Supplementary Material

Healthy lifestyles are associated with alleviating the single-nucleotide polymorphisms based genetic risks of ischemic stroke, intracerebral hemorrhage, and myocardial infarction

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Table S1: Calculation of pure alcohol intake in UK Biobank study

	Red wine (glasses) Pure alcohol: 10.7g/100 ml	White wine (glasses) Pure alcohol: 9.7g/100 ml	Beer/cider (pints) Pure alcohol: 3.5g/100 ml	Spirits (measures) Pure alcohol: 31.7g/100 ml	Fortified wine (glasses) Pure alcohol: 14.4g/100 ml	Others (glasses) Pure alcohol: 3.5g/100 ml
Intake frequency (EID = 1558)						
Never	/	/	/	/	/	/
Special occasion only	EID= 4407; 1 glass = 125 ml	EID= 4418; 1 glass = 125 ml	EID= 4429; 1 pints = 473.2 ml	EID= 4440; 1 measure = 28 ml	EID= 4451; 1 glass = 125 ml	EID= 4462; 1 glass = 125 ml
1-3 times/month						
1-2 times/week	EID= 1568; 1 glass = 125 ml	EID= 1578; 1 glass = 125 ml	EID= 1588; 1 pints = 473.2 ml	EID= 1598; 1 measure = 28 ml	EID= 1608; 1 glass = 125 ml	EID= 5364; 1 glass = 125 ml
3-4 times/week						
5-7 times/week						

Criteria for calculation refer to previous studies. (1)

Table S2: The component of lifestyle risk score and details of the assessment of each lifestyle category

Field IDs	Description of filed IDs	Components of each lifestyle category	Scenarios	score1	Lifestyle category	Risk level[a]
20116 1239 1249 3456	● Smoking status ● Current tobacco smoking ● Past tobacco smoking ● Number of cigarettes currently smoked daily	Smoking (frequency and quantity)	Never; Previous (Smoked occasionally/Just tried once or twice)	0	**Smoking (0-4)**	Low (0 or 1)
			Prevrous; Current (Smoked occasionally/Just tried once or twice); Current (< 5 cigarettes/d)	1		
			Current (more than 5 cigarettes/d)	2		Intermediate: (2 or 3)
1239 1269 1279	● Current tobacco smoking ● Exposure to tobacco smoke at home ● Exposure to tobacco smoke outside the home	Secondhand smoke	No	0		
			> 0 to < 1 hour /week	1		High (4)
			≥ 1 hour /week	2		

1568,4407 1578,4418 1588,4429 1598,4440 1608,4451 5364,4462	● Average monthly/weekly red wine intake ● Average monthly/weekly white wine intake ● Average monthly/weekly Beer/cider intake ● Average monthly/weekly spirits intake ● Average monthly/weekly fortified wine intake ● Average monthly/weekly others intake	Alcohol consumption	Male: > 0 and ≤ 16 g/d Female: > 0 and ≤ 8 g/d	0	**Alcohol (0-2)**	Low (0)
			Male: > 16 and ≤ 30 g/d Female: ≥ 8 and ≤ 20 g/d	1		Intermediate (1)
			other	2		High (2)

884 894 904 914	● Number of days/week of moderate physical activity 10+ minutes; ● Duration of moderate activity; ● Number of days/week of vigorous physical activity 10+ minutes; ● Duration of vigorous activity	Physical activity	≥ 150 min/week moderate or ≥ 75 min/week vigorous or 150 min/week vigorous mixed (moderate + vigorous	0	**Physical (0-4)**	Low (0 or 1)
			1-149 min/week moderate or 1-74 vigorous or 1-149 min/week mixed activity	1		
			not performing any moderate or vigorous activity	2		Intermediate (2 or 3)
1070 1080 1090	● Time spent driving ● Time spent using computer ● Time spent watching television (TV)	Sedentary behaviour	< 4 h/day	0		
			≥ 4 & < 8 h/day	1		High (4)
			≥ 8 h/day	2		
1309 1319	● Fresh fruit intake ● Dried fruit intake	Fruit	≥ 3 units per day	0	**Diet pattern (0-11)**	Low (0-3)
			< 3 units per day	1		
1289 1299	● Cooked vegetable intake ● Salad / raw vegetable intake	Vegetable	≥ 9 heaped tablespoons per day	0		
			< 9 heaped tablespoons per day	1		

1438 1448 1458 1468	● Whole grains intake (Bread intake/Bread type/Cereal intake/Cereal type)	Whole grains	≥ 3 units per day	0		
			< 3 units per day	1		
1329 1339	● Oily fish intake ● Non-oily fish intake	Fish	≥ 2 times a week	0		
			< 2 times a week	1		
1408 1418	● Cheese intake ● Milk type used	Dairy	≥ 2 servings per day	0		
			< 2 servings per day	1		
1428 2654 1438	● Spread type ● Non-butter spread type details ● Bread intake	Vegetable oils	≥ 2 servings/day	0		Intermediate (4-7)
			< 2 servings/day	1		
1438 1448 1458 1468	● Refine grain (Bread intake/Bread type/Cereal intake/Cereal type)	Refined grains	≤ 2 servings/day	0		
			> 2 servings/day	1		
1349 3608	● Processed meat intake ● Age when last ate meat	Processed meat	≤ 1 serving/week	0		
			≤ 1 serving/week	1		
1359 1369 1379 1389	● Poultry intake ● Beef intake ● Lamb mutton intake ● Pork intake	Unprocessed meat	≤ 2 serving/week	0		High (8-11)
			> 2 serving/week	1		
6144	● Never eat eggs, dairy, wheat, sugar	Dairy/Sugar/egg intake	Never eat sugar or foods/drinks containing sugar Eat all of the above	0		
			Never eat dairy products Never eat eggs Never eat wheat products	1		

1478	● Salt added to food	Salt	Never/rarely/Sometimes	0		
			Usually/Always	1		
1160	● Sleep duration	Sleep duration	7-9h /d	0	**Sleep pattern (0-7)**	Low (0-2)
			< 7 or > 9 h /d	1		
1170	● Getting up in morning	Ease of getting up	Fairly easy/Very easy	0		
			Not at all easy/Not all easy	1		
1180	● Morning/evening person	Chronotype	Definitely a 'morning' person/ More a 'morning' than 'evening' person	0		Intermediate (3-4)
			More an 'evening' than a 'morning' person/ Definitely an 'evening' person	1		
1190	● Nap during day	Nap	Never/rarely	0		
			Sometimes/Usually	1		
1200	● Sleeplessness / insomnia	Insomnia	Never/rarely	0		High (5-7)
			Sometimes/Usually	1		
1210	● Snoring	Snoring	No	0		
			Yes	1		
1220	● Daytime dozing/sleeping(narcolepsy)	Narcolepsy	Never/rarely	0		
			Sometimes/Often/All of the time	1		

[a]The final risk level for each lifestyle category was classified as low, intermediate, or high based on the total score.

The criteria for classification refer to previous studies. (1-8)

Table S3: Codes used in the UK Biobank study to identify incident diseases

	Code	Code Text	IS	ICH	MI
Code type					
Self-report	20002 (1583)	Ischemic stroke	√		
	20002 (1491)	Brain haemorrhage		√	
	20002 (1075)	myocardial infarction			√
ICD-10	I63.0	Cerebral infarction due to thrombosis of precerebral arteries	√		
	I63.1	Cerebral infarction due to embolism of precerebral arteries	√		
	I63.2	Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	√		
	I63.3	Cerebral infarction due to thrombosis of cerebral arteries	√		
	I63.4	Cerebral infarction due to embolism of cerebral arteries	√		
	I63.5	Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	√		
	I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	√		
	I63.8	Other cerebral infarction	√		
	I63.9	Cerebral infarction, unspecified	√		
	I64.X[a]	Stroke, not specified as haemorrhage or infarction	√		
	I61	Intracerebral haemorrhage		√	
	I61.0	Intracerebral haemorrhage in hemisphere, subcortical		√	
	I60.1	Intracerebral haemorrhage in hemisphere, cortical		√	
	I61.2	Intracerebral haemorrhage in hemisphere, unspecified		√	
	I61.3	Intracerebral haemorrhage in brain stem		√	
	I61.4	Intracerebral haemorrhage in cerebellum		√	
	I61.5	Intracerebral haemorrhage, intraventricular		√	
	I61.6	Intracerebral haemorrhage, multiple localized		√	
	I61.8	Other intracerebral haemorrhage		√	
	I61.9	Intracerebral haemorrhage, unspecified		√	
	I21	Acute myocardial infarction			√
	I21.0	Acute transmural myocardial infarction of anterior wall			√
	I21.1	Acute transmural myocardial infarction of inferior wall			√
	I21.2	Acute transmural myocardial infarction of other sites			√
	I21.3	Acute transmural myocardial infarction of unspecified site			√
	I21.4	Acute subendocardial myocardial infarction			√

	I21.9	Acute myocardial infarction, unspecified			√
	I22	Subsequent myocardial infarction			√
	I22.0	Subsequent myocardial infarction of anterior wall			√
	I22.1	Subsequent myocardial infarction of inferior wall			√
	I22.8	Subsequent myocardial infarction of other sites			√
	I22.9	Subsequent myocardial infarction of unspecified site			√
	I23	Certain current complications following acute myocardial infarction			√
	I23.0	Haemopericardium as current complication following acute myocardial infarction			√
	I23.1	Atrial septal defect as current complication following acute myocardial infarction			√
	I23.2	Ventricular septal defect as current complication following acute myocardial infarction			√
	I23.3	Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction			√
	I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction			√
	I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction			√
	I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction			√
	I23.8	Other current complications following acute myocardial infarction			√
	I24.1	Dressler syndrome			√
	I25.2	Old myocardial infarction			√

[a] ICD 10: I64 (stroke not specified as haemorrhage or infarction) have been classified as ischemic stroke because of evidence that the vast majority of these are ischemic strokes

Table S4: Codes used in the UK Biobank study to identify prevalent diseases

Prevalent diseases	ICD-10	Self-report
Cardiovascular Diseases	I20-I25, I42, I48, I50, I60-I64, G45, G46	6150 (1,2,3), 20002 (1074-1083, 1086, 1471,1491, 1583)
Hypertension	I10-I13, I15	6150 (4), 20002 (1065,1072),6153 (2), 6177 (2)
Diabetes	E10-E14	2443(1),2976,6153(3),6177(3),20002(1220,1222,1223)
Cancer	C00-C97	20001

Table S5: Baseline characteristics of study participants with and without IS, ICH, and MI

Characteristics	Incident IS	No IS	*P*	Incident ICH	No ICH	*P*	Incident MI	No MI	*P*
N	4,642	310,402		1,046	313,998		9,485	30,5559	
Male	2,767 (59.61)	138,853 (44.73)	<0.001	552 (52.77)	141,068 (44.93)	<0.001	6,505 (68.58)	135,115 (44.22)	<0.001
Age, mean (SD), year	61.5 (6.52)	56.3 (7.98)	<0.001	61.5 (6.59)	56.3 (7.99)	<0.001	60.2 (6.87)	56.2 (7.99)	<0.001
Mean BMI (SD) (kg/m^2)	28.2 (4.95)	27.2 (4.69)	<0.001	27.5 (5.00)	27.2 (4.69)	0.092	28.6 (4.84)	27.2 (4.68)	<0.001
TDI, mean (SD)	17.5 (14.76)	15.7 (13.43)	<0.001	16.1 (13.75)	15.7 (13.45)	0.301	17.9 (14.90)	15.6 (13.40)	<0.001
Mean HDL-C (SD) (mmol/L)	1.38 (0.38)	1.47 (0.38)	<0.001	1.45 (0.39)	1.46 (0.38)	0.131	1.32 (0.35)	1.47 (0.38)	<0.001
Mean direct LDL-C (SD) (mmol/L)	3.54 (0.89)	3.60 (0.85)	<0.001	3.49 (0.86)	3.60 (0.86)	<0.001	3.64 (0.95)	3.60 (0.85)	<0.001
Qualification			<0.001			<0.001			<0.001
College or University degree	1,186 (25.55)	107,097 (34.50)		317 (30.31)	107,966 (34.38)		2,323 (24.49)	105,960 (34.68)	
A levels/AS levels or equivalent	478 (10.30)	36,646 (11.81)		100 (9.56)	37,024 (11.79)		884 (9.32)	36,240 (11.86)	
O levels/GCSEs or equivalent	959 (20.66)	67,612 (21.78)		229 (21.77)	68,342 (21.89)		1,918 (20.22)	66,653 (21.81)	
CSEs or equivalent	188 (4.05)	16,487 (5.31)		34 (3.25)	16,641 (5.30)		415 (4.38)	16,260 (5.32)	
NVQ/HND/HNC or equivalent	383 (8.25)	20,008 (6.45)		73 (6.98)	20,318 (6.47)		953 (10.05)	19,438 (6.36)	
Other professional qualifications	283 (6.10)	15,890 (5.12)		62 (5.93)	16,111 (5.13)		543 (5.72)	15,630 (5.12)	
None of the above	1,165 (25.10)	46,662 (15.03)		231 (22.08)	47,596 (15.16)		2,449 (25.82)	45,378 (14.85)	
History of cardiovascular disease	489 (10.53)	10,773 (3.47)	<0.001	102 (9.75)	11160 (3.55)	<0.001	345 (3.64)	10,917 (3.57)	0.760
History of hypertension	1909 (41.12)	75,992 (24.48)	<0.001	412 (39.39)	77,489 (24.68)	<0.001	2,316 (24.42)	75,585 (24.74)	0.486
History of diabetes	493 (10.62)	12,933 (4.17)	<0.001	85 (8.13)	13,341 (4.25)	<0.001	393 (4.14)	13,033 (4.27)	0.580
History of cancer	600 (12.93)	27,968 (9.01)	<0.001	166 (15.87)	28,402 (9.05)	<0.001	878 (9.26)	27,690 (9.06)	0.527
Lifestyle category									
Smoking			<0.001			0.003			<0.001
0	3327 (71.67)	250,650 (80.75)		802 (76.67)	253,175 (80.63)		6,709 (70.73)	247,268 (80.92)	
1	718 (15.47)	37803 (12.18)		147 (14.05)	38,374 (12.22)		1,437 (15.15)	37,084 (12.14)	
2	597 (12.86)	21949 (7.07)		97 (9.27)	22,449 (7.15)		1339 (14.12)	21207 (6.94)	
Alcohol intake			<0.001			<0.001			<0.001
0	1,195 (25.74)	84,996 (27.38)		279 (26.67)	85,912 (27.36)		2,635 (27.78)	83,556 (27.35)	
1	1,983 (42.72)	151,545 (48.82)		456 (43.59)	153,072 (48.75)		3,649 (38.47)	149,879 (49.05)	
2	1,464 (31.54)	73,861 (23.80)		311 (29.73)	75,014 (23.89)		3,201 (33.75)	72,124 (23.60)	
Physical activity			<0.001			0.007			<0.001

0	2,624 (56.53)	192,166 (61.91)		600 (57.36)	194,190 (61.84)	5,088 (53.64)	189,702 (62.08)	
1	1,879 (40.48)	112,249 (36.16)		419 (40.06)	113,709 (36.21)	4,013 (42.31)	110,115 (36.04)	
2	139 (2.99)	5,987 (1.93)		27 (2.58)	6,099 (1.94)	384 (4.05)	5,742 (1.88)	
Diet patterns			<0.001			0.170		<0.001
0	1,053 (22.68)	76,668 (24.70)		248 (23.71)	77,473 (24.67)	1,951 (20.57)	75,770 (24.80)	
1	3,238 (69.75)	218,628 (70.43)		734 (70.17)	221,132 (70.42)	6,807 (71.77)	215,059 (70.38)	
2	351 (7.56)	15,106 (4.87)		64 (6.12)	15,393 (4.90)	727 (7.66)	14,730 (4.82)	
Sleep patterns			<0.001			0.001		<0.001
0	2362 (50.88)	176802 (56.96)		539 (51.53)	178,625 (56.89)	4467 (47.10)	174,697 (57.17)	
1	1999 (43.06)	118440 (38.16)		458 (43.79)	119,981 (38.21)	4352 (45.88)	116,087 (37.99)	
2	281 (6.05)	15160 (4.88)		49 (4.68)	15,392 (4.90)	666 (7.02)	14,775 (4.84)	

Abbreviation: IS = ischemic stroke; ICH = intracerebral hemorrhage; MI = myocardial infarction.

Baseline characteristics are presented as mean (standard deviation, SD) if normally distributed, median (interquartile range, IQR) if non-normally distributed, and frequency (%) if categorical. The distribution of baseline characteristics by different outcome statuses was compared using Student's t or Mann-Whitney U tests for continuous variables and chi-squared tests for categorical variables.

P value was calculated by comparing the baseline characteristics between the outcome-free participants and participants who developed related outcomes

Table S6: Total participants and incident events per endpoint in each weighted lifestyle risk group

	Weighted of LRS		
	Low risk	Intermediate risk	High risk
IS			
Participants, No. (%)	129,513 (41.10)	178,840 (56.80)	6,691(2.10)
New-onset events, No. (%)	1,442 (1.11)	2,977 (1.66)	223 (3.33)
ICH			
Participants, No. (%)	137,411(43.60)	171,101(54.30)	6,532 (2.10)
New-onset events, No. (%)	375 (0.27)	638 (0.37)	33 (0.51)
MI			
Participants, No. (%)	124,252 (39.40)	184,135 (58.40)	6,657 (2.10)
New-onset events, No. (%)	2,657 (2.14)	6,327 (3.44)	501(7.53)

Table S7: Association of genetic risk and lifestyle risk with incident IS, ICH, and MI

	IS				ICH				MI			
	Incidence rate, /100,000 person-year	**Model[a] HR (95% CI)**	**Model[b] HR (95% CI)**	**Model[c] HR (95% CI)**	**Incidence rate, /100,000 person-year**	**Model[a] HR (95% CI)**	**Model[b] HR (95% CI)**	**Model[c] HR (95% CI)**	**Incidence rate, /100,000 person-year**	**Model[a] HR (95% CI)**	**Model[b] HR (95% CI)**	**Model[c] HR (95% CI)**
Genetic risk												
Low	102.16 (96.82, 107.79)	Ref.	-	Ref.	24.60 (22.50, 26.89)	Ref.	-	Ref.	178.48 (1.71.36, 185.88)	Ref.	-	Ref.
Intermediate	120.24 (114.43, 126.33))	1.18 (1.10, 1.28)	-	1.18 (1.10, 1.27)	/	/	-	/	234.18 (226.00, 242.65)	1.33 (1.26, 1.40)	-	1.32 (1.25, 1.40)
High	132.95 (126.84, 139.35)	1.31 (1.22, 1.41)	-	1.29 (1.20, 1.39)	28.55 (26.29, 31.01)	1.16 (1.03,1.32)	-	1.16 (1.03, 1.31)	318.43 (308.86, 328.31)	1.84 (1.74, 1.93)	-	1.83 (1.74, 1.92)
***P* for trend**		< 0.001		< 0.001		0.010		0.010		< 0.001		< 0.001
Lifestyle risk												
Low	88.90 (84.42, 93.61)	-	Ref.	Ref.	21.71 (19.63, 24.03)	-	Ref.	Ref.	168.18 (161.87, 174.74)	-	Ref.	Ref.
Intermediate	134.24 (129.50, 139.14)	-	1.22 (1.15, 1.31)	1.21 (1.14, 1.30)	29.94 (27.71, 32.36)	-	1.31 (1.15, 1.50)	1.30 (1.14, 1.49)	282.56 (275.71, 289.58)	-	1.32 (1.26, 1.38)	1.32 (1.26, 1.38)
High	281.55 (246.92, 321.04)	-	2.78 (2.40, 3.21)	2.70 (2.33, 3.12)	42.08 (29.93, 59.22)	-	2.10 (1.45, 3.02)	2.08 (1.44, 3.00)	635.88 (581.41, 695.46)	-	2.74 (2.48, 3.03)	2.68 (2.42, 2.96)
***P* for trend**			< 0.001	< 0.001			< 0.001	< 0.001			< 0.001	< 0.001

[a]Cox regression models were adjusted for age, sex, first 10 principal components of ancestry, genotyping batch. [b]Cox regression models were for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history. [c]Cox regression models were for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history, first 10 principal components of ancestry, genotyping batch. ⋆Re-assignments were made using the median of each group, and the re-assigned variables were brought into the model as continuous variables to perform a test for trend. Ref. = reference category.

