UKB	Diagnoses - main ICD10: E16 Other disorders of pancreatic internal secretion	0.0208	0.1525	0.1365	0.8914
UKB	Diagnoses - main ICD10: N60 Benign mammary dysplasia	-0.0174	0.128	-0.1356	0.8921
UKB	Diagnoses - main ICD10: G51 Facial nerve disorders	0.7112	5.2522	0.1354	0.8923
UKB	Treatment/medication code: cardura 1mg tablet	-0.0207	0.1568	-0.1319	0.8951
UKB	Treatment/medication code: livial 2.5mg tablet	-0.0265	0.2019	-0.1312	0.8956
UKB	Non-cancer illness code, self-reported: meningitis	0.7907	6.0469	0.1308	0.896
UKB	Treatment/medication code: lithium product	0.0285	0.2201	0.1296	0.8969
UKB	Non-cancer illness code, self-reported: venous thromboembolic disease	-0.0203	0.16	-0.1271	0.8989
UKB	Treatment/medication code: liothyronine	-0.0271	0.2139	-0.1269	0.8991
UKB	Diagnoses - main ICD10: S76 Injury of muscle and tendon at hip and thigh level	-0.0227	0.1844	-0.1231	0.9021
LDHUB	Mean Putamen	0.0097	0.0799	0.1212	0.9035
UKB	Treatment/medication code: lisinopril+hydrochlorothiazide 10mg/12.5mg tablet	0.0185	0.1568	0.1183	0.9058
UKB	Treatment/medication code: adalate 10mg capsule	0.0191	0.1634	0.117	0.9068
UKB	Non-cancer illness code, self-reported: vitiligo	0.024	0.205	0.117	0.9069
LDHUB	Average number of methylene groups per a double bond	-0.0095	0.0817	-0.1164	0.9073
UKB	Treatment/medication code: strontium product	-0.0143	0.124	-0.1157	0.9079
UKB	Cancer code, self-reported: tongue cancer	-0.0182	0.1595	-0.1138	0.9094
UKB	Non-cancer illness code, self-reported: asbestosis	-0.0333	0.2942	-0.1132	0.9099
UKB	Non-cancer illness code, self-reported: malaria	-0.0329	0.2917	-0.1128	0.9102
UKB	Treatment/medication code: uniphyllin continus 200mg m/r tablet	0.1511	1.3412	0.1127	0.9103
UKB	Diagnoses - main ICD10: M60 Myositis	0.022	0.1968	0.1117	0.911
LDHUB	Total cholesterol in small LDL	0.0167	0.1509	0.1105	0.912
UKB	Diagnoses - main ICD10: C21 Malignant neoplasm of anus and anal canal	-0.0332	0.3096	-0.1074	0.9145
UKB	Diagnoses - main ICD10: R79 Other abnormal findings of blood chemistry	0.0153	0.1428	0.1071	0.9147
UKB	Treatment/medication code: slozem 120mg m/r capsule	-0.0163	0.1554	-0.105	0.9163
UKB	Non-cancer illness code, self-reported: varicose veins	-0.0111	0.1065	-0.104	0.9172
UKB	Diagnoses - main ICD10: Z52 Donors of organs and tissues	0.0162	0.1568	0.1032	0.9178
UKB	Diagnoses - main ICD10: A41 Other septicaemia	0.0374	0.3653	0.1023	0.9185
UKB	Diagnoses - main ICD10: L40 Psoriasis	-0.0143	0.1396	-0.1022	0.9186
UKB	Non-cancer illness code, self-reported: trigeminal neuralgia	0.0183	0.1795	0.1019	0.9188
UKB	Diagnoses - main ICD10: Z00 General examination and investigation of persons without comp	0.0211	0.2113	0.0997	0.9205
UKB	Home area population density - urban or rural: Postcode not linkable	0.0318	0.3192	0.0997	0.9206
LDHUB	Concentration of IDL particles	0.0133	0.1338	0.0997	0.9206
UKB	Underlying (primary) cause of death: ICD10: I25.5 Ischaemic cardiomyopathy	-0.333	3.3428	-0.0996	0.9207
LDHUB	Concentration of medium VLDL particles	-0.007	0.071	-0.0991	0.9211
UKB	Treatment/medication code: becotide 50 inhaler	0.0104	0.1058	0.0984	0.9216
UKB	Diagnoses - main ICD10: C02 Malignant neoplasm of other and unspecified parts of tongue	0.0109	0.1114	0.0974	0.9224
LDHUB	Glucose	0.0084	0.087	0.097	0.9227
UKB	Treatment/medication code: acrivastine	0.0297	0.3102	0.0957	0.9238
UKB	Non-cancer illness code, self-reported: retinal detachment	-0.0151	0.1582	-0.0954	0.924

