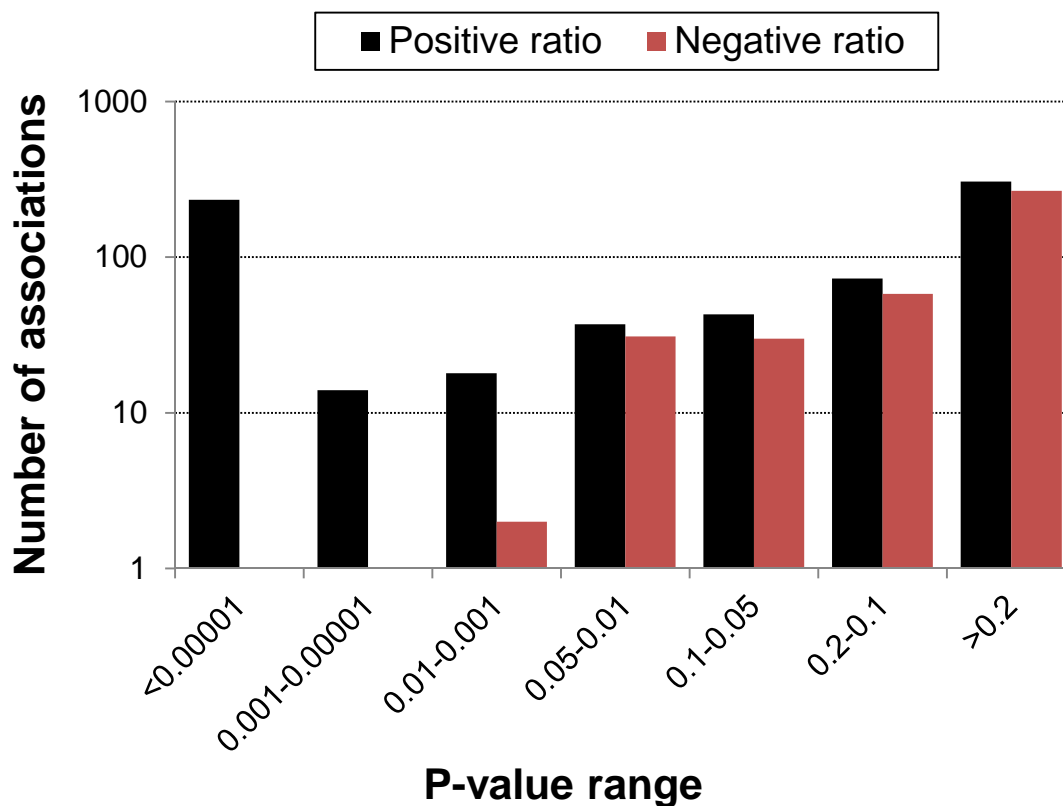


SUPPLEMENTAL MATERIAL

Supplementary figure 1



Supplementary Figure 1: Frequency histogram showing the direction of ratio estimates from the inverse-variance weighted average (IVWA) analysis of the best Framingham predictor in the KORA data set. Results are binned by the p-value from the IVWA analysis. Results are binned by p-value. The colored bars indicated with the direction of the association is in the expected direction (i.e. a positive association) or in the opposite direction.

Supplementary Table 1: Characteristics of the EHR population.

Characteristic	n=41,288
Birth Decade	
median (IQR)	1945 (1935-1955)
Gender [n (%)]	
Males	21,097 (51.1)
Females	20,191 (48.9)
Contributing center [n (%)]	
Marshfield	3,707 (9.0)
VUMC	20,230 (49.0)
Group Health	2,358 (5.7)
Mayo	6,665 (16.1)
Northwestern	1,247 (3.0)
Geisinger	2,946 (7.1)
Harvard	4,135 (10.0)

Supplementary Table 2: Characteristics of the Malmö Diet and Cancer Study (MDCS) population.

Characteristic	n=651
Age (years) [Mean, s.d.]	59.0 (5.6)
Gender [n (%)]	
Males	305 (46.9%)
Females	346 (53.15%)
Incident diabetes [n (%)]	163 (25.0%)
Incident CHD [n (%)]	162 (24.9%)
LDL-C levels (mmol/L) [mean, s.d.]	4.32 (1.00)
Prevalent carotid plaque [n (%)]	168 (26.4%)

Supplementary Table 3: SNPs and weights used to construct each protein predictor.

Protein	Variant ID	Chromosome	Position	Effect allele	Noneffect allele	Effect allele frequency	Beta	Standard error	p-value
6Ckine	3:132268469	3	132268469	C	T	0.87	0.49	0.07	1.2E-11
6Ckine	3:54289975	3	54289975	A	G	0.75	-0.31	0.06	6.8E-08
a1_Antichymotrypsin	14:95095434	14	95095434	C	A	0.83	0.50	0.07	3.1E-13
a1_Antichymotrypsin	14:95131257	14	95131257	G	A	0.59	0.29	0.05	2.0E-08
a1_Antitrypsin	14:94769817	14	94769817	G	A	0.87	-0.44	0.08	2.4E-07
a1_Antitrypsin	14:94796184	14	94796184	A	T	0.80	0.37	0.06	4.1E-09
a1_Antitrypsin	14:94838740	14	94838740	A	G	0.70	-0.31	0.06	1.8E-08
a2_HS_Glycoprotein	3:186337827	3	186337827	C	T	0.52	0.39	0.05	1.3E-16
a2_HS_Glycoprotein	3:186344614	3	186344614	C	T	0.88	0.47	0.08	3.9E-09
ADAMTS_5	21:28226787	21	28226787	C	T	0.83	0.53	0.07	1.7E-15
ADAMTS_5	21:28231324	21	28231324	G	T	0.95	0.62	0.10	2.2E-09
ADAMTS_5	21:28273975	21	28273975	A	T	0.87	-0.55	0.07	7.6E-17
ADAMTS_5	21:28311572	21	28311572	C	T	0.84	0.81	0.06	5.2E-47
ADAMTS_5	21:28317134	21	28317134	T	C	0.63	-0.36	0.04	5.4E-16
AK1A1	1:46044314	1	46044314	C	T	0.79	0.45	0.06	7.1E-14
AK1A1	1:46051053	1	46051053	G	A	0.95	1.65	0.12	5.4E-44
AK1A1	1:46939999	1	46939999	G	C	0.77	0.44	0.08	2.5E-08
AK1A1	1:47016761	1	47016761	C	T	0.94	0.72	0.13	6.0E-08
AK1A1	20:37914526	20	37914526	G	A	0.79	-0.37	0.07	1.5E-07
Alkaline_phosphatase__bone	3:46488936	3	46488936	C	T	0.92	-0.65	0.11	1.4E-09
Alkaline_phosphatase__bone	3:46493078	3	46493078	T	C	0.68	-0.53	0.05	3.4E-25
Alkaline_phosphatase__bone	3:46543325	3	46543325	C	T	0.77	0.33	0.06	8.4E-09
Angiogenin	14:21130632	14	21130632	A	G	0.79	-0.36	0.06	6.5E-09
Angiogenin	14:21155393	14	21155393	G	A	0.53	0.30	0.05	7.7E-10
Angiogenin	14:21157936	14	21157936	G	A	0.87	-0.75	0.08	7.0E-19
Angiogenin	14:21161385	14	21161385	T	G	0.95	-0.74	0.11	2.0E-11
Angiotensinogen	1:230831161	1	230831161	G	A	0.88	-0.38	0.07	6.4E-08
annexin_II	10:113296281	10	113296281	C	T	0.94	0.55	0.11	9.4E-07
annexin_II	11:18698379	11	18698379	A	G	0.59	-0.31	0.07	2.3E-06
annexin_II	15:60687152	15	60687152	T	G	0.85	-0.33	0.07	7.6E-07
annexin_II	7:6243255	7	6243255	T	C	0.89	-0.44	0.09	2.5E-06
Apo_E	11:116967666	11	116967666	T	C	0.89	-0.50	0.08	4.3E-09
Apo_E	19:45372794	19	45372794	G	A	0.86	0.49	0.08	6.6E-11
Apo_E2	19:45331103	19	45331103	G	A	0.52	0.42	0.07	4.3E-09
Apo_E2	19:45373565	19	45373565	G	A	0.85	0.40	0.07	3.6E-08
Apo_E2	19:45395266	19	45395266	A	G	0.58	0.58	0.09	9.9E-11
Apo_E2	19:45411941	19	45411941	T	C	0.88	-0.83	0.10	1.1E-16
Apo_E3	11:116967666	11	116967666	T	C	0.89	-0.45	0.08	1.2E-07

Apo_E3	19:45331103	19	45331103	G	A	0.52	0.39	0.07	1.2E-07
Apo_E3	19:45372794	19	45372794	G	A	0.86	0.42	0.08	2.7E-08
Apo_E3	19:45395266	19	45395266	A	G	0.58	0.47	0.09	1.7E-07
Apo_E3	19:45411941	19	45411941	T	C	0.88	-0.55	0.10	9.0E-08
Apo_E4	11:116967666	11	116967666	T	C	0.89	-0.44	0.08	1.9E-07
Apo_E4	19:45372794	19	45372794	G	A	0.86	0.42	0.08	3.4E-08
ARSB	4:2358528	4	2358528	G	A	0.82	0.39	0.07	3.3E-08
ARSB	5:78179742	5	78179742	G	A	0.56	0.37	0.05	1.2E-13
ARSB	5:78263670	5	78263670	C	T	0.80	-0.37	0.06	6.8E-09
ARTS1	5:95969820	5	95969820	C	T	0.80	-0.49	0.07	2.2E-12
ARTS1	5:95982675	5	95982675	A	C	0.92	-0.89	0.12	6.9E-13
ARTS1	5:96018066	5	96018066	C	G	0.79	-0.46	0.06	1.6E-13
ARTS1	5:96046039	5	96046039	C	A	0.72	-0.51	0.06	4.6E-18
ARTS1	5:96069295	5	96069295	G	A	0.91	-0.79	0.09	6.7E-18
ARTS1	5:96116940	5	96116940	G	A	0.62	-0.38	0.05	2.2E-13
ARTS1	5:96119339	5	96119339	G	T	0.79	1.15	0.05	1.4E-116
ARTS1	5:96123055	5	96123055	G	A	0.78	-1.11	0.05	4.3E-128
ARTS1	5:96164641	5	96164641	C	A	0.85	-0.55	0.07	4.7E-14
ARTS1	5:96182717	5	96182717	A	G	0.67	-0.68	0.05	2.0E-39
ARTS1	5:96214217	5	96214217	C	T	0.88	0.85	0.07	3.4E-34
ARTS1	5:96229272	5	96229272	G	A	0.58	-0.54	0.05	1.9E-26
ARTS1	5:96229542	5	96229542	T	G	0.86	-0.81	0.08	7.1E-24
ARTS1	5:96377146	5	96377146	C	T	0.93	-0.59	0.10	1.1E-08
ARTS1	5:96411890	5	96411890	T	C	0.94	0.70	0.11	3.6E-11
ASAH2	10:52017680	10	52017680	A	G	0.77	0.66	0.05	3.5E-35
ASAH2	10:52020743	10	52020743	G	A	0.88	0.49	0.07	2.1E-11
AS AHL	12:102000977	12	102000977	A	G	0.86	0.47	0.08	5.6E-09
AS AHL	12:102032125	12	102032125	C	T	0.56	-0.30	0.05	2.5E-08
AS AHL	12:102088361	12	102088361	C	T	0.58	0.31	0.05	1.1E-08
AS AHL	12:102185145	12	102185145	T	C	0.84	0.45	0.07	1.0E-11
AS AHL	4:76817221	4	76817221	T	C	0.83	-0.39	0.07	3.1E-08
AS AHL	4:76839569	4	76839569	C	T	0.95	-0.99	0.10	5.0E-21
AS AHL	4:76859615	4	76859615	A	T	0.64	-0.35	0.05	1.4E-10
AS AHL	4:76887465	4	76887465	A	T	0.74	0.72	0.06	5.7E-37
AS AHL	4:77004178	4	77004178	A	G	0.55	-0.34	0.06	6.3E-10
ATS13	9:136170732	9	136170732	G	A	0.60	-0.31	0.06	3.6E-07
ATS13	9:136182615	9	136182615	C	T	0.95	-0.98	0.15	5.3E-11
ATS13	9:136193546	9	136193546	C	T	0.89	0.67	0.08	4.3E-16
ATS13	9:136303253	9	136303253	T	C	0.61	0.54	0.05	1.7E-28
ATS13	9:136336908	9	136336908	G	A	0.95	2.03	0.16	3.7E-38
BCAM	6:151035800	6	151035800	C	T	0.67	0.29	0.06	2.5E-07
BCAM	8:99185979	8	99185979	G	A	0.90	-0.53	0.10	3.6E-07

BCAM	9:136146431	9	136146431	C	T	0.68	-0.30	0.06	1.4E-07
b_Endorphin	11:116671823	11	116671823	G	C	0.88	-0.43	0.08	2.7E-07
b_Endorphin	11:116718415	11	116718415	G	A	0.85	0.46	0.07	5.6E-11
BGH3	5:135389433	5	135389433	T	C	0.52	-0.54	0.04	3.8E-33
BGH3	5:135418032	5	135418032	G	A	0.65	-0.31	0.05	7.5E-10
BPI	20:36920753	20	36920753	A	C	0.66	-0.38	0.06	2.3E-11
BPI	20:36937881	20	36937881	T	A	0.57	-0.35	0.05	2.9E-11
BPI	20:36974157	20	36974157	A	G	0.87	0.53	0.08	4.3E-11
BSSP4	12:77090093	12	77090093	G	A	0.92	-0.40	0.09	4.1E-06
BSSP4	1:84026079	1	84026079	C	T	0.92	-0.45	0.10	3.6E-06
BSSP4	4:129316730	4	129316730	A	T	0.85	0.37	0.07	8.5E-07
BSSP4	5:136172926	5	136172926	G	A	0.89	0.38	0.08	1.3E-06
BSSP4	9:16758776	9	16758776	C	T	0.91	0.38	0.08	2.8E-06
BST1	4:15442146	4	15442146	C	T	0.86	0.54	0.07	2.8E-13
BST1	4:15538922	4	15538922	T	G	0.55	0.48	0.05	7.3E-24
BST1	4:15683968	4	15683968	G	C	0.64	0.53	0.05	7.6E-25
BST1	4:15691259	4	15691259	G	A	0.82	-0.50	0.06	6.7E-15
BST1	4:15705039	4	15705039	T	G	0.53	0.47	0.05	4.4E-21
BST1	4:15714189	4	15714189	C	A	0.85	1.44	0.04	9.8E-226
BST1	4:15756270	4	15756270	A	T	0.79	0.80	0.06	5.8E-45
BST1	4:15775906	4	15775906	G	A	0.50	-0.38	0.05	2.9E-12
BST1	4:15806720	4	15806720	G	A	0.95	0.70	0.11	3.2E-10
C1_Esterase_Inhibitor	11:57352562	11	57352562	C	A	0.78	-0.31	0.06	1.5E-07
C1_Esterase_Inhibitor	11:57374332	11	57374332	T	C	0.72	0.70	0.06	1.2E-34
C1_Esterase_Inhibitor	11:57434906	11	57434906	G	T	0.91	0.60	0.11	9.9E-08
C1_Esterase_Inhibitor	11:57639089	11	57639089	C	T	0.90	0.74	0.11	2.0E-11
C1_Esterase_Inhibitor	11:57687365	11	57687365	C	G	0.56	-0.30	0.05	4.7E-09
C1_Esterase_Inhibitor	18:42512532	18	42512532	G	C	0.56	0.29	0.05	9.3E-08
C1s	1:196675861	1	196675861	A	G	0.61	0.51	0.05	4.8E-24
C1s	1:196684574	1	196684574	C	T	0.84	-0.61	0.07	6.1E-17
C1s	1:196851253	1	196851253	G	T	0.88	0.58	0.08	9.6E-14
C34_gp41_HIV_Fragment	6:31836202	6	31836202	A	C	0.92	-0.51	0.09	3.2E-09
C34_gp41_HIV_Fragment	6:31872383	6	31872383	G	A	0.92	-0.59	0.09	1.7E-10
C34_gp41_HIV_Fragment	6:31914179	6	31914179	C	T	0.91	-1.03	0.08	9.5E-41
C34_gp41_HIV_Fragment	6:31947594	6	31947594	G	C	0.87	-0.65	0.07	2.1E-21
C34_gp41_HIV_Fragment	6:32032743	6	32032743	G	A	0.57	0.37	0.05	9.7E-14
C4	11:134370586	11	134370586	C	G	0.82	0.38	0.07	2.6E-07
C4	11:7557591	11	7557591	G	A	0.82	-0.35	0.07	1.8E-06
C4	16:86323433	16	86323433	C	T	0.88	0.42	0.08	5.0E-07
C4	2:234156536	2	234156536	T	G	0.53	0.24	0.05	3.8E-06
C4	6:28787384	6	28787384	T	C	0.92	0.48	0.09	1.8E-07
C4	6:29986324	6	29986324	T	A	0.91	0.45	0.09	1.8E-07