Table S8: Risk of incident IS, ICH, and MI according to genetic risk and lifestyle stratified by sex, age and BMI

			Genetic Risk[a]			*P* for trend	*P* for interaction	Lifestyle Risk[b]			*P* for trend	*P* for interaction
Outcome	**Characteristics**		Low	Intermediate	High			Low	Intermediate	High		
IS	Sex	Male	Ref.	1.15 (1.05, 1.27)	1.33 (1.21, 1.45)	< 0.001	0.320	Ref.	1.17 (1.07, 1.28)	2.55 (2.14, 1.28)	< 0.001	0.330
		Female	Ref.	1.24 (1.11,1.39)	1.29 (1.15, 1.44)	< 0.001		Ref.	1.29 (1.17, 1.41)	3.14 (2.37, 4.16)	< 0.001	
	Age	< 60	Ref.	1.04 (0.91, 1.19)	1.29 (1.13, 1.46)	< 0.001	0.040	Ref.	1.26 (1.11, 1.42)	3.07 (2.45, 3.84)	< 0.001	0.010
		≥ 60	Ref.	1.25 (1.15, 1.37)	1.32 (1.21, 1.44)	< 0.001		Ref.	1.22 (1.13, 1.32)	2.50 (2.05, 3.05)	< 0.001	
	BMI	< 30	Ref.	1.19 (1.10, 1.31)	1.36 (1.25, 1.48)	< 0.001	0.300	Ref.	1.22 (1.13, 1.31)	3.05 (2.60, 3.61)	< 0.001	0.130
		≥ 30	Ref.	1.16 (1.02, 1.33)	1.21 (1.06, 1.38)	< 0.001		Ref.	1.24 (1.09, 1.41)	2.11 (1.57, 2.83)	< 0.001	
ICH	Sex	Male	Ref.	/	1.16 (0.98, 1.37)	0.090	0.830	Ref.	1.26 (1.04, 1.54)	2.06 (1.34, 3.15)	< 0.001	0.940
		Female	Ref.	/	1.18 (0.98, 1.40)	0.070		Ref.	1.35 (1.13, 1.62)	2.13 (1.00, 4.56)	< 0.001	
	Age	< 60	Ref.	/	1.14 (0.90, 1.43)	0.280	0.600	Ref.	1.52 (1.17, 1.97)	2.56 (1.43, 4.64)	< 0.001	0.100
		≥ 60	Ref.	/	1.18 (1.02, 1.36)	0.030		Ref.	1.25 (1.07, 1.46)	1.92 (1.19, 3.08)	< 0.001	
	BMI	< 30	Ref.	/	1.24 (1.08, 1.43)	< 0.001	0.060	Ref.	1.19 (1.03, 1.38)	2.06 (1.35, 3.12)	< 0.001	0.030
		≥ 30	Ref.	/	0.94 (0.72, 1.21)	0.600		Ref.	2.06 (1.47, 2.90)	2.64 (1.22, 5.72)	< 0.001	
MI	Sex	Male	Ref.	1.38 (1.29, 1.47)	1.91 (1.79, 2.03)	< 0.001	0.060	Ref.	1.25 (1.18, 1.33)	2.43 (2.17, 2.74)	< 0.001	0.001
		Female	Ref.	1.22 (1.11, 1.35)	1.69 (1.55, 1.85)	< 0.001		Ref.	1.35 (1.24, 1.46)	3.35 (2.88, 3.91)	< 0.001	
	Age	< 60	Ref.	1.39 (1.27, 1.53)	2.07 (1.90, 2.26)	< 0.001	<0.001	Ref.	1.40 (1.29, 1.51)	3.23 (2.81, 3.72)	< 0.001	< 0.001
		≥ 60	Ref.	1.29 (1.21, 1.38)	1.71 (1.60, 1.82)	< 0.001		Ref.	1.28 (1.21, 1.36)	2.17 (1.86, 2.53)	< 0.001	
	BMI	< 30	Ref.	1.34 (1.25, 1.43)	1.84 (1.73, 1.96)	< 0.001	0.730	Ref.	1.37 (1.30, 1.45)	2.91 (2.58, 3.28)	< 0.001	< 0.001
		≥ 30	Ref.	1.30 (1.19, 1.44)	1.85 (1.69, 2.02)	< 0.001		Ref.	1.22 (1.12, 1.34)	2.31 (1.93, 2.78)	< 0.001	

[a]Cox regression models were adjusted for age, sex. [b]Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history.

Table S9: Risk of IS, ICH, and MI according to genetic risk and lifestyle risk stratified by CMD status

		Genetic Risk[a]			*P* for trend	**P* for interaction	Lifestyle Risk[b]			*P* for trend	**P* for interaction
Outcome	**Prevalent disease**	**Low**	**Intermediate**	**High**			**Low**	**Intermediate**	**High**		
IS	With CMD	Ref.	1.15 (1.04, 1.28)	1.21 (1.09, 1.34)	< 0.001	0.18	Ref.	1.25 (1.14, 1.38)	2.99 (2.44, 3.67)	< 0.001	0.790
	Without CMD	Ref.	1.21 (1.09, 1.34)	1.38 (1.24, 1.52)	< 0.001		Ref.	1.21 (1.10, 1.32)	2.58 (2.09,3.18)	< 0.001	
ICH	With CMD	Ref.	/	1.19 (1.00, 1.42)	0.050	0.71	Ref.	1.22 (1.00, 1.48)	1.95 (1.15, 3.30)	< 0.001	0.540
	Without CMD	Ref.	/	1.14 (0.96, 1.35)	0.140		Ref.	1.39 (1.16, 1.66)	2.23 (1.34, 3.70)	< 0.001	
MI	With CMD	Ref.	1.30 (1.18, 1.44)	1.82 (1.65, 2.00)	< 0.001	0.90	Ref.	1.38 (1.26, 1.50)	2.48 (2.04, 3.02)	< 0.001	0.090
	Without CMD	Ref.	1.34 (1.25, 1.42)	1.84 (1.74, 1.96)	< 0.001		Ref.	1.30 (1.23, 1.37)	2.85 (2.53, 3.20)	< 0.001	

[a]Cox regression models were adjusted for age, sex. [b]Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, cancer history

Table S10: Single-nucleotide polymorphisms used to build the genetic risk score for IS

SNP	A1	A2	MAF	OR	SE	*P**	SNP	A1	A2	MAF	OR	SE	*P**
rs2466455	T	C	0.79	0.91	0.01	8.87E-15	rs9651613	A	G	0.34	1.05	0.01	3.32E-06
rs3184504	T	C	0.47	1.08	0.01	1.23E-14	rs147076266	A	G	0.98	0.80	0.05	3.40E-06
rs11066188	A	G	0.42	1.08	0.01	8.11E-14	rs1495900	A	G	0.74	0.95	0.01	3.43E-06
rs4766897	T	C	0.34	1.09	0.01	1.61E-12	rs79280766	A	G	0.04	1.16	0.03	3.52E-06
rs11066309	A	G	0.42	1.07	0.01	2.47E-12	rs35197511	T	C	0.09	0.89	0.03	3.55E-06
rs2107595	A	G	0.17	1.09	0.01	2.33E-11	rs36053597	T	C	0.17	1.06	0.01	3.78E-06
rs11242678	T	C	0.26	1.07	0.01	2.70E-10	rs7751332	T	C	0.96	1.13	0.03	5.06E-06
rs2758612	T	C	0.65	1.07	0.01	3.68E-09	rs6496123	A	G	0.63	0.95	0.01	5.12E-06
rs635634	T	C	0.19	1.08	0.01	9.18E-09	rs4286007	A	G	0.44	1.05	0.01	5.17E-06
rs34311906	T	C	0.60	0.94	0.01	1.07E-08	rs3176326	A	G	0.20	0.94	0.01	5.85E-06
rs11065822	T	G	0.36	1.07	0.01	1.35E-08	rs116119044	T	C	0.03	0.87	0.03	5.87E-06
rs473238	T	C	0.13	1.09	0.01	1.65E-08	rs7219031	A	G	0.19	1.06	0.01	5.91E-06
rs4942561	T	G	0.76	1.07	0.01	1.77E-08	rs10876531	A	C	0.70	1.05	0.01	6.03E-06
rs2066864	A	G	0.25	1.07	0.01	3.51E-08	rs73182566	T	C	0.02	1.23	0.04	6.11E-06
rs1537375	T	C	0.50	0.95	0.01	6.30E-08	rs9653750	A	G	0.17	1.06	0.01	6.37E-06
rs35276016	T	C	0.09	1.11	0.02	9.97E-08	rs2390117	A	C	0.05	1.12	0.02	6.64E-06
rs12445022	A	G	0.33	1.06	0.01	1.81E-07	rs2500281	A	G	0.74	1.06	0.01	6.67E-06
rs42039	T	C	0.25	0.94	0.01	2.18E-07	rs487399	A	G	0.55	1.05	0.01	6.82E-06
rs1975161	T	C	0.36	0.95	0.01	2.19E-07	rs10858960	A	G	0.27	1.05	0.01	7.24E-06
rs17035646	A	G	0.35	1.06	0.01	2.38E-07	rs117876107	A	G	0.03	1.15	0.03	7.25E-06
rs60102266	T	C	0.94	0.89	0.02	3.98E-07	rs9564881	A	G	0.87	0.94	0.01	7.44E-06
rs149070156	T	C	0.02	1.20	0.04	5.18E-07	rs2060213	T	C	0.76	0.95	0.01	7.48E-06
rs143268049	T	C	0.98	0.82	0.04	5.97E-07	rs4076834	T	G	0.94	1.10	0.02	7.56E-06
rs28469839	A	G	0.06	1.11	0.02	6.07E-07	rs10048682	T	C	0.26	1.05	0.01	7.83E-06
rs4932370	A	G	0.34	1.05	0.01	6.32E-07	rs10883926	A	G	0.60	1.05	0.01	7.86E-06
rs2229717	T	G	0.04	1.15	0.03	7.00E-07	rs80335285	A	G	0.87	0.94	0.01	8.24E-06
rs17148926	A	C	0.83	1.07	0.01	7.09E-07	rs12442616	T	C	0.65	1.05	0.01	1.91E-06
rs1549758	T	C	0.31	1.06	0.01	7.15E-07	rs2284665	T	G	0.22	0.94	0.01	1.93E-06
rs34416434	T	C	0.05	0.88	0.03	7.61E-07	rs149520112	T	G	0.02	1.23	0.04	1.94E-06
rs12562305	A	G	0.07	1.11	0.02	7.62E-07	rs79332111	T	C	0.88	0.93	0.02	1.98E-06
rs6838973	T	C	0.43	0.95	0.01	8.31E-07	rs11607169	A	G	0.80	1.06	0.01	2.03E-06
rs55704954	T	C	0.11	1.09	0.02	9.48E-07	rs34212978	T	C	0.90	0.92	0.02	2.04E-06
rs8103309	T	C	0.66	1.06	0.01	1.07E-06	rs7124178	T	C	0.75	0.95	0.01	2.29E-06
rs10777206	T	C	0.27	1.06	0.01	1.23E-06	rs11726275	A	G	0.63	0.95	0.01	2.29E-06
rs11678215	A	G	0.31	1.05	0.01	1.36E-06	rs17228325	A	G	0.07	0.90	0.02	2.40E-06
rs113802622	A	C	0.97	0.87	0.03	1.69E-06	rs10951550	T	C	0.47	0.95	0.01	2.47E-06
rs111254932	A	C	0.03	1.14	0.03	2.72E-06	rs7099238	T	G	0.03	1.14	0.03	2.48E-06
rs1471859	A	C	0.59	0.95	0.01	2.97E-06							

SNP = Single-nucleotide polymorphism. A1 = Allele1: Effect allele (coded allele). A2 = Allele2: Non effect allele (non coded allele). MAF = Minor Allele Frequency. OR = Odds ratio. SE = standard error. *P-value = Meta-analysis P-value using regression coefficients (beta and standard error).

Table S11: Single-nucleotide polymorphisms used to build the genetic risk score for ICH

SNP	A1	A2	MAF	OR	SE	*P**	SNP	A1	A2	MAF	OR	SE	*P**
rs11179580	T	C	0.24	0.73	0.06	7.21E-07	rs1467928	A	G	0.24	0.82	0.06	0.0009577
rs12705741	A	C	0.44	1.28	0.05	2.47E-06	rs4762262	A	C	0.12	1.29	0.08	0.0009587
rs4682240	A	G	0.95	0.55	0.13	3.02E-06	rs1077323	A	G	0.69	1.21	0.06	0.0009599
rs11107581	T	C	0.62	1.33	0.06	3.20E-06	rs34128784	A	C	0.02	1.84	0.19	0.0009619
rs17665526	A	G	0.24	0.76	0.06	3.94E-06	rs116963100	A	G	0.02	1.99	0.21	0.0009628
rs1895522	A	G	0.72	0.77	0.06	5.88E-06	rs194881	A	C	0.15	0.78	0.07	0.0009631
rs114491858	A	G	0.08	1.57	0.10	7.91E-06	rs6797741	T	G	0.60	0.84	0.05	0.0009668
rs6046712	T	C	0.99	0.29	0.27	8.00E-06	rs11722813	T	C	0.21	1.23	0.06	0.0009682
rs2202768	A	G	0.69	0.78	0.06	8.06E-06	rs1460791	A	C	0.98	0.50	0.21	0.0009688
rs13147707	T	C	0.86	1.41	0.08	8.19E-06	rs195167	A	G	0.08	1.38	0.10	0.000969
rs8044279	A	G	0.45	1.26	0.05	9.61E-06	rs4785358	A	G	0.11	0.76	0.08	0.0009694
rs6512935	A	G	0.56	0.80	0.05	1.08E-05	rs13293273	T	C	0.19	0.81	0.07	0.0009708
rs4628161	A	G	0.06	1.63	0.11	1.23E-05	rs76498737	T	C	0.02	2.00	0.21	0.0009715
rs17088724	A	G	0.02	2.37	0.20	1.23E-05	rs62174938	A	G	0.04	1.56	0.14	0.0009718
rs10150709	T	C	0.66	1.27	0.05	1.35E-05	rs7654157	A	G	0.38	1.19	0.05	0.000974
rs11142708	A	G	0.84	1.35	0.07	1.37E-05	rs7203039	T	C	0.77	1.22	0.06	0.0009768
rs10174010	T	C	0.91	0.66	0.09	1.42E-05	rs56050593	T	C	0.12	0.77	0.08	0.0009772
rs7562242	A	G	0.17	0.74	0.07	1.56E-05	rs7024108	T	C	0.34	0.84	0.05	0.00098
rs2588476	A	G	0.29	1.28	0.06	1.67E-05	rs12664360	T	C	0.57	0.84	0.05	0.0009809
rs7691074	A	G	0.03	1.88	0.15	1.81E-05	rs856912	A	G	0.94	0.68	0.12	0.0009828
rs7632916	A	C	0.57	0.80	0.05	1.83E-05	rs28367075	A	G	0.02	1.90	0.19	0.0009864
rs8007744	A	G	0.62	1.28	0.06	1.87E-05	rs6786678	A	G	0.02	0.53	0.19	0.0009867
rs72953868	A	G	0.12	0.72	0.08	1.88E-05	rs6075643	A	G	0.19	1.24	0.07	0.0009902
rs17654008	A	G	0.08	1.51	0.10	2.08E-05	rs58157362	T	G	0.13	0.78	0.08	0.0009911
rs7154628	T	C	0.94	1.59	0.11	2.18E-05	rs58537102	T	C	0.08	0.72	0.10	0.0009936
rs1435767	A	G	0.58	1.27	0.06	2.20E-05	rs77334716	A	G	0.90	1.34	0.09	0.0009947
rs12364945	A	G	0.75	0.77	0.06	2.28E-05	rs1921406	T	C	0.92	1.36	0.09	0.0009981
rs2863125	T	C	0.47	1.24	0.05	2.39E-05	rs62526200	A	G	0.04	1.63	0.15	0.000999
rs7847125	T	C	0.79	0.77	0.06	2.91E-05	rs1419750	A	G	0.32	0.83	0.06	0.001001
rs56366023	A	G	0.09	0.68	0.09	3.25E-05	rs2705730	T	C	0.83	1.25	0.07	0.001005
rs11624088	A	G	0.11	0.70	0.08	3.28E-05	rs16856200	T	C	0.99	2.16	0.23	0.001007
rs2731553	A	C	0.76	0.78	0.06	3.91E-05	rs6816001	T	C	0.02	2.01	0.21	0.001007
rs80355475	T	C	0.98	2.23	0.20	3.92E-05	rs8026040	A	C	0.55	1.18	0.05	0.001009
rs7655685	A	G	0.36	0.80	0.05	4.00E-05	rs10016497	A	G	0.86	0.78	0.08	0.00101
rs61288415	T	C	0.19	0.76	0.07	4.02E-05	rs6777118	A	G	0.83	1.26	0.07	0.001013
rs56110557	A	C	0.89	1.39	0.08	4.39E-05	rs116258882	A	G	0.02	1.90	0.20	0.001015
rs4474359	T	C	0.92	1.46	0.09	4.42E-05	rs7520016	A	C	0.45	1.19	0.05	0.001016
rs8041622	A	G	0.07	0.67	0.10	4.54E-05	rs34282125	T	G	0.92	1.39	0.10	0.001016
rs4630205	T	C	0.74	1.27	0.06	4.57E-05	rs72771887	T	C	0.01	2.13	0.23	0.001018
rs6535647	T	C	0.87	0.73	0.08	4.57E-05	rs11999963	T	C	0.14	0.79	0.07	0.001029
rs2274869	T	C	0.26	1.28	0.06	4.62E-05	rs7017468	T	C	0.21	0.81	0.06	0.001032
rs34163500	T	C	0.06	1.59	0.11	4.79E-05	rs78467878	A	G	0.03	1.67	0.16	0.001033
rs12312016	T	C	0.14	0.74	0.07	4.89E-05	rs13436608	A	G	0.21	1.23	0.06	0.001034

rs2794217	T	C	0.63	1.24	0.05	4.99E-05	rs4708272	T	C	0.61	0.84	0.05	0.001034
rs7001084	A	G	0.48	0.81	0.05	5.05E-05	rs5752792	T	C	0.82	0.80	0.07	0.00104
rs73177980	A	G	0.93	1.53	0.11	5.36E-05	rs77776377	A	G	0.03	0.59	0.16	0.001042
rs7653155	T	C	0.64	1.24	0.05	5.40E-05	rs67051952	A	G	0.92	1.37	0.10	0.001044
rs12129647	A	G	0.66	1.25	0.05	5.41E-05	rs2253559	A	G	0.95	1.55	0.13	0.001044
rs1773225	A	G	0.53	1.23	0.05	5.41E-05	rs117271305	T	G	0.97	1.65	0.15	0.001045
rs2100832	A	G	0.54	1.23	0.05	5.59E-05	rs1492725	T	C	0.86	0.78	0.08	0.001046
rs2255313	T	C	0.07	1.50	0.10	5.79E-05	rs1694055	A	G	0.44	1.18	0.05	0.001047
rs17182039	T	G	0.91	1.44	0.09	5.87E-05	rs4646334	A	G	0.03	1.70	0.16	0.001049
rs72734606	T	C	0.97	0.52	0.16	5.91E-05	rs34483298	T	G	0.17	1.25	0.07	0.00105
rs9552676	T	C	0.69	1.25	0.06	6.12E-05	rs11138670	A	C	0.76	1.22	0.06	0.001051
rs1864911	A	G	0.84	0.76	0.07	6.14E-05	rs17257182	T	C	0.03	1.78	0.18	0.001051
rs4835373	A	C	0.15	1.34	0.07	6.21E-05	rs79465116	T	G	0.79	0.81	0.06	0.001058
rs55795546	A	G	0.95	0.60	0.13	6.36E-05	rs62092639	T	C	0.16	1.27	0.07	0.00106
rs969561	A	G	0.80	0.77	0.06	6.40E-05	rs11713990	T	C	0.32	1.21	0.06	0.001064
rs78271936	A	G	0.99	2.37	0.22	6.72E-05	rs118093080	T	C	0.97	1.73	0.17	0.001066
rs111567587	A	C	0.04	0.54	0.16	6.75E-05	rs7632682	A	G	0.29	1.21	0.06	0.001067
rs7013746	T	C	0.96	0.60	0.13	6.83E-05	rs4765924	T	C	0.11	1.31	0.08	0.001068
rs930378	A	G	0.14	0.74	0.08	7.02E-05	rs17018123	T	C	0.90	0.75	0.09	0.001069
rs72777315	A	G	0.98	2.15	0.19	7.05E-05	rs7689415	T	C	0.82	1.24	0.07	0.001069
rs7196060	T	C	0.64	1.24	0.05	7.16E-05	rs28594474	A	G	0.29	0.83	0.06	0.00107
rs2867535	A	G	0.72	0.80	0.06	7.21E-05	rs3898730	T	C	0.04	1.52	0.13	0.001073
rs7031298	T	G	0.63	1.24	0.05	7.22E-05	rs4894919	A	G	0.31	1.20	0.06	0.001077
rs73388157	T	C	0.09	0.70	0.09	7.31E-05	rs2604296	T	C	0.41	0.84	0.05	0.001077
rs7703486	T	G	0.74	1.26	0.06	7.38E-05	rs2040287	T	C	0.04	0.64	0.14	0.001079
rs56150090	T	C	0.12	0.73	0.08	7.58E-05	rs2774931	T	C	0.62	0.84	0.05	0.00108
rs12950553	T	C	0.23	1.27	0.06	7.58E-05	rs7924892	A	C	0.31	1.20	0.06	0.00108
rs61865413	T	C	0.94	1.57	0.11	7.72E-05	rs1062708	T	C	0.49	1.18	0.05	0.00108
rs1484597	A	G	0.49	0.81	0.05	7.78E-05	rs73067918	T	C	0.94	0.70	0.11	0.001081
rs6596163	A	C	0.56	0.82	0.05	7.81E-05	rs12903455	T	C	0.73	1.21	0.06	0.001081
rs114576575	A	C	0.05	0.60	0.13	7.88E-05	rs7114107	A	G	0.16	0.79	0.07	0.001083
rs12264492	A	G	0.70	1.25	0.06	7.95E-05	rs7516241	T	C	0.02	0.50	0.21	0.001084
rs77746267	A	G	0.02	2.32	0.21	8.02E-05	rs4838797	T	G	0.54	1.18	0.05	0.001087
rs974605	T	C	0.65	0.81	0.05	8.09E-05	rs557964	T	G	0.72	0.83	0.06	0.001087
rs3787764	A	G	0.36	0.79	0.06	8.27E-05	rs2144241	A	G	0.52	1.18	0.05	0.001089
rs61939223	A	G	0.09	1.45	0.09	8.28E-05	rs12122506	A	G	0.08	1.38	0.10	0.001091
rs1246286	T	C	0.67	1.25	0.06	8.33E-05	rs3935020	T	C	0.09	0.74	0.09	0.001091
rs115602621	A	G	0.01	0.33	0.28	8.40E-05	rs112071233	A	G	0.95	0.67	0.12	0.001091
rs35550538	T	G	0.13	1.36	0.08	8.43E-05	rs118142202	T	C	0.03	1.75	0.17	0.001092
rs12081724	A	G	0.07	1.50	0.10	8.47E-05	rs111715364	A	C	0.01	0.48	0.22	0.001094
rs61736102	A	G	0.15	0.75	0.07	8.69E-05	rs6442281	A	C	0.08	1.39	0.10	0.001095
rs11128657	T	C	0.58	0.81	0.05	8.95E-05	rs1376539	A	G	0.73	1.21	0.06	0.001095
rs11978661	A	G	0.03	1.96	0.17	9.03E-05	rs11684515	T	C	0.09	1.36	0.09	0.001096
rs11937415	T	C	0.10	1.41	0.09	9.25E-05	rs12951230	A	G	0.86	0.79	0.07	0.001096
rs116679349	A	G	0.03	2.02	0.18	9.26E-05	rs61926122	T	C	0.96	0.63	0.14	0.001098
rs7009780	T	C	0.54	0.81	0.05	9.27E-05	rs79290520	T	C	0.03	1.69	0.16	0.001099