UKB	Non-cancer illness code, self-reported: optic neuritis	-0.0357	0.3762	-0.0949	0.9244
UKB	Diagnoses - main ICD10: R50 Fever of unknown origin	-0.0118	0.1255	-0.0936	0.9254
UKB	Treatment/medication code: hydroxycarbamide	-0.017	0.1815	-0.0935	0.9255
UKB	Diagnoses - main ICD10: D37 Neoplasm of uncertain or unknown behaviour of oral cavity and	-0.0285	0.3142	-0.0907	0.9277
UKB	Treatment/medication code: triamcinolone	-0.0225	0.2516	-0.0894	0.9288
UKB	Illnesses of father: Heart disease	0.0048	0.0544	0.0892	0.929
UKB	Handedness (chirality/laterality): Left-handed	0.0079	0.0887	0.089	0.9291
UKB	Cancer code, self-reported: bladder cancer	-0.0302	0.3402	-0.0889	0.9292
UKB	Treatment/medication code: penicillin v	-0.0327	0.3789	-0.0863	0.9312
UKB	Treatment/medication code: co-enzyme q10/ubiquinone/bio-quinone/coenzyme q10	0.0233	0.2734	0.0853	0.9321
UKB	Non-cancer illness code, self-reported: umbilical hernia	0.0124	0.1467	0.0845	0.9326
UKB	Diagnoses - main ICD10: N28 Other disorders of kidney and ureter, not elsewhere classified	0.0223	0.2651	0.084	0.9331
UKB	Treatment/medication code: half-inalderal la 80mg m/r capsule	0.0136	0.1622	0.0836	0.9334
UKB	Diagnoses - main ICD10: H65 Nonsuppurative otitis media	0.0171	0.2087	0.0819	0.9348
LDHUB	Neo-openness to experience	-0.0086	0.106	-0.0807	0.9356
LDHUB	Phospholipids in large HDL	-0.0073	0.0935	-0.0779	0.9379
UKB	Cancer code, self-reported: eye and/or adnexal cancer	0.0124	0.1611	0.0767	0.9389
UKB	Treatment/medication code: calcium carbonate+cholecalciferol 1.25g/200iu tablet	0.0121	0.1593	0.0761	0.9394
UKB	Diagnoses - main ICD10: S01 Open wound of head	0.0142	0.189	0.0753	0.94
LDHUB	Valine	-0.008	0.1072	-0.0745	0.9406
UKB	Diagnoses - main ICD10: I51 Complications and ill-defined descriptions of heart disease	-0.014	0.1888	-0.0743	0.9408
UKB	Treatment/medication code: travoprost	-0.5213	7.3129	-0.0713	0.9432
UKB	Diagnoses - main ICD10: Z53 Persons encountering health services for specific procedures, nc	0.0132	0.1859	0.071	0.9434
UKB	Underlying (primary) cause of death: ICD10: C22.0 Liver cell carcinoma	0.1719	2.4385	0.0705	0.9438
UKB	Treatment/medication code: cetirizine	0.0065	0.0921	0.0702	0.944
LDHUB	Concentration of very small VLDL particles	0.0066	0.0939	0.0701	0.9441
UKB	Treatment/medication code: isotard 25xl m/r tablet	-0.026	0.3783	-0.0688	0.9452
UKB	Cancer code, self-reported: liver/hepatocellular cancer	-0.0102	0.1495	-0.0684	0.9454
UKB	Treatment/medication code: nasobec aqueous 50micrograms nasal spray	0.0585	0.8711	0.0672	0.9464
UKB	Treatment/medication code: ortho-gynest 500micrograms pessary	-0.0205	0.3168	-0.0648	0.9483
UKB	Non-cancer illness code, self-reported: malabsorption/coeliac disease	-0.0066	0.1093	-0.0603	0.9519
UKB	Treatment/medication code: phenobarbitone	0.0154	0.2768	0.0557	0.9555
LDHUB	Concentration of small VLDL particles	-0.0042	0.0791	-0.0532	0.9576
LDHUB	Triglycerides in very small VLDL	-0.0044	0.084	-0.0529	0.9578
LDHUB	Total lipids in small VLDL	0.0043	0.0822	0.0521	0.9584
UKB	Cancer code, self-reported: primary bone cancer	-0.0143	0.2798	-0.0511	0.9592
LDHUB	Mean Hippocampus	-0.0049	0.0969	-0.051	0.9593
UKB	Non-cancer illness code, self-reported: cellulitis	-0.0108	0.2127	-0.0507	0.9596
UKB	Underlying (primary) cause of death: ICD10: C81.9 Hodgkin's disease, unspecified	-0.0107	0.2132	-0.05	0.9602
LDHUB	Total lipids in IDL	0.0069	0.1385	0.0497	0.9603
UKB	Bipolar disorder status	0.0078	0.1607	0.0484	0.9614
UKB	Treatment/medication code: anadin tablet	-0.0091	0.192	-0.0476	0.9621
LDHUB	Phospholipids in very small VLDL	0.0054	0.1157	0.0464	0.963
UKB	Non-cancer illness code, self-reported: thyroid goitre	0.0053	0.1177	0.0446	0.9644
UKB	Treatment/medication code: beclometasone dipropionate+salbutamol	-0.0115	0.2634	-0.0436	0.9653
UKB	Non-cancer illness code, self-reported: gestational hypertension/pre-eclampsia	0.0059	0.148	0.0401	0.968
UKB	Non-cancer illness code, self-reported: retinal problem	-0.0158	0.4007	-0.0395	0.9685
UKB	Treatment/medication code: manevac granules	-0.0143	0.3691	-0.0388	0.969
UKB	Treatment/medication code: climagest 1mg tablet	0.4481	12.0461	0.0372	0.9703
UKB	Treatment/medication code: vitamin k product	-0.0064	0.1732	-0.0369	0.9706
LDHUB	Total cholesterol in small VLDL	0.0038	0.1056	0.0363	0.971
UKB	Non-cancer illness code, self-reported: bell's palsy/facial nerve palsy	-0.0048	0.1331	-0.0361	0.9712
UKB	Surgery/amputation of toe or leg: Yes, toes	0.0045	0.1312	0.0342	0.9727
UKB	Treatment/medication code: tranexamic acid	-0.0696	2.0664	-0.0337	0.9731
UKB	Non-cancer illness code, self-reported: fracture radius	0.0069	0.2147	0.0319	0.9745
UKB	Non-cancer illness code, self-reported: urinary tract infection/kidney infection	0.003	0.0958	0.0312	0.9751
UKB	Treatment/medication code: ventolin 2mg tablet	0.008	0.2657	0.0302	0.9759
UKB	Diagnoses - main ICD10: D27 Benign neoplasm of ovary	0.0038	0.1359	0.0281	0.9776
UKB	Treatment/medication code: co-careldopa	-0.006	0.2155	-0.028	0.9777
UKB	Treatment/medication code: asacol 400mg e/c tablet	0.0055	0.1983	0.0276	0.978
UKB	Average monthly champagne plus white wine intake	-0.0036	0.1298	-0.0275	0.9781
UKB	Treatment/medication code: celiprolol	0.0056	0.2116	0.0266	0.9788
UKB	Eye problems/disorders: Glaucoma	-0.0016	0.0739	-0.021	0.9832