C4	6:31081940	6	31081940	T	C	0.75	0.45	0.06	2.6E-15
C4	6:31100869	6	31100869	G	A	0.76	-0.28	0.06	3.2E-06
C4	6:31102672	6	31102672	T	C	0.63	-0.39	0.05	4.3E-14
C4	6:31242585	6	31242585	G	A	0.84	-0.43	0.09	6.3E-07
C4	6:31325822	6	31325822	A	G	0.76	0.48	0.08	4.5E-10
C4	6:31328685	6	31328685	C	A	0.82	-0.40	0.09	3.7E-06
C4	6:31399945	6	31399945	T	C	0.93	-0.78	0.12	3.5E-11
C4	6:31449213	6	31449213	A	T	0.93	-0.47	0.10	2.4E-06
C4	6:31461613	6	31461613	T	C	0.83	-0.48	0.07	1.4E-11
C4	6:31472720	6	31472720	G	T	0.77	0.37	0.07	2.9E-08
C4	6:31476363	6	31476363	G	A	0.95	0.55	0.11	8.7E-07
C4	6:31483136	6	31483136	A	G	0.65	-0.43	0.06	3.7E-14
C4	6:31485101	6	31485101	A	C	0.76	0.53	0.06	1.0E-18
C4	6:31603770	6	31603770	A	G	0.83	0.50	0.07	1.1E-14
C4	6:31713454	6	31713454	C	T	0.86	-0.47	0.07	2.6E-11
C4	6:31769796	6	31769796	C	T	0.91	-0.54	0.09	6.3E-09
C4	6:31931137	6	31931137	T	C	0.80	-0.48	0.06	2.8E-14
C4	6:31946614	6	31946614	G	A	0.68	0.29	0.06	4.2E-07
C4	6:32007625	6	32007625	C	T	0.94	-0.73	0.12	1.3E-09
C4	6:32573877	6	32573877	T	C	0.65	-0.38	0.07	2.8E-08
C4	6:32673230	6	32673230	C	T	0.84	-0.47	0.09	3.1E-07
C4	6:32776921	6	32776921	T	C	0.90	0.48	0.09	1.1E-07
C4	6:32796057	6	32796057	G	A	0.76	-0.34	0.06	7.3E-08
C4	8:19143937	8	19143937	G	T	0.74	0.30	0.06	2.8E-07
C4	9:18312495	9	18312495	T	C	0.52	-0.26	0.05	5.2E-07
C4b	10:2355947	10	2355947	T	C	0.81	0.26	0.06	4.2E-05
C4b	11:134330488	11	134330488	C	T	0.84	-0.36	0.07	8.8E-07
C4b	11:4233350	11	4233350	A	G	0.74	0.31	0.06	7.4E-08
C4b	11:93063200	11	93063200	C	T	0.69	0.23	0.06	3.5E-05
C4b	13:95502594	13	95502594	A	T	0.81	0.41	0.10	2.9E-05
C4b	13:98514965	13	98514965	A	G	0.83	0.30	0.07	3.6E-05
C4b	14:100136575	14	100136575	C	A	0.62	-0.26	0.06	4.6E-05
C4b	14:103643828	14	103643828	A	G	0.66	0.24	0.06	1.9E-05
C4b	14:91817829	14	91817829	A	G	0.92	-0.42	0.09	7.4E-06
C4b	15:79898351	15	79898351	T	C	0.69	0.23	0.05	1.8E-05
C4b	15:99139635	15	99139635	G	A	0.51	0.22	0.05	2.2E-05
C4b	16:82830061	16	82830061	A	G	0.73	0.25	0.06	7.7E-06
C4b	16:84314450	16	84314450	C	T	0.86	0.35	0.08	3.3E-06
C4b	1:166445116	1	166445116	G	A	0.74	-0.24	0.06	3.8E-05
C4b	1:18352387	1	18352387	C	T	0.51	0.21	0.05	4.6E-05
C4b	20:17673552	20	17673552	G	A	0.87	0.34	0.08	4.8E-05
C4b	21:20126172	21	20126172	G	T	0.78	0.30	0.07	1.4E-05

C4b	21:37839410	21	37839410	G	A	0.82	-0.31	0.07	7.2E-06
C4b	21:42477040	21	42477040	C	G	0.75	0.31	0.06	2.8E-07
C4b	22:44823445	22	44823445	G	A	0.69	0.29	0.05	1.0E-07
C4b	2:227446979	2	227446979	G	T	0.63	0.22	0.05	2.9E-05
C4b	2:22922022	2	22922022	A	G	0.59	-0.23	0.05	8.4E-06
C4b	2:241569329	2	241569329	G	A	0.53	0.23	0.06	4.3E-05
C4b	2:49750957	2	49750957	C	T	0.94	-0.45	0.11	2.5E-05
C4b	2:75166238	2	75166238	T	G	0.73	-0.24	0.06	3.6E-05
C4b	3:141346056	3	141346056	C	G	0.56	-0.36	0.06	1.4E-08
C4b	3:141366078	3	141366078	T	A	0.79	0.26	0.06	4.8E-05
C4b	3:143991325	3	143991325	G	A	0.80	0.27	0.06	1.2E-05
C4b	3:23500010	3	23500010	A	G	0.53	0.23	0.05	1.2E-05
C4b	3:30292422	3	30292422	G	A	0.85	-0.31	0.07	1.8E-05
C4b	3:30388484	3	30388484	C	A	0.93	0.57	0.13	1.2E-05
C4b	4:15897924	4	15897924	G	A	0.73	-0.25	0.06	2.3E-05
C4b	4:163308497	4	163308497	T	C	0.66	0.23	0.05	1.8E-05
C4b	4:25010879	4	25010879	C	T	0.94	0.48	0.11	1.9E-05
C4b	5:142365520	5	142365520	C	T	0.80	-0.27	0.07	3.4E-05
C4b	5:161908964	5	161908964	G	A	0.81	0.27	0.06	1.9E-05
C4b	6:31081409	6	31081409	T	C	0.67	0.26	0.05	1.9E-06
C4b	6:31092767	6	31092767	C	T	0.84	-0.29	0.07	4.3E-05
C4b	6:31106499	6	31106499	G	A	0.86	0.29	0.07	2.1E-05
C4b	6:31145123	6	31145123	A	G	0.66	0.23	0.06	4.0E-05
C4b	6:31270038	6	31270038	A	G	0.87	0.41	0.08	8.2E-08
C4b	6:31397621	6	31397621	T	A	0.95	0.67	0.16	4.3E-05
C4b	6:31482592	6	31482592	C	T	0.79	0.27	0.06	4.3E-05
C4b	6:31566840	6	31566840	C	T	0.87	0.46	0.08	2.6E-08
C4b	6:31635198	6	31635198	T	C	0.94	0.46	0.11	2.3E-05
C4b	6:32006621	6	32006621	A	C	0.69	0.53	0.06	3.4E-21
C4b	6:32007625	6	32007625	C	T	0.94	-0.63	0.12	1.4E-07
C4b	6:32119898	6	32119898	C	T	0.87	-0.38	0.08	5.6E-07
C4b	7:142503276	7	142503276	G	T	0.61	0.22	0.05	2.5E-05
C4b	7:97265826	7	97265826	C	T	0.81	0.32	0.07	6.2E-06
C4b	9:38137724	9	38137724	G	T	0.76	0.24	0.06	4.3E-05
C4b	9:5359714	9	5359714	T	A	0.68	0.23	0.05	1.7E-05
C4b	9:82727550	9	82727550	A	G	0.65	0.22	0.05	3.3E-05
C7	5:40974680	5	40974680	G	A	0.75	0.46	0.06	6.0E-16
C7	5:41267725	5	41267725	C	T	0.67	-0.40	0.05	2.7E-15
C8	1:70335682	1	70335682	C	T	0.50	-0.26	0.05	4.1E-07
C8	21:46750250	21	46750250	G	A	0.90	-0.48	0.09	3.2E-07
Cadherin_5	9:136084941	9	136084941	T	C	0.56	-0.43	0.07	7.4E-10
Cadherin_5	9:136128467	9	136128467	A	G	0.68	-0.35	0.06	2.8E-10

Cadherin_5	9:136142185	9	136142185	C	T	0.92	-1.13	0.09	1.5E-35
Cadherin_5	9:136151806	9	136151806	T	C	0.79	0.39	0.07	3.0E-09
Cadherin_5	9:136155359	9	136155359	G	A	0.62	-0.41	0.07	1.8E-09
Cadherin_5	9:136163447	9	136163447	T	C	0.77	-0.71	0.08	8.8E-21
Cadherin_5	9:136186926	9	136186926	T	C	0.67	-0.38	0.07	5.6E-09
Cadherin_5	9:136190948	9	136190948	G	A	0.76	-0.45	0.07	2.1E-10
CAMK1	1:169253884	1	169253884	A	G	0.64	-0.33	0.05	1.1E-11
CAMK1	1:169348434	1	169348434	G	A	0.88	0.75	0.09	1.0E-17
CAMK1	1:169490772	1	169490772	G	A	0.80	-0.52	0.07	9.4E-13
CAMK1	1:169511755	1	169511755	T	C	0.73	1.11	0.04	2.5E-161
CAMK1D	17:26694861	17	26694861	G	A	0.49	-0.35	0.06	5.5E-10
CAPG	2:85584988	2	85584988	T	C	0.65	-0.31	0.05	1.9E-09
Carbonic_anhydrase_6	1:9010984	1	9010984	A	C	0.50	0.45	0.05	1.1E-22
Carbonic_anhydrase_6	1:9024458	1	9024458	C	A	0.78	-0.58	0.10	1.3E-08
Carbonic_anhydrase_6	1:9034598	1	9034598	A	G	0.60	-0.61	0.07	2.2E-16
Carbonic_anhydrase_6	1:9048244	1	9048244	C	T	0.52	0.34	0.05	9.0E-13
Carbonic_anhydrase_XIII	8:86194487	8	86194487	A	C	0.94	0.52	0.09	3.4E-08
Catalase	10:85960296	10	85960296	C	T	0.54	-0.25	0.05	6.3E-07
Catalase	11:34488285	11	34488285	G	A	0.78	0.30	0.06	2.5E-06
Catalase	18:70984252	18	70984252	T	G	0.78	-0.35	0.07	5.4E-07
Catalase	1:109815252	1	109815252	A	G	0.68	0.28	0.06	3.8E-06
Catalase	2:24708638	2	24708638	A	C	0.51	-0.25	0.05	1.5E-06
Cathepsin_A	12:102219766	12	102219766	G	A	0.71	0.39	0.05	1.7E-13
Cathepsin_B	8:11694986	8	11694986	G	A	0.74	-0.47	0.06	1.6E-16
Cathepsin_B	8:11713852	8	11713852	A	G	0.62	0.33	0.05	3.9E-10
Cathepsin_S	1:150737220	1	150737220	A	G	0.91	1.10	0.10	1.0E-25
Cathepsin_S	1:150774101	1	150774101	A	G	0.63	-0.42	0.05	2.9E-15
CATZ	12:102029254	12	102029254	A	C	0.90	0.48	0.09	4.1E-08
CATZ	12:102095370	12	102095370	T	G	0.91	0.54	0.10	2.0E-08
CATZ	12:102218899	12	102218899	T	C	0.71	0.41	0.05	2.3E-14
CD109	6:74512687	6	74512687	C	T	0.48	-0.64	0.05	1.2E-45
CD109	6:74531720	6	74531720	C	T	0.62	-0.37	0.05	9.0E-13
CD109	6:74586805	6	74586805	A	G	0.59	0.30	0.06	6.2E-08
CD23	19:7755485	19	7755485	G	A	0.74	0.40	0.06	2.0E-11
CD27	3:186382095	3	186382095	A	G	0.83	-0.46	0.07	5.2E-11
CD27	7:45005795	7	45005795	G	A	0.79	-0.36	0.07	3.8E-08
CD30_Ligand	9:117696266	9	117696266	C	G	0.74	0.34	0.06	7.3E-08
CD36_ANTIGEN	9:136141870	9	136141870	C	T	0.82	0.53	0.07	8.3E-16
CD48	19:19429975	19	19429975	C	G	0.65	-0.26	0.05	1.1E-06
CD48	1:40864856	1	40864856	G	A	0.93	0.49	0.11	4.0E-06
CD48	7:138758583	7	138758583	A	G	0.88	0.41	0.08	1.5E-06
CDON	11:125883765	11	125883765	A	C	0.92	0.76	0.09	1.7E-17

CDON	11:62005245	11	62005245	A	C	0.59	-0.29	0.05	4.0E-08
Chitotriosidase_1	18:31926438	18	31926438	C	T	0.92	0.48	0.08	8.0E-09
Chitotriosidase_1	1:203113189	1	203113189	T	C	0.80	0.35	0.06	3.6E-08
Chitotriosidase_1	1:203169391	1	203169391	A	G	0.90	0.80	0.09	9.5E-18
Chitotriosidase_1	1:203176399	1	203176399	T	C	0.72	-0.39	0.05	3.2E-13
Chitotriosidase_1	1:203181362	1	203181362	C	A	0.80	1.04	0.05	1.6E-97
Ck_b_8_1	17:34326215	17	34326215	C	A	0.87	0.73	0.08	2.1E-21
Ck_b_8_1	17:34361806	17	34361806	A	G	0.52	-0.32	0.05	5.3E-10
CK_MB	10:14306828	10	14306828	T	G	0.73	0.22	0.05	3.5E-05
CK_MB	10:31712567	10	31712567	G	A	0.94	0.75	0.17	9.0E-06
CK_MB	10:55754772	10	55754772	T	C	0.82	0.31	0.06	7.3E-07
CK_MB	12:83320724	12	83320724	C	T	0.87	-0.29	0.07	3.2E-05
CK_MB	13:85969709	13	85969709	T	G	0.78	-0.29	0.07	1.4E-05
CK_MB	14:89577749	14	89577749	G	A	0.61	-0.32	0.07	1.7E-05
CK_MB	14:98430382	14	98430382	A	G	0.70	-0.22	0.05	3.7E-05
CK_MB	15:40317608	15	40317608	G	A	0.67	0.24	0.06	1.6E-05
CK_MB	15:46825630	15	46825630	T	C	0.64	-0.28	0.06	1.1E-05
CK_MB	15:58682783	15	58682783	C	A	0.85	0.29	0.07	4.3E-05
CK_MB	16:12283735	16	12283735	T	G	0.80	0.26	0.06	7.4E-06
CK_MB	16:23347482	16	23347482	T	C	0.94	-0.48	0.11	9.8E-06
CK_MB	18:49211494	18	49211494	T	G	0.91	-0.34	0.08	3.5E-05
CK_MB	19:46906507	19	46906507	G	A	0.79	-0.40	0.09	7.1E-06
CK_MB	1:19510131	1	19510131	G	A	0.95	-0.55	0.14	4.8E-05
CK_MB	1:202089049	1	202089049	C	G	0.51	0.20	0.05	3.3E-05
CK_MB	1:208787183	1	208787183	T	G	0.77	-0.27	0.06	3.1E-06
CK_MB	1:76714427	1	76714427	C	G	0.92	-0.49	0.11	1.4E-05
CK_MB	20:18766752	20	18766752	A	G	0.63	-0.22	0.05	3.1E-05
CK_MB	20:19563993	20	19563993	C	G	0.83	-0.27	0.07	3.8E-05
CK_MB	21:41728531	21	41728531	G	A	0.58	0.21	0.05	1.7E-05
CK_MB	22:20068086	22	20068086	G	C	0.73	-0.25	0.06	5.7E-06
CK_MB	22:30373964	22	30373964	C	T	0.94	-0.45	0.10	8.2E-06
CK_MB	2:134645538	2	134645538	G	T	0.72	0.23	0.05	3.0E-05
CK_MB	2:145255527	2	145255527	T	C	0.86	-0.37	0.09	1.3E-05
CK_MB	2:21476634	2	21476634	G	A	0.88	-0.32	0.08	2.5E-05
CK_MB	2:236145628	2	236145628	A	G	0.70	-0.24	0.05	5.7E-06
CK_MB	2:53860097	2	53860097	C	T	0.66	-0.21	0.05	4.0E-05
CK_MB	2:96410048	2	96410048	T	A	0.68	0.25	0.06	3.0E-05
CK_MB	3:35259159	3	35259159	A	G	0.84	-0.31	0.07	8.7E-06
CK_MB	4:22486548	4	22486548	A	C	0.84	0.29	0.07	2.8E-05
CK_MB	4:27623011	4	27623011	C	T	0.72	0.23	0.05	2.0E-05
CK_MB	5:136987884	5	136987884	T	A	0.75	0.23	0.05	3.5E-05
CK_MB	5:139659153	5	139659153	A	G	0.81	0.29	0.06	4.7E-06