rs2909292	T	C	0.30	1.24	0.06	9.31E-05	rs11049295	T	C	0.89	1.31	0.08	0.0011
rs12308333	T	G	0.92	0.68	0.10	9.53E-05	rs9953554	A	G	0.35	1.20	0.06	0.001102
rs55984051	T	C	0.97	1.93	0.17	9.59E-05	rs2463734	T	C	0.63	0.84	0.05	0.001103
rs3826293	T	C	0.21	0.78	0.06	9.72E-05	rs351596	T	C	0.95	1.48	0.12	0.001108
rs13102946	A	G	0.52	0.82	0.05	9.77E-05	rs74974174	A	G	0.02	0.50	0.21	0.001108
rs76770958	T	C	0.02	0.40	0.24	9.90E-05	rs8181373	A	G	0.88	1.29	0.08	0.001108
rs16855573	A	G	0.02	2.24	0.21	9.90E-05	rs7548408	T	C	0.48	0.84	0.05	0.00111
rs2239016	A	G	0.68	0.81	0.05	9.98E-05	rs6056060	T	C	0.45	0.84	0.05	0.001113
rs62485139	T	G	0.98	2.11	0.19	0.0001015	rs76663729	A	G	0.07	0.71	0.10	0.001115
rs13211636	T	C	0.69	1.24	0.05	0.0001023	rs76089236	T	C	0.98	2.24	0.25	0.001119
rs2792969	T	G	0.57	0.82	0.05	0.0001029	rs112181520	T	C	0.02	0.50	0.21	0.001119
rs58280759	A	G	0.99	2.84	0.27	0.0001033	rs7088727	T	C	0.84	0.79	0.07	0.00112
rs4814608	T	C	0.61	1.23	0.05	0.0001051	rs6444501	T	G	0.36	1.19	0.05	0.001122
rs77317888	A	G	0.01	0.38	0.25	0.0001056	rs62012580	T	C	0.96	1.63	0.15	0.001123
rs1496547	T	C	0.67	1.24	0.06	0.0001058	rs744834	A	C	0.47	0.85	0.05	0.001126
rs6007467	A	G	0.76	1.26	0.06	0.0001062	rs73545043	A	G	0.09	1.35	0.09	0.001126
rs9827634	A	G	0.39	0.81	0.05	0.0001069	rs3759365	T	C	0.02	0.50	0.21	0.001127
rs1381988	A	G	0.36	1.23	0.05	0.0001099	rs9290491	T	C	0.11	1.31	0.08	0.001128
rs4598633	T	C	0.56	1.22	0.05	0.0001179	rs75231625	T	G	0.02	0.56	0.18	0.001129
rs7035294	A	G	0.95	1.59	0.12	0.0001199	rs73733710	T	C	0.90	1.33	0.09	0.001131
rs72824065	A	G	0.95	0.63	0.12	0.0001228	rs2041175	A	C	0.92	0.74	0.09	0.001132
rs523660	T	C	0.07	0.66	0.11	0.0001228	rs11080972	T	C	0.23	1.22	0.06	0.001132
rs6760038	T	G	0.06	0.65	0.11	0.0001256	rs1269715	T	C	0.76	1.21	0.06	0.001133
rs61914868	A	G	0.11	1.37	0.08	0.0001278	rs79729485	T	G	0.02	0.52	0.20	0.001134
rs62496727	T	C	0.98	0.47	0.20	0.00013	rs4696318	A	G	0.27	0.83	0.06	0.001136
rs6855875	T	C	0.18	0.77	0.07	0.0001305	rs17066228	T	G	0.05	1.50	0.12	0.001137
rs13243738	T	C	0.93	0.68	0.10	0.0001309	rs12117075	T	C	0.51	1.18	0.05	0.001139
rs11121464	T	C	0.79	1.28	0.06	0.0001318	rs6769906	A	G	0.10	1.33	0.09	0.00114
rs7359704	A	G	0.72	1.24	0.06	0.0001366	rs2560598	A	C	0.43	1.18	0.05	0.001143
rs35640691	A	C	0.65	0.81	0.05	0.0001384	rs35393440	A	G	0.07	0.71	0.10	0.001145
rs1935789	A	G	0.97	1.92	0.17	0.0001393	rs72944974	T	C	0.93	0.72	0.10	0.001148
rs6689933	T	C	0.77	0.79	0.06	0.0001412	rs117862161	A	G	0.97	1.74	0.17	0.001153
rs7144669	A	G	0.20	1.28	0.06	0.0001431	rs2828175	T	C	0.25	0.82	0.06	0.001155
rs7313431	T	C	0.30	1.23	0.06	0.0001435	rs71317426	A	G	0.96	0.63	0.14	0.001159
rs13183676	A	G	0.88	0.74	0.08	0.0001443	rs17073558	A	G	0.73	0.83	0.06	0.001162
rs4733688	T	C	0.83	0.77	0.07	0.0001463	rs1428201	T	C	0.60	0.84	0.05	0.001163
rs59700758	A	G	0.02	0.50	0.18	0.0001468	rs8085234	T	C	0.02	0.54	0.19	0.001163
rs12930954	T	C	0.94	1.51	0.11	0.000147	rs9297500	T	C	0.36	1.19	0.05	0.001165
rs3739230	A	G	0.13	1.33	0.08	0.0001486	rs877671	T	G	0.39	1.19	0.05	0.001165
rs9663912	T	C	0.85	1.32	0.07	0.0001486	rs66552644	A	C	0.08	0.73	0.10	0.001165
rs115329309	T	C	0.02	2.38	0.23	0.00015	rs1403773	A	G	0.91	1.33	0.09	0.001166
rs199022	A	G	0.41	0.82	0.05	0.0001501	rs72672141	T	G	0.05	0.69	0.12	0.001168
rs10139604	T	C	0.98	2.18	0.21	0.0001508	rs117595131	A	G	0.02	0.53	0.20	0.001169
rs9365313	T	G	0.73	1.25	0.06	0.0001529	rs4268982	A	G	0.97	1.72	0.17	0.001169
rs6545918	A	C	0.03	0.51	0.18	0.000155	rs9373320	A	G	0.74	0.83	0.06	0.00117
rs7588134	T	C	0.06	0.65	0.11	0.0001607	rs6466625	A	C	0.65	0.84	0.05	0.001176

rs55661537	A	G	0.02	0.46	0.21	0.0001609	rs2405159	T	G	0.15	0.79	0.07	0.001178
rs17732285	T	C	0.08	0.70	0.10	0.000161	rs79515490	A	G	0.97	0.59	0.16	0.001184
rs9931636	A	C	0.79	1.27	0.06	0.0001648	rs4843341	T	C	0.97	1.78	0.18	0.001184
rs7821707	A	G	0.61	1.22	0.05	0.0001654	rs12356774	T	C	0.04	1.59	0.14	0.001185
rs347062	T	C	0.85	1.31	0.07	0.0001655	rs17779025	T	C	0.13	1.29	0.08	0.001185
rs17005457	T	C	0.08	1.43	0.10	0.0001656	rs16844906	A	C	0.96	1.57	0.14	0.001189
rs13164018	T	C	0.64	0.82	0.05	0.0001661	rs2501902	A	G	0.83	1.24	0.07	0.00119
rs13317353	A	G	0.19	0.78	0.07	0.000167	rs13151727	A	G	0.65	0.84	0.05	0.00119
rs4374171	T	C	0.04	1.66	0.13	0.0001671	rs77122517	A	G	0.02	0.49	0.22	0.00119
rs10929653	A	G	0.42	1.22	0.05	0.0001692	rs28482785	A	G	0.98	1.82	0.18	0.001195
rs79906866	T	G	0.10	1.39	0.09	0.0001711	rs17622492	A	G	0.06	1.42	0.11	0.001197
rs80112840	T	G	0.02	2.31	0.22	0.0001743	rs3010286	A	C	0.22	0.82	0.06	0.001201
rs10762196	T	G	0.78	1.26	0.06	0.0001764	rs113470953	T	C	0.97	0.62	0.15	0.001206
rs114940462	T	G	0.04	1.63	0.13	0.0001768	rs2846419	A	G	0.56	1.19	0.05	0.001206
rs7295241	T	C	0.43	0.82	0.05	0.0001768	rs7544118	T	C	0.19	0.81	0.07	0.001207
rs56182730	T	C	0.57	0.82	0.05	0.0001773	rs73371447	A	G	0.98	0.57	0.17	0.001207
rs77355109	T	C	0.03	0.55	0.16	0.000178	rs11100381	T	C	0.71	1.20	0.06	0.001208
rs4658184	T	C	0.38	1.22	0.05	0.0001781	rs12579743	A	G	0.07	0.72	0.10	0.001209
rs59043219	A	G	0.36	1.22	0.05	0.0001803	rs73014353	T	G	0.95	1.47	0.12	0.001212
rs17617937	T	C	0.04	0.60	0.14	0.000181	rs77487388	A	G	0.99	0.39	0.29	0.001212
rs72720809	A	G	0.18	0.78	0.07	0.0001817	rs7079460	T	G	0.09	0.74	0.09	0.001212
rs12581753	A	C	0.04	0.60	0.14	0.0001842	rs80144245	T	C	0.96	0.62	0.15	0.001213
rs12615678	A	G	0.24	0.80	0.06	0.0001845	rs35094699	T	C	0.02	0.50	0.22	0.001216
rs10756760	T	C	0.82	0.78	0.07	0.000185	rs1924569	T	C	0.14	0.79	0.07	0.00122
rs6545816	A	C	0.46	0.82	0.05	0.0001855	rs79320651	T	G	0.86	1.28	0.08	0.00122
rs17426492	A	G	0.04	0.58	0.15	0.0001861	rs11595419	T	C	0.95	1.49	0.12	0.001221
rs17116558	A	C	0.91	1.40	0.09	0.0001866	rs4608591	T	C	0.62	1.19	0.05	0.001221
rs11249682	T	C	0.67	0.82	0.05	0.0001886	rs991708	T	C	0.60	0.84	0.05	0.001223
rs1562138	T	C	0.66	0.82	0.05	0.0001891	rs1058462	T	C	0.96	0.62	0.15	0.001223
rs4956517	T	C	0.76	0.80	0.06	0.0001896	rs12266820	T	C	0.19	1.24	0.07	0.001226
rs1076392	T	C	0.34	0.81	0.06	0.0001899	rs12331587	T	C	0.05	0.67	0.12	0.001229
rs479240	T	G	0.43	0.82	0.05	0.00019	rs117750283	A	G	0.03	1.72	0.17	0.00123
rs79703106	A	G	0.04	0.61	0.13	0.0001902	rs7934481	T	C	0.31	0.83	0.06	0.00123
rs7603694	T	C	0.84	1.33	0.08	0.0001917	rs7825143	A	C	0.18	0.81	0.07	0.001232
rs11236720	T	C	0.83	0.77	0.07	0.0001942	rs75562106	A	G	0.03	0.58	0.17	0.001234
rs116982685	A	G	0.03	0.52	0.17	0.0001952	rs7986514	A	G	0.92	1.39	0.10	0.001235
rs57821065	T	C	0.91	0.71	0.09	0.0001959	rs11816144	T	C	0.06	0.70	0.11	0.001236
rs478101	A	G	0.09	0.71	0.09	0.0001963	rs2388480	A	G	0.68	1.20	0.06	0.001237
rs12489086	A	G	0.19	0.78	0.07	0.0001999	rs964183	T	C	0.17	1.25	0.07	0.001239
rs2399367	A	G	0.96	0.59	0.14	0.0002018	rs77372183	T	C	0.03	1.70	0.16	0.001242
rs60089117	A	G	0.35	0.82	0.05	0.0002039	rs11121129	A	G	0.28	1.21	0.06	0.001243
rs632811	A	G	0.67	1.23	0.05	0.0002045	rs2005080	T	C	0.37	0.84	0.05	0.001244
rs2993578	T	C	0.95	0.63	0.12	0.000205	rs6840664	T	C	0.82	0.80	0.07	0.001245
rs2306712	A	C	0.03	1.88	0.17	0.0002055	rs17406549	T	C	0.02	0.54	0.19	0.001247
rs4461043	A	C	0.73	0.81	0.06	0.0002153	rs12275693	T	C	0.95	1.47	0.12	0.001249
rs56046609	T	G	0.14	0.76	0.08	0.0002163	rs17280260	A	G	0.06	0.70	0.11	0.00125

rs1337216	T	C	0.70	0.81	0.06	0.0002175	rs114331556	A	G	0.03	1.83	0.19	0.001251
rs16976887	A	C	0.08	1.43	0.10	0.0002208	rs73821765	A	G	0.02	1.86	0.19	0.001254
rs11940373	T	G	0.12	0.74	0.08	0.000222	rs452973	T	G	0.26	1.21	0.06	0.001255
rs10782894	A	G	0.93	1.45	0.10	0.0002239	rs10046864	T	C	0.71	1.20	0.06	0.001257
rs7642507	A	G	0.97	1.78	0.16	0.0002239	rs1495331	T	C	0.85	1.27	0.07	0.001258
rs62462012	T	C	0.05	1.57	0.12	0.0002244	rs7127744	T	C	0.07	0.73	0.10	0.00126
rs3814149	A	G	0.41	0.82	0.05	0.0002277	rs4846230	T	C	0.18	1.24	0.07	0.001261
rs1450763	A	G	0.75	1.25	0.06	0.0002289	rs79904646	T	C	0.12	0.77	0.08	0.001261
rs75320906	T	C	0.03	0.54	0.17	0.0002298	rs12294242	T	C	0.09	0.75	0.09	0.001262
rs10511174	A	G	0.95	1.56	0.12	0.000231	rs6658514	A	C	0.74	0.83	0.06	0.001266
rs9942264	A	G	0.02	2.13	0.21	0.0002327	rs11004788	A	G	0.01	0.45	0.25	0.001269
rs10258203	T	C	0.07	0.67	0.11	0.0002328	rs10770069	A	G	0.52	1.18	0.05	0.00127
rs76881481	A	G	0.07	0.67	0.11	0.0002347	rs8117600	A	C	0.13	1.28	0.08	0.001271
rs6558962	T	C	0.61	1.21	0.05	0.0002361	rs1809796	A	G	0.73	1.20	0.06	0.001272
rs7114331	A	G	0.45	1.21	0.05	0.0002373	rs117651715	A	G	0.92	0.73	0.10	0.001272
rs62248549	T	C	0.21	1.26	0.06	0.0002374	rs77078485	T	G	0.97	0.57	0.17	0.001272
rs118107222	A	C	0.02	2.29	0.23	0.0002406	rs117957254	T	C	0.01	0.42	0.27	0.001273
rs13412252	T	C	0.55	0.82	0.05	0.000245	rs34846042	T	C	0.02	1.95	0.21	0.001277
rs72844384	T	C	0.01	2.67	0.27	0.0002469	rs75413014	T	C	0.02	2.17	0.24	0.001278
rs72913291	T	C	0.82	0.78	0.07	0.0002473	rs4845445	T	C	0.36	0.84	0.05	0.001282
rs1579988	T	C	0.06	1.52	0.11	0.0002479	rs11806707	A	C	0.97	1.63	0.15	0.001282
rs17753412	A	G	0.07	1.49	0.11	0.0002481	rs2824880	A	G	0.74	1.21	0.06	0.001287
rs3747751	A	G	0.12	1.35	0.08	0.0002485	rs2905309	T	C	0.71	0.83	0.06	0.001288
rs9473979	A	G	0.02	0.45	0.22	0.0002509	rs75168814	T	C	0.97	1.69	0.16	0.001289
rs13322345	T	C	0.99	0.42	0.24	0.0002515	rs11086206	A	G	0.17	1.24	0.07	0.001292
rs4454228	T	C	0.04	1.59	0.13	0.0002516	rs7070115	A	G	0.57	0.85	0.05	0.001296
rs1864899	T	C	0.16	1.30	0.07	0.0002529	rs7309495	T	C	0.12	0.77	0.08	0.001298
rs6750100	A	G	0.72	0.81	0.06	0.0002558	rs62488184	T	C	0.92	1.37	0.10	0.0013
rs1862996	T	C	0.41	1.22	0.05	0.000257	rs6501072	T	C	0.23	0.82	0.06	0.001303
rs72686493	A	G	0.92	0.69	0.10	0.0002587	rs16926752	A	G	0.97	0.62	0.15	0.001304
rs1870958	T	G	0.90	1.38	0.09	0.0002592	rs78829625	A	G	0.94	0.71	0.11	0.001306
rs4277541	A	C	0.73	0.81	0.06	0.0002653	rs12440246	A	G	0.87	1.29	0.08	0.001307
rs2673574	A	G	0.08	1.46	0.10	0.0002684	rs9367228	T	C	0.38	0.85	0.05	0.001308
rs72743998	T	C	0.19	0.78	0.07	0.0002702	rs862227	A	G	0.55	0.84	0.05	0.001309
rs56211913	T	G	0.79	0.79	0.06	0.0002744	rs2202503	A	G	0.84	1.26	0.07	0.00131
rs10985546	A	G	0.39	1.21	0.05	0.0002752	rs6911745	A	G	0.02	1.80	0.18	0.001311
rs17837324	T	C	0.99	2.63	0.27	0.0002754	rs9296236	T	C	0.94	1.41	0.11	0.001312
rs12730679	T	C	0.14	0.76	0.07	0.0002756	rs111419144	T	C	0.02	2.07	0.23	0.001313
rs4732243	A	G	0.08	0.70	0.10	0.000276	rs73801074	A	G	0.87	0.78	0.08	0.001314
rs6996314	A	G	0.93	0.70	0.10	0.0002768	rs7255230	T	C	0.97	1.64	0.15	0.001314
rs7478680	T	C	0.13	1.35	0.08	0.0002807	rs117427656	A	G	0.04	0.62	0.15	0.001316
rs4902011	T	C	0.86	0.76	0.08	0.0002832	rs4235662	T	C	0.75	1.21	0.06	0.001319
rs2048792	T	C	0.32	0.82	0.06	0.0002832	rs851346	T	C	0.99	2.37	0.27	0.001321
rs115730988	T	C	0.02	2.02	0.19	0.0002834	rs4681044	A	G	0.65	0.84	0.05	0.001321
rs10060531	T	C	0.93	1.49	0.11	0.0002848	rs11251865	A	G	0.19	1.24	0.07	0.001321
rs67991003	T	C	0.20	0.79	0.07	0.0002873	rs67237883	T	C	0.30	0.84	0.06	0.001323