LDHUB	Serum total cholesterol	0.0028	0.1373	0.0204	0.9837
UKB	Treatment/medication code: dexamethasone	0.0068	0.3375	0.0202	0.9839
UKB	Treatment/medication code: metronidazole product	-0.0026	0.1515	-0.017	0.9864
UKB	Underlying (primary) cause of death: ICD10: I71.1 Thoracic aortic aneurysm, ruptured	-0.0062	0.3809	-0.0162	0.987
UKB	Diagnoses - main ICD10: K13 Other diseases of lip and oral mucosa	0.0054	0.3351	0.0161	0.9871
UKB	Treatment/medication code: oestrogen product	-0.0029	0.1811	-0.0159	0.9873
LDHUB	Phospholipids in small VLDL	-0.0014	0.0857	-0.0159	0.9873
LDHUB	Total Cholesterol	0.0007	0.0429	0.0152	0.9878
UKB	Cochlear implant	-0.0023	0.1966	-0.0119	0.9905
UKB	Cancer code, self-reported: breast cancer	0.0009	0.0833	0.0111	0.9911
UKB	Diagnoses - main ICD10: R15 Faecal incontinence	0.0029	0.2576	0.0111	0.9912
UKB	Illnesses of siblings: Bowel cancer	0.0009	0.1154	0.0075	0.994
UKB	Diagnoses - main ICD10: C44 Other malignant neoplasms of skin	0.0006	0.0807	0.007	0.9944
UKB	Non-cancer illness code, self-reported: mania/bipolar disorder/manic depression	-0.0005	0.0873	-0.0056	0.9955
UKB	Treatment/medication code: prednisolone product	-0.0006	0.1549	-0.0038	0.9969
UKB	Treatment/medication code: calcium salts	-0.0002	0.2475	-0.0009	0.9992
UKB	Diagnoses - main ICD10: C83 Diffuse non-Hodgkin's lymphoma	6.20E-05	0.2566	0.0002	0.9998
LDHUB	Total cholesterol in IDL	-1.47E-05	0.1444	-0.0001	0.9999