CK_MB	6:103820086	6	103820086	G	T	0.62	0.23	0.05	1.6E-05
CK_MB	6:130152296	6	130152296	A	G	0.64	-0.24	0.05	1.3E-06
CK_MB	7:126373509	7	126373509	C	T	0.83	-0.27	0.06	3.8E-05
CK_MB	7:20280352	7	20280352	C	T	0.90	0.42	0.10	4.8E-05
CK_MB	8:14408424	8	14408424	T	C	0.77	-0.24	0.06	4.1E-05
CLC1B	12:10124533	12	10124533	T	C	0.70	-0.28	0.05	4.2E-07
CLM6	12:89779344	12	89779344	A	G	0.69	0.53	0.06	8.1E-19
CLM6	12:89897286	12	89897286	G	A	0.64	-0.37	0.06	5.9E-10
CLM6	12:89897388	12	89897388	C	T	0.73	0.58	0.06	4.7E-23
CNTN2	1:205001332	1	205001332	C	T	0.93	-0.74	0.12	2.0E-09
CNTN2	1:205024012	1	205024012	T	C	0.86	-0.80	0.07	2.1E-31
CNTN2	1:205024857	1	205024857	T	C	0.51	-0.37	0.05	3.3E-14
CNTN2	1:205034552	1	205034552	C	T	0.87	-0.44	0.07	3.5E-09
Coagulation_Factor_V	1:169498975	1	169498975	T	C	0.67	0.35	0.05	1.7E-11
Coagulation_Factor_V	1:169504321	1	169504321	G	T	0.94	0.84	0.10	8.6E-17
Coagulation_Factor_VII	13:113733335	13	113733335	C	T	0.61	0.46	0.08	8.9E-09
Coagulation_Factor_VII	13:113743612	13	113743612	G	A	0.82	0.87	0.09	1.5E-21
Coagulation_Factor_VII	13:113765235	13	113765235	G	A	0.87	1.63	0.08	7.1E-88
Coagulation_Factor_VII	13:113792893	13	113792893	A	C	0.71	0.60	0.06	2.7E-25
Coagulation_Factor_XI	3:186439173	3	186439173	T	C	0.71	0.30	0.05	3.0E-08
Coagulation_Factor_XI	3:186454180	3	186454180	A	C	0.61	-0.50	0.05	1.7E-25
Coagulation_Factor_XI	4:187173691	4	187173691	A	G	0.60	-0.30	0.05	3.9E-09
Coagulation_Factor_XI	4:187204937	4	187204937	G	A	0.89	0.51	0.09	7.1E-09
Coagulation_Factor_XI	4:187207381	4	187207381	C	T	0.60	-0.41	0.05	1.7E-15
complement_factor_H_related_5	1:196675861	1	196675861	A	G	0.61	0.53	0.05	5.1E-26
complement_factor_H_related_5	1:196692940	1	196692940	T	C	0.94	1.20	0.15	3.4E-16
complement_factor_H_related_5	1:196821120	1	196821120	G	A	0.80	-0.38	0.07	5.9E-09
complement_factor_H_related_5	1:196946050	1	196946050	T	G	0.83	0.53	0.07	4.1E-13
complement_factor_H_related_5	1:197268763	1	197268763	C	A	0.68	-0.31	0.06	3.1E-08
contactin_1	16:424420	16	424420	G	C	0.58	-0.39	0.06	1.2E-10
contactin_1	8:40652751	8	40652751	G	A	0.49	-0.27	0.05	1.1E-07
Contactin_4	2:64614241	2	64614241	G	A	0.95	0.89	0.15	6.1E-09
Contactin_4	3:3094310	3	3094310	C	T	0.87	-0.43	0.08	8.2E-08
Contactin_5	10:8472876	10	8472876	G	C	0.64	-0.30	0.05	3.8E-08
Contactin_5	11:99049109	11	99049109	C	A	0.62	-0.29	0.05	6.7E-09
Contactin_5	11:99054404	11	99054404	T	C	0.93	-0.73	0.10	1.3E-13
CPNE1	20:34022387	20	34022387	A	C	0.65	0.28	0.05	3.2E-07
CPNE1	20:34045590	20	34045590	A	C	0.93	0.57	0.10	5.2E-08
CPNE1	20:34155764	20	34155764	A	T	0.92	0.75	0.10	1.9E-13
CPNE1	20:34183479	20	34183479	C	T	0.85	0.47	0.07	3.3E-10
CPNE1	20:34218673	20	34218673	G	C	0.90	1.22	0.07	8.9E-68
CPNE1	20:34712310	20	34712310	T	C	0.72	0.43	0.06	1.7E-11

CPNE1	4:67962761	4	67962761	T	A	0.78	0.50	0.10	3.4E-07
Cripto	3:46298561	3	46298561	C	T	0.83	-0.39	0.07	3.6E-08
Cripto	3:46549304	3	46549304	G	A	0.83	-0.49	0.07	1.7E-13
Cripto	3:46572362	3	46572362	A	G	0.55	0.34	0.05	2.8E-11
Cripto	3:46604586	3	46604586	A	G	0.64	0.42	0.05	6.7E-16
Cripto	3:46617502	3	46617502	T	C	0.76	-0.98	0.05	1.1E-86
Cripto	3:46642870	3	46642870	G	A	0.74	0.40	0.06	1.3E-10
Cripto	3:46653347	3	46653347	A	G	0.94	-0.72	0.13	1.5E-08
Cystatin_C	20:23618984	20	23618984	G	C	0.79	0.40	0.06	8.2E-12
CYTD	20:23767666	20	23767666	T	A	0.63	-0.33	0.05	3.3E-10
CYTD	20:23848024	20	23848024	T	G	0.78	0.40	0.07	1.8E-08
CYTD	20:23859319	20	23859319	G	A	0.83	-0.71	0.06	1.7E-28
CYTD	20:23862844	20	23862844	A	G	0.67	-0.33	0.05	1.2E-09
CYTF	20:24902396	20	24902396	C	A	0.70	0.46	0.06	3.3E-13
CYTN	20:23645518	20	23645518	A	T	0.54	0.29	0.06	1.4E-07
CYTN	20:23707628	20	23707628	T	C	0.93	0.60	0.10	1.0E-08
CYTN	20:23719557	20	23719557	T	A	0.67	-0.40	0.05	1.2E-13
CYTN	20:23728873	20	23728873	C	T	0.71	0.63	0.05	1.6E-32
CYTT	20:23646809	20	23646809	G	A	0.54	0.33	0.05	1.4E-09
CYTT	20:23719557	20	23719557	T	A	0.67	-0.41	0.05	8.9E-15
CYTT	20:23728873	20	23728873	C	T	0.71	0.57	0.05	7.7E-27
CYTT	20:23731978	20	23731978	C	G	0.91	0.63	0.11	8.4E-09
CYTT	20:23852690	20	23852690	T	A	0.73	0.32	0.06	4.7E-08
DAF	1:207324781	1	207324781	T	C	0.92	0.74	0.13	1.9E-08
DAF	1:207454596	1	207454596	G	C	0.74	0.60	0.05	3.9E-31
DAF	1:207486456	1	207486456	T	C	0.93	0.79	0.11	2.7E-12
DAF	1:207578284	1	207578284	C	T	0.78	-0.36	0.06	3.8E-09
DBNL	3:186391274	3	186391274	G	A	0.63	-0.33	0.05	1.4E-09
DC_SIGN	12:15720249	12	15720249	A	G	0.64	-0.31	0.05	1.0E-08
DC_SIGN	19:7798733	19	7798733	T	G	0.56	0.42	0.07	1.3E-08
DC_SIGN	9:136059310	9	136059310	C	T	0.72	-0.30	0.06	4.2E-07
DC_SIGN	9:136079654	9	136079654	T	C	0.53	0.32	0.05	9.5E-11
DC_SIGN	9:136137106	9	136137106	G	A	0.68	-0.92	0.04	2.8E-99
DC_SIGN	9:136146310	9	136146310	T	C	0.92	-0.94	0.10	9.0E-22
DC_SIGN	9:136152070	9	136152070	G	C	0.84	0.66	0.10	3.4E-11
DC_SIGN	9:136152722	9	136152722	C	T	0.76	0.61	0.08	5.8E-15
DC_SIGN	9:136157037	9	136157037	A	C	0.72	0.48	0.06	2.4E-18
DC_SIGN	9:136164593	9	136164593	T	G	0.90	-0.54	0.09	6.8E-10
DC_SIGN	9:136181848	9	136181848	T	C	0.69	0.29	0.05	1.1E-07
DC_SIGN	9:136190948	9	136190948	G	A	0.76	-0.41	0.07	1.2E-08
DERM	1:168675281	1	168675281	C	T	0.59	0.27	0.05	9.1E-09
DERM	1:168697761	1	168697761	C	A	0.56	0.36	0.05	8.2E-14

DERM	1:168772240	1	168772240	C	T	0.82	-0.33	0.06	1.2E-08
discoidin_domain_receptor_1	11:65601560	11	65601560	G	C	0.85	0.31	0.07	1.3E-05
discoidin_domain_receptor_1	11:69017797	11	69017797	T	C	0.90	0.40	0.10	3.1E-05
discoidin_domain_receptor_1	11:77405141	11	77405141	A	T	0.65	0.23	0.05	8.5E-06
discoidin_domain_receptor_1	11:87805299	11	87805299	A	G	0.65	0.25	0.06	9.9E-06
discoidin_domain_receptor_1	12:130597843	12	130597843	C	T	0.82	-0.36	0.09	3.1E-05
discoidin_domain_receptor_1	13:104490794	13	104490794	G	A	0.52	0.30	0.07	3.5E-05
discoidin_domain_receptor_1	14:54099700	14	54099700	A	G	0.71	0.24	0.06	4.3E-05
discoidin_domain_receptor_1	17:70757476	17	70757476	A	T	0.89	-0.34	0.08	1.6E-05
discoidin_domain_receptor_1	17:74134628	17	74134628	C	G	0.74	-0.27	0.06	2.4E-05
discoidin_domain_receptor_1	17:78024094	17	78024094	C	T	0.78	0.35	0.09	4.5E-05
discoidin_domain_receptor_1	18:24180890	18	24180890	G	A	0.87	-0.31	0.08	3.4E-05
discoidin_domain_receptor_1	18:24430032	18	24430032	C	A	0.89	0.42	0.10	4.5E-05
discoidin_domain_receptor_1	18:74233107	18	74233107	A	T	0.85	0.44	0.11	3.8E-05
discoidin_domain_receptor_1	1:213018174	1	213018174	G	A	0.80	-0.30	0.07	5.3E-06
discoidin_domain_receptor_1	1:240137811	1	240137811	C	T	0.68	-0.25	0.06	3.7E-05
discoidin_domain_receptor_1	1:241879743	1	241879743	A	G	0.72	-0.28	0.06	7.5E-06
discoidin_domain_receptor_1	20:3650234	20	3650234	A	G	0.84	-0.41	0.09	1.2E-05
discoidin_domain_receptor_1	2:100624490	2	100624490	T	C	0.94	-0.55	0.13	2.3E-05
discoidin_domain_receptor_1	2:127577208	2	127577208	A	G	0.93	0.43	0.10	2.9E-05
discoidin_domain_receptor_1	2:138293642	2	138293642	G	A	0.88	-0.41	0.10	2.0E-05
discoidin_domain_receptor_1	2:236044977	2	236044977	C	T	0.84	-0.31	0.07	6.4E-06
discoidin_domain_receptor_1	2:65928857	2	65928857	C	A	0.95	0.62	0.14	1.8E-05
discoidin_domain_receptor_1	3:106026316	3	106026316	T	C	0.57	0.22	0.05	2.5E-05
discoidin_domain_receptor_1	3:32184517	3	32184517	A	T	0.65	-0.27	0.06	3.1E-06
discoidin_domain_receptor_1	3:3995771	3	3995771	C	G	0.78	-0.27	0.07	3.8E-05
discoidin_domain_receptor_1	3:71558889	3	71558889	C	T	0.93	0.45	0.10	6.5E-06
discoidin_domain_receptor_1	4:139690326	4	139690326	G	A	0.71	0.28	0.06	2.5E-06
discoidin_domain_receptor_1	4:161716303	4	161716303	G	C	0.76	0.25	0.06	3.4E-05
discoidin_domain_receptor_1	4:180351563	4	180351563	A	G	0.52	-0.25	0.05	1.6E-06
discoidin_domain_receptor_1	4:92084600	4	92084600	A	G	0.61	0.27	0.07	4.1E-05
discoidin_domain_receptor_1	5:130503286	5	130503286	G	A	0.62	-0.23	0.05	1.2E-05
discoidin_domain_receptor_1	5:131380658	5	131380658	C	T	0.65	0.27	0.05	3.7E-07
discoidin_domain_receptor_1	5:161398542	5	161398542	A	G	0.56	-0.23	0.05	8.2E-06
discoidin_domain_receptor_1	5:172156007	5	172156007	G	A	0.80	-0.28	0.07	1.7E-05
discoidin_domain_receptor_1	6:4694899	6	4694899	T	C	0.65	0.22	0.05	3.7E-05
discoidin_domain_receptor_1	7:120136968	7	120136968	C	G	0.85	-0.32	0.07	7.0E-06
discoidin_domain_receptor_1	7:121965266	7	121965266	A	G	0.84	0.28	0.07	3.9E-05
discoidin_domain_receptor_1	8:19480023	8	19480023	T	G	0.94	0.46	0.11	2.7E-05
discoidin_domain_receptor_1	8:23730212	8	23730212	C	G	0.92	-0.48	0.10	3.6E-06
discoidin_domain_receptor_1	8:5531336	8	5531336	G	T	0.95	0.53	0.13	2.3E-05
discoidin_domain_receptor_1	8:81894604	8	81894604	C	A	0.79	-0.26	0.06	4.2E-05

discoidin_domain_receptor_1	9:117803832	9	117803832	A	G	0.80	0.29	0.06	6.2E-06
discoidin_domain_receptor_1	9:118109239	9	118109239	C	T	0.87	0.32	0.08	2.4E-05
discoidin_domain_receptor_1	9:77957243	9	77957243	C	T	0.55	-0.30	0.07	1.3E-05
DKK3	11:82241487	11	82241487	C	T	0.54	0.23	0.05	1.8E-06
DKK3	12:126792793	12	126792793	G	A	0.74	-0.26	0.05	2.9E-06
DKK3	16:25035038	16	25035038	A	G	0.91	-0.48	0.10	3.1E-06
DKK3	16:86267203	16	86267203	G	A	0.91	-0.42	0.09	4.2E-06
DKK3	18:8343115	18	8343115	C	T	0.53	0.23	0.05	2.7E-06
DKK3	3:66824225	3	66824225	T	G	0.83	-0.33	0.07	1.2E-06
DnaJ_homolog	3:133494354	3	133494354	C	T	0.84	0.54	0.07	1.3E-15
ECM1	1:150221934	1	150221934	C	A	0.72	-0.44	0.06	5.0E-13
ECM1	1:150423577	1	150423577	G	A	0.78	-0.63	0.06	3.8E-25
ECM1	1:150456367	1	150456367	A	T	0.79	-0.45	0.06	1.1E-14
ECM1	1:150493925	1	150493925	C	G	0.61	0.89	0.05	2.0E-76
ECM1	1:150535196	1	150535196	C	T	0.92	1.40	0.15	3.3E-21
ECM1	1:150618961	1	150618961	G	T	0.59	0.33	0.05	2.0E-11
Elafin	20:43796772	20	43796772	C	A	0.80	-0.43	0.07	7.7E-11
Endoglin	9:136142185	9	136142185	C	T	0.92	-0.60	0.10	3.8E-10
Endoglin	9:136151806	9	136151806	T	C	0.79	0.47	0.06	3.0E-13
Endothelin_converting_enzyme	15:60178936	15	60178936	G	A	0.91	-0.60	0.12	4.0E-07
Endothelin_converting_enzyme	15:77841603	15	77841603	C	T	0.89	0.40	0.08	3.0E-07
Endothelin_converting_enzyme	3:142600252	3	142600252	A	G	0.75	0.32	0.06	2.1E-07
Endothelin_converting_enzyme	3:142602666	3	142602666	C	T	0.67	-0.40	0.05	1.7E-14
ENTP5	14:74299507	14	74299507	A	T	0.75	0.54	0.06	2.9E-17
ENTP5	14:74313283	14	74313283	C	G	0.81	-0.51	0.08	2.0E-11
ENTP5	14:74467222	14	74467222	G	A	0.93	1.21	0.09	4.5E-42
ENTP5	14:74509976	14	74509976	A	G	0.53	0.40	0.05	2.7E-13
Eotaxin	3:42876764	3	42876764	A	G	0.60	0.36	0.05	9.0E-11
EphA1	7:143097100	7	143097100	G	A	0.93	1.18	0.11	5.8E-25
EPHB2	1:22993335	1	22993335	T	G	0.51	0.26	0.05	4.0E-07
EPHB2	1:23061551	1	23061551	G	A	0.92	0.59	0.10	1.4E-09
ER	3:186395113	3	186395113	A	G	0.80	-0.46	0.07	4.2E-11
ER	3:186395436	3	186395436	C	T	0.77	0.55	0.06	4.4E-21
Esterase_D	13:47332180	13	47332180	A	G	0.67	0.30	0.06	8.7E-08
Esterase_D	13:47342773	13	47342773	A	T	0.90	1.08	0.08	3.0E-40
Esterase_D	13:47401335	13	47401335	A	G	0.73	0.46	0.06	1.8E-15
ETHE1	1:42350417	1	42350417	A	G	0.83	0.36	0.07	1.9E-07
ETHE1	3:186381262	3	186381262	T	C	0.79	-0.38	0.06	6.0E-09
Factor_B	1:196679455	1	196679455	A	C	0.58	-0.26	0.05	4.2E-07
Factor_B	6:31863168	6	31863168	T	C	0.96	0.81	0.13	6.0E-10
Factor_B	6:31919917	6	31919917	T	C	0.91	-0.68	0.08	8.6E-16
Factor_B	6:32156908	6	32156908	G	A	0.76	-0.31	0.06	1.2E-07