rs6117546	T	G	0.08	1.42	0.10	0.000289	rs1332211	T	C	0.86	0.79	0.07	0.001327
rs112923461	A	G	0.01	0.41	0.25	0.0002902	rs7195507	A	G	0.35	0.84	0.05	0.001327
rs10488671	T	G	0.07	0.69	0.10	0.0002935	rs76862630	A	G	0.04	1.52	0.13	0.001332
rs79920455	A	C	0.01	2.42	0.24	0.0002939	rs627036	A	G	0.15	0.79	0.07	0.001333
rs10255669	T	C	0.95	1.56	0.12	0.000294	rs114142688	T	C	0.96	0.63	0.15	0.001334
rs9540516	T	C	0.94	0.67	0.11	0.000294	rs2356737	A	C	0.56	1.18	0.05	0.001335
rs4663365	T	C	0.52	1.21	0.05	0.0002963	rs7752029	A	G	0.13	0.78	0.08	0.001339
rs12509979	A	G	0.14	0.76	0.08	0.0002977	rs10067814	T	C	0.39	1.18	0.05	0.00134
rs72716196	T	C	0.88	0.75	0.08	0.0002995	rs7986922	T	C	0.08	1.36	0.10	0.00134
rs4628268	T	C	0.52	1.20	0.05	0.0002997	rs1864061	T	G	0.10	0.75	0.09	0.001342
rs78730674	T	C	0.97	1.84	0.17	0.0003017	rs11109833	A	C	0.86	0.79	0.07	0.001345
rs11622977	A	G	0.11	0.75	0.08	0.0003064	rs7534889	T	C	0.08	0.74	0.09	0.001347
rs9677816	T	C	0.94	1.48	0.11	0.000307	rs72651144	A	G	0.96	0.65	0.14	0.00135
rs4681552	A	G	0.65	0.82	0.05	0.000308	rs34707355	T	C	0.31	0.84	0.06	0.00135
rs1215684	T	C	0.24	1.25	0.06	0.0003083	rs3787679	T	C	0.18	1.24	0.07	0.00135
rs9890889	A	C	0.87	0.75	0.08	0.0003099	rs1339183	T	C	0.20	1.23	0.07	0.001353
rs60417530	T	C	0.79	0.79	0.06	0.0003105	rs12595890	T	C	0.43	0.85	0.05	0.001355
rs10234231	T	C	0.54	0.83	0.05	0.0003113	rs57074747	T	G	0.09	1.35	0.09	0.001356
rs9300342	A	G	0.45	1.20	0.05	0.000312	rs66497213	A	G	0.93	1.40	0.10	0.001358
rs2702414	A	G	0.08	0.71	0.10	0.0003138	rs2201330	T	G	0.59	1.18	0.05	0.00136
rs17646807	T	C	0.97	1.90	0.18	0.0003143	rs35624813	T	C	0.96	1.56	0.14	0.001362
rs7068892	A	G	0.30	1.23	0.06	0.0003155	rs6997977	T	C	0.47	1.18	0.05	0.001362
rs28522483	A	G	0.02	2.00	0.19	0.0003202	rs2836105	A	G	0.96	1.58	0.14	0.001364
rs767048	T	C	0.93	1.45	0.10	0.0003208	rs7967228	A	G	0.68	0.84	0.06	0.001366
rs1514071	A	G	0.21	1.25	0.06	0.0003218	rs16852749	A	C	0.94	1.43	0.11	0.001368
rs661586	T	C	0.93	1.43	0.10	0.0003237	rs73373091	T	C	0.03	0.60	0.16	0.001368
rs11588804	T	C	0.18	0.78	0.07	0.0003241	rs309040	T	C	0.62	0.84	0.05	0.001371
rs250744	A	C	0.37	1.21	0.05	0.0003273	rs75673412	T	G	0.96	1.59	0.15	0.001372
rs12335774	T	C	0.98	2.07	0.20	0.0003277	rs34847307	A	G	0.81	1.23	0.07	0.00138
rs115480954	T	C	0.02	0.45	0.23	0.0003289	rs114634459	T	G	0.97	1.70	0.17	0.001382
rs12571178	T	G	0.99	0.44	0.23	0.0003319	rs9939762	T	C	0.80	1.23	0.07	0.001382
rs13185720	T	C	0.92	1.43	0.10	0.0003342	rs2187216	A	G	0.69	0.84	0.06	0.001382
rs34294852	T	C	0.77	1.24	0.06	0.0003352	rs76763820	T	C	0.03	1.65	0.16	0.001383
rs2394647	T	C	0.91	1.38	0.09	0.0003369	rs62117363	A	C	0.12	0.77	0.08	0.001386
rs10762184	A	G	0.28	1.23	0.06	0.000337	rs13045489	A	C	0.64	1.19	0.05	0.001387
rs61574000	A	G	0.90	1.37	0.09	0.0003388	rs11601794	A	C	0.46	0.85	0.05	0.001388
rs12145973	T	C	0.14	0.77	0.07	0.0003412	rs10777158	T	G	0.75	1.21	0.06	0.00139
rs853896	A	G	0.98	2.32	0.23	0.0003414	rs74771197	A	G	0.03	0.55	0.19	0.001391
rs17160844	T	G	0.03	1.80	0.16	0.0003416	rs7030697	T	G	0.02	2.08	0.23	0.001392
rs697456	T	C	0.64	1.21	0.05	0.0003429	rs12656334	A	G	0.15	1.26	0.07	0.001393
rs2414311	T	C	0.46	1.20	0.05	0.0003448	rs1172417	T	G	0.76	1.21	0.06	0.001394
rs557970	A	C	0.24	0.80	0.06	0.0003499	rs2800156	A	C	0.59	1.18	0.05	0.001395
rs7304649	A	G	0.97	1.84	0.17	0.0003502	rs1429117	A	G	0.66	1.19	0.05	0.001396
rs6090775	T	C	0.83	0.78	0.07	0.000353	rs10761751	A	G	0.52	1.18	0.05	0.001399
rs2607069	T	C	0.13	0.76	0.08	0.0003545	rs4763206	T	C	0.07	0.72	0.10	0.001399
rs12281635	A	G	0.61	0.83	0.05	0.0003545	rs9819099	T	C	0.76	1.22	0.06	0.0014

rs11625932	T	C	0.91	0.72	0.09	0.000356	rs4804044	A	G	0.47	0.85	0.05	0.001401
rs609039	T	G	0.74	1.23	0.06	0.000356	rs2275009	A	G	0.11	1.31	0.08	0.001403
rs17303568	A	G	0.94	1.49	0.11	0.0003565	rs117540732	A	G	0.03	0.57	0.18	0.001404
rs9883090	A	G	0.64	0.82	0.06	0.0003567	rs116967624	T	C	0.98	0.50	0.21	0.001405
rs4730781	T	G	0.88	0.76	0.08	0.0003567	rs12176087	A	C	0.13	0.78	0.08	0.001406
rs2978055	A	G	0.07	0.69	0.10	0.0003578	rs10847536	T	C	0.41	1.19	0.05	0.001408
rs72807135	A	C	0.02	0.49	0.20	0.000359	rs73296868	T	C	0.95	0.67	0.12	0.001412
rs75172596	T	C	0.04	1.68	0.15	0.0003609	rs9622791	A	G	0.08	1.37	0.10	0.001414
rs12612282	A	C	0.49	1.20	0.05	0.0003613	rs1990426	A	G	0.96	1.51	0.13	0.001421
rs12142081	T	G	0.44	1.21	0.05	0.0003635	rs61794805	T	C	0.77	0.82	0.06	0.001422
rs7955251	A	G	0.28	1.23	0.06	0.0003635	rs118152285	T	G	0.04	1.53	0.13	0.001423
rs11199293	A	G	0.06	0.66	0.12	0.0003658	rs114939761	A	G	0.02	1.87	0.20	0.001423
rs6738284	A	G	0.64	0.83	0.05	0.0003662	rs17522272	T	C	0.64	1.18	0.05	0.001425
rs113368209	A	G	0.97	1.85	0.17	0.0003681	rs72810576	A	G	0.06	0.70	0.11	0.001428
rs1783138	A	G	0.30	0.82	0.06	0.0003681	rs78596997	A	C	0.02	0.45	0.25	0.001428
rs13029877	T	C	0.87	1.31	0.08	0.0003685	rs73061198	A	G	0.06	1.46	0.12	0.001431
rs1451331	T	G	0.07	1.46	0.11	0.0003689	rs935190	T	C	0.68	1.20	0.06	0.001432
rs73515459	A	G	0.05	0.65	0.12	0.0003689	rs62131184	T	G	0.95	1.50	0.13	0.001433
rs3822953	A	C	0.60	1.21	0.05	0.0003693	rs235465	T	C	0.81	0.81	0.07	0.001436
rs79574044	A	G	0.09	1.38	0.09	0.0003697	rs10849055	T	C	0.03	1.67	0.16	0.001436
rs344724	T	C	0.54	0.83	0.05	0.0003716	rs10746000	A	G	0.32	1.19	0.05	0.001436
rs12526587	A	C	0.05	0.64	0.13	0.0003722	rs10890161	T	C	0.43	1.18	0.05	0.001439
rs3733678	A	G	0.08	1.38	0.09	0.0003745	rs55836369	T	C	0.46	1.19	0.05	0.001439
rs17605346	A	G	0.68	1.22	0.06	0.0003749	rs4283690	T	G	0.02	1.78	0.18	0.001443
rs41278454	A	G	0.03	1.81	0.17	0.0003766	rs7783734	T	C	0.20	1.23	0.06	0.001443
rs9317443	A	C	0.55	0.83	0.05	0.000377	rs2414223	A	C	0.14	1.27	0.07	0.001444
rs6864541	A	G	0.91	1.39	0.09	0.0003775	rs7646548	T	C	0.16	0.80	0.07	0.001445
rs17489608	T	C	0.27	0.80	0.06	0.0003778	rs1528404	T	C	0.50	0.85	0.05	0.001451
rs76948567	A	G	0.01	0.41	0.25	0.0003786	rs1958223	T	G	0.12	1.28	0.08	0.001451
rs1160299	A	G	0.65	0.82	0.05	0.0003833	rs78837649	T	C	0.02	0.53	0.20	0.001454
rs41375245	T	C	0.94	1.48	0.11	0.0003863	rs12598562	T	G	0.76	1.22	0.06	0.001461
rs78682716	A	G	0.04	0.60	0.14	0.0003874	rs60748840	T	C	0.08	0.73	0.10	0.001462
rs3944890	A	G	0.37	1.21	0.05	0.0003877	rs874319	T	C	0.14	1.27	0.08	0.001462
rs11901019	T	C	0.93	1.43	0.10	0.0003887	rs2670811	A	C	0.55	0.85	0.05	0.001462
rs9651632	A	C	0.70	0.82	0.06	0.0003898	rs1665190	T	C	0.60	1.19	0.05	0.001463
rs17512698	A	G	0.50	0.84	0.05	0.0003904	rs11166739	A	G	0.22	0.82	0.06	0.001463
rs113765968	A	G	0.02	1.94	0.19	0.0003927	rs56167922	A	G	0.86	0.79	0.07	0.001464
rs116033692	T	C	0.98	2.07	0.21	0.0003971	rs10878802	A	G	0.05	1.46	0.12	0.001465
rs62381757	T	C	0.03	0.57	0.16	0.0004003	rs58403709	T	G	0.72	0.83	0.06	0.001466
rs976211	A	C	0.90	0.73	0.09	0.0004012	rs9862121	A	G	0.94	0.70	0.11	0.001467
rs3757254	T	C	0.68	1.22	0.06	0.0004037	rs2267766	A	G	0.66	1.19	0.05	0.001467
rs8005999	A	G	0.08	0.70	0.10	0.0004045	rs726169	T	C	0.66	1.19	0.05	0.001468
rs61935573	T	G	0.21	0.80	0.06	0.000407	rs196603	T	C	0.09	1.34	0.09	0.00147
rs4964384	A	C	0.73	0.82	0.06	0.0004088	rs6426349	T	C	0.08	1.36	0.10	0.001471
rs844501	A	G	0.21	0.80	0.06	0.0004107	rs111726027	T	C	0.88	0.78	0.08	0.001472
rs1867788	T	C	0.06	1.48	0.11	0.0004144	rs76003462	A	G	0.04	0.62	0.15	0.001472

rs7982825	T	C	0.96	1.61	0.13	0.0004163	rs4746243	A	G	0.94	1.41	0.11	0.001472
rs9937143	T	C	0.14	0.77	0.07	0.0004216	rs12616565	T	C	0.03	1.68	0.16	0.001473
rs8179491	T	C	0.02	2.19	0.22	0.0004226	rs12310089	T	C	0.98	1.81	0.19	0.001473
rs11970705	A	G	0.17	0.78	0.07	0.0004256	rs670271	T	C	0.69	1.20	0.06	0.001477
rs113597316	A	G	0.98	0.47	0.21	0.0004262	rs1885474	T	G	0.91	0.74	0.09	0.00148
rs55927312	A	C	0.25	1.23	0.06	0.0004267	rs2365269	A	G	0.31	0.84	0.05	0.001485
rs2379186	T	C	0.72	0.81	0.06	0.000427	rs1263646	T	G	0.83	0.81	0.07	0.001485
rs7169622	T	G	0.23	0.81	0.06	0.0004274	rs11122534	A	G	0.83	0.80	0.07	0.001489
rs6973599	A	G	0.80	1.26	0.07	0.0004279	rs3134457	A	G	0.87	0.78	0.08	0.001489
rs77534264	A	G	0.98	1.91	0.18	0.0004293	rs212051	T	C	0.29	1.20	0.06	0.001494
rs73568432	A	G	0.05	1.52	0.12	0.0004333	rs4910293	A	G	0.47	0.85	0.05	0.001494
rs569287	A	G	0.05	1.54	0.12	0.000434	rs115903290	T	G	0.06	0.69	0.11	0.001496
rs17031481	T	G	0.98	0.47	0.22	0.0004341	rs3015365	T	G	0.53	0.85	0.05	0.001496
rs396752	T	C	0.10	1.36	0.09	0.0004353	rs10166544	A	G	0.02	0.51	0.21	0.001497
rs113714344	T	C	0.06	0.67	0.11	0.0004376	rs778473	A	G	0.70	0.84	0.06	0.001497
rs3819355	T	G	0.92	0.71	0.10	0.0004379	rs6597359	A	G	0.76	1.22	0.06	0.001497
rs2709589	A	G	0.53	0.84	0.05	0.0004386	rs11786225	A	G	0.31	0.84	0.06	0.001498
rs12491786	T	G	0.79	0.80	0.06	0.0004403	rs113534037	T	C	0.80	1.23	0.07	0.001498
rs76900637	T	C	0.98	0.51	0.19	0.0004405	rs12502972	A	G	0.02	1.86	0.20	0.001501
rs4958483	A	C	0.49	1.20	0.05	0.0004416	rs62413412	A	C	0.04	1.50	0.13	0.001501
rs7023670	A	G	0.30	0.82	0.06	0.0004436	rs72738720	A	C	0.97	1.73	0.17	0.001501
rs7868608	A	G	0.29	0.82	0.06	0.0004438	rs970877	T	G	0.13	1.27	0.08	0.001504
rs2807741	T	C	0.53	0.84	0.05	0.000446	rs74716894	A	C	0.03	0.59	0.17	0.001507
rs2829737	A	G	0.44	1.20	0.05	0.0004464	rs79540554	A	G	0.02	0.53	0.20	0.001507
rs1841633	A	G	0.17	0.78	0.07	0.0004485	rs114321398	T	C	0.02	1.80	0.18	0.001508
rs75535882	T	C	0.11	1.38	0.09	0.0004501	rs3759582	A	C	0.85	1.26	0.07	0.001512
rs40796	A	G	0.47	0.83	0.05	0.000451	rs11015308	A	G	0.90	0.76	0.09	0.001515
rs34500656	A	C	0.02	0.44	0.23	0.000451	rs72852279	T	C	0.88	0.78	0.08	0.001515
rs7796539	T	C	0.18	1.27	0.07	0.0004522	rs115358641	A	G	0.03	0.59	0.17	0.00152
rs74497839	T	G	0.07	0.70	0.10	0.0004538	rs76232551	A	G	0.04	0.63	0.14	0.001521
rs498820	T	C	0.61	1.22	0.06	0.0004549	rs6490062	T	C	0.06	0.70	0.11	0.001521
rs1419901	T	G	0.25	1.23	0.06	0.0004559	rs7726127	A	G	0.23	0.82	0.06	0.001523
rs71417113	T	C	0.96	0.64	0.13	0.000456	rs2036153	A	C	0.68	1.19	0.06	0.001526
rs7303829	A	G	0.02	2.05	0.21	0.0004596	rs6787596	A	G	0.52	1.18	0.05	0.001527
rs12440502	T	G	0.90	1.34	0.08	0.0004602	rs2876044	A	G	0.38	0.83	0.06	0.001529
rs4751648	T	C	0.56	0.83	0.05	0.0004606	rs117985401	T	C	0.97	1.59	0.15	0.001533
rs61805072	T	C	0.06	1.48	0.11	0.0004611	rs74340176	A	G	0.05	0.68	0.12	0.001534
rs112277610	T	C	0.01	2.45	0.26	0.0004616	rs9549842	T	C	0.98	0.51	0.21	0.001535
rs484491	A	G	0.70	0.82	0.06	0.0004622	rs149240	A	G	0.05	0.69	0.12	0.001536
rs4764862	A	G	0.28	0.82	0.06	0.0004639	rs77515960	T	C	0.01	0.47	0.24	0.001537
rs12111378	T	C	0.72	1.22	0.06	0.000464	rs72786182	T	G	0.06	0.71	0.11	0.001538
rs113122886	T	C	0.02	1.93	0.19	0.0004689	rs79611461	T	C	0.09	1.34	0.09	0.001539
rs6431881	T	C	0.36	0.83	0.05	0.0004709	rs74986711	T	C	0.08	0.73	0.10	0.001539
rs161844	A	C	0.87	0.76	0.08	0.0004721	rs11647650	A	G	0.08	1.36	0.10	0.00154
rs72792353	A	G	0.06	0.68	0.11	0.0004725	rs115763162	T	C	0.13	0.78	0.08	0.001542
rs284843	T	C	0.25	1.23	0.06	0.0004748	rs115811371	A	G	0.04	0.65	0.14	0.001543

rs9833827	T	G	0.79	1.25	0.06	0.0004753	rs10939515	A	G	0.16	1.25	0.07	0.001545
rs116978305	A	G	0.04	0.61	0.14	0.0004757	rs76119550	A	C	0.98	1.93	0.21	0.001545
rs56711923	T	C	0.54	1.20	0.05	0.0004761	rs17153771	A	G	0.91	1.35	0.10	0.001551
rs10094448	A	G	0.48	1.20	0.05	0.000478	rs2834906	A	C	0.12	0.78	0.08	0.001552
rs76911136	T	C	0.07	0.70	0.10	0.0004791	rs2691241	T	C	0.72	1.20	0.06	0.001554
rs17007604	A	C	0.88	1.32	0.08	0.0004833	rs56127959	T	C	0.94	0.71	0.11	0.001555
rs6856885	A	G	0.16	0.78	0.07	0.0004833	rs2244999	A	C	0.98	0.58	0.17	0.001555
rs4240183	T	C	0.39	0.83	0.05	0.0004833	rs59714119	T	C	0.96	1.58	0.14	0.001556
rs2252209	T	C	0.60	1.20	0.05	0.0004843	rs1925666	T	C	0.83	1.24	0.07	0.001559
rs11631989	A	G	0.52	0.84	0.05	0.0004897	rs78311797	T	G	0.03	1.68	0.16	0.001559
rs8123616	A	G	0.24	1.24	0.06	0.0004906	rs2508654	T	C	0.04	0.64	0.14	0.001563
rs489337	A	G	0.24	1.24	0.06	0.0004914	rs77023129	A	C	0.04	1.55	0.14	0.001564
rs1159022	A	G	0.65	1.21	0.05	0.0004917	rs10183203	T	C	0.35	1.18	0.05	0.001566
rs155020	T	G	0.79	1.25	0.06	0.000493	rs72966434	T	C	0.91	1.32	0.09	0.001568
rs35131811	A	G	0.91	0.73	0.09	0.0004933	rs74857780	T	C	0.01	0.44	0.26	0.001569
rs13331079	T	C	0.09	1.38	0.09	0.0004939	rs4561679	T	C	0.11	1.30	0.08	0.00157
rs10215483	A	G	0.81	0.80	0.07	0.0004974	rs727824	A	G	0.08	1.35	0.09	0.001574
rs34404520	T	C	0.89	1.34	0.08	0.0005018	rs12762222	T	C	0.99	0.45	0.25	0.001574
rs8182221	T	C	0.29	1.23	0.06	0.0005027	rs73219043	A	G	0.87	0.78	0.08	0.001574
rs78004218	T	G	0.03	0.52	0.19	0.0005031	rs59636772	T	C	0.06	1.42	0.11	0.001575
rs6780016	T	C	0.27	0.82	0.06	0.0005054	rs114358996	A	G	0.95	0.67	0.13	0.001577
rs117422855	T	C	0.97	0.58	0.16	0.0005054	rs73612192	T	C	0.02	0.53	0.20	0.001579
rs117641050	T	C	0.02	0.54	0.18	0.0005061	rs2830520	T	C	0.58	0.85	0.05	0.00158
rs10788618	T	C	0.29	0.82	0.06	0.0005067	rs78931156	A	C	0.03	1.70	0.17	0.001582
rs116985522	A	G	0.97	0.59	0.15	0.0005088	rs2642439	A	G	0.32	0.84	0.06	0.001585
rs3217881	A	G	0.44	0.84	0.05	0.0005097	rs73735777	T	C	0.07	1.37	0.10	0.001585
rs79692902	A	G	0.97	1.83	0.17	0.000511	rs2379177	A	C	0.09	0.75	0.09	0.001588
rs6467552	T	C	0.49	0.84	0.05	0.000511	rs79723190	T	C	0.03	0.62	0.15	0.00159
rs72641604	A	G	0.05	0.65	0.12	0.0005119	rs76271977	T	C	0.02	0.54	0.20	0.001593
rs12910702	A	G	0.02	2.21	0.23	0.0005131	rs12646723	T	C	0.08	0.74	0.10	0.001594
rs9559450	A	G	0.09	1.37	0.09	0.0005162	rs75822304	T	C	0.92	1.35	0.10	0.001598
rs73651356	A	G	0.97	0.55	0.17	0.0005175	rs9642650	A	G	0.62	1.19	0.05	0.0016
rs2662330	T	C	0.57	1.20	0.05	0.0005177	rs4915005	T	C	0.92	0.73	0.10	0.001604
rs66520641	A	G	0.87	0.77	0.08	0.0005182	rs6580696	T	C	0.58	0.85	0.05	0.001607
rs16873806	A	G	0.02	1.88	0.18	0.0005184	rs13102739	T	C	0.62	1.18	0.05	0.001608
rs118146535	T	C	0.02	0.50	0.20	0.0005197	rs116846077	A	G	0.02	2.05	0.23	0.001613
rs2841018	T	C	0.04	0.62	0.14	0.00052	rs7933600	T	C	0.96	1.51	0.13	0.001614
rs75571257	A	G	0.96	0.63	0.13	0.0005245	rs62207981	T	C	0.04	0.67	0.13	0.001614
rs117222673	A	G	0.98	0.48	0.21	0.0005282	rs181974	A	G	0.06	0.70	0.11	0.001615
rs9792016	A	G	0.93	0.71	0.10	0.0005384	rs76924447	T	C	0.11	1.30	0.08	0.001616
rs1508945	A	C	0.97	1.72	0.16	0.0005391	rs6733455	T	C	0.28	0.84	0.06	0.001617
rs6702736	T	C	0.32	1.21	0.06	0.0005419	rs12185684	T	C	0.76	0.82	0.06	0.001617
rs4976320	T	C	0.10	1.35	0.09	0.0005421	rs4262499	A	G	0.87	1.28	0.08	0.001618
rs1825776	A	G	0.50	1.20	0.05	0.0005429	rs72695939	T	C	0.25	1.21	0.06	0.001618
rs117063844	A	G	0.04	1.68	0.15	0.0005437	rs1670725	T	C	0.15	0.79	0.07	0.001622
rs1893639	A	C	0.43	1.20	0.05	0.0005532	rs4653280	A	C	0.05	1.43	0.11	0.001623