**Table S9a.** Curated List of IPA Diseases or Functions (Top Unique Categories)

Categories	Diseases or Functions Annotation	p-Value	# Molecules
Cancer	Endocrine carcinoma	2.04E-07	167
Carbohydrate Metabolism	Phosphorylation of carbohydrate	0.000061	5
Cell Cycle	Spindle checkpoint of tumor cell lines	0.000124	4
Cell-To-Cell Signaling and Interaction	Signaling of myeloid cells	0.000264	3
Cellular Assembly and Organization	Translocation of Golgi vesicles	0.000299	2
Hereditary Disorder	Charcot-Marie-Tooth disease type 4B	0.000299	2
Cell Death and Survival	Anoikis of stomach cancer cell lines	0.000299	2
Molecular Transport	Secretion of molecule	0.00042	19
Lipid Metabolism	Phosphorylation of lipid	0.000502	4
Cell Morphology	Length of dendrites	0.000502	4
Behavior	Self-administration	0.000506	3
Cellular Development	Development of kidney cell lines	0.000746	4
Gastrointestinal Disease	Crohn disease	0.000945	10
Cellular Compromise	Degeneration of male germ cells	0.000982	2
Developmental Disorder	Autosomal dominant mental retardation	0.00129	6
Cellular Movement	Migration of carcinoma cells	0.00173	3
Cellular Growth and Proliferation	Colony formation of fibroblast cell lines	0.00202	6
Cellular Function and Maintenance	Homeostasis of neutrophils	0.00204	2
Embryonic Development	Tubulogenesis	0.00211	4
Infectious Diseases	Viral Infection	0.0022	38
Cellular Response to Therapeutics	Radiosensitivity of prostate cancer cell lines	0.0027	2
Behavior,Nervous System Development and Function	Contextual fear memory	0.00344	2
Cardiovascular System Development and Function	Contractility of cardiomyocytes	0.00399	3
Organ Morphology	Quantity of germ cells	0.00475	7
Cell Signaling	Hydrolysis of GTP	0.00486	4
Nervous System Development and Function	Density of neurons	0.00579	6
Immunological Disease	Passive systemic anaphylaxis	0.00619	2
Neurological Disease	Frontotemporal dementia	0.00649	3
Organismal Injury and Abnormalities	Neurogenic muscular atrophy	0.00898	4
Tissue Development	Development of epithelial tissue	0.00915	15

Cardiovascular Disease	Atherosclerosis	0.00943	14
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**Table S9b. Ingenuity IPA Top Canonical Pathways**

<b>Name</b>	<b>p-value</b>	<b>Overlap</b>
MSP-RON Signaling Pathway	$8.92 \times 10^{-4}$	6.8% 5/74
Macropinocytosis Signaling	$2.04 \times 10^{-3}$	5.6% 5/89
Fc Receptor-mediated Phagocytosis in Macrophages and Monocytes	$2.35 \times 10^{-3}$	5.4% 5/92
Virus Entry via Endocytic Pathways	$6.80 \times 10^{-3}$	4.2% 5/118
Paxillin Signaling	$7.54 \times 10^{-3}$	4.1% 5/121

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