Factor_H	1:196545875	1	196545875	A	T	0.85	-0.77	0.10	7.2E-16
Factor_H	1:196679455	1	196679455	A	C	0.58	-0.61	0.05	2.3E-36
Factor_H	1:196715667	1	196715667	A	T	0.83	0.63	0.07	1.3E-17
Factor_H	1:196951459	1	196951459	G	A	0.83	-0.40	0.07	1.0E-08
Factor_I	4:110659067	4	110659067	C	T	0.52	0.34	0.06	2.2E-09
FCG2A_B	10:21004362	10	21004362	G	A	0.64	-0.23	0.05	1.6E-05
FCG2A_B	10:56388664	10	56388664	G	T	0.80	0.35	0.08	2.1E-05
FCG2A_B	10:91932891	10	91932891	A	G	0.70	0.31	0.07	8.5E-06
FCG2A_B	11:103573786	11	103573786	T	C	0.53	0.22	0.05	1.0E-05
FCG2A_B	11:117430389	11	117430389	C	G	0.92	-0.44	0.09	2.8E-06
FCG2A_B	12:19176182	12	19176182	A	G	0.66	0.24	0.06	1.7E-05
FCG2A_B	12:40323922	12	40323922	G	A	0.74	0.26	0.06	1.8E-05
FCG2A_B	14:47546276	14	47546276	T	G	0.81	-0.28	0.07	4.0E-05
FCG2A_B	14:56817408	14	56817408	A	G	0.50	-0.22	0.05	1.5E-05
FCG2A_B	14:65246011	14	65246011	A	G	0.95	-0.47	0.11	2.2E-05
FCG2A_B	15:34946600	15	34946600	A	G	0.93	0.45	0.11	2.9E-05
FCG2A_B	15:57928978	15	57928978	T	C	0.84	0.29	0.07	4.9E-05
FCG2A_B	16:73333256	16	73333256	G	A	0.70	0.24	0.06	3.4E-05
FCG2A_B	17:64548659	17	64548659	G	A	0.93	-0.41	0.10	3.2E-05
FCG2A_B	17:74942155	17	74942155	G	T	0.74	0.32	0.08	4.1E-05
FCG2A_B	18:11322500	18	11322500	T	C	0.84	0.36	0.07	7.7E-07
FCG2A_B	18:41224167	18	41224167	G	C	0.68	-0.25	0.05	3.1E-06
FCG2A_B	1:161132777	1	161132777	G	A	0.94	0.57	0.13	1.0E-05
FCG2A_B	1:161406056	1	161406056	T	C	0.74	0.60	0.07	2.2E-16
FCG2A_B	1:161455521	1	161455521	C	T	0.81	0.60	0.09	1.2E-11
FCG2A_B	1:161473125	1	161473125	G	C	0.90	0.56	0.09	2.5E-09
FCG2A_B	1:161479745	1	161479745	G	A	0.50	0.86	0.04	2.3E-94
FCG2A_B	1:161641384	1	161641384	G	A	0.82	-1.72	0.05	6.1E-230
FCG2A_B	1:161653737	1	161653737	T	C	0.90	0.37	0.09	3.7E-05
FCG2A_B	1:161664354	1	161664354	G	A	0.57	0.77	0.06	3.6E-40
FCG2A_B	1:161675580	1	161675580	G	A	0.60	-0.50	0.06	1.1E-18
FCG2A_B	1:161678254	1	161678254	G	A	0.54	0.22	0.05	1.7E-05
FCG2A_B	1:161710795	1	161710795	G	A	0.94	-0.89	0.10	6.8E-19
FCG2A_B	1:161720430	1	161720430	G	C	0.70	0.37	0.06	1.6E-10
FCG2A_B	1:161738238	1	161738238	A	C	0.76	0.32	0.07	1.2E-05
FCG2A_B	1:161843259	1	161843259	A	G	0.93	-0.49	0.12	4.2E-05
FCG2A_B	1:161955505	1	161955505	A	T	0.77	-0.33	0.07	5.8E-07
FCG2A_B	1:97029325	1	97029325	A	G	0.58	-0.23	0.05	1.7E-05
FCG2A_B	20:16650592	20	16650592	G	A	0.94	0.48	0.11	1.8E-05
FCG2A_B	20:46302940	20	46302940	T	C	0.47	0.23	0.05	3.0E-05
FCG2A_B	2:150463775	2	150463775	C	T	0.88	-0.33	0.08	2.8E-05
FCG2A_B	3:102561027	3	102561027	C	T	0.89	-0.35	0.09	4.6E-05

FCG2A_B	3:72033169	3	72033169	C	T	0.53	-0.23	0.05	2.1E-05
FCG2A_B	3:86163466	3	86163466	T	G	0.92	0.44	0.09	2.6E-06
FCG2A_B	4:165680942	4	165680942	A	G	0.54	0.27	0.05	9.9E-08
FCG2A_B	4:166187493	4	166187493	A	T	0.94	0.54	0.11	1.3E-06
FCG2A_B	4:3262323	4	3262323	T	C	0.62	-0.23	0.05	1.6E-05
FCG2A_B	4:3411110	4	3411110	A	G	0.77	0.25	0.06	4.2E-05
FCG2A_B	4:54555201	4	54555201	T	C	0.52	-0.28	0.06	1.6E-05
FCG2A_B	5:15696394	5	15696394	C	T	0.95	-0.49	0.11	1.6E-05
FCG2A_B	5:165472696	5	165472696	T	G	0.96	-0.48	0.11	2.9E-05
FCG2A_B	5:165625020	5	165625020	C	T	0.90	-0.47	0.11	6.7E-06
FCG2A_B	6:125479208	6	125479208	A	G	0.57	0.25	0.05	8.5E-07
FCG2A_B	6:23539602	6	23539602	A	C	0.90	0.46	0.09	5.3E-07
FCG2A_B	8:39498859	8	39498859	G	C	0.63	0.23	0.05	1.8E-05
FCG2A_B	9:82929577	9	82929577	G	A	0.86	0.34	0.08	1.9E-05
FCG2A_B	9:86150415	9	86150415	C	T	0.71	0.23	0.06	3.8E-05
FCG3B	1:161464493	1	161464493	T	C	0.78	0.33	0.06	3.9E-08
FCN2	9:137775084	9	137775084	A	G	0.61	0.59	0.05	7.4E-34
FCN2	9:137778887	9	137778887	T	G	0.89	0.82	0.07	1.5E-28
FCN2	9:137791343	9	137791343	C	T	0.56	-0.32	0.05	6.1E-10
FCRL3	10:36710823	10	36710823	G	A	0.96	-0.71	0.13	1.6E-08
FCRL3	1:157686337	1	157686337	G	T	0.56	-0.33	0.05	2.1E-10
Ferritin	16:72042825	16	72042825	G	T	0.75	0.37	0.06	4.5E-10
Ferritin	16:72114002	16	72114002	C	T	0.82	-0.52	0.07	1.1E-15
Ferritin	16:72144174	16	72144174	T	C	0.81	-0.44	0.07	2.5E-10
Ferritin	16:72154509	16	72154509	C	T	0.70	0.35	0.05	1.0E-10
Fibronectin	2:216300185	2	216300185	T	C	0.74	0.56	0.06	1.1E-22
Ficolin_3	1:27710876	1	27710876	T	A	0.89	0.67	0.08	1.6E-15
FN1_3	2:216300482	2	216300482	A	T	0.74	0.52	0.06	2.7E-19
FN1_4	16:26638600	16	26638600	A	G	0.66	-0.29	0.06	2.2E-07
FN1_4	2:216300185	2	216300185	T	C	0.74	0.31	0.06	3.0E-07
Fucosyltransferase_3	19:5837285	19	5837285	T	C	0.60	-1.28	0.07	2.4E-67
Fucosyltransferase_3	19:5840926	19	5840926	C	A	0.93	0.83	0.11	2.5E-13
Fucosyltransferase_3	19:5844649	19	5844649	A	G	0.80	0.96	0.05	1.6E-73
FUT5	19:5823903	19	5823903	G	A	0.92	0.74	0.09	1.4E-16
FUT5	19:5830302	19	5830302	G	A	0.68	0.46	0.05	9.3E-21
FUT5	19:5841356	19	5841356	G	T	0.94	0.76	0.10	2.3E-13
Galectin_3	12:43417914	12	43417914	C	A	0.90	-0.43	0.08	2.9E-08
Galectin_3	14:55352041	14	55352041	T	C	0.81	0.36	0.06	4.9E-10
Galectin_3	14:55581538	14	55581538	A	G	0.92	0.74	0.08	1.2E-18
Galectin_3	14:55587552	14	55587552	C	T	0.62	0.32	0.05	8.5E-12
GCP_2	3:121411876	3	121411876	A	C	0.62	0.26	0.05	3.7E-07
GCP_2	4:74673564	4	74673564	T	C	0.61	-0.49	0.05	1.7E-23

GCP_2	4:74723372	4	74723372	T	C	0.85	-0.38	0.07	5.9E-08
G_CSF	19:45448465	19	45448465	T	G	0.65	-0.67	0.08	3.9E-17
GFRa_1	10:118027584	10	118027584	T	C	0.76	-0.29	0.06	8.2E-07
GFRa_1	16:86437318	16	86437318	C	A	0.70	-0.27	0.06	2.6E-06
GFRa_1	3:7956472	3	7956472	C	T	0.90	-0.41	0.08	1.4E-07
GFRa_1	4:175743525	4	175743525	A	G	0.63	0.25	0.05	2.9E-06
GFRa_2	8:21473805	8	21473805	T	C	0.57	0.27	0.05	3.1E-07
GFRa_2	8:21502545	8	21502545	T	G	0.58	-0.30	0.06	1.2E-07
GFRa_2	8:21525978	8	21525978	C	G	0.58	-0.54	0.05	5.5E-23
gp130__soluble	5:55248943	5	55248943	C	A	0.88	-0.73	0.08	3.4E-19
gp130__soluble	5:55294328	5	55294328	C	A	0.56	-0.44	0.07	1.3E-09
GPC5	13:92422946	13	92422946	G	T	0.73	0.72	0.06	1.7E-37
GPC5	13:92526445	13	92526445	T	A	0.59	-0.30	0.05	5.6E-09
GPC5	13:92681567	13	92681567	T	C	0.73	0.45	0.06	5.7E-13
GPNUMB	7:23211352	7	23211352	G	A	0.62	0.31	0.05	1.7E-09
GPVI	19:55519137	19	55519137	A	T	0.87	-0.46	0.08	2.0E-09
GPVI	19:55519248	19	55519248	C	T	0.58	-0.36	0.06	2.5E-09
GPVI	19:55529100	19	55529100	C	T	0.59	0.46	0.06	6.4E-17
GPVI	19:55539072	19	55539072	G	T	0.85	0.96	0.07	1.4E-48
GPVI	19:55552217	19	55552217	A	G	0.52	0.36	0.05	3.3E-12
GPVI	19:55564851	19	55564851	G	A	0.89	-0.46	0.09	8.2E-08
Granulysin	2:85795361	2	85795361	G	C	0.95	-0.60	0.10	1.3E-09
Granulysin	2:85906280	2	85906280	C	T	0.95	-0.84	0.12	5.3E-13
Granulysin	2:85910799	2	85910799	C	T	0.86	-0.72	0.08	1.4E-19
Granulysin	2:85920329	2	85920329	T	C	0.63	0.60	0.05	3.8E-37
Granulysin	2:85933003	2	85933003	C	T	0.78	-0.88	0.05	1.6E-65
Granulysin	2:85946999	2	85946999	G	T	0.80	-0.39	0.06	2.1E-10
GRN	1:109807099	1	109807099	G	A	0.55	-0.48	0.06	7.3E-15
GRN	1:109817192	1	109817192	A	G	0.78	0.84	0.05	7.4E-59
GRN	1:109830993	1	109830993	C	T	0.93	0.61	0.09	1.4E-11
Gro_a	4:74727832	4	74727832	G	A	0.94	-1.06	0.13	1.4E-15
Gro_a	4:74740169	4	74740169	C	G	0.76	-0.65	0.05	1.1E-33
HAI_1	1:39297734	1	39297734	T	C	0.53	0.46	0.06	6.2E-17
Haptoglobin__Mixed_Type	16:70724001	16	70724001	G	T	0.93	-0.84	0.14	3.7E-09
Haptoglobin__Mixed_Type	16:71284108	16	71284108	T	C	0.94	-0.69	0.10	3.3E-11
Haptoglobin__Mixed_Type	16:71347595	16	71347595	C	T	0.74	-0.41	0.06	1.7E-12
Haptoglobin__Mixed_Type	16:71635836	16	71635836	A	C	0.51	-0.47	0.05	3.0E-20
Haptoglobin__Mixed_Type	16:71697015	16	71697015	T	G	0.95	-0.86	0.13	3.1E-11
Haptoglobin__Mixed_Type	16:71877000	16	71877000	C	T	0.89	0.55	0.09	2.5E-10
Haptoglobin__Mixed_Type	16:72042825	16	72042825	G	T	0.75	0.44	0.06	2.4E-14
Haptoglobin__Mixed_Type	16:72052348	16	72052348	A	G	0.78	0.68	0.06	1.8E-30
Haptoglobin__Mixed_Type	16:72077598	16	72077598	G	C	0.87	0.54	0.08	3.6E-12

Haptoglobin__Mixed_Type	16:72114002	16	72114002	C	T	0.82	-1.05	0.06	3.1E-75
Haptoglobin__Mixed_Type	16:72144174	16	72144174	T	C	0.81	-0.77	0.07	4.0E-32
Haptoglobin__Mixed_Type	16:72154509	16	72154509	C	T	0.70	0.57	0.05	9.0E-28
Haptoglobin__Mixed_Type	16:72252752	16	72252752	A	G	0.64	0.47	0.06	1.5E-17
Haptoglobin__Mixed_Type	16:72268928	16	72268928	C	T	0.81	0.41	0.06	5.7E-11
Haptoglobin__Mixed_Type	16:72294623	16	72294623	G	C	0.94	-1.01	0.13	6.5E-15
Haptoglobin__Mixed_Type	16:72500483	16	72500483	T	C	0.88	0.54	0.08	3.8E-11
HCC_1	17:34317595	17	34317595	G	A	0.88	0.55	0.09	1.6E-09
HCC_1	17:34335694	17	34335694	C	T	0.88	1.01	0.07	6.3E-47
HCC_4	17:34303312	17	34303312	T	C	0.94	1.65	0.11	4.6E-55
HCC_4	17:34317595	17	34317595	G	A	0.88	0.64	0.09	4.7E-13
HCC_4	17:34321277	17	34321277	C	T	0.89	0.65	0.10	1.0E-11
HCC_4	7:47704636	7	47704636	T	C	0.62	-0.27	0.06	2.1E-06
HCG	19:49458262	19	49458262	T	C	0.85	-0.43	0.06	3.7E-12
HCG	19:49517925	19	49517925	C	T	0.91	-1.10	0.07	3.0E-51
HCG	19:49519230	19	49519230	T	G	0.51	0.27	0.04	1.3E-09
Hemopexin	1:196102490	1	196102490	G	A	0.51	-0.27	0.05	1.5E-07
Hemopexin	1:196248826	1	196248826	G	A	0.72	0.55	0.06	1.8E-20
Hemopexin	1:196672473	1	196672473	T	C	0.63	-0.33	0.05	1.3E-09
Hemopexin	1:196886223	1	196886223	C	T	0.86	-1.35	0.08	1.5E-69
Hemopexin	1:196887457	1	196887457	G	A	0.89	1.02	0.07	2.2E-42
Hemopexin	1:196920299	1	196920299	T	A	0.75	0.88	0.06	3.0E-56
Hemopexin	1:197101621	1	197101621	C	T	0.48	-0.46	0.05	1.1E-19
Hemopexin	1:197130983	1	197130983	A	T	0.90	-0.69	0.12	2.3E-08
Hemopexin	1:197197708	1	197197708	A	G	0.81	-0.37	0.07	2.0E-08
Hemopexin	1:197308081	1	197308081	G	T	0.95	-0.81	0.13	8.0E-10
Hemopexin	1:197799364	1	197799364	C	T	0.92	-0.52	0.10	3.6E-07
Hemopexin	1:197915297	1	197915297	G	T	0.82	-0.41	0.07	9.0E-10
Heparin_cofactor_II	16:72114002	16	72114002	C	T	0.82	-0.49	0.06	4.6E-14
HGFA	4:3048207	4	3048207	T	C	0.50	0.30	0.05	4.6E-09
HGFA	4:3271982	4	3271982	G	C	0.76	0.45	0.06	1.0E-12
HGFA	4:3434885	4	3434885	G	T	0.57	0.55	0.07	3.0E-14
HGFA	4:3439604	4	3439604	G	A	0.79	-0.68	0.11	1.9E-10
HGFA	4:3447156	4	3447156	C	T	0.75	-0.77	0.09	8.2E-19
HGFA	4:3449781	4	3449781	G	A	0.92	1.24	0.13	1.3E-21
HGFA	4:3451109	4	3451109	G	A	0.90	1.92	0.10	4.0E-88
HGFA	4:3464667	4	3464667	C	A	0.65	0.35	0.06	1.5E-09
HGFA	4:3478851	4	3478851	G	C	0.59	1.16	0.07	1.2E-57
HGFA	4:3485786	4	3485786	G	A	0.56	0.56	0.09	4.9E-11
HGFA	4:3493014	4	3493014	G	A	0.82	0.91	0.07	5.7E-34
HRG	3:186390627	3	186390627	C	T	0.65	-0.78	0.05	7.9E-66
HRG	3:186440483	3	186440483	C	T	0.73	0.32	0.06	4.4E-08