rs75209388	A	G	0.24	0.81	0.06	0.0005551	rs73596740	T	G	0.90	1.31	0.09	0.001623
rs9315705	A	C	0.83	0.79	0.07	0.0005594	rs393046	T	C	0.58	1.18	0.05	0.001624
rs2165563	T	G	0.16	0.79	0.07	0.00056	rs17466835	T	G	0.52	1.18	0.05	0.001626
rs72816712	T	C	0.11	0.75	0.08	0.000561	rs9327103	T	C	0.91	0.75	0.09	0.001626
rs35270756	T	C	0.16	1.27	0.07	0.0005626	rs7075168	A	C	0.06	1.52	0.13	0.001629
rs6568825	A	G	0.02	1.83	0.18	0.0005637	rs62084123	A	G	0.07	1.38	0.10	0.001635
rs2217895	T	C	0.06	0.68	0.11	0.000564	rs62132011	T	C	0.21	0.82	0.06	0.001638
rs7860818	T	C	0.77	0.81	0.06	0.0005645	rs479983	T	C	0.39	0.85	0.05	0.001643
rs10821932	A	G	0.21	0.81	0.06	0.0005645	rs7740855	T	C	0.55	0.85	0.05	0.001643
rs17817197	A	C	0.51	1.20	0.05	0.0005646	rs62499134	A	G	0.02	0.47	0.24	0.001643
rs7556915	A	G	0.58	1.20	0.05	0.0005649	rs11257355	A	G	0.53	1.18	0.05	0.001643
rs11619427	A	G	0.64	0.83	0.05	0.000567	rs1360970	T	G	0.02	0.56	0.18	0.001643
rs78957821	T	C	0.11	0.75	0.08	0.000568	rs2104316	T	C	0.65	0.85	0.05	0.001644
rs2658931	T	C	0.90	1.34	0.09	0.0005683	rs111416732	T	C	0.05	1.47	0.12	0.001647
rs76745024	T	C	0.98	0.51	0.19	0.000569	rs79790772	A	G	0.04	1.55	0.14	0.001647
rs7968273	T	G	0.66	1.20	0.05	0.0005693	rs8055512	T	C	0.77	0.83	0.06	0.00165
rs6883472	A	C	0.28	1.24	0.06	0.0005708	rs56974139	A	G	0.72	1.20	0.06	0.00165
rs12159898	A	G	0.95	0.67	0.12	0.0005734	rs222981	A	G	0.62	0.84	0.05	0.00165
rs17535572	A	C	0.98	2.21	0.23	0.0005748	rs67298163	T	G	0.16	0.80	0.07	0.001653
rs114222363	A	C	0.03	0.56	0.17	0.0005753	rs75352380	T	C	0.97	0.59	0.17	0.001653
rs2664000	A	G	0.45	1.20	0.05	0.0005797	rs10752979	A	G	0.17	0.80	0.07	0.001657
rs61512760	A	G	0.05	1.58	0.13	0.0005813	rs34019626	A	G	0.02	0.56	0.18	0.001658
rs16852641	A	C	0.94	0.69	0.11	0.0005828	rs1792138	T	C	0.85	0.80	0.07	0.001661
rs117917347	A	C	0.98	2.26	0.24	0.0005829	rs10887104	T	C	0.09	1.33	0.09	0.001663
rs7734053	T	C	0.15	1.29	0.07	0.0005872	rs9898432	T	C	0.81	0.81	0.07	0.001663
rs7041728	A	C	0.77	1.23	0.06	0.0005872	rs1263960	T	C	0.40	0.85	0.05	0.001663
rs1879090	T	C	0.15	1.28	0.07	0.0005886	rs11221067	T	C	0.04	1.53	0.14	0.001667
rs3015424	T	G	0.04	1.55	0.13	0.0005917	rs12167479	T	G	0.04	0.67	0.13	0.001669
rs35793691	A	G	0.05	0.64	0.13	0.0005922	rs13267437	A	G	0.84	0.80	0.07	0.001673
rs1868002	T	C	0.32	0.83	0.06	0.0005936	rs2142380	T	G	0.82	0.81	0.07	0.001673
rs13281251	T	C	0.09	0.73	0.09	0.0005942	rs12112286	T	G	0.11	1.30	0.08	0.001675
rs919471	T	C	0.93	1.40	0.10	0.0005968	rs34634680	T	G	0.98	1.95	0.21	0.001681
rs115067276	A	G	0.03	1.70	0.16	0.0005979	rs12477639	T	C	0.10	0.76	0.09	0.001684
rs10803719	T	C	0.56	0.83	0.06	0.0005985	rs58803997	A	G	0.23	1.21	0.06	0.001684
rs9857133	T	C	0.31	1.21	0.06	0.0006008	rs12830699	A	G	0.41	1.18	0.05	0.001685
rs72692627	T	C	0.92	0.70	0.10	0.0006014	rs1957244	A	G	0.24	0.82	0.06	0.001685
rs201621	A	G	0.89	1.36	0.09	0.0006015	rs6896614	A	G	0.97	0.62	0.15	0.001688
rs11928048	T	C	0.14	0.77	0.08	0.0006018	rs857321	T	C	0.98	0.53	0.20	0.001689
rs1110898	A	G	0.78	0.81	0.06	0.0006025	rs4389358	A	G	0.93	0.73	0.10	0.001691
rs34772194	A	G	0.04	0.62	0.14	0.0006032	rs2278508	T	C	0.22	0.82	0.06	0.001692
rs55640723	T	C	0.98	0.47	0.22	0.000604	rs72848636	A	G	0.98	2.02	0.22	0.001694
rs1005223	T	C	0.54	1.19	0.05	0.0006046	rs66506812	A	G	0.09	1.33	0.09	0.001696
rs7133537	A	G	0.80	0.80	0.07	0.0006051	rs13193748	T	C	0.95	0.66	0.13	0.001699
rs2136080	T	C	0.88	0.76	0.08	0.0006065	rs2190946	A	G	0.22	0.82	0.06	0.001702
rs10794790	T	C	0.29	0.82	0.06	0.0006094	rs10744415	A	G	0.11	1.30	0.08	0.001702
rs1990430	T	C	0.04	0.64	0.13	0.0006097	rs79959443	T	C	0.98	1.86	0.20	0.001702

rs1074334	A	G	0.67	1.21	0.06	0.0006101	rs1004733	A	G	0.09	1.35	0.09	0.001703
rs12345147	A	C	0.85	1.28	0.07	0.0006104	rs75086919	A	G	0.03	1.69	0.17	0.001705
rs75306383	T	C	0.02	0.53	0.19	0.0006122	rs2978023	T	C	0.60	1.18	0.05	0.00171
rs1417361	A	C	0.12	0.76	0.08	0.0006125	rs1591901	A	G	0.03	0.58	0.17	0.001712
rs6734461	A	C	0.99	2.31	0.24	0.0006132	rs2887763	A	G	0.47	1.18	0.05	0.001712
rs77823953	T	C	0.03	0.59	0.15	0.0006156	rs6135459	T	C	0.97	1.67	0.16	0.001712
rs35103488	A	G	0.25	0.82	0.06	0.000619	rs59014024	T	C	0.05	1.44	0.12	0.001713
rs10426262	T	C	0.56	0.84	0.05	0.0006202	rs7627969	A	G	0.38	0.85	0.05	0.001714
rs9504409	T	C	0.26	1.22	0.06	0.0006213	rs41268561	A	G	0.07	1.36	0.10	0.001716
rs117436891	A	G	0.98	0.49	0.21	0.0006227	rs35782585	A	G	0.85	1.25	0.07	0.001717
rs11647168	T	C	0.62	0.84	0.05	0.0006228	rs62000690	A	G	0.04	0.65	0.14	0.001718
rs608843	T	C	0.96	0.64	0.13	0.000623	rs6686335	T	C	0.48	1.18	0.05	0.001723
rs6088660	T	C	0.29	1.21	0.06	0.0006233	rs4458257	T	G	0.36	1.19	0.05	0.001726
rs10015742	T	G	0.30	0.82	0.06	0.0006256	rs511246	T	C	0.02	0.50	0.22	0.001729
rs77173268	A	G	0.06	0.68	0.11	0.0006265	rs79363682	A	G	0.98	1.82	0.19	0.001731
rs72777481	T	C	0.97	0.58	0.16	0.0006267	rs10023767	A	G	0.76	0.83	0.06	0.001732
rs79187869	A	G	0.04	1.62	0.14	0.0006268	rs7332683	T	C	0.58	0.85	0.05	0.001733
rs3935470	A	G	0.65	1.21	0.06	0.0006318	rs2044315	A	G	0.77	1.21	0.06	0.001742
rs1473406	T	C	0.15	0.78	0.07	0.0006339	rs62006768	T	C	0.02	1.77	0.18	0.001742
rs57388154	A	G	0.02	2.07	0.21	0.000637	rs61832545	A	C	0.02	2.00	0.22	0.001744
rs67455392	A	G	0.94	1.47	0.11	0.0006382	rs77426988	T	G	0.06	1.44	0.12	0.001744
rs7697980	T	G	0.53	1.19	0.05	0.0006386	rs6863386	T	G	0.79	1.22	0.06	0.001747
rs1879807	A	C	0.55	1.20	0.05	0.0006389	rs13376900	A	C	0.81	0.81	0.07	0.001749
rs114388677	A	G	0.03	1.70	0.16	0.0006392	rs3112565	A	G	0.02	0.52	0.21	0.001751
rs111780107	A	G	0.02	1.98	0.20	0.0006392	rs12632909	A	G	0.03	1.75	0.18	0.001752
rs9358865	A	C	0.19	1.25	0.06	0.0006398	rs12950910	T	C	0.95	1.45	0.12	0.001752
rs117814954	T	G	0.01	2.53	0.27	0.000641	rs17170151	T	C	0.93	0.73	0.10	0.001753
rs10205204	A	G	0.95	1.52	0.12	0.0006418	rs35689564	A	G	0.08	0.75	0.09	0.001755
rs72641603	T	C	0.88	1.31	0.08	0.0006434	rs76261860	T	G	0.95	1.45	0.12	0.001755
rs6974458	T	C	0.09	1.39	0.10	0.0006437	rs61963015	T	C	0.51	0.85	0.05	0.001755
rs16992192	A	G	0.01	2.22	0.23	0.0006457	rs7533661	A	G	0.09	0.75	0.09	0.001756
rs71632628	T	C	0.02	2.15	0.22	0.0006474	rs4752086	T	C	0.74	1.20	0.06	0.001759
rs2294220	A	C	0.63	1.20	0.05	0.0006474	rs117006097	A	C	0.03	0.57	0.18	0.001761
rs55677157	T	C	0.23	1.23	0.06	0.0006495	rs12023645	T	C	0.05	1.45	0.12	0.001763
rs693283	T	C	0.39	0.83	0.05	0.00065	rs10008525	A	G	0.93	0.72	0.10	0.001766
rs4767161	T	C	0.14	1.29	0.07	0.0006541	rs34833013	T	C	0.05	0.68	0.12	0.001766
rs114277914	T	C	0.01	2.43	0.26	0.0006585	rs1331772	T	C	0.87	0.79	0.08	0.001766
rs67798881	A	G	0.11	0.75	0.08	0.0006591	rs681591	T	C	0.70	0.83	0.06	0.001768
rs2525887	T	C	0.43	1.19	0.05	0.0006594	rs10770642	T	C	0.48	0.85	0.05	0.00177
rs12096608	T	G	0.97	0.54	0.18	0.0006628	rs11166589	T	C	0.51	0.85	0.05	0.001771
rs61523115	A	G	0.13	0.77	0.08	0.0006634	rs62030264	T	C	0.98	0.49	0.23	0.001771
rs7902917	T	C	0.79	0.81	0.06	0.000665	rs72814584	A	G	0.13	0.78	0.08	0.001772
rs114415453	T	C	0.10	0.74	0.09	0.0006683	rs116519531	T	C	0.96	1.50	0.13	0.001773
rs9397487	A	G	0.06	1.46	0.11	0.0006694	rs60010006	A	G	0.38	1.18	0.05	0.001775
rs9559770	A	G	0.87	1.31	0.08	0.0006726	rs9957201	A	G	0.09	1.34	0.09	0.001776
rs1846594	A	G	0.66	1.26	0.07	0.0006739	rs76377757	T	C	0.01	2.43	0.28	0.001777

rs67402363	A	G	0.77	0.81	0.06	0.0006757	rs1522641	A	G	0.03	0.63	0.15	0.001778
rs4876962	T	C	0.78	1.23	0.06	0.0006783	rs12694552	A	C	0.31	1.19	0.06	0.001779
rs7627546	T	C	0.90	0.75	0.09	0.0006818	rs651235	A	G	0.72	0.83	0.06	0.001781
rs177493	A	G	0.55	0.84	0.05	0.0006826	rs117696510	A	G	0.99	2.38	0.28	0.001782
rs6747559	T	C	0.93	1.41	0.10	0.0006847	rs452439	T	C	0.16	0.80	0.07	0.001782
rs35370156	T	C	0.50	1.19	0.05	0.0006861	rs76123748	T	C	0.02	2.08	0.24	0.001784
rs1359843	A	C	0.60	1.19	0.05	0.000688	rs2107397	A	G	0.12	1.28	0.08	0.001784
rs7039156	T	G	0.44	0.84	0.05	0.0006894	rs13427136	T	C	0.93	1.38	0.10	0.001789
rs8009605	T	C	0.76	0.82	0.06	0.0006899	rs4888633	A	G	0.75	0.83	0.06	0.001789
rs6537837	T	C	0.18	1.26	0.07	0.0006926	rs9846265	A	G	0.15	1.25	0.07	0.00179
rs407149	T	C	0.14	0.78	0.07	0.0006932	rs77360802	T	C	0.98	1.95	0.21	0.001792
rs118174275	T	C	0.02	1.97	0.20	0.0006951	rs17498724	T	C	0.80	1.22	0.06	0.001792
rs67389830	A	G	0.35	1.21	0.06	0.0006984	rs17072464	T	G	0.80	1.23	0.07	0.001793
rs4733225	T	C	0.80	0.80	0.07	0.0006987	rs7018365	A	G	0.73	0.83	0.06	0.001793
rs10922642	A	G	0.08	0.72	0.10	0.0007019	rs12433004	T	C	0.41	1.18	0.05	0.001793
rs113802695	A	G	0.02	0.52	0.19	0.0007043	rs56408180	T	C	0.30	1.20	0.06	0.001794
rs6050095	A	G	0.61	1.20	0.05	0.0007066	rs76068039	T	C	0.98	1.94	0.21	0.001795
rs4798846	T	C	0.55	1.19	0.05	0.0007071	rs61984580	T	C	0.05	1.53	0.14	0.001796
rs2429142	A	G	0.18	1.25	0.07	0.0007072	rs73056148	T	G	0.93	1.37	0.10	0.001797
rs260350	A	G	0.91	0.73	0.09	0.0007074	rs9861411	A	G	0.99	0.47	0.24	0.001797
rs78853387	A	G	0.96	0.63	0.14	0.0007076	rs588724	T	G	0.10	0.76	0.09	0.001798
rs8039277	A	C	0.41	0.84	0.05	0.0007077	rs114649678	A	C	0.99	2.14	0.24	0.001802
rs7899368	A	C	0.01	2.28	0.24	0.0007088	rs17073903	A	G	0.85	0.80	0.07	0.001802
rs2654005	T	C	0.30	1.21	0.06	0.0007104	rs1971985	A	G	0.95	0.69	0.12	0.001804
rs77587947	T	C	0.98	1.91	0.19	0.0007111	rs116389147	T	G	0.04	0.64	0.14	0.001806
rs6940452	A	G	0.09	1.37	0.09	0.0007145	rs8082230	A	G	0.48	1.18	0.05	0.001811
rs76847967	T	C	0.20	0.81	0.06	0.0007147	rs59517128	T	C	0.94	0.70	0.11	0.001814
rs78440752	T	C	0.93	0.71	0.10	0.0007186	rs9885016	T	C	0.94	0.71	0.11	0.001815
rs4376518	T	G	0.06	1.47	0.11	0.0007202	rs2884382	A	G	0.40	0.85	0.05	0.001817
rs2984613	T	C	0.35	0.83	0.05	0.0007234	rs115085827	A	G	0.98	1.77	0.18	0.001817
rs9908999	A	G	0.90	1.32	0.08	0.0007334	rs117097988	A	G	0.97	0.61	0.16	0.001819
rs17832679	T	C	0.67	0.83	0.06	0.0007372	rs9792436	A	G	0.04	0.65	0.14	0.00182
rs1735230	T	C	0.55	0.84	0.05	0.0007373	rs204670	T	G	0.15	1.26	0.07	0.00182
rs10822143	T	C	0.51	0.84	0.05	0.0007374	rs78639422	T	C	0.02	1.95	0.21	0.001823
rs2550911	T	C	0.27	0.82	0.06	0.0007379	rs113262106	A	G	0.08	0.73	0.10	0.001824
rs1025864	A	G	0.28	0.83	0.06	0.0007392	rs10742353	A	G	0.45	1.18	0.05	0.001824
rs11938117	A	C	0.86	0.77	0.08	0.0007417	rs261568	T	C	0.02	0.52	0.21	0.001832
rs480109	T	C	0.06	0.68	0.12	0.0007419	rs4271640	A	G	0.67	1.18	0.05	0.001832
rs2296812	T	C	0.12	1.33	0.08	0.0007419	rs74162546	A	G	0.02	1.84	0.20	0.001837
rs58477439	T	G	0.25	1.22	0.06	0.0007423	rs10466557	T	C	0.59	1.17	0.05	0.001839
rs78170391	A	G	0.98	0.47	0.22	0.0007437	rs1022715	A	G	0.02	0.57	0.18	0.001841
rs8031441	A	G	0.51	1.19	0.05	0.0007456	rs77881899	T	C	0.08	0.74	0.10	0.001846
rs77122817	A	G	0.02	2.10	0.22	0.0007465	rs613158	T	C	0.41	0.85	0.05	0.001847
rs6777726	A	G	0.07	0.71	0.10	0.0007466	rs115062662	A	G	0.98	1.76	0.18	0.001847
rs238388	A	C	0.58	1.19	0.05	0.0007474	rs1530615	A	C	0.26	0.83	0.06	0.001848
rs117991952	A	C	0.01	2.22	0.24	0.0007479	rs2402374	T	C	0.42	0.85	0.05	0.001848

rs61991271	T	C	0.34	1.20	0.05	0.0007484	rs2433086	A	G	0.43	1.18	0.05	0.001849
rs811850	T	G	0.60	1.20	0.05	0.0007492	rs2526920	A	G	0.43	0.85	0.05	0.001849
rs6577247	T	G	0.94	1.44	0.11	0.00075	rs56198520	A	G	0.98	0.58	0.18	0.00185
rs73113800	T	C	0.01	0.37	0.30	0.0007501	rs4683121	T	C	0.95	0.69	0.12	0.001855
rs6659138	T	C	0.53	1.19	0.05	0.0007502	rs78734578	A	G	0.96	1.49	0.13	0.001857
rs10487018	A	G	0.83	0.79	0.07	0.0007523	rs7518382	A	G	0.49	1.17	0.05	0.001861
rs237468	A	G	0.64	1.20	0.05	0.0007526	rs12827260	A	G	0.13	0.79	0.07	0.001861
rs6893927	A	G	0.42	1.19	0.05	0.000753	rs57921975	A	C	0.03	0.60	0.16	0.001861
rs4768440	A	G	0.69	1.20	0.05	0.0007557	rs117223083	T	C	0.96	0.65	0.14	0.001864
rs17660007	A	G	0.85	0.79	0.07	0.0007589	rs7852800	A	G	0.70	0.83	0.06	0.001865
rs71502229	A	G	0.07	0.70	0.10	0.0007615	rs4910017	A	G	0.91	1.33	0.09	0.001865
rs1574028	A	C	0.09	1.36	0.09	0.0007632	rs77835191	A	G	0.05	1.47	0.12	0.001865
rs79056439	T	C	0.90	1.34	0.09	0.0007647	rs10141004	A	G	0.82	0.81	0.07	0.001866
rs10891983	A	G	0.54	1.19	0.05	0.0007648	rs11239957	A	G	0.32	1.19	0.06	0.001867
rs75297901	T	C	0.02	1.91	0.19	0.0007665	rs34192091	A	G	0.98	1.78	0.18	0.001867
rs60992426	T	C	0.88	1.31	0.08	0.0007694	rs115581507	T	C	0.95	1.48	0.13	0.001868
rs13183288	T	G	0.08	0.69	0.11	0.0007699	rs1148184	T	C	0.42	1.18	0.05	0.001869
rs76019338	A	G	0.17	1.26	0.07	0.0007732	rs113545327	T	C	0.08	1.34	0.10	0.00187
rs6439765	T	C	0.99	2.20	0.23	0.0007752	rs58967237	A	G	0.15	0.80	0.07	0.001871
rs2059071	T	C	0.25	1.22	0.06	0.0007754	rs10951792	A	G	0.81	1.23	0.07	0.001873
rs473223	T	C	0.76	0.82	0.06	0.0007787	rs13055293	T	G	0.18	0.80	0.07	0.001876
rs10843438	A	G	0.54	0.84	0.05	0.0007805	rs62374067	T	G	0.04	0.64	0.14	0.001877
rs747582	T	G	0.58	0.84	0.05	0.0007817	rs2932275	T	G	0.91	0.75	0.09	0.001878
rs351655	T	C	0.76	0.82	0.06	0.0007833	rs2795591	A	G	0.67	1.19	0.05	0.001878
rs286991	T	C	0.37	0.84	0.05	0.0007834	rs10105408	T	C	0.06	0.72	0.11	0.001879
rs12454909	T	C	0.15	0.78	0.07	0.0007872	rs59018928	T	C	0.81	1.22	0.07	0.00188
rs111969759	T	C	0.95	0.65	0.13	0.000788	rs117186977	A	G	0.02	0.53	0.20	0.001883
rs118191081	A	G	0.99	0.45	0.24	0.0007885	rs1030781	A	G	0.56	0.85	0.05	0.001891
rs17776733	T	C	0.54	0.84	0.05	0.0007911	rs6465197	T	C	0.39	0.84	0.06	0.001892
rs58888216	A	G	0.18	0.80	0.07	0.0007942	rs1030732	A	G	0.17	1.24	0.07	0.001895
rs45508296	A	G	0.98	0.49	0.21	0.0007946	rs11176916	T	C	0.75	0.83	0.06	0.001895
rs6088295	A	G	0.08	0.72	0.10	0.0007946	rs11968598	T	C	0.24	1.21	0.06	0.001896
rs56353445	A	G	0.04	1.66	0.15	0.0007977	rs689325	T	C	0.03	0.62	0.15	0.001898
rs117721900	T	C	0.02	1.87	0.19	0.000799	rs1795704	A	C	0.65	1.18	0.05	0.001901
rs11783995	T	C	0.06	1.45	0.11	0.0008002	rs112694935	T	C	0.97	1.58	0.15	0.001901
rs9514866	A	G	0.04	1.60	0.14	0.0008005	rs34386665	T	C	0.02	2.02	0.23	0.001902
rs62047222	A	G	0.16	1.27	0.07	0.0008005	rs767037	A	G	0.78	1.21	0.06	0.001906
rs58694005	T	G	0.02	0.49	0.21	0.0008015	rs6705888	A	G	0.46	1.17	0.05	0.001908
rs3806448	A	G	0.47	0.84	0.05	0.0008018	rs1952881	A	G	0.27	1.20	0.06	0.001908
rs4896086	T	G	0.10	1.34	0.09	0.0008036	rs2495969	T	G	0.85	0.80	0.07	0.001909
rs17321708	A	G	0.01	0.43	0.25	0.0008039	rs76007632	A	G	0.02	0.49	0.23	0.001909
rs2419374	T	C	0.17	0.79	0.07	0.0008062	rs2829303	T	C	0.41	0.85	0.05	0.001913
rs73402458	A	G	0.99	0.43	0.25	0.0008096	rs6806662	A	G	0.32	1.18	0.05	0.001921
rs13438266	A	C	0.04	0.63	0.14	0.00081	rs4776476	A	G	0.69	0.84	0.06	0.001923
rs2666491	A	G	0.30	0.83	0.06	0.0008123	rs13102358	T	C	0.77	0.83	0.06	0.001927
rs1417603	A	C	0.87	0.77	0.08	0.0008124	rs365785	T	C	0.26	0.83	0.06	0.001928

rs72642528	A	G	0.05	0.66	0.13	0.0008153	rs7519356	T	C	0.27	1.20	0.06	0.001929
rs76002007	A	G	0.01	2.49	0.27	0.0008168	rs58581189	T	C	0.19	1.23	0.07	0.001929
rs11049056	T	G	0.66	1.20	0.05	0.0008185	rs17828048	A	G	0.78	1.21	0.06	0.001929
rs76239814	T	G	0.96	1.59	0.14	0.0008194	rs71314322	A	G	0.86	1.26	0.07	0.00193
rs75804207	T	C	0.99	2.28	0.25	0.0008197	rs62298342	A	G	0.02	1.78	0.19	0.00193
rs11124937	T	C	0.65	1.20	0.05	0.0008203	rs10752197	A	G	0.50	1.17	0.05	0.00193
rs74913215	A	G	0.01	2.07	0.22	0.0008204	rs13105393	T	C	0.07	0.72	0.10	0.001932
rs3768239	A	G	0.27	0.82	0.06	0.0008214	rs12595605	T	G	0.88	0.78	0.08	0.001932
rs17242281	A	G	0.06	0.69	0.11	0.0008234	rs10850578	T	C	0.35	1.19	0.06	0.001935
rs16848736	T	C	0.97	1.67	0.15	0.000825	rs4738372	A	G	0.53	0.85	0.05	0.001937
rs178520	A	G	0.24	1.23	0.06	0.0008267	rs2497113	A	G	0.24	0.83	0.06	0.001941
rs12209099	T	G	0.48	1.19	0.05	0.0008365	rs7135097	A	G	0.96	1.53	0.14	0.001944
rs75329628	A	G	0.98	0.49	0.21	0.0008374	rs13015062	T	C	0.12	0.77	0.08	0.001946
rs76732064	T	C	0.03	1.71	0.16	0.0008392	rs9299057	A	C	0.49	0.85	0.05	0.001946
rs78484407	T	C	0.02	0.48	0.22	0.0008394	rs9326038	A	G	0.74	1.20	0.06	0.001949
rs7699875	T	G	0.27	0.82	0.06	0.0008402	rs17144686	T	C	0.92	1.34	0.10	0.001949
rs116808105	A	G	0.05	0.66	0.12	0.0008402	rs7964946	T	C	0.95	0.69	0.12	0.001954
rs4746258	A	G	0.08	0.71	0.10	0.0008414	rs3110525	T	C	0.24	1.20	0.06	0.001955
rs12482673	T	C	0.41	0.84	0.05	0.000849	rs1429660	T	C	0.06	1.40	0.11	0.001957
rs2454218	T	C	0.27	1.22	0.06	0.0008514	rs74583590	A	G	0.96	0.66	0.13	0.00196
rs13063404	T	C	0.72	0.82	0.06	0.0008549	rs73098964	A	G	0.91	1.33	0.09	0.001963
rs5760095	A	G	0.47	0.84	0.05	0.0008556	rs7187458	T	C	0.21	0.82	0.07	0.001965
rs13272557	A	G	0.82	0.80	0.07	0.0008562	rs1186457	A	C	0.43	1.17	0.05	0.001966
rs1280415	A	G	0.93	0.71	0.10	0.0008564	rs2038098	A	C	0.33	1.18	0.05	0.001967
rs62448538	A	G	0.25	1.22	0.06	0.0008604	rs56265817	T	C	0.02	0.50	0.22	0.001969
rs4438488	A	G	0.05	0.68	0.12	0.0008634	rs16864263	A	G	0.95	1.43	0.12	0.001976
rs13250164	T	C	0.89	0.76	0.08	0.0008646	rs13126889	A	G	0.36	0.85	0.05	0.001977
rs10172676	T	C	0.24	0.82	0.06	0.0008653	rs7668297	T	C	0.46	1.18	0.05	0.001978
rs11972373	T	G	0.59	0.84	0.05	0.0008664	rs72681689	T	C	0.04	1.55	0.14	0.00198
rs117393088	A	G	0.02	1.85	0.18	0.0008677	rs6458481	A	G	0.43	0.85	0.05	0.00198
rs79084876	A	G	0.03	1.75	0.17	0.000868	rs9830460	A	G	0.53	1.17	0.05	0.001982
rs3774641	T	G	0.20	1.24	0.07	0.0008683	rs1038464	T	C	0.98	1.78	0.19	0.001982
rs2569555	T	C	0.04	1.58	0.14	0.000869	rs117547981	A	G	0.02	2.10	0.24	0.001989
rs6882305	T	C	0.02	0.48	0.22	0.0008704	rs117948015	A	G	0.03	0.63	0.15	0.001989
rs6941854	T	C	0.78	0.81	0.06	0.000871	rs34583453	T	C	0.96	1.57	0.15	0.00199
rs10456780	T	C	0.88	0.76	0.08	0.0008735	rs4430897	A	C	0.36	0.85	0.05	0.001991
rs6589004	T	C	0.32	0.83	0.05	0.0008746	rs1854342	A	G	0.49	1.17	0.05	0.001992
rs116883076	A	G	0.05	0.66	0.13	0.0008756	rs1460632	A	G	0.09	0.76	0.09	0.001994
rs975576	A	G	0.90	1.35	0.09	0.000878	rs10444656	T	C	0.60	1.17	0.05	0.001994
rs61151703	T	C	0.03	0.60	0.16	0.0008788	rs118140102	A	G	0.99	2.20	0.25	0.001996
rs11985850	A	C	0.02	1.81	0.18	0.000879	rs73005455	T	C	0.03	1.57	0.15	0.001997
rs73139549	A	G	0.02	0.54	0.19	0.0008792	rs1549777	A	G	0.51	0.85	0.05	0.001998
rs2941002	T	C	0.39	0.84	0.05	0.0008804	rs1038025	T	C	0.57	1.17	0.05	0.002004
rs4939364	A	G	0.28	1.21	0.06	0.0008818	rs1397309	T	C	0.05	0.69	0.12	0.002007
rs117972517	T	G	0.02	1.98	0.21	0.0008869	rs10014749	A	C	0.82	1.23	0.07	0.002008
rs77229277	A	G	0.09	1.35	0.09	0.0008887	rs56351059	T	C	0.96	0.68	0.13	0.002011

rs35219121	A	G	0.17	0.79	0.07	0.0008921	rs10997936	T	C	0.19	1.23	0.07	0.002011
rs1861872	T	C	0.93	0.71	0.10	0.0008945	rs11940346	T	C	0.50	1.17	0.05	0.002012
rs10998530	A	G	0.14	1.28	0.07	0.0008948	rs12594507	T	C	0.54	1.17	0.05	0.002015
rs78288381	A	G	0.98	0.51	0.20	0.0008982	rs75626901	A	G	0.02	0.52	0.21	0.002018
rs11603404	A	G	0.15	1.27	0.07	0.0009016	rs9358476	A	C	0.58	0.85	0.05	0.002022
rs7785730	A	G	0.78	0.81	0.06	0.000902	rs4674460	A	G	0.91	1.32	0.09	0.002024
rs7045289	A	G	0.73	0.82	0.06	0.0009048	rs8041418	T	C	0.53	1.17	0.05	0.002034
rs9573255	A	C	0.02	1.93	0.20	0.0009051	rs7534854	A	G	0.05	0.68	0.13	0.002038
rs10015780	T	C	0.59	0.84	0.05	0.0009085	rs13292327	A	G	0.14	0.79	0.08	0.002038
rs28418358	A	G	0.89	0.76	0.08	0.0009088	rs73569033	A	C	0.02	1.76	0.18	0.002039
rs117273398	A	G	0.02	1.97	0.20	0.0009106	rs722353	T	C	0.83	0.81	0.07	0.002043
rs6078178	T	C	0.09	1.36	0.09	0.0009111	rs2055694	A	G	0.88	1.28	0.08	0.002044
rs10793814	A	G	0.70	1.20	0.06	0.0009121	rs6929273	T	C	0.36	0.85	0.05	0.002044
rs8021958	A	C	0.68	0.83	0.06	0.0009121	rs17217956	T	C	0.69	0.84	0.06	0.002045
rs4663168	T	G	0.18	0.80	0.07	0.0009137	rs2352054	A	G	0.56	1.17	0.05	0.002049
rs17586294	A	G	0.07	0.70	0.11	0.0009141	rs118159758	A	C	0.02	1.97	0.22	0.00205
rs13127290	T	C	0.34	1.20	0.05	0.0009158	rs1832799	A	G	0.41	0.85	0.05	0.002055
rs2206510	T	C	0.26	0.82	0.06	0.0009166	rs10902149	A	G	0.30	1.20	0.06	0.002062
rs28538021	T	C	0.03	0.60	0.16	0.0009168	rs17734201	T	C	0.82	1.23	0.07	0.002067
rs117801732	A	G	0.06	1.46	0.11	0.0009192	rs11638386	T	C	0.32	0.84	0.06	0.002069
rs2043583	T	G	0.44	0.84	0.05	0.0009226	rs117214223	T	C	0.98	0.55	0.20	0.002071
rs62347910	A	G	0.92	0.73	0.09	0.000927	rs700685	A	G	0.31	0.84	0.06	0.002073
rs17759988	T	C	0.10	1.35	0.09	0.000927	rs1812072	A	G	0.70	0.84	0.06	0.002073
rs4921671	T	C	0.22	0.81	0.06	0.0009271	rs4727943	A	C	0.97	1.65	0.16	0.002074
rs12219473	A	G	0.04	0.65	0.13	0.0009298	rs11622401	T	C	0.70	1.19	0.06	0.002076
rs13101764	T	G	0.03	1.70	0.16	0.0009301	rs9996461	A	G	0.72	0.84	0.06	0.00208
rs113008087	T	C	0.05	1.47	0.12	0.0009302	rs77019188	T	C	0.97	0.61	0.16	0.002081
rs12127053	A	G	0.02	1.85	0.19	0.0009315	rs72857099	T	C	0.03	1.73	0.18	0.002086
rs17655671	A	C	0.95	1.49	0.12	0.0009325	rs112322156	A	G	0.07	1.39	0.11	0.002086
rs272458	A	G	0.27	1.21	0.06	0.0009327	rs4926854	T	C	0.62	0.85	0.05	0.002088
rs115490760	A	G	0.04	1.53	0.13	0.0009343	rs1238741	T	C	0.88	1.27	0.08	0.002089
rs116845909	A	G	0.02	1.93	0.20	0.0009358	rs72902111	T	G	0.91	1.32	0.09	0.00209
rs77308467	T	C	0.98	1.92	0.20	0.000936	rs7530949	T	G	0.95	1.45	0.12	0.002091
rs35953568	A	G	0.92	1.38	0.10	0.0009427	rs62249680	T	G	0.02	0.46	0.25	0.002091
rs8022629	T	C	0.02	1.97	0.20	0.0009456	rs79200750	A	C	0.97	1.71	0.17	0.002091
rs13412405	A	C	0.31	0.83	0.06	0.0009458	rs7068563	A	G	0.95	0.68	0.12	0.002092
rs712026	T	C	0.51	1.19	0.05	0.0009497	rs9859271	A	C	0.85	1.25	0.07	0.002094
rs9459491	A	G	0.50	1.19	0.05	0.0009506	rs6938880	A	G	0.70	0.84	0.06	0.002094
rs78346553	T	C	0.02	1.84	0.19	0.0009565	rs10929070	A	G	0.77	0.83	0.06	0.002098
rs77673061	T	C	0.13	0.77	0.08	0.0009566	rs79174416	A	G	0.91	0.76	0.09	0.002098
rs28731121	A	G	0.04	0.65	0.14	0.002099	rs9375890	A	G	0.95	0.68	0.12	0.0009572

1 Abbreviations as in Table S9.

Table S12: Single-nucleotide polymorphisms used to build the genetic risk score for MI

SNP	A1	A2	MAF	OR	SE	*P**	SNP	A1	A2	MAF	OR	SE	*P**
rs4977574	G	A	0.48	1.21	0.01	4.58E-75	rs4845579	C	T	0.76	1.06	0.01	1.81E-06
rs9349379	G	A	0.41	1.14	0.01	9.37E-35	rs14228	T	C	0.39	1.05	0.01	1.95E-06
rs10455872	G	A	0.05	1.33	0.03	9.23E-27	rs10818583	A	G	0.25	1.06	0.01	2.20E-06
rs186696265	T	C	0.01	1.70	0.05	7.24E-24	rs6761276	C	T	0.56	0.95	0.01	2.21E-06
rs9295128	T	G	0.01	1.62	0.05	2.05E-20	rs34821320	G	A	0.09	1.09	0.02	2.25E-06
rs532436	A	G	0.19	1.12	0.01	2.36E-17	rs16986953	A	G	0.09	1.08	0.02	2.26E-06
rs7528419	G	A	0.20	0.90	0.01	9.92E-16	rs15052	C	T	0.14	1.08	0.02	2.43E-06
rs72934535	C	T	0.09	1.15	0.02	3.36E-14	rs2059904	G	A	0.20	0.94	0.01	2.69E-06
rs114155121	C	T	0.11	1.13	0.02	1.81E-13	rs1169288	C	A	0.34	1.05	0.01	2.75E-06
rs1332329	C	A	0.36	1.08	0.01	2.68E-13	rs67070774	A	G	0.12	0.92	0.02	2.76E-06
rs143843429	G	A	0.02	1.38	0.05	1.34E-12	rs2259667	C	T	0.38	1.06	0.01	2.81E-06
rs28451064	A	G	0.12	1.13	0.02	6.10E-12	rs12941550	A	C	0.50	0.95	0.01	3.99E-06
rs35700460	G	A	0.65	1.09	0.01	1.91E-11	rs138458033	T	C	0.02	1.23	0.04	4.26E-06
rs653178	T	C	0.56	0.93	0.01	2.84E-11	rs3103350	C	T	0.13	1.07	0.02	4.57E-06
rs1870634	G	T	0.62	1.07	0.01	8.35E-11	rs11007929	T	C	0.24	0.95	0.01	4.69E-06
rs627135	G	T	0.11	0.91	0.02	3.84E-10	rs6701118	T	C	0.17	1.07	0.01	4.73E-06
rs6547621	A	G	0.45	1.07	0.01	5.99E-10	rs79963634	A	G	0.02	1.18	0.04	4.77E-06
rs7173743	C	T	0.43	0.94	0.01	7.75E-10	rs1873197	A	G	0.08	0.92	0.02	4.79E-06
rs9457995	G	A	0.63	1.07	0.01	1.01E-09	rs1888657	C	T	0.42	0.95	0.01	5.20E-06
rs9970807	T	C	0.08	0.90	0.02	1.81E-09	rs3217978	A	C	0.03	0.85	0.03	5.36E-06
rs41290120	A	G	0.03	0.83	0.03	2.62E-09	rs78807522	A	C	0.10	0.92	0.02	5.44E-06
rs113113862	A	G	0.22	0.93	0.01	2.78E-09	rs7636024	T	G	0.40	1.05	0.01	5.78E-06
rs180803	T	G	0.03	0.83	0.03	3.66E-09	rs2979862	T	C	0.17	1.07	0.01	6.43E-06
rs974819	C	T	0.64	0.94	0.01	5.67E-09	rs17843797	G	T	0.12	1.07	0.01	6.53E-06
rs2681472	G	A	0.19	1.08	0.01	6.11E-09	rs144170248	C	T	0.28	0.95	0.01	6.66E-06
rs2505083	C	T	0.39	1.06	0.01	6.93E-09	rs12980942	A	G	0.15	0.93	0.02	7.08E-06
rs2327426	C	T	0.30	0.94	0.01	1.22E-08	rs12036036	G	A	0.75	0.94	0.01	7.12E-06
rs429358	C	T	0.12	1.10	0.02	1.37E-08	rs2552527	G	T	0.41	0.95	0.01	7.30E-06
rs17696736	G	A	0.36	1.07	0.01	1.38E-08	rs482067	C	T	0.59	0.95	0.01	7.31E-06
rs72689147	T	G	0.18	0.93	0.01	1.65E-08	rs12509595	C	T	0.28	1.05	0.01	7.55E-06
rs10947786	A	G	0.21	0.93	0.01	1.77E-08	rs11911017	T	G	0.17	1.06	0.01	7.89E-06
rs144078421	A	G	0.01	1.37	0.06	2.47E-08	rs12743267	T	C	0.23	0.94	0.01	3.21E-07
rs11556924	T	C	0.30	0.93	0.01	4.00E-08	rs6905073	T	G	0.35	0.95	0.01	3.25E-07
rs55940034	G	A	0.27	1.07	0.01	7.70E-08	rs4796663	C	A	0.27	0.93	0.01	3.40E-07
rs117340856	A	G	0.01	1.49	0.07	7.71E-08	rs2286198	A	G	0.23	0.94	0.01	3.92E-07
rs1004467	G	A	0.13	0.92	0.01	7.79E-08	rs11125089	A	C	0.25	1.06	0.01	4.34E-07
rs8039305	C	T	0.44	1.06	0.01	8.53E-08	rs13291603	T	C	0.02	1.23	0.04	4.35E-07
rs1265564	C	A	0.36	1.07	0.01	1.04E-07	rs11066283	G	A	0.37	1.07	0.01	5.50E-07
rs12118721	C	T	0.52	0.95	0.01	1.18E-07	rs6512067	T	G	0.33	1.05	0.01	6.58E-07
rs72743461	A	C	0.20	0.93	0.01	1.28E-07	rs11206510	C	T	0.15	0.93	0.01	6.93E-07
rs8045120	T	G	0.30	1.07	0.01	1.37E-07	rs7623687	C	A	0.14	0.93	0.02	7.59E-07
rs9595963	T	C	0.36	0.94	0.01	1.65E-07	rs78999781	C	T	0.09	1.10	0.02	7.63E-07
rs4773144	G	A	0.41	1.06	0.01	1.65E-07	rs2327433	A	G	0.83	0.92	0.02	8.03E-07