IDUA	12:102091379	12	102091379	G	C	0.60	0.39	0.06	3.9E-12
IDUA	4:875671	4	875671	T	C	0.82	0.50	0.07	1.2E-12
IGFBP_3	7:46010100	7	46010100	C	G	0.54	-0.35	0.05	2.6E-13
IGFBP_7	4:57939654	4	57939654	G	A	0.81	-0.38	0.06	1.1E-09
IGF_II_receptor	6:160432331	6	160432331	T	A	0.83	-0.38	0.07	5.7E-08
IGF_II_receptor	6:160469099	6	160469099	T	A	0.51	-0.46	0.05	6.5E-20
IGF_II_receptor	6:160494409	6	160494409	G	A	0.88	1.12	0.07	1.2E-56
IGF_II_receptor	6:160503894	6	160503894	C	T	0.85	-0.90	0.07	5.5E-43
IGF_II_receptor	6:160552254	6	160552254	G	T	0.64	0.44	0.05	7.1E-17
IGF_II_receptor	6:160552803	6	160552803	C	T	0.93	-0.55	0.09	2.5E-09
IGF_II_receptor	6:160570083	6	160570083	C	T	0.65	0.58	0.05	3.6E-33
IL_10_Rb	21:34640788	21	34640788	A	G	0.75	0.27	0.06	3.4E-06
IL_10_Rb	6:48673386	6	48673386	G	A	0.91	-0.39	0.08	3.3E-06
IL_10_Rb	7:79335537	7	79335537	A	G	0.51	-0.29	0.06	2.8E-06
IL_10_Rb	7:85005259	7	85005259	G	A	0.70	-0.27	0.06	2.8E-06
IL_11_RA	9:34684612	9	34684612	G	T	0.94	-0.71	0.12	1.1E-09
IL_12_Rb1	19:18157591	19	18157591	C	G	0.90	0.61	0.10	3.0E-09
IL_12_Rb1	19:18180451	19	18180451	A	G	0.69	0.69	0.05	8.6E-47
IL_12_Rb1	19:18214521	19	18214521	T	C	0.73	0.46	0.07	2.0E-10
IL_15_Ra	10:6005674	10	6005674	A	G	0.78	0.37	0.07	2.1E-08
IL_15_Ra	9:85389912	9	85389912	A	G	0.93	0.62	0.12	9.5E-08
IL_17B_R	2:60073547	2	60073547	A	G	0.89	0.40	0.08	1.7E-07
IL_17B_R	3:53811341	3	53811341	G	A	0.74	-0.36	0.06	3.1E-10
IL_17B_R	3:53877149	3	53877149	T	G	0.62	-0.43	0.05	1.3E-17
IL_17B_R	4:161340537	4	161340537	G	A	0.93	-0.55	0.10	1.9E-08
IL_17E	11:119950934	11	119950934	T	C	0.79	-0.41	0.06	2.7E-10
IL_17E	11:120042082	11	120042082	G	A	0.94	-0.87	0.11	1.6E-16
IL_17E	11:120099679	11	120099679	A	G	0.80	-0.85	0.06	8.2E-46
IL_17E	11:120122394	11	120122394	A	G	0.93	-0.51	0.10	1.7E-07
IL_17E	11:120135501	11	120135501	C	A	0.75	-0.41	0.06	2.2E-12
IL_17_RD	3:57085010	3	57085010	C	T	0.64	-0.33	0.05	3.5E-10
IL_17_RD	3:57130981	3	57130981	T	G	0.84	-0.76	0.06	4.0E-36
IL_17_RD	3:57158196	3	57158196	C	T	0.56	0.34	0.05	6.3E-11
IL_17_RD	3:57690473	3	57690473	T	G	0.75	-0.36	0.06	4.6E-09
IL_17_sR	14:21791000	14	21791000	A	T	0.75	0.28	0.06	1.3E-06
IL_17_sR	15:57855222	15	57855222	T	C	0.80	0.34	0.07	2.3E-06
IL_17_sR	17:17431671	17	17431671	G	C	0.92	0.55	0.10	5.7E-08
IL_17_sR	22:17587659	22	17587659	G	A	0.89	0.76	0.08	5.7E-20
IL_17_sR	22:17591823	22	17591823	C	G	0.85	0.84	0.06	3.5E-40
IL_17_sR	22:17595915	22	17595915	C	A	0.77	-0.99	0.05	3.2E-77
IL_17_sR	22:17615213	22	17615213	A	G	0.62	0.40	0.06	7.1E-13
IL_17_sR	22:17616715	22	17616715	C	T	0.64	0.31	0.06	1.7E-08

IL_17_sR	22:17633837	22	17633837	C	T	0.94	0.63	0.12	5.7E-08
IL_17_sR	22:17658341	22	17658341	A	G	0.51	-0.27	0.05	5.7E-07
IL_18_Ra	2:102800046	2	102800046	G	A	0.81	-0.46	0.07	2.4E-12
IL_18_Ra	2:102860411	2	102860411	C	T	0.65	-0.30	0.05	3.3E-08
IL_18_Ra	2:102966310	2	102966310	G	A	0.71	0.31	0.05	9.4E-09
IL_18_Ra	2:102982276	2	102982276	C	G	0.89	0.57	0.08	1.6E-11
IL_18_Ra	2:102989734	2	102989734	G	A	0.75	-0.85	0.05	1.8E-57
IL_18_Ra	2:103082906	2	103082906	G	A	0.71	0.52	0.06	7.5E-21
IL_18_Ra	2:103207806	2	103207806	T	C	0.57	0.33	0.05	2.2E-10
IL_18_Ra	2:103212037	2	103212037	T	C	0.92	-0.63	0.11	3.2E-09
IL_18_Ra	2:103235516	2	103235516	A	G	0.94	-0.63	0.10	1.1E-09
IL_18_Rb	2:103087641	2	103087641	C	T	0.70	-0.43	0.06	9.6E-15
IL_19	14:80371582	14	80371582	T	A	0.61	-0.25	0.05	3.8E-06
IL_19	2:3645429	2	3645429	C	T	0.74	0.29	0.06	6.6E-07
IL_19	5:122732236	5	122732236	C	T	0.71	-0.29	0.06	2.8E-07
IL_19	7:12850931	7	12850931	C	G	0.59	-0.24	0.05	2.8E-06
IL_1a	13:46655501	13	46655501	C	T	0.73	0.28	0.06	3.9E-07
IL_1a	1:93487836	1	93487836	C	T	0.80	-0.34	0.07	1.9E-07
IL_1_R4	2:102750428	2	102750428	G	T	0.87	0.47	0.07	2.7E-10
IL_1_R4	2:102840667	2	102840667	C	T	0.87	0.41	0.07	2.8E-09
IL_1_R4	2:102907630	2	102907630	C	T	0.66	-0.33	0.05	2.1E-10
IL_1_R4	2:102927649	2	102927649	A	G	0.93	-0.71	0.09	6.7E-15
IL_1_R4	2:102929865	2	102929865	G	A	0.89	0.63	0.08	9.0E-15
IL_1_R4	2:102941338	2	102941338	C	T	0.63	-0.74	0.04	6.4E-65
IL_1_R4	2:102966310	2	102966310	G	A	0.71	-0.33	0.05	3.9E-11
IL_1_R4	2:103092503	2	103092503	C	T	0.76	0.56	0.06	1.8E-23
IL_1_R4	2:103207806	2	103207806	T	C	0.57	0.28	0.05	6.9E-09
IL_1_R4	2:103215410	2	103215410	C	T	0.86	-0.48	0.07	1.8E-12
IL_1_R4	2:103245025	2	103245025	G	A	0.84	-0.40	0.06	1.5E-10
IL_1_R_AcP	10:133152836	10	133152836	A	T	0.85	0.38	0.08	4.6E-06
IL_1_R_AcP	13:106079978	13	106079978	C	G	0.85	-0.43	0.08	4.3E-08
IL_1_R_AcP	18:59346842	18	59346842	C	T	0.89	0.39	0.08	2.1E-06
IL_1_R_AcP	3:190314468	3	190314468	C	T	0.53	0.35	0.05	8.7E-13
IL_1_R_AcP	3:190347681	3	190347681	T	C	0.86	-1.34	0.05	4.3E-159
IL_1_R_AcP	3:190357571	3	190357571	A	G	0.84	0.57	0.07	1.3E-15
IL_1_R_AcP	3:190358776	3	190358776	C	T	0.94	-0.97	0.10	7.4E-21
IL_1_R_AcP	3:55189726	3	55189726	A	G	0.56	0.31	0.06	1.7E-06
IL_1_R_AcP	6:72497090	6	72497090	T	C	0.57	0.24	0.05	1.6E-06
IL_1Rrp2	2:102802255	2	102802255	C	T	0.72	-0.30	0.06	7.3E-08
IL_1Rrp2	2:102805218	2	102805218	T	G	0.93	0.58	0.10	3.3E-09
IL_1Rrp2	2:102816695	2	102816695	T	C	0.60	-0.30	0.05	6.2E-09
IL_1Rrp2	6:31081746	6	31081746	C	T	0.81	0.32	0.06	2.9E-07

IL_1_sRI	2:113832312	2	113832312	C	T	0.60	0.29	0.05	1.4E-08
IL_23_R	4:80833795	4	80833795	C	T	0.57	-0.30	0.05	5.8E-09
IL_23_R	9:83055876	9	83055876	G	A	0.69	0.28	0.06	2.7E-07
IL_27	16:28593347	16	28593347	T	C	0.66	0.27	0.05	2.6E-07
IL_5	10:15389209	10	15389209	T	C	0.56	0.26	0.05	1.1E-06
IL_5	11:101940692	11	101940692	T	G	0.94	0.49	0.11	3.6E-06
IL_5	17:26694861	17	26694861	G	A	0.49	0.27	0.06	2.0E-06
IL_5	7:7856297	7	7856297	C	G	0.90	-0.42	0.09	3.1E-06
IL_5_Ra	3:3155047	3	3155047	T	G	0.83	-0.42	0.07	3.7E-09
IL_6_sRa	1:154364317	1	154364317	G	T	0.83	-0.50	0.07	9.8E-13
IL_6_sRa	1:154414296	1	154414296	C	T	0.59	-1.26	0.03	0.0E+00
IL_6_sRa	1:154435346	1	154435346	T	C	0.77	0.77	0.06	1.8E-41
IL_6_sRa	1:154505106	1	154505106	C	T	0.83	0.67	0.08	2.7E-19
IL_6_sRa	1:154556425	1	154556425	G	A	0.51	-0.32	0.05	1.8E-10
IL_6_sRa	1:154622234	1	154622234	T	C	0.83	0.41	0.07	3.7E-09
IL_6_sRa	1:154630498	1	154630498	T	C	0.72	-0.52	0.05	2.8E-21
IL_6_sRa	1:154633513	1	154633513	G	T	0.77	0.53	0.08	2.0E-12
ILT_2	19:55103603	19	55103603	T	C	0.83	1.02	0.08	1.8E-38
ILT_2	19:55109883	19	55109883	A	C	0.76	-0.55	0.08	1.6E-12
ILT_2	19:55118117	19	55118117	G	A	0.94	-1.07	0.13	4.5E-17
ILT_2	19:55147445	19	55147445	G	C	0.95	2.40	0.12	4.0E-82
ILT_4	19:54793830	19	54793830	G	C	0.81	1.52	0.06	1.3E-142
IR	9:136049780	9	136049780	A	G	0.73	0.30	0.06	9.2E-08
IR	9:136084941	9	136084941	T	C	0.56	-0.37	0.07	8.0E-08
IR	9:136139297	9	136139297	C	T	0.60	-0.30	0.05	1.6E-08
IR	9:136151806	9	136151806	T	C	0.79	0.77	0.06	2.3E-35
IR	9:136155359	9	136155359	G	A	0.62	-0.38	0.07	2.4E-08
IR	9:136163447	9	136163447	T	C	0.77	-0.46	0.08	4.3E-09
IR	9:136164593	9	136164593	T	G	0.90	0.47	0.09	1.0E-07
JAG1	4:72618334	4	72618334	C	A	0.57	0.25	0.05	3.3E-07
JAG1	9:136151806	9	136151806	T	C	0.79	0.37	0.07	1.1E-08
Kallikrein_11	19:51514622	19	51514622	C	T	0.61	-0.34	0.06	1.9E-09
Kallikrein_11	19:51523277	19	51523277	A	G	0.72	0.77	0.07	2.5E-31
Kallikrein_11	19:51527364	19	51527364	G	A	0.91	1.34	0.08	5.2E-67
kallikrein_12	19:51535130	19	51535130	G	A	0.58	-0.79	0.07	6.4E-27
kallikrein_12	19:51538154	19	51538154	G	T	0.49	0.30	0.05	2.5E-08
Kallikrein_7	19:51485194	19	51485194	T	C	0.90	0.60	0.09	3.2E-12
Kallistatin	14:94987551	14	94987551	T	A	0.77	-0.36	0.06	1.2E-08
Kallistatin	14:95024482	14	95024482	C	A	0.77	0.54	0.06	1.8E-19
Kallistatin	14:95035374	14	95035374	G	A	0.77	-0.65	0.06	2.5E-29
Kallistatin	1:38984339	1	38984339	C	T	0.74	-0.32	0.06	2.9E-08
KI2L4	19:55378490	19	55378490	A	G	0.57	0.36	0.05	9.7E-13