rs997711	C	T	0.45	0.94	0.01	1.75E-07	rs79780963	T	C	0.13	0.92	0.02	8.48E-07
rs80302977	C	T	0.07	0.89	0.02	1.88E-07	rs17612742	C	T	0.15	1.07	0.01	8.96E-07
rs2836631	G	T	0.44	1.06	0.01	1.95E-07	rs748431	T	G	0.57	0.95	0.01	9.02E-07
rs11591147	T	G	0.02	0.70	0.07	2.30E-07	rs2001846	C	T	0.51	0.95	0.01	9.04E-07
rs2280003	T	C	0.32	0.95	0.01	2.99E-07	rs1133773	G	A	0.23	1.08	0.02	9.68E-07
rs113650570	A	G	0.03	1.19	0.03	3.03E-07	rs56228205	C	A	0.33	1.05	0.01	9.90E-07
rs11523031	G	A	0.41	0.95	0.01	1.48E-06	rs11099493	G	A	0.28	0.95	0.01	1.11E-06
rs9486719	A	G	0.19	0.94	0.01	1.57E-06	rs2760740	C	T	0.30	1.05	0.01	1.33E-06
rs1500187	G	A	0.44	1.05	0.01	1.69E-06	rs12207703	G	T	0.25	1.06	0.01	1.40E-06
rs663129	A	G	0.24	1.06	0.01	1.73E-06							

1 Abbreviations as in Table S9.

Table S13. Additive interaction between lifestyle and genetic risk for the risk of IS

Joint exposure		Basic-adjusted HR (95% CI) [a]	Multi-adjusted HR (95% CI) [b]
LRS	GRS		
Low	Low	1.00 (Ref.)	1.00 (Ref.)
Low	High	1.39 (1.22, 1.58)	1.36 (1.20, 1.54)
High	Low	3.30 (2.53, 4.29)	2.76 (2.09, 3.63)
High	High	4.36 (3.42, 5.56)	3.54 (2.75, 4.57)

[a]Adjusted for **sex, age**.

[b]Adjusted for **sex, age, BMI, TDI, qualification, LDL-C, HDL-C, history of CVD, history of hypertension, history of diabetes, and history of cancer,the first 10 principal components of ancestry, genotyping batch.**

Measures of additive interaction for IS:

Relative excess risk due to interaction (RERI): **0.68, 95% CI: -0.57, 1.93**

Attributable proportion due to interaction (AP): **0.16, 95% CI: -0.11, 0.42**

Synergy index (SI): **1.25, 95% CI: 0.83, 1.90**

Table S14. Additive interaction between lifestyle and genetic risk for the risk of ICH

Joint exposure		Basic-adjusted HR (95% CI) [a]	Multi-adjusted HR (95% CI) [b]
LRS	GRS		
Low	Low	1.00 (Ref.)	1.00 (Ref.)
Low	High	1.19 (0.97, 1.46)	1.19 (0.97, 1.46)
High	Low	2.40 (1.43, 4.04)	2.25 (1.32, 3.84)
High	High	2.49 (1.50, 4.13)	2.41 (1.43,4.07)

[a]Adjusted for **sex, age**.

[b]Adjusted for **sex, age, BMI, TDI, qualification, LDL-C, HDL-C, history of CVD, history of hypertension, history of diabetes, and history of cancer, the first 10 principal components of ancestry, genotyping batch.**

Measures of additive interaction for ICH:

Relative excess risk due to interaction (RERI): **0.11, 95% CI: -1.58, 1.79**

Attributable proportion due to interaction (AP): **0.04, 95% CI: -0.65, 0.73**

Synergy index (SI): **1.08, 95% CI: -0.42, 3.14**

Table S15. Additive interaction between lifestyle and genetic risk for the risk of MI

Joint exposure		Basic-adjusted HR (95% CI) [a]	Multi-adjusted HR (95% CI) [b]
LRS	GRS		
Low	Low	1.00 (Ref.)	1.00 (Ref.)
Low	High	1.94 (1.76, 2.13)	1.92 (1.74, 2.12)
High	Low	3.72 (3.05, 4.53)	2.86 (2.33, 3.51)
High	High	6.85 (5.83, 8.05)	5.28 (4.46, 6.26)

[a] Adjusted for **sex, age**.

[b] Adjusted for **sex, age, BMI, TDI, qualification, LDL-C, HDL-C, history of CVD, history of hypertension, history of diabetes, and history of cancer, the first 10 principal components of ancestry, genotyping batch.**

Measures of additive interaction for MI:

Relative excess risk due to interaction (RERI): **1.50, 95% CI: 0.59, 2.42**

Attributable proportion due to interaction (AP): **0.28, 95% CI: 0.14, 0.43**

Synergy index (SI): **1.54, 95% CI: 1.19, 2.00**

Table S16: Risk of incident IS, ICH, and MI according to combined genetic and lifestyle risk stratified by sex, age and BMI

		Sex		Age		BMI	
Outcome	**Subgroup**	**Male HR (95% CI)**	**Female HR (95% CI)**	**< 60 HR (95% CI)**	**≥ 60 HR (95% CI)**	**< 30 HR (95% CI)**	**≥ 30 HR (95% CI)**
IS	LG & LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
	LG & IL	1.20 (1.01, 1.42)	1.27 (1.07, 1.51)	1.43 (1.13, 1.80)	1.16 (1.01, 1.34)	1.15 (1.00, 1.32)	1.45 (1.14, 1.85)
	LG & HL	2.77 (2.04, 3.76)	2.03 (1.11, 3.74)	2.76 (1.81, 4.21)	2.63 (1.86, 3.71)	2.85 (2.10, 3.86)	2.25 (1.33, 3.82)
	IG & LL	1.04 (0.84, 1.27)	1.20 (1.01, 1.43)	1.08 (0.82, 1.41)	1.15 (0.99, 1.34)	1.06 (0.91, 1.23)	1.40 (1.06, 1.86)
	IG & IL	1.41 (1.19, 1.67)	1.58 (1.34, 1.87)	1.40 (1.11, 1.77)	1.53 (1.34, 1.75)	1.47 (1.28, 1.68)	1.56 (1.22, 1.98)
	IG & HL	3.19 (2.37, 4.28)	3.19 (1.91, 5.31)	3.75 (2.57, 5.47)	2.92 (2.08, 4.11)	3.34 (2.49, 4.47)	3.04 (1.91, 4.86)
	HG & LL	1.50 (1.24, 1.81)	1.26 (1.06, 1.49)	1.52 (1.18, 1.95)	1.32 (1.13, 1.52)	1.34 (1.16, 1.55)	1.44 (1.09, 1.90)
	HG & IL	1.52 (1.29, 1.79)	1.56 (1.32, 1.84)	1.65 (1.32, 2.07)	1.52 (1.33, 1.73)	1.52 (1.33, 1.74)	1.64 (1.29, 2.08)
	HG & HL	2.90 (2.12, 3.95)	4.80 (3.20, 7.20)	4.12 (2.85, 5.96)	2.93 (2.09, 4.12)	3.84 (2.93, 5.04)	2.29 (1.32, 3.99)
***P* for interaction**		0.070		0.004		0.440	
ICH	LG & LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
	LG & IL	1.24 (0.94, 1.64)	1.37 (1.05, 1.79)	1.50 (1.03, 2.19)	1.26 (1.01, 1.58)	1.15 (0.92, 1.42)	2.22 (1.37, 3.62)
	LG & HL	1.88 (0.99, 3.59)	3.57 (1.44, 8.85)	2.73 (1.20, 6.20)	2.07 (1.04, 4.09)	2.13 (1.17, 3.88)	2.76 (0.93, 8.19)
	HG & LL	1.13 (0.82, 1.58)	1.22 (0.94, 1.57)	1.15 (0.75, 1.75)	1.20 (0.95, 1.52)	1.20 (0.97, 1.49)	1.11 (0.61, 2.02)
	HG & IL	1.44 (1.09, 1.90)	1.61 (1.24, 2.08)	1.71 (1.18, 2.48)	1.47 (1.19, 1.83)	1.47 (1.20, 1.81)	2.00 (1.23, 3.28)
	HG & HL	2.54 (1.43, 4.48)	1.26 (0.31, 5.14)	2.58 (1.13, 5.87)	2.24 (1.17, 4.30)	2.26 (1.27, 4.02)	2.85 (0.96, 8.47)
***P* for interaction**		0.780		0.360		0.170	
MI	LG & LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
	LG & IL	1.32 (1.18, 1.49)	1.49 (1.28, 1.74)	1.37 (1.16, 1.62)	1.38 (1.23, 1.54)	1.41 (1.26, 1.57)	1.26 (1.05, 1.51)
	LG & HL	2.41 (1.91, 3.04)	3.85 (2.61, 5.67)	2.62 (1.95, 3.52)	2.68 (2.03, 3.52)	2.75 (2.16, 3.50)	2.33 (1.64, 3.31)
	IG & LL	1.41 (1.24, 1.61)	1.25 (1.05, 1.48)	1.37 (1.14, 1.66)	1.34 (1.18, 1.52)	1.33 (1.18, 1.50)	1.43 (1.16, 1.77)
	IG & IL	1.79 (1.59, 2.00)	1.80 (1.55, 2.09)	1.82 (1.55, 2.15)	1.78 (1.59, 1.98)	1.86 (1.67, 2.07)	1.60 (1.34, 1.91)
	IG & HL	3.68 (3.00, 4.52)	4.85 (3.40, 6.91)	4.79 (3.76, 6.11)	2.73 (2.05, 3.64)	4.07 (3.30, 5.02)	3.38 (2.44, 4.68)
	HG & LL	2.03 (1.79, 2.30)	1.74 (1.49, 2.04)	1.94 (1.62, 2.31)	1.90 (1.69, 2.14)	1.92 (1.72, 2.15)	1.89 (1.55, 2.30)
	HG & IL	2.46 (2.20, 2.75)	2.46 (2.13, 2.85)	2.78 (2.37, 3.25)	2.28 (2.05, 2.54)	2.48 (2.24, 2.75)	2.31 (1.95, 2.75)
	HG & HL	4.58 (3.79, 5.55)	6.03 (4.41, 8.25)	5.92 (4.71, 7.46)	3.65 (2.83, 4.70)	5.30 (4.38, 6.42)	3.93 (2.89, 5.34)
***P* for interaction**		0.020		< 0.001		0.008	

Hazard ratios were calculated using Cox proportional hazards models, adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history, first 10 principal components of ancestry, genotyping batch. HG = high genetic risk. HL = high lifestyle risk. IG = intermediate genetic risk. IL = intermediate lifestyle risk. LG = low genetic risk. LL = low lifestyle risk.

Table S17: Risk of incident IS, ICH, and MI according to combined genetic and lifestyle risk stratified by CMD status

	IS		ICH		MI	
Subgroup	**With CMD HR (95% CI)**	**Without CMD HR (95% CI)**	**With CMD HR (95% CI)**	**Without CMD HR (95% CI)**	**With CMD HR (95% CI)**	**Without CMD HR (95% CI)**
LG&LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
LG&IL	1.29 (1.08, 1.54)	1.17 (1.00, 1.38)	1.17 (0.88, 1.56)	1.46 (1.12, 1.89)	1.52 (1.27, 1.81)	1.32 (1.18, 1.47)
LG&HL	3.15 (2.20, 4.52)	2.27 (1.54, 3.35)	1.89 (0.86, 4.13)	2.63 (1.31, 5.28)	2.99 (2.09, 4.29)	2.51 (1.98, 3.18)
IG&LL	1.16 (0.95, 1.41)	1.12 (0.93, 1.33)	/	/	1.47 (1.21, 1.80)	1.30 (1.15, 1.47)
IG&IL	1.50 (1.26, 1.78)	1.47 (1.26, 1.73)	/	/	1.88 (1.58, 2.24)	1.75 (1.57, 1.95)
IG&HL	3.45 (2.39, 4.88)	3.14 (2.22, 4.43)	/	/	3.43 (2.42, 4.89)	4.08 (3.33, 5.01)
HG&LL	1.31 (1.08, 1.59)	1.42 (1.20, 1.68)	1.14 (0.84, 1.55)	1.22 (0.93, 1.60)	1.97 (1.63, 2.38)	1.89 (1.68, 2.12)
HG&IL	1.53 (1.29, 1.81)	1.58 (1.35, 1.85)	1.42 (1.08, 1.87)	1.61 (1.24, 2.08)	2.69 (2.28, 3.19)	2.37 (2.14, 2.63)
HG&HL	3.49 (2.48, 4.92)	3.48 (2.46, 4.93)	2.19 (1.08, 4.43)	2.37 (1.14, 4.93)	4.16 (2.98, 5.79)	5.14 (4.27, 6.19)
***P* for interaction**	0.790		0.870		0.780	

Hazard ratios were calculated using Cox proportional hazards models, adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, cancer history, first 10 principal components of ancestry, genotyping batch. Abbreviations as in Table S12.

Table S18: Risk of incident IS, ICH, and MI according to genetic and lifestyle risk after excluding the first two years of developing outcomes or death and incident IS, ICH, and MI using competing risk regression (Fine and Gray)

Subgroup	Participants with IS or death in the previous two years were excluded			Competing risk regression (Fine and Gray)		
	IS	ICH	MI	IS	ICH	MI
	HR (95% CI)	HR (95% CI)	HR (95% CI)	SHR (95% CI)	SHR (95% CI)	SHR (95% CI)
LG						
LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
IL	1.23 (1.09, 1.39)	1.24 (1.02, 1.52)	1.35 (1.23, 1.49)	1.21 (1.08, 1.37)	1.30 (1.07, 1.57)	1.35 (1.23, 1.49)
HL	2.64 (2.00, 3.49)	2.09 (1.20, 3.64)	2.57 (2.08, 3.16)	2.46 (1.89, 3.20)	2.01 (1.20, 3.39)	2.50 (2.05, 3.06)
IG						
LL	1.13 (0.99, 1.30)	/	1.34 (1.20, 1.49)	1.13 (0.99, 1.29)	/	1.35 (1.22, 1.50)
IL	1.46 (1.30, 1.65)	/	1.75 (1.59, 1.92)	1.46 (1.30, 1.64)	/	1.77 (1.61, 1.93)
HL	3.32 (2.56, 4.29)	/	3.81 (3.16, 4.59)	3.05 (2.38, 3.90)	/	3.64 (3.05, 4.35)
HG						
LL	1.37 (1.20, 1.56)	1.20 (0.98, 1.48)	1.91 (1.72, 2.11)	1.37 (1.20, 1.55)	1.18 (0.96, 1.45)	1.91 (1.73, 2.10)
IL	1.54 (1.37, 1.74)	1.49 (1.23, 1.81)	2.40 (2.19, 2.63)	1.53 (1.36, 1.71)	1.50 (1.24, 1.81)	2.42 (2.22, 2.64)
HL	3.37 (2.60, 4.35)	2.06 (1.19, 3.59)	4.73 (3.99, 5.61)	3.22 (2.52, 4.12)	2.08 (1.25, 3.46)	4.68 (3.98, 5.51)

Hazard ratios were calculated using Cox proportional hazards models. Subdistribution hazard ratios were calculated using proportional Subdistribution hazards regression models. All models were adjusted for age, sex, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history, first 10 principal components of ancestry, genotyping batch. SHR = Subdistribution hazard ratio. Other abbreviations as in Table S12.

Table S19: Association of lifestyle with incident IS, ICH, and MI in genetic risk strata

Subgroup	IS HR (95% CI)		ICH HR (95% CI)		MI HR (95% CI)	
	Model [a]	Model [b]	Model [a]	Model [b]	Model[a]	Model[b]
LG						
LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
IL	1.36 (1.21, 1.54)	1.21 (1.07, 1.37)	1.36 (1.12, 1.65)	1.31 (1.08, 1.60)	1.63 (1.48, 1.79)	1.41 (1.28, 1.55)
HL	3.34 (2.57, 4.35)	2.73 (2.09, 3.58)	3.72 (1.41, 3.99)	2.25 (1.33, 3.81)	3.86 (3.17, 4.70)	2.92 (2.39, 3.58)
IG						
LL	Ref.	Ref.	/	/	Ref.	Ref.
IL	1.50 (1.34, 1.68)	1.36 (1.21, 1.52)	/	/	1.55 (1.43, 1.68)	1.33 (1.22, 1.44)
HL	3.84 (3.01, 4.92)	3.16 (2.46, 4.06)	/	/	3.94 (3.32, 4.67)	2.97 (2.49, 3.54)
HG						
LL	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
IL	1.24 (1.12, 1.38)	1.13 (1.01, 1.25)	1.33 (1.11, 1.59)	1.30 (1.09, 1.56)	1.49 (1.39, 1.60)	1.27 (1.19, 1.37)
HL	3.14 (2.48, 3.98)	2.53 (1.99, 3.23)	2.06 (1.25, 3.40)	1.96 (1.18, 3.27)	3.44 (2.96, 4.00)	2.57 (2.20, 2.99)

[a] Cox regression models were adjusted for age, sex. [b] Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history. Abbreviations as in Table S12.

Table S20: Association of each composite lifestyle with incident IS in genetic risk strata

	Smoking HR (95% CI)		Alcohol intake HR (95% CI)		Diet patterns HR (95% CI)		Physical activity HR (95% CI)		Sleep patterns HR (95% CI)	
	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]
LG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.59 (1.37, 1.84)	1.40 (1.21, 1.63)	1.10 (0.96, 1.27)	1.09 (0.95, 1.26)	1.14 (1.01, 1.31)	1.12 (0.98, 1.27)	1.28 (1.15, 1.43)	1.14 (1.01, 1.27)	1.13 (1.01, 1.26)	1.03 (0.92, 1.15)
High	2.62 (2.23, 3.06)	2.46 (2.09, 2.90)	1.23 (1.07, 1.43)	1.18 (1.02, 1.37)	1.59 (1.26, 2.00)	1.44 (1.14, 1.82)	1.81 (1.34, 2.46)	1.34 (0.98, 1.82)	1.43 (1.14, 1.81)	1.13 (0.89, 1.43)
IG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.35 (1.17, 1.56)	1.22 (1.05, 1.41)	1.14 (1.00, 1.30)	1.14 (1.00, 1.30)	1.12 (1.00, 1.27)	1.09 (0.96, 1.22)	1.23 (1.11, 1.36)	1.09 (0.98, 1.21)	1.22 (1.10, 1.35)	1.12 (1.01, 1.25)
High	2.68 (2.32, 3.10)	2.49 (2.14, 2.89)	1.43 (1.25, 1.64)	1.40 (1.22, 1.61)	1.83 (1.49, 2.25)	1.63 (1.33, 2.01)	1.77 (1.33, 2.35)	1.33 (1.00, 1.78)	1.55 (1.25, 1.91)	1.26 (1.02, 1.57)
HG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.37 (1.20, 1.56)	1.21 (1.06, 1.39)	1.00 (0.89, 1.13)	1.00 (0.88, 1.12)	1.12 (1.00, 1.26)	1.09 (0.97, 1.22)	1.14 (1.03, 1.25)	1.02 (0.93, 1.13)	1.23 (1.11, 1.34)	1.13 (1.03, 1.25)
High	2.00 (1.72, 2.33)	1.84 (1.57, 2.15)	1.10 (0.97, 1.25)	1.06 (0.93, 1.20)	1.65 (1.35, 2.02)	1.46 (1.19, 1.80)	1.39 (1.03, 1.87)	1.05 (0.78, 1.43)	1.52 (1.24, 1.86)	1.27 (1.03, 1.56)

[a]Cox regression models were adjusted for age, sex. [b]Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history. Abbreviations as in Table S12.