KI2L4	1:224423738	1	224423738	A	G	0.92	0.98	0.16	3.0E-09
Kininogen__HMW	3:186438648	3	186438648	G	A	0.64	0.64	0.05	6.0E-35
Kininogen__HMW	3:186442544	3	186442544	G	C	0.59	-0.32	0.05	8.0E-10
Kininogen__HMW	3:186445052	3	186445052	T	G	0.89	1.37	0.07	7.4E-81
Kininogen__HMW	3:186464107	3	186464107	C	T	0.74	-0.41	0.07	2.7E-09
Kininogen__HMW	3:186466858	3	186466858	A	G	0.65	0.43	0.06	8.4E-15
KYNU	2:143808067	2	143808067	G	A	0.82	0.95	0.06	2.8E-50
Layilin	11:111384426	11	111384426	T	G	0.86	-0.41	0.08	1.6E-07
Layilin	11:111425658	11	111425658	A	C	0.61	0.28	0.05	3.4E-08
Layilin	11:111661455	11	111661455	G	C	0.60	-0.26	0.05	3.4E-07
Layilin	1:231186593	1	231186593	G	A	0.89	0.43	0.08	2.4E-07
LCMT1	3:186450863	3	186450863	T	C	0.90	-0.56	0.09	5.7E-10
Luteinizing_hormone	19:49458262	19	49458262	T	C	0.85	0.39	0.06	2.5E-11
Luteinizing_hormone	19:49504458	19	49504458	G	A	0.92	0.83	0.07	6.0E-32
LY9	14:70498141	14	70498141	G	A	0.85	-0.36	0.07	3.3E-07
LY9	1:160762784	1	160762784	T	G	0.80	-0.33	0.06	1.1E-07
Lysozyme	12:69655167	12	69655167	G	A	0.71	-0.46	0.05	4.8E-18
Lysozyme	12:69732105	12	69732105	T	C	0.52	0.71	0.05	7.8E-54
Lysozyme	12:69744014	12	69744014	C	A	0.94	-1.21	0.10	2.3E-35
Lysozyme	12:69827409	12	69827409	G	C	0.89	-0.47	0.08	1.4E-08
Lysozyme	12:70025971	12	70025971	C	T	0.74	0.33	0.06	3.1E-08
MAPKAPK3	13:46536291	13	46536291	A	G	0.94	-1.54	0.17	2.8E-20
MAPKAPK3	13:46582743	13	46582743	T	A	0.94	0.77	0.15	1.9E-07
MAPKAPK3	13:46626461	13	46626461	G	T	0.71	0.54	0.06	9.1E-22
MAPKAPK3	13:46627677	13	46627677	C	T	0.94	-1.39	0.12	2.3E-31
MAPKAPK3	13:46629944	13	46629944	G	A	0.69	-1.26	0.03	0.0E+00
MAPKAPK3	13:46670710	13	46670710	C	T	0.66	0.82	0.06	1.4E-48
MAPKAPK3	13:46706598	13	46706598	C	A	0.56	0.43	0.05	3.8E-18
MAPKAPK3	13:46708291	13	46708291	C	T	0.90	-0.44	0.08	2.2E-08
MAPKAPK3	13:46711447	13	46711447	C	T	0.76	0.32	0.06	6.8E-08
MAPKAPK3	13:46747184	13	46747184	A	G	0.75	-0.44	0.07	2.4E-09
MASP3	1:161217024	1	161217024	G	A	0.94	0.66	0.11	2.1E-09
MASP3	2:180729601	2	180729601	T	G	0.64	-0.31	0.05	6.5E-09
MASP3	6:158521159	6	158521159	G	A	0.87	-0.48	0.09	4.6E-08
MBL	10:48577553	10	48577553	T	A	0.81	0.33	0.06	5.6E-07
MBL	10:54479518	10	54479518	C	T	0.93	0.50	0.11	1.9E-06
MBL	10:54495617	10	54495617	G	T	0.85	0.82	0.08	1.1E-25
MBL	10:54526206	10	54526206	T	C	0.59	0.85	0.04	9.8E-95
MBL	10:54526762	10	54526762	T	C	0.93	-1.10	0.14	5.2E-15
MBL	10:54530636	10	54530636	G	A	0.56	0.54	0.05	3.3E-32
MBL	10:54531242	10	54531242	G	A	0.94	-1.01	0.15	4.0E-11
MBL	10:54547088	10	54547088	G	A	0.74	0.51	0.05	6.1E-23

MBL	10:54563060	10	54563060	G	T	0.68	-0.25	0.06	4.6E-06
MBL	10:54601445	10	54601445	A	T	0.73	-0.36	0.06	1.6E-08
MBL	10:54645437	10	54645437	T	G	0.51	-0.46	0.05	1.0E-21
MBL	15:73331183	15	73331183	G	T	0.71	-0.28	0.05	2.2E-07
MBL	5:56279319	5	56279319	C	T	0.92	0.74	0.16	2.1E-06
MBL	9:136146077	9	136146077	T	G	0.68	-0.28	0.05	2.3E-07
MCP_3	16:82644050	16	82644050	G	A	0.74	-0.29	0.06	4.8E-06
MCP_3	17:32505821	17	32505821	G	A	0.80	-0.41	0.09	3.5E-06
MCP_3	17:32559642	17	32559642	T	C	0.56	0.32	0.05	3.3E-10
MCP_3	17:32634541	17	32634541	A	G	0.60	-0.26	0.05	1.3E-06
MCP_3	17:32647544	17	32647544	A	G	0.84	0.72	0.06	4.6E-30
MCP_3	19:1580334	19	1580334	T	C	0.80	0.34	0.07	2.1E-06
MCP_3	22:39568995	22	39568995	C	T	0.93	0.62	0.12	1.6E-07
MCP_3	2:220156531	2	220156531	A	G	0.81	-0.32	0.07	2.5E-06
Mesothelin	10:110634573	10	110634573	C	T	0.92	-0.40	0.09	2.4E-05
Mesothelin	10:16519763	10	16519763	A	G	0.64	0.26	0.05	1.4E-06
Mesothelin	10:96823016	10	96823016	G	A	0.77	-0.25	0.06	2.0E-05
Mesothelin	12:87747907	12	87747907	C	A	0.89	-0.35	0.08	5.5E-06
Mesothelin	15:101930816	15	101930816	A	G	0.67	-0.30	0.07	5.4E-06
Mesothelin	16:83825330	16	83825330	C	A	0.77	0.28	0.06	1.4E-05
Mesothelin	17:50294106	17	50294106	T	C	0.59	0.23	0.05	1.9E-05
Mesothelin	1:72233707	1	72233707	A	G	0.92	-0.41	0.10	2.7E-05
Mesothelin	1:81266629	1	81266629	G	A	0.53	0.22	0.05	3.1E-05
Mesothelin	20:595205	20	595205	A	G	0.75	-0.43	0.09	2.0E-06
Mesothelin	2:123189197	2	123189197	G	A	0.62	0.26	0.05	1.8E-06
Mesothelin	2:161842448	2	161842448	C	T	0.59	0.26	0.06	3.6E-05
Mesothelin	2:3062055	2	3062055	G	A	0.53	0.29	0.07	7.7E-06
Mesothelin	2:3714261	2	3714261	A	C	0.92	-0.50	0.11	8.7E-06
Mesothelin	2:71459295	2	71459295	T	A	0.78	-0.28	0.06	8.7E-06
Mesothelin	3:127062401	3	127062401	G	A	0.80	-0.28	0.07	2.1E-05
Mesothelin	3:29604941	3	29604941	T	G	0.86	0.30	0.07	2.9E-05
Mesothelin	3:38733246	3	38733246	A	G	0.87	0.38	0.09	2.8E-05
Mesothelin	3:67536688	3	67536688	A	G	0.77	0.28	0.07	2.2E-05
Mesothelin	3:77744694	3	77744694	C	A	0.53	-0.21	0.05	3.2E-05
Mesothelin	4:121057894	4	121057894	G	A	0.84	0.30	0.07	4.1E-05
Mesothelin	4:70950894	4	70950894	T	G	0.90	0.35	0.09	3.9E-05
Mesothelin	5:124856792	5	124856792	T	G	0.67	0.24	0.06	4.9E-05
Mesothelin	5:85351431	5	85351431	A	G	0.91	0.55	0.13	1.5E-05
Mesothelin	5:94935781	5	94935781	T	A	0.69	0.25	0.06	2.5E-05
Mesothelin	7:130891620	7	130891620	A	G	0.79	0.27	0.07	3.3E-05
Mesothelin	7:17549009	7	17549009	A	C	0.90	0.44	0.11	4.3E-05
Mesothelin	7:82183483	7	82183483	A	C	0.83	-0.30	0.07	9.4E-06

Mesothelin	8:13887649	8	13887649	G	C	0.71	0.29	0.07	2.5E-05
Mesothelin	9:21122071	9	21122071	T	C	0.47	0.23	0.05	1.7E-05
Mesothelin	9:33715801	9	33715801	G	A	0.94	-0.54	0.13	4.9E-05
Mesothelin	9:7805650	9	7805650	C	T	0.78	0.27	0.06	1.6E-05
Met	21:25328443	21	25328443	A	G	0.75	0.37	0.07	2.8E-07
Met	9:136155000	9	136155000	C	T	0.82	0.38	0.07	3.0E-08
MIA	19:41207206	19	41207206	C	G	0.93	-0.78	0.11	5.2E-12
MIA	19:41207342	19	41207342	G	C	0.91	-0.65	0.10	1.1E-10
MIA	19:41265201	19	41265201	T	C	0.66	-0.50	0.05	7.8E-23
MIA	19:41284915	19	41284915	C	T	0.93	-1.39	0.09	5.2E-60
MIA	19:41503447	19	41503447	T	A	0.75	-0.33	0.06	1.3E-07
MICA	5:139145084	5	139145084	C	T	0.94	-0.58	0.11	3.1E-07
MICA	6:28203056	6	28203056	T	G	0.92	-0.52	0.09	1.5E-08
MICA	6:29678520	6	29678520	G	A	0.72	0.29	0.06	2.4E-07
MICA	6:29970960	6	29970960	G	C	0.90	-0.56	0.09	2.0E-10
MICA	6:31050348	6	31050348	A	G	0.73	0.68	0.05	3.1E-39
MICA	6:31082188	6	31082188	G	A	0.66	-0.32	0.06	2.5E-08
MICA	6:31091475	6	31091475	C	T	0.59	0.38	0.05	3.7E-13
MICA	6:31105265	6	31105265	G	A	0.49	-0.51	0.05	1.1E-24
MICA	6:31140615	6	31140615	C	T	0.91	0.52	0.09	3.9E-09
MICA	6:31151413	6	31151413	A	C	0.81	0.49	0.07	3.4E-13
MICA	6:31172225	6	31172225	G	A	0.80	0.46	0.07	3.9E-12
MICA	6:31199164	6	31199164	C	T	0.87	0.41	0.07	1.1E-08
MICA	6:31228410	6	31228410	C	T	0.63	-0.69	0.06	7.3E-33
MICA	6:31319815	6	31319815	G	A	0.82	0.91	0.08	2.6E-28
MICA	6:31322522	6	31322522	C	A	0.86	0.92	0.12	1.3E-13
MICA	6:31323468	6	31323468	G	T	0.81	0.96	0.10	7.7E-22
MICA	6:31326166	6	31326166	T	C	0.58	-0.90	0.06	3.2E-59
MICA	6:31328636	6	31328636	C	T	0.92	1.57	0.13	2.3E-31
MICA	6:31334852	6	31334852	G	T	0.75	0.83	0.05	6.1E-59
MICA	6:31335330	6	31335330	G	C	0.71	-0.54	0.05	3.8E-24
MICA	6:31367077	6	31367077	G	A	0.78	-0.85	0.08	2.9E-24
MICA	6:31367874	6	31367874	T	C	0.94	2.02	0.18	6.6E-30
MICA	6:31406562	6	31406562	G	A	0.94	0.89	0.11	3.0E-17
MICA	6:31409283	6	31409283	G	A	0.90	0.77	0.09	6.9E-18
MICA	6:31411213	6	31411213	T	A	0.88	-0.86	0.08	1.4E-26
MICA	6:31449022	6	31449022	C	T	0.72	-0.42	0.05	5.7E-15
MICA	6:31449213	6	31449213	A	T	0.93	0.52	0.10	1.9E-07
MICA	6:31456769	6	31456769	G	A	0.65	0.38	0.06	1.1E-10
MICA	6:31458752	6	31458752	G	A	0.92	0.72	0.11	3.8E-11
MICA	6:31461667	6	31461667	T	C	0.79	0.47	0.07	2.3E-12
MICA	6:31485101	6	31485101	A	C	0.76	-0.33	0.06	1.3E-07

MICA	6:31494202	6	31494202	A	G	0.87	0.42	0.08	8.9E-08
MICA	6:31496467	6	31496467	C	A	0.89	0.55	0.09	3.5E-10
MICA	6:31540556	6	31540556	T	C	0.74	0.48	0.06	1.4E-16
MICA	6:31749804	6	31749804	C	T	0.83	0.59	0.07	1.8E-18
MICA	6:32055486	6	32055486	G	A	0.95	-0.80	0.13	3.2E-10
MICA	6:32189921	6	32189921	A	G	0.87	-0.58	0.07	8.3E-15
MICB	6:28301195	6	28301195	A	G	0.91	0.42	0.09	1.7E-06
MICB	6:29986324	6	29986324	T	A	0.91	0.49	0.09	1.5E-08
MICB	6:31052632	6	31052632	G	T	0.91	-0.48	0.09	2.3E-07
MICB	6:31091992	6	31091992	G	A	0.53	0.33	0.05	8.1E-11
MICB	6:31325745	6	31325745	C	T	0.59	0.42	0.08	4.8E-08
MICB	6:31328245	6	31328245	A	G	0.70	-0.42	0.06	2.1E-12
MICB	6:31461771	6	31461771	T	A	0.60	0.42	0.05	2.3E-14
MICB	6:31464026	6	31464026	T	C	0.83	-0.68	0.07	3.7E-21
MICB	6:31469591	6	31469591	G	A	0.52	-0.50	0.05	1.5E-21
MICB	6:31486307	6	31486307	C	T	0.92	-0.84	0.09	3.8E-21
MICB	6:31505480	6	31505480	A	G	0.89	0.77	0.08	2.2E-23
MICB	6:31698088	6	31698088	T	G	0.65	0.27	0.05	7.0E-07
MICB	6:31885930	6	31885930	T	C	0.67	0.32	0.05	7.4E-10
MICB	6:32807490	6	32807490	C	T	0.91	0.55	0.09	1.8E-09
MICB	7:29017188	7	29017188	A	C	0.69	-0.25	0.05	4.4E-06
MIF	13:46534080	13	46534080	A	C	0.66	-0.48	0.05	1.5E-19
MIF	13:46673317	13	46673317	G	A	0.55	0.44	0.06	4.5E-12
MIP_1a	17:34389361	17	34389361	A	G	0.87	-0.61	0.07	6.4E-17
MIP_3b	3:49710479	3	49710479	A	T	0.78	0.38	0.07	1.6E-07
MIP_5	17:34306470	17	34306470	G	C	0.95	-0.78	0.13	3.9E-09
MIP_5	17:34312215	17	34312215	T	C	0.89	-0.80	0.10	1.2E-16
MIP_5	17:34338835	17	34338835	A	T	0.93	-1.67	0.09	3.8E-83
MIS	10:116632130	10	116632130	A	T	0.64	-0.26	0.05	9.4E-07
MIS	11:6459838	11	6459838	C	T	0.79	-0.30	0.06	6.4E-07
MIS	1:101643168	1	101643168	A	G	0.81	-0.34	0.07	4.7E-06
MIS	3:134074730	3	134074730	T	A	0.89	0.47	0.10	3.8E-06
MMP_1	11:102679658	11	102679658	T	C	0.51	-0.38	0.05	6.5E-14
MMP_12	11:102745791	11	102745791	T	C	0.87	0.68	0.06	1.4E-25
MMP_12	11:102835591	11	102835591	T	C	0.61	0.31	0.05	2.1E-09
MMP_7	11:102376169	11	102376169	G	A	0.55	0.34	0.06	4.5E-08
MMP_7	11:102396607	11	102396607	T	C	0.54	0.32	0.05	3.1E-10
MMP_7	11:102429620	11	102429620	T	C	0.77	0.33	0.06	6.6E-09
MMP_7	11:102436210	11	102436210	G	A	0.76	-0.31	0.06	1.6E-07
MMP_7	11:102465956	11	102465956	C	T	0.88	-0.43	0.08	5.6E-08
MMP_8	15:98802455	15	98802455	G	A	0.85	-0.34	0.06	1.2E-07
MMP_8	2:105253184	2	105253184	G	A	0.51	-0.32	0.06	5.7E-07