Table S21: Association of each composite lifestyle with incident ICH in genetic risk strata

	Smoking HR (95% CI)		Alcohol intake HR (95% CI)		Diet patterns HR (95% CI)		Physical activity HR (95% CI)		Sleep patterns HR (95% CI)	
	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]
LG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.44 (1.13, 1.85)	1.38 (1.07, 1.77)	0.87 (0.69, 1.08)	0.86 (0.69, 1.08)	1.16 (0.93, 1.44)	1.17 (0.94, 1.46)	1.30 (1.08, 1.56)	1.25 (1.04, 1.51)	1.28 (1.07, 1.55)	1.24 (1.03, 1.49)
High	1.62 (1.18, 2.23)	1.63 (1.18, 2.25)	1.08 (0.85, 1.38)	1.05 (0.82, 1.34)	1.89 (1.30, 2.75)	1.92 (1.31, 2.81)	1.33 (0.72, 2.42)	1.21 (0.66, 2.23)	1.05 (0.66, 1.65)	0.95 (0.60, 1.50)
HG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.07 (0.83, 1.37)	1.04 (0.80, 1.34)	1.05 (0.85, 1.31)	1.04 (0.84. 1.30)	1.08 (0.89, 1.31)	1.09 (0.90, 1.33)	1.10 (0.93, 1.31)	1.08 (0.91, 1.29)	1.16 (0.98, 1.37)	1.13 (0.95, 1.34)
High	1.65 (1.24, 2.19)	1.63 (1.22, 2.18)	1.38 (1.09, 1.73)	1.34 (1.06, 1.69)	1.04 (0.68, 1.57)	1.04 (0.68, 1.58)	1.55 (0.94, 2.56)	1.47 (0.88, 2.44)	1.25 (0.85, 1.83)	1.17 (0.80, 1.72)

[a]Cox regression models were adjusted for age, sex. [b]Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history. Abbreviations as in Table S12.

Table S22: Association of each composite lifestyle with incident MI in genetic risk strata

	Smoking HR (95% CI)		Alcohol intake HR (95% CI)		Diet patterns HR (95% CI)		Physical activity HR (95% CI)		Sleep patterns HR (95% CI)	
	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]	Model[a]	Model[b]
LG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.35 (1.21, 1.53)	1.18 (1.05, 1.33)	0.94 (0.85, 1.04)	0.94 (0.85, 1.04)	1.21 (1.09, 1.34)	1.12 (1.01, 1.24)	1.36 (1.25, 1.48)	1.20 (1.10, 1.31)	1.43 (1.32,1.56)	1.32 (1.21, 1.44)
High	2.62 (2.33, 2.94)	2.35 (2.08, 2.65)	1.09 (0.98, 1.21)	1.06 (0.96, 1.18)	1.77 (1.49, 2.10)	1.44 (1.21, 1.71)	2.79 (2.31, 3.39)	2.02 (1.66, 2.46)	1.85 (1.57, 2.18)	1.54 (1.30, 1.81)
IG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.42 (1.28, 1.57)	1.24 (1.12, 1.37)	1.03 (0.94, 1.13)	1.04 (0.95, 1.14)	1.20 (1.10, 1.32)	1.11 (1.01, 1.21)	1.30 (1.21, 1.40)	1.14 (1.06, 1.23)	1.36 (1.26, 1.46)	1.25 (1.16, 1.35)
High	2.50 (2.26, 2.78)	2.17 (1.95, 2.42)	1.16 (1.06, 1.27)	1.14 (1.04, 1.26)	1.63 (1.40, 1.90)	1.31 (1.12, 1.53)	1.86 (1.53, 2.25)	1.38 (1.14, 1.68)	1.92 (1.66, 2.21)	1.61 (1.39, 1.85)
HG										
Low	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Intermediate	1.33 (1.22, 1.45)	1.15 (1.05, 1.26)	1.04 (0.96, 1.13)	1.05 (0.97, 1.14)	1.22 (1.13, 1.31)	1.13 (1.04, 1.22)	1.28 (1.20, 1.36)	1.12 (1.05, 1.20)	1.33 (1.25, 1.42)	1.22 (1.14, 1.30)
High	2.45 (2.24, 2.68)	2.14 (1.95, 2.35)	1.10 (1.01, 1.19)	1.09 (1.00, 1.18)	1.61 (1.41, 1.83)	1.29 (1.12, 1.47)	2.13 (1.81, 2.50)	1.53 (1.30, 1.80)	1.76 (1.55, 1.99)	1.44 (1.27, 1.64)

[a]Cox regression models were adjusted for age, sex. [b]Cox regression models were adjusted for age, sex, BMI, TDI, Qualification, HDL-C, LDL-C, CVD history, hypertension history, diabetes history, cancer history. Abbreviations as in Table S12.

Table S23: Population-attributable fraction per behavioural lifestyle group

		IS			ICH			MI		
		No. non ideal (%)	**PAF (%)**	**95% CI**	**No. non ideal (%)**	**PAF (%)**	**95% CI**	**No. non ideal (%)**	**PAF (%)**	**95% CI**
Lifestyle factor										
Smoking	Non ideal to ideal	61,067 (19.4)	12.17	(10.58, 13.76)	61,067 (19.4)	6.41	(3.21, 9.61)	61,067 (19.4)	12.33	(11.21, 13.44)
Alcohol intake	Non ideal to ideal	75,325 (23.9)	5.10	(3.15, 7.06)	75,325 (23.9)	6.09	(2.02, 10.15)	228,853 (23.9)	3.19	(1.77, 4.61)
Diet patterns	Non ideal to ideal	237,323 (60.6)	10.71	(6.00, 15.4)	237,323 (60.6)	5.05	(-0.89, 18.92)	237,323 (60.6)	14.87	(11.57, 18.18)
Physical activity	Non ideal to ideal	120,254 (38.2)	8.07	(5.76, 10.37)	120,254 (38.2)	7.28	(2.41, 12.15)	120,254 (38.2)	11.87	(10.25, 13.48)
Sleep patterns	Non ideal to ideal	135,880 (43.1)	8.94	(6.38, 11.49)	135,880 (43.1)	8.46	(3.06, 13.87)	135,880 (43.1)	15.00	(13.22, 16.78)
Lifestyle Risk	Non ideal to ideal	185,531 (59.0)	20.08	(16.60, 23.57)	177,633 (56.4)	17.32	(10.44, 24.19)	190,045 (60.3)	23.41	(21.13, 25.70)
Genetic Risk	Intermediate & high risk to low risk	210,029 (66.7)	14.02	(10.18, 17.86)	157,522 (50.0)	7.89	(1.90, 13.89)	210,029 (66.7)	27.00	(24.48, 29.52)

PAF = Population-attributable fraction.

Figure S1 The component of lifestyle risk score

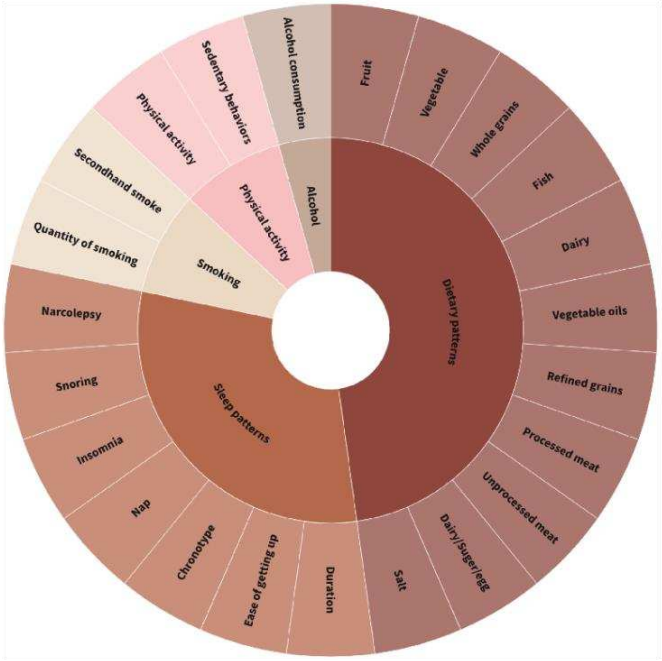


Figure S2: The distribution of raw lifestyle risk score. LRS, lifestyle risk score

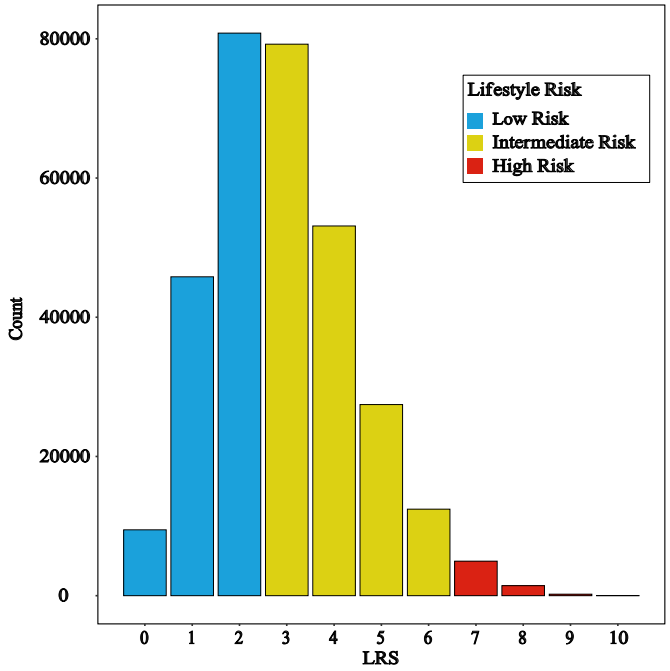
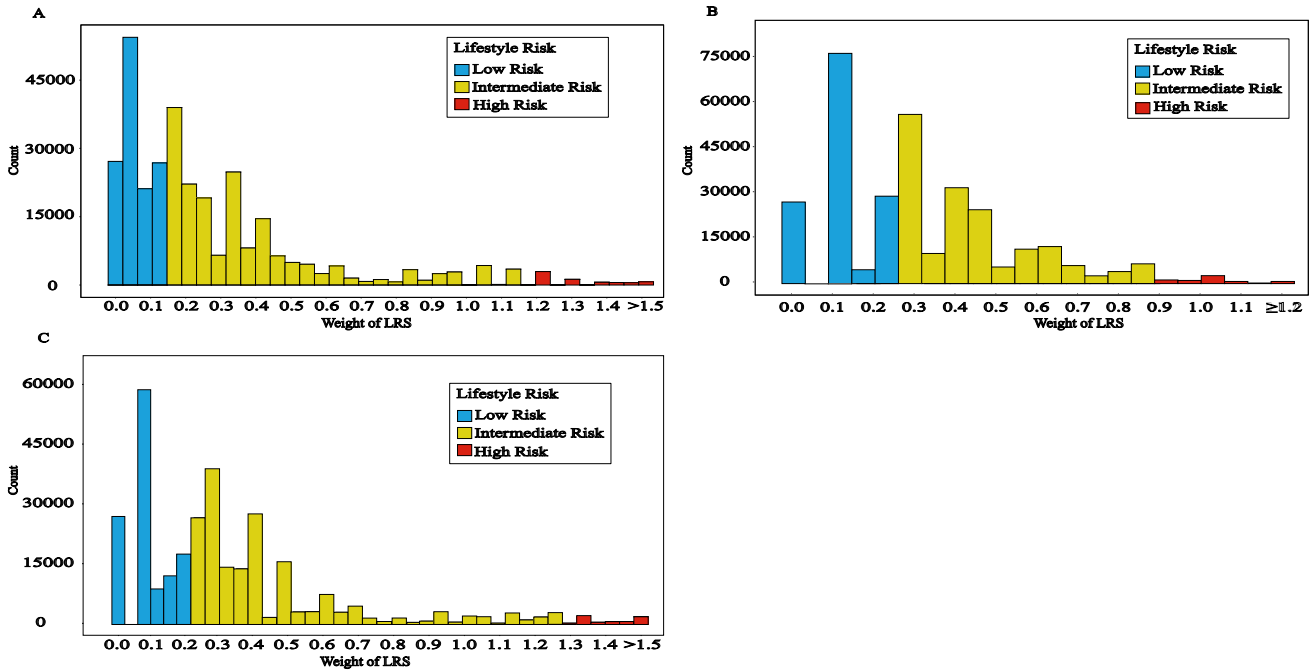
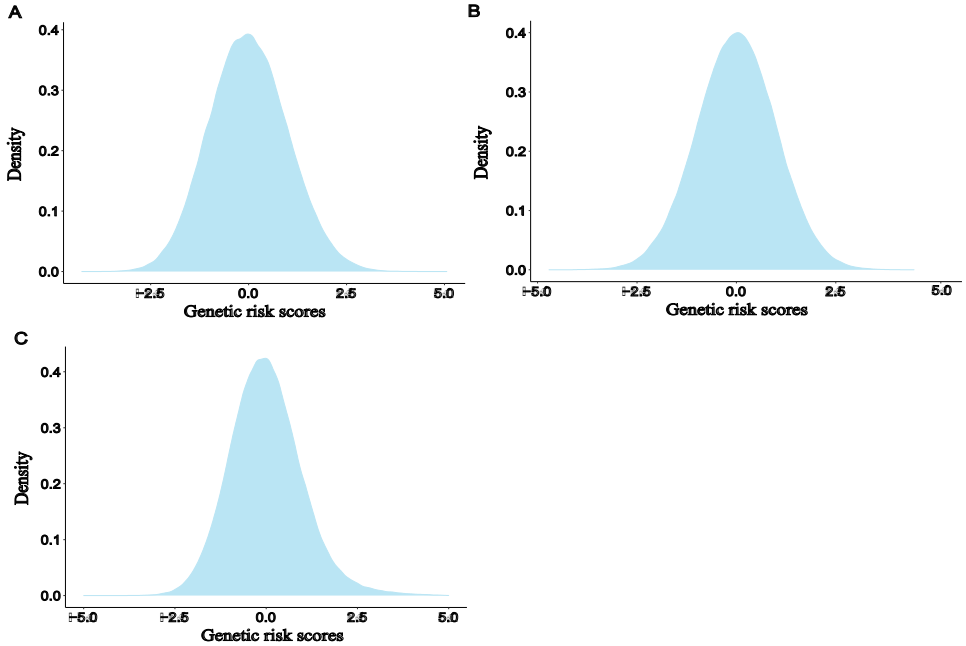


Figure S3: Distribution of weighted lifestyle risk scores



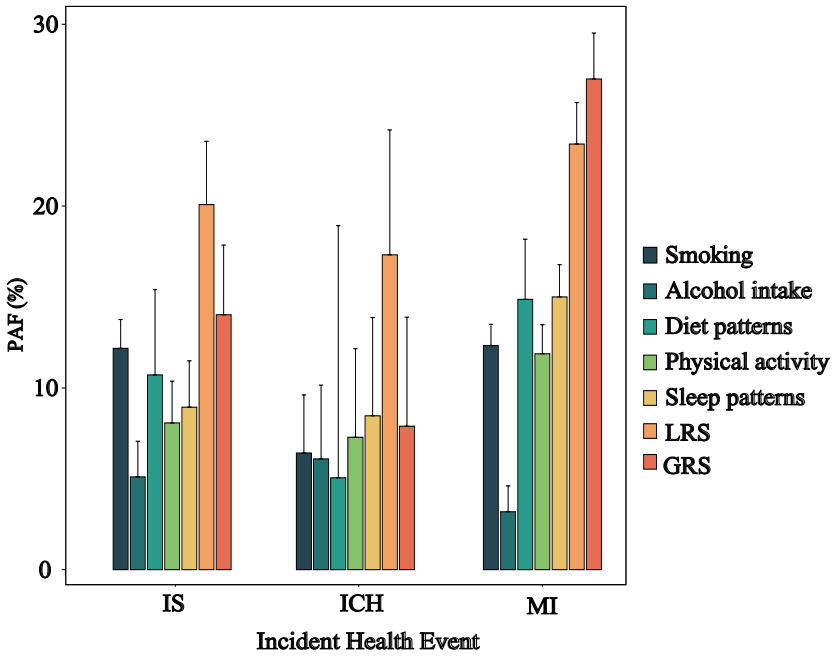
A Distribution of weighted lifestyle risk scores for IS; **B** Distribution of weighted lifestyle risk scores for ICH; **C** Distribution of weighted lifestyle risk scores for MI.

Figure S4: Distribution of genetic risk scores



A Distribution of genetic risk scores for ischemic stroke; **B** Distribution of genetic risk scores for intracerebral hemorrhage; **C** Distribution of genetic risk scores for myocardial infraction

Figure S5: The PAF of genetic and lifestyle risk and obesity to incident health events among participants



The I bars represent 95% confidence intervals.

Text S1: Lifestyle factors

The extensive lifestyle and personal exposure information held by the UK Biobank was subdivided into eight subject areas: physical activity, electronic device use, sleep, smoking, diet, alcohol, sun exposure, and sexual factors (https://biobank.ndph.ox.ac.uk/showcase/label.cgi?id=100050). In our study, the lifestyles of each participant were assessed through five integrated categories based on evidence from previous studies, including 1) smoking (smoking status and quantity, secondhand smoke exposure); 2) alcohol consumption; 3) dietary patterns (intake frequency of fruit, vegetables, whole grain, fish, dairy, vegetable oils, refined grain, processed and unprocessed meats, dairy/sugar/egg and salt); 4) physical activity (duration of physical and sedentary activity); 5) sleep patterns (sleep duration, ease of getting up, chronotype, nap, insomnia, snoring and narcolepsy). For factors in each lifestyle category, the risk score ranged from 0 to 2 or 0 to 3, depending on the exposure level and its health impact. The final risk level for each lifestyle category was classified as low, intermediate, or high based on the total score. For example, dietary patterns was further classified as low (0–3), intermediate (4–7), and high risk (8–11).

Text S2: Genotyping and imputation

The genotype data in the UK Biobank were derived from two closely-related arrays from Affymetrix, the custom UK Biobank Lung Exome Variant Evaluation Axiom (*n* = 49,949; SNPs = 807,411) and the UK Biobank Axiom array (*n* = 452,713; SNPs = 820,967). The design of the arrays, sample processing, and stringent quality control in the UK Biobank have been previously detailed.(9) Genotype imputation used two reference panels: the Haplotype Reference Consortium and a merged UK10K and 1000 Genomes Phase 3 panel.(10) From the datasets, we excluded those with a non-white ethnic background, related individuals (kinship coefficient ≥0.0884), a mismatch between genetic and reported sex, and participants with high levels of heterozygosity (Figure 1). We used the ukb_gen_samples_to_remove () function from R package ukbtools v0.11.3(11) to choose a subset (where no pair of relatedness coefficients >0.0884) that removes the minimum number of individuals with data on the phenotype of interest.

Text S3: Genetic risk score

The summary statistic needed to calculate the GRS for IS was obtained from the MEGASTROKE consortium; for ICH from the International Stroke Genetics Consortium; and for MI from the CARDIoGRAMplusC4D consortium.(12-14) We derived multiple sets of independent SNPs associated with IS, ICH, and MI as follows. For IS, the SNPs were independent (r^2 <0.05 and 250 Kb apart) at a range of *P*-thresholds (lower, 5×10^{-8}; upper, 1×10^{-5}; interval, 5×10^{-8}); for ICH these were independent (r^2 <0.1 and 250 Kb apart) at a range of *P*-thresholds (lower, 5×10^{-8}; upper, 0.5; interval, 5×10^{-8}); and for MI these were independent (r^2 <0.05 and 250 Kb apart) at a range of *P*-thresholds (lower, 5×10^{-8}; upper, 1×10^{-5}; interval, 5×10^{-8}).(15) Within the range of *P*-value thresholds considered, the GRS most significantly associated with the target trait was used.

Text S4: Covariates

In this study, covariates documented included sex, age, Townsend deprivation index (TDI), qualification (indicators reflecting the level of education), BMI, high-density lipoprotein cholesterol (HDL-C) and low-density lipoprotein cholesterol (LDL-C), history of other cardiovascular disease, hypertension, diabetes, and cancer.(16, 17) Information on cardiovascular disease status (i.e., presence of coronary heart disease, heart failure, atrial fibrillation) was derived from medical records (ICD-10). Hypertension was taken from medical records or defined as systolic blood pressure ≥140 mmHg and/or diastolic blood pressure ≥90 mmHg, or the use of anti-hypertension agents. Diabetes was ascertained based on medical records, a glycated hemoglobin ≥6.5%, or the use of antidiabetic drugs. Cancer was identified through linking to the National Health Service (NHS) Central Register. The self-reported information about the above diseases was also taken into consideration. Details of the medical records and self-reported information can be found in Table S4.

Text S5: MEGASTROKE extended information and acknowledgements

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