MMP_8	2:17118296	2	17118296	G	A	0.88	-0.38	0.08	1.7E-06
MMP_8	2:42735736	2	42735736	G	C	0.80	-0.35	0.07	1.8E-06
MMP_8	5:8558468	5	8558468	G	T	0.76	0.31	0.07	4.6E-06
MMP_8	6:31104702	6	31104702	C	G	0.70	-0.29	0.06	4.5E-07
MMP_8	6:31271216	6	31271216	G	T	0.79	-0.37	0.08	2.5E-06
MMP_8	6:31318432	6	31318432	T	C	0.89	0.67	0.14	2.2E-06
MMP_8	6:31318476	6	31318476	G	A	0.87	0.58	0.12	1.0E-06
MMP_8	6:31325430	6	31325430	A	G	0.52	0.35	0.08	3.1E-06
MMP_8	6:31341941	6	31341941	G	A	0.71	0.38	0.07	7.6E-08
MMP_8	6:31427594	6	31427594	C	T	0.93	-0.57	0.11	6.2E-07
MMP_8	6:31515140	6	31515140	A	G	0.93	-0.70	0.10	2.3E-12
MMP_8	6:31811850	6	31811850	T	C	0.61	-0.28	0.05	4.5E-08
MMP_8	6:31836202	6	31836202	A	C	0.92	-0.62	0.09	1.7E-12
MMP_8	6:31872383	6	31872383	G	A	0.92	-0.77	0.09	1.6E-16
MMP_8	6:31907837	6	31907837	A	G	0.49	0.32	0.05	4.4E-11
MMP_8	6:31914179	6	31914179	C	T	0.91	-1.46	0.07	5.7E-97
MMP_8	6:32025326	6	32025326	C	T	0.91	-0.66	0.08	4.9E-16
MMP_8	6:32105209	6	32105209	G	T	0.91	-0.44	0.09	5.5E-07
MO2R1	3:112634262	3	112634262	G	A	0.58	-0.32	0.05	7.7E-10
MP2K2	13:113851874	13	113851874	T	C	0.79	0.47	0.06	5.4E-13
MP2K4	1:230297778	1	230297778	T	A	0.59	-0.35	0.05	2.4E-11
MP2K4	3:186359810	3	186359810	T	G	0.68	-0.50	0.06	1.1E-16
MP2K4	3:186381717	3	186381717	G	A	0.73	0.77	0.06	8.2E-44
MP2K4	3:186394038	3	186394038	G	C	0.80	-1.04	0.06	6.7E-68
MP2K4	3:186433574	3	186433574	A	T	0.69	-0.32	0.06	1.6E-08
MPIF_1	17:34321277	17	34321277	C	T	0.89	-1.00	0.10	1.3E-25
MSP	3:47687940	3	47687940	G	A	0.93	1.07	0.17	2.4E-10
MSP	3:48268509	3	48268509	T	G	0.77	-0.43	0.07	1.9E-09
MSP	3:48541016	3	48541016	A	C	0.94	0.70	0.11	2.2E-10
MSP	3:48695834	3	48695834	T	C	0.88	0.75	0.08	4.2E-20
MSP	3:48720303	3	48720303	G	A	0.90	0.85	0.08	3.7E-26
MSP	3:49381911	3	49381911	T	G	0.71	-0.47	0.06	2.6E-15
MSP	3:49637049	3	49637049	C	G	0.93	-1.22	0.17	1.9E-13
MSP	3:49669948	3	49669948	G	A	0.76	-0.79	0.07	5.7E-32
MSP	3:49706699	3	49706699	A	G	0.93	2.35	0.13	2.0E-75
MSP	3:49708769	3	49708769	T	C	0.80	-0.71	0.07	6.9E-24
MSP	3:49721532	3	49721532	G	A	0.71	1.25	0.04	1.1E-269
MSP	3:49726178	3	49726178	G	A	0.94	1.82	0.16	1.7E-30
MSP	3:50174184	3	50174184	T	C	0.50	-0.52	0.05	3.8E-26
MSP	3:50217558	3	50217558	C	T	0.90	1.11	0.10	1.8E-27
MSP	3:50478487	3	50478487	G	T	0.59	0.40	0.06	1.7E-10
Myeloperoxidase	17:56484131	17	56484131	T	A	0.71	-0.32	0.07	8.9E-07

Myeloperoxidase	3:85031153	3	85031153	C	T	0.90	0.37	0.08	4.3E-06
Myeloperoxidase	4:140850990	4	140850990	C	T	0.64	0.24	0.05	1.9E-06
Myeloperoxidase	7:149445992	7	149445992	A	G	0.87	-0.46	0.10	3.4E-06
Myeloperoxidase	8:120626105	8	120626105	A	G	0.90	0.44	0.09	1.6E-06
NAGK	2:71292522	2	71292522	T	C	0.66	0.48	0.05	2.1E-19
NAGK	2:71358709	2	71358709	A	G	0.90	0.54	0.10	3.6E-08
NCAM_120	11:112639406	11	112639406	C	T	0.52	0.26	0.05	1.1E-07
Nidogen	10:20167649	10	20167649	A	G	0.71	-0.27	0.05	8.1E-08
Nidogen	10:20235463	10	20235463	G	C	0.70	0.34	0.05	1.0E-11
Nidogen	18:1757031	18	1757031	C	T	0.64	-0.28	0.06	4.6E-06
Nidogen	2:873119	2	873119	A	G	0.48	-0.23	0.05	7.7E-07
NKG2D	12:10532833	12	10532833	T	G	0.79	-0.43	0.07	2.9E-10
NKp30	6:31397654	6	31397654	A	G	0.93	0.76	0.13	4.4E-09
NKp30	6:31543827	6	31543827	G	A	0.90	0.61	0.09	1.6E-12
Notch_1	19:34403671	19	34403671	A	G	0.73	0.32	0.07	5.9E-07
Notch_1	1:234955964	1	234955964	C	A	0.88	-0.48	0.10	1.9E-06
Notch_1	9:136149150	9	136149150	C	T	0.92	-0.51	0.10	3.8E-07
NPS_PLA2	1:20273680	1	20273680	C	G	0.67	0.26	0.05	3.7E-07
NPS_PLA2	1:20292378	1	20292378	T	C	0.73	0.38	0.05	1.8E-14
NPS_PLA2	1:20297111	1	20297111	C	T	0.76	-0.70	0.06	6.0E-35
NPS_PLA2	1:20361508	1	20361508	G	A	0.66	-0.47	0.05	6.8E-18
NRP1	10:33480713	10	33480713	C	T	0.64	0.29	0.05	4.2E-08
NRP1	1:230297778	1	230297778	T	A	0.59	0.30	0.05	1.5E-08
NXPH1	1:57377172	1	57377172	T	C	0.71	-0.35	0.05	1.5E-10
NXPH1	1:57412848	1	57412848	G	T	0.70	-0.33	0.06	3.6E-08
OCAD1	12:13858102	12	13858102	T	A	0.55	0.26	0.05	2.9E-07
OX2G	9:136151806	9	136151806	T	C	0.79	0.34	0.07	2.9E-07
PARC	17:34389914	17	34389914	A	G	0.87	-0.86	0.07	1.9E-35
PARC	8:79908796	8	79908796	G	A	0.58	-0.31	0.05	6.7E-09
PCSK7	11:117015238	11	117015238	C	A	0.92	0.66	0.10	4.4E-11
PCSK7	11:117072525	11	117072525	C	T	0.77	0.61	0.06	1.1E-26
PCSK7	11:117094491	11	117094491	C	T	0.84	-0.52	0.11	2.9E-06
PCSK7	11:124948066	11	124948066	G	A	0.69	0.33	0.06	2.4E-07
PCSK7	15:51807464	15	51807464	C	A	0.85	-0.39	0.08	1.7E-06
PCSK7	3:7660133	3	7660133	C	T	0.63	0.26	0.05	1.7E-06
PDE3A	9:112893735	9	112893735	C	T	0.74	0.29	0.06	2.4E-07
PDGF_Rb	5:149479852	5	149479852	C	A	0.70	0.78	0.07	1.1E-25
PDGF_Rb	5:149501751	5	149501751	A	C	0.54	0.61	0.05	3.0E-35
PDGF_Rb	5:149505327	5	149505327	A	G	0.91	0.70	0.10	1.4E-11
PDGF_Rb	5:149515074	5	149515074	A	G	0.52	1.16	0.03	3.0e-316
PDGF_Rb	5:149521791	5	149521791	A	G	0.89	0.98	0.08	4.3E-34
PDGF_Rb	5:149544045	5	149544045	G	A	0.53	0.41	0.05	1.3E-14

PD_L2	9:5472379	9	5472379	T	C	0.78	-0.42	0.06	4.6E-11
PD_L2	9:5509678	9	5509678	G	A	0.77	-0.71	0.06	1.5E-32
PD_L2	9:5512459	9	5512459	T	C	0.87	-0.70	0.09	4.0E-15
PD_L2	9:5512522	9	5512522	T	G	0.74	-0.39	0.06	3.3E-10
PGRP_S	19:46538325	19	46538325	C	T	0.73	0.35	0.06	2.1E-08
PIGR	1:207143422	1	207143422	A	G	0.54	0.32	0.05	2.6E-10
Plasminogen	6:161092438	6	161092438	C	T	0.91	0.65	0.11	1.4E-09
Plasminogen	6:161252770	6	161252770	G	A	0.92	0.56	0.10	1.1E-08
PLXC1	12:94621615	12	94621615	T	A	0.57	0.52	0.05	6.5E-26
PLXC1	12:94640095	12	94640095	C	T	0.59	0.43	0.07	1.4E-09
PPAC	2:183722	2	183722	C	G	0.67	0.39	0.06	4.2E-12
PPAC	2:199502	2	199502	T	G	0.70	0.48	0.06	3.6E-17
PPAC	2:271797	2	271797	G	A	0.68	-1.00	0.04	8.8E-129
PPID	4:159622910	4	159622910	A	T	0.74	-0.45	0.06	4.2E-15
PPIE	1:40219065	1	40219065	C	T	0.64	0.42	0.05	7.2E-16
Prekallikrein	3:186439173	3	186439173	T	C	0.71	0.28	0.05	1.1E-07
Prekallikrein	3:186454180	3	186454180	A	C	0.61	-0.48	0.05	3.2E-25
Prekallikrein	4:187173691	4	187173691	A	G	0.60	-0.40	0.05	2.7E-16
Protein_C	20:32456567	20	32456567	C	T	0.94	-0.58	0.11	1.2E-07
Protein_C	20:33677621	20	33677621	C	T	0.64	-0.30	0.06	1.0E-07
Protein_C	20:33703134	20	33703134	G	A	0.91	-0.99	0.09	1.1E-28
Protein_C	6:107868962	6	107868962	C	T	0.82	0.36	0.07	1.6E-07
PSA	10:26252005	10	26252005	A	G	0.89	-0.28	0.07	3.1E-05
PSA	10:70844482	10	70844482	T	G	0.63	0.19	0.04	5.9E-06
PSA	11:128492549	11	128492549	G	T	0.78	0.26	0.06	5.0E-05
PSA	11:82397014	11	82397014	C	T	0.88	-0.28	0.07	4.8E-05
PSA	13:51482712	13	51482712	C	T	0.68	-0.23	0.05	6.0E-07
PSA	15:69073361	15	69073361	T	G	0.93	0.44	0.11	3.8E-05
PSA	16:64270496	16	64270496	C	T	0.93	-0.44	0.09	2.6E-06
PSA	16:75246644	16	75246644	C	T	0.78	0.24	0.06	1.2E-05
PSA	17:3161297	17	3161297	G	A	0.67	0.24	0.06	1.9E-05
PSA	1:200294113	1	200294113	T	C	0.71	0.19	0.05	3.2E-05
PSA	1:200852820	1	200852820	A	G	0.60	-0.20	0.04	4.8E-06
PSA	1:28417367	1	28417367	T	C	0.91	0.37	0.08	1.7E-05
PSA	22:30893946	22	30893946	G	A	0.95	-0.43	0.10	4.6E-05
PSA	2:106208235	2	106208235	T	C	0.90	0.30	0.07	3.7E-05
PSA	2:108643385	2	108643385	A	G	0.86	-0.25	0.06	3.2E-05
PSA	2:157534037	2	157534037	C	A	0.72	-0.24	0.05	5.3E-06
PSA	2:201561017	2	201561017	G	A	0.83	-0.33	0.08	2.4E-05
PSA	2:20381830	2	20381830	T	C	0.66	0.20	0.05	1.9E-05
PSA	2:225906555	2	225906555	G	A	0.72	-0.23	0.05	1.9E-06
PSA	2:65659488	2	65659488	A	G	0.57	0.17	0.04	4.7E-05

PSA	3:189585208	3	189585208	G	A	0.64	-0.19	0.04	8.2E-06
PSA	4:127572943	4	127572943	T	G	0.50	-0.18	0.04	7.8E-06
PSA	4:128471085	4	128471085	T	G	0.58	-0.22	0.05	3.0E-05
PSA	4:130103121	4	130103121	C	T	0.95	0.52	0.13	3.3E-05
PSA	4:39244477	4	39244477	A	G	0.89	-0.28	0.07	3.1E-05
PSA	4:80049576	4	80049576	A	G	0.83	-0.32	0.07	6.1E-06
PSA	5:158756968	5	158756968	A	G	0.79	0.25	0.05	5.4E-06
PSA	5:26135884	5	26135884	G	T	0.88	-0.42	0.09	6.8E-06
PSA	6:113969387	6	113969387	T	C	0.64	-0.20	0.05	2.3E-05
PSA	7:14390962	7	14390962	T	C	0.76	-0.28	0.06	4.4E-06
P_Selectin	10:127211308	10	127211308	T	G	0.77	-0.32	0.06	1.0E-07
P_Selectin	1:169527101	1	169527101	T	C	0.90	0.65	0.08	3.7E-15
P_Selectin	1:169568698	1	169568698	T	G	0.54	0.26	0.05	5.5E-08
P_Selectin	9:136131905	9	136131905	T	C	0.65	-0.27	0.05	4.2E-07
P_Selectin	9:136141870	9	136141870	C	T	0.82	0.73	0.06	2.9E-30
P_Selectin	9:136148000	9	136148000	G	A	0.59	-0.42	0.06	6.4E-13
RAP	6:31035012	6	31035012	C	T	0.85	-0.48	0.08	2.2E-10
RAP	6:31077239	6	31077239	C	T	0.90	-0.60	0.08	1.6E-13
RAP	6:31095294	6	31095294	A	G	0.47	-0.29	0.05	5.6E-09
RAP	6:31231454	6	31231454	A	G	0.64	0.34	0.07	4.5E-07
RAP	6:31271700	6	31271700	C	T	0.59	0.33	0.06	9.8E-08
RAP	6:31274647	6	31274647	G	A	0.89	-0.88	0.08	5.0E-27
RAP	6:31315085	6	31315085	A	G	0.77	0.64	0.11	4.9E-09
RAP	6:31315706	6	31315706	G	A	0.88	-0.90	0.13	1.9E-12
RAP	6:31328636	6	31328636	C	T	0.92	-1.37	0.13	2.0E-24
RAP	6:31330844	6	31330844	T	C	0.57	-0.27	0.05	2.3E-07
RAP	6:31354939	6	31354939	A	T	0.94	-0.81	0.14	6.0E-09
RAP	6:31399945	6	31399945	T	C	0.93	-1.04	0.11	2.1E-20
RAP	6:31432006	6	31432006	G	A	0.91	-0.84	0.09	3.2E-21
RAP	6:31449213	6	31449213	A	T	0.93	-0.91	0.09	7.9E-22
RAP	6:31476297	6	31476297	C	A	0.83	-0.50	0.07	2.0E-13
RAP	6:31557226	6	31557226	G	A	0.87	-0.49	0.08	1.2E-10
RAP	6:31746548	6	31746548	T	C	0.92	-0.65	0.09	5.6E-12
RAP	6:31769479	6	31769479	G	A	0.92	-0.58	0.09	3.3E-10
RAP	6:31931137	6	31931137	T	C	0.80	-0.35	0.06	2.5E-08
RAP	6:32852647	6	32852647	T	C	0.90	-0.44	0.08	3.6E-08
RELT	11:73159312	11	73159312	T	C	0.80	-0.32	0.06	5.7E-08
RELT	13:110083898	13	110083898	A	G	0.90	-0.35	0.08	3.2E-06
RELT	1:77323124	1	77323124	C	T	0.79	-0.27	0.06	2.9E-06
RELT	6:167136154	6	167136154	G	A	0.80	0.32	0.07	4.8E-06
RELT	6:94206433	6	94206433	C	G	0.91	-0.37	0.08	4.2E-06
RET	10:43384889	10	43384889	T	C	0.79	0.36	0.06	8.6E-09

RET	10:43605902	10	43605902	G	A	0.76	0.34	0.06	1.8E-09
RGM_C	7:57408960	7	57408960	C	T	0.70	-0.34	0.06	3.2E-09
RGM_C	9:35739876	9	35739876	G	A	0.56	0.30	0.06	5.9E-08
RGM_C	9:35829390	9	35829390	T	C	0.63	-0.35	0.05	1.6E-11
ROR1	1:64614011	1	64614011	T	C	0.83	0.42	0.06	3.6E-11
ROR1	1:64625169	1	64625169	G	A	0.71	0.36	0.06	1.1E-10
SAA	11:18281786	11	18281786	A	G	0.78	0.67	0.07	7.3E-22
SAA	11:18286402	11	18286402	A	C	0.74	0.86	0.08	4.6E-25
SAA	11:18287034	11	18287034	C	G	0.67	-0.90	0.04	1.8E-89
SAA	11:18287809	11	18287809	G	A	0.90	-0.56	0.09	1.6E-09
SAA	11:18370969	11	18370969	T	C	0.56	-0.70	0.05	8.6E-54
SAA	11:18446663	11	18446663	C	T	0.86	-0.46	0.07	1.7E-10
Semaphorin_3A	17:26472623	17	26472623	C	G	0.95	-1.14	0.17	1.7E-11
Semaphorin_3A	17:26557777	17	26557777	G	C	0.76	-0.58	0.06	1.9E-19
Semaphorin_3A	17:26558329	17	26558329	G	T	0.78	0.46	0.06	1.3E-13
Semaphorin_3A	17:26578159	17	26578159	T	C	0.92	0.70	0.10	1.4E-11
Semaphorin_3A	17:26694861	17	26694861	G	A	0.49	-1.04	0.04	1.8E-125
Semaphorin_3A	17:26700470	17	26700470	G	A	0.92	-1.32	0.15	6.4E-18
Semaphorin_3A	17:26710347	17	26710347	C	T	0.91	0.87	0.12	9.3E-14
Semaphorin_3A	17:26719788	17	26719788	G	A	0.83	0.71	0.07	7.0E-22
Semaphorin_3A	17:26742060	17	26742060	G	A	0.72	-1.14	0.08	7.8E-42
Semaphorin_3A	17:26757423	17	26757423	G	A	0.56	0.67	0.06	2.4E-29
Semaphorin_3A	3:52261031	3	52261031	A	G	0.61	0.31	0.05	9.8E-09
Semaphorin_3E	7:82919330	7	82919330	G	A	0.68	0.34	0.06	1.6E-09
Semaphorin_3E	7:82932914	7	82932914	A	T	0.59	0.31	0.05	5.3E-09
Semaphorin_3E	7:82990977	7	82990977	T	C	0.86	0.53	0.07	2.0E-13
Semaphorin_3E	7:83039780	7	83039780	T	A	0.87	0.92	0.07	8.4E-40
Semaphorin_3E	7:83091534	7	83091534	A	G	0.59	0.40	0.05	1.4E-16
Semaphorin_3E	7:83148436	7	83148436	C	G	0.63	0.30	0.05	1.4E-08
Semaphorin_3E	7:83167775	7	83167775	G	A	0.94	0.72	0.14	2.8E-07
Semaphorin_3E	7:83278893	7	83278893	T	C	0.65	-0.43	0.05	2.7E-16
sE_Selectin	9:136080536	9	136080536	G	A	0.69	0.37	0.06	1.1E-09
sE_Selectin	9:136139754	9	136139754	T	C	0.57	-0.35	0.05	1.1E-11
sE_Selectin	9:136141870	9	136141870	C	T	0.82	1.10	0.06	1.6E-82
sE_Selectin	9:136148231	9	136148231	T	C	0.57	-0.61	0.06	5.6E-28
sFRP_3	2:183702964	2	183702964	G	A	0.88	-0.70	0.08	5.2E-19
sICAM_1	19:10394792	19	10394792	G	A	0.89	1.78	0.11	8.4E-57
sICAM_1	19:10406635	19	10406635	T	A	0.55	1.20	0.04	2.3E-225
sICAM_1	19:10422730	19	10422730	G	T	0.78	0.80	0.08	1.0E-25
sICAM_1	19:10432334	19	10432334	T	G	0.85	0.52	0.07	9.1E-14
sICAM_1	19:10462513	19	10462513	C	T	0.69	-0.77	0.08	3.4E-22
sICAM_5	10:28593981	10	28593981	T	C	0.91	-0.47	0.11	1.5E-05

sICAM_5	11:125973274	11	125973274	G	A	0.90	-0.44	0.10	2.5E-05
sICAM_5	11:40058649	11	40058649	C	A	0.64	0.29	0.07	1.8E-05
sICAM_5	11:44182483	11	44182483	T	A	0.63	0.23	0.05	1.6E-05
sICAM_5	12:59897359	12	59897359	G	A	0.87	-0.31	0.08	3.8E-05
sICAM_5	13:47533654	13	47533654	G	A	0.61	0.22	0.05	4.1E-05
sICAM_5	13:69004125	13	69004125	C	T	0.60	0.21	0.05	4.4E-05
sICAM_5	14:58242572	14	58242572	T	C	0.87	-0.38	0.09	1.6E-05
sICAM_5	18:34902573	18	34902573	C	G	0.89	0.44	0.10	5.0E-06
sICAM_5	18:34928639	18	34928639	T	C	0.64	0.26	0.05	1.7E-06
sICAM_5	18:39315461	18	39315461	A	T	0.76	0.24	0.06	3.4E-05
sICAM_5	18:42969806	18	42969806	A	T	0.68	-0.24	0.06	3.0E-05
sICAM_5	18:43138567	18	43138567	C	T	0.94	0.39	0.10	4.9E-05
sICAM_5	19:10394792	19	10394792	G	A	0.89	-0.81	0.13	9.4E-11
sICAM_5	19:10402131	19	10402131	C	T	0.51	0.65	0.06	5.0E-31
sICAM_5	19:10418661	19	10418661	T	C	0.67	-0.37	0.09	1.6E-05
sICAM_5	19:10424951	19	10424951	C	T	0.83	0.95	0.11	7.0E-17
sICAM_5	19:10472933	19	10472933	G	A	0.52	-0.38	0.07	3.0E-08
sICAM_5	19:10959660	19	10959660	A	T	0.94	0.77	0.16	2.7E-06
sICAM_5	1:238706527	1	238706527	T	A	0.53	0.24	0.06	1.7E-05
sICAM_5	1:238722959	1	238722959	A	G	0.91	-0.43	0.10	1.6E-05
sICAM_5	1:73896518	1	73896518	C	T	0.81	0.31	0.07	1.4E-05
sICAM_5	1:90568148	1	90568148	G	A	0.91	0.49	0.11	1.1E-05
sICAM_5	22:27865878	22	27865878	T	C	0.80	0.25	0.06	3.1E-05
sICAM_5	2:140511671	2	140511671	T	C	0.92	0.46	0.11	3.0E-05
sICAM_5	2:217586055	2	217586055	A	G	0.82	-0.28	0.07	2.2E-05
sICAM_5	3:31691928	3	31691928	A	G	0.63	0.23	0.05	2.2E-05
sICAM_5	3:61137550	3	61137550	T	C	0.54	0.23	0.05	4.0E-06
sICAM_5	3:6275720	3	6275720	A	G	0.88	-0.35	0.08	1.5E-05
sICAM_5	3:9197231	3	9197231	T	C	0.65	0.31	0.06	7.5E-07
sICAM_5	4:29798323	4	29798323	T	G	0.83	0.30	0.07	4.4E-06
sICAM_5	4:30239088	4	30239088	A	T	0.94	-0.62	0.14	1.4E-05
sICAM_5	4:60398672	4	60398672	A	G	0.81	-0.30	0.07	2.6E-05
sICAM_5	5:162643100	5	162643100	T	C	0.96	-0.66	0.16	3.7E-05
sICAM_5	5:25407758	5	25407758	C	T	0.78	-0.37	0.08	8.9E-07
sICAM_5	5:5869722	5	5869722	T	C	0.59	0.21	0.05	3.6E-05
sICAM_5	6:79305288	6	79305288	G	C	0.66	-0.23	0.05	1.1E-05
sICAM_5	6:84750171	6	84750171	G	C	0.88	-0.38	0.09	9.5E-06
sICAM_5	7:120209948	7	120209948	T	C	0.93	-0.61	0.11	4.6E-08
sICAM_5	7:123590489	7	123590489	G	A	0.85	-0.31	0.07	1.2E-05
sICAM_5	7:96978250	7	96978250	G	A	0.88	0.38	0.09	9.0E-06
sICAM_5	8:14855673	8	14855673	G	T	0.69	0.23	0.06	4.4E-05
sICAM_5	9:136151806	9	136151806	T	C	0.79	0.34	0.07	1.6E-07

sICAM_5	9:25283201	9	25283201	T	C	0.56	0.21	0.05	3.1E-05
SIG14	19:52130337	19	52130337	T	C	0.94	0.61	0.11	1.5E-08
SIG14	19:52158316	19	52158316	G	T	0.88	1.13	0.09	1.7E-33
SIG14	19:52163786	19	52163786	G	A	0.77	-0.41	0.06	1.0E-11
SIG14	19:52186090	19	52186090	G	A	0.66	0.59	0.06	1.0E-21
Siglec_3	19:51701891	19	51701891	A	G	0.70	-0.41	0.05	8.2E-14
Siglec_3	19:51727962	19	51727962	C	A	0.69	1.08	0.05	1.7E-95
Siglec_3	19:51780131	19	51780131	T	C	0.75	0.53	0.06	1.0E-19
Siglec_3	19:51797119	19	51797119	G	A	0.58	0.56	0.06	5.7E-18
Siglec_6	19:51993028	19	51993028	T	A	0.92	-0.71	0.11	2.5E-10
Siglec_6	19:52014146	19	52014146	C	T	0.93	-0.59	0.10	1.6E-09
Siglec_6	19:52033206	19	52033206	G	A	0.93	-1.17	0.09	4.2E-40
Siglec_6	19:52033742	19	52033742	A	G	0.59	-0.62	0.05	1.9E-39
Siglec_6	19:52039311	19	52039311	C	T	0.87	-0.69	0.07	2.8E-21
Siglec_6	19:52053655	19	52053655	C	G	0.62	0.31	0.05	7.7E-09
Siglec_6	19:52058654	19	52058654	T	A	0.73	-0.50	0.06	3.2E-19
Siglec_9	19:51595560	19	51595560	C	G	0.79	-0.60	0.07	8.2E-20
Siglec_9	19:51595623	19	51595623	T	A	0.75	-0.68	0.07	1.1E-20
Siglec_9	19:51596941	19	51596941	A	G	0.73	0.63	0.08	7.3E-16
Siglec_9	19:51597421	19	51597421	G	A	0.73	0.93	0.07	2.1E-40
Siglec_9	19:51619495	19	51619495	C	T	0.93	0.59	0.11	3.9E-08
Siglec_9	19:51627766	19	51627766	G	T	0.57	-1.28	0.03	0.0E+00
SIRT2	17:64190920	17	64190920	G	T	0.95	-0.94	0.12	2.9E-14
SLAF7	1:160723448	1	160723448	T	G	0.71	0.80	0.05	4.8E-55
SLAF7	1:160754964	1	160754964	A	G	0.67	-0.39	0.06	7.3E-12
SLAF7	1:160825313	1	160825313	C	T	0.56	-0.32	0.06	1.6E-08
SLAF7	1:160845485	1	160845485	T	C	0.88	0.81	0.08	7.6E-22
sLeptin_R	1:66014359	1	66014359	T	C	0.52	0.40	0.05	7.3E-14
sLeptin_R	1:66053804	1	66053804	A	T	0.56	0.53	0.05	1.8E-23
sLeptin_R	1:66063341	1	66063341	T	C	0.57	-0.52	0.05	7.2E-27
sLeptin_R	1:66069020	1	66069020	G	A	0.81	1.39	0.04	3.9E-237
sLeptin_R	1:66143044	1	66143044	C	T	0.53	-0.50	0.05	3.8E-24
sL_Selectin	1:169572947	1	169572947	T	G	0.56	0.30	0.05	1.4E-10
sL_Selectin	1:169637078	1	169637078	C	T	0.68	0.33	0.05	2.7E-09
sL_Selectin	1:169665551	1	169665551	G	T	0.74	0.52	0.05	9.7E-25
SPARCL1	4:88384074	4	88384074	C	T	0.57	-0.33	0.05	1.2E-09
SPARCL1	4:88416223	4	88416223	G	A	0.60	0.36	0.05	8.3E-13
SPARCL1	4:88447128	4	88447128	A	G	0.77	-0.64	0.05	9.5E-33
SPHK2	10:27905762	10	27905762	T	C	0.66	-0.25	0.06	8.0E-06
SPHK2	10:57062373	10	57062373	A	C	0.92	-0.48	0.10	1.1E-06
SPHK2	10:58923778	10	58923778	T	C	0.76	0.27	0.06	6.5E-06
SPHK2	10:71277329	10	71277329	G	C	0.94	0.52	0.13	4.3E-05

SPHK2	11:44568837	11	44568837	A	G	0.83	-0.37	0.09	5.0E-05
SPHK2	12:10532833	12	10532833	T	G	0.79	-0.28	0.07	3.9E-05
SPHK2	12:41020477	12	41020477	G	C	0.91	-0.49	0.12	2.8E-05
SPHK2	12:51866103	12	51866103	C	T	0.89	-0.55	0.11	2.2E-07
SPHK2	12:95387363	12	95387363	T	C	0.58	0.23	0.05	2.0E-05
SPHK2	14:23104574	14	23104574	A	C	0.76	0.25	0.06	2.0E-05
SPHK2	17:32069611	17	32069611	G	A	0.68	-0.22	0.05	4.3E-05
SPHK2	18:20566532	18	20566532	A	G	0.86	-0.31	0.07	3.2E-05
SPHK2	18:25976116	18	25976116	T	C	0.78	0.26	0.06	4.9E-05
SPHK2	18:75071036	18	75071036	G	A	0.84	-0.29	0.07	2.0E-05
SPHK2	19:35806491	19	35806491	C	T	0.77	0.28	0.07	2.6E-05
SPHK2	19:36031270	19	36031270	C	T	0.75	0.25	0.06	4.0E-05
SPHK2	1:15119413	1	15119413	A	G	0.73	-0.29	0.07	6.9E-06
SPHK2	1:194876885	1	194876885	A	T	0.73	0.24	0.06	4.7E-05
SPHK2	20:22400907	20	22400907	T	G	0.82	-0.28	0.07	2.1E-05
SPHK2	21:41345008	21	41345008	G	A	0.61	-0.23	0.05	2.2E-05
SPHK2	21:43169357	21	43169357	C	G	0.85	0.31	0.08	3.8E-05
SPHK2	22:49327625	22	49327625	C	T	0.80	-0.32	0.08	2.1E-05
SPHK2	2:147027750	2	147027750	G	A	0.88	-0.47	0.11	4.1E-05
SPHK2	2:22008855	2	22008855	T	C	0.63	0.27	0.06	3.0E-05
SPHK2	2:2540775	2	2540775	G	A	0.87	0.54	0.10	1.0E-07
SPHK2	2:69907095	2	69907095	A	G	0.87	-0.34	0.08	1.9E-05
SPHK2	3:101609650	3	101609650	C	T	0.82	0.28	0.07	4.6E-05
SPHK2	3:143510847	3	143510847	C	T	0.57	0.24	0.06	3.2E-05
SPHK2	4:45184442	4	45184442	G	A	0.58	-0.23	0.05	1.0E-05
SPHK2	5:72922376	5	72922376	G	A	0.55	-0.21	0.05	3.8E-05
SPHK2	6:159259696	6	159259696	A	G	0.88	0.36	0.08	1.7E-05
SPHK2	7:120910746	7	120910746	G	A	0.80	0.32	0.07	2.3E-06
SPHK2	7:67904436	7	67904436	A	G	0.82	-0.28	0.07	2.6E-05
SPHK2	8:101669027	8	101669027	G	T	0.80	0.35	0.09	4.1E-05
SPHK2	9:132337492	9	132337492	G	A	0.56	-0.26	0.05	8.6E-07
SPHK2	9:31968163	9	31968163	T	C	0.69	0.22	0.05	4.1E-05
SPHK2	9:92211862	9	92211862	G	A	0.78	0.25	0.06	3.5E-05
SPINT2	19:38759103	19	38759103	T	C	0.86	-0.47	0.08	4.7E-10
SPINT2	19:38760375	19	38760375	C	T	0.94	0.69	0.10	2.9E-11
SPINT2	19:38791055	19	38791055	C	T	0.88	0.51	0.08	2.2E-10
SPINT2	19:38791841	19	38791841	A	G	0.74	0.85	0.06	1.4E-50
SPINT2	19:38917869	19	38917869	A	T	0.90	0.68	0.10	1.7E-12
Spondin_1	11:14038621	11	14038621	G	A	0.50	-0.39	0.05	7.3E-17
Spondin_1	11:14106672	11	14106672	T	A	0.59	0.27	0.05	4.2E-08
sRAGE	14:66021192	14	66021192	G	T	0.61	0.29	0.05	4.3E-08
sRAGE	6:32133344	6	32133344	A	C	0.96	0.71	0.12	2.4E-09

SREC_I	17:1519075	17	1519075	T	C	0.65	-0.85	0.08	1.4E-23
SREC_I	17:1587212	17	1587212	A	G	0.79	-0.54	0.06	4.2E-19
SREC_I	17:1588930	17	1588930	C	T	0.70	0.51	0.06	5.6E-18
ST4S6	9:136145425	9	136145425	C	A	0.79	0.49	0.07	6.6E-13
ST4S6	9:136157133	9	136157133	G	A	0.58	0.39	0.06	2.8E-10
STAB2	1:26346284	1	26346284	C	T	0.61	-0.28	0.05	3.9E-07
STAB2	1:41289993	1	41289993	T	C	0.69	-0.28	0.06	3.4E-07
STAB2	8:81613715	8	81613715	G	T	0.94	0.71	0.14	1.3E-07
STAB2	9:122461528	9	122461528	T	C	0.91	-0.49	0.10	2.2E-07
sTie_1	3:98406794	3	98406794	T	C	0.54	0.28	0.05	2.5E-07
sTie_1	8:94633233	8	94633233	T	C	0.68	0.27	0.05	4.7E-07
sTie_1	9:136142185	9	136142185	C	T	0.92	-1.01	0.09	7.9E-28
sTie_1	9:136144297	9	136144297	A	G	0.71	-0.51	0.06	4.3E-18
sTie_1	9:136176125	9	136176125	A	G	0.79	-0.52	0.08	4.8E-10
sTie_1	9:136190948	9	136190948	G	A	0.76	-0.38	0.07	1.6E-07
sTie_2	9:136142185	9	136142185	C	T	0.92	-0.98	0.09	8.3E-27
sTie_2	9:136163447	9	136163447	T	C	0.77	-0.54	0.08	3.0E-12
sTie_2	9:27184940	9	27184940	G	T	0.94	-0.66	0.11	7.6E-09
TAFI	13:46513168	13	46513168	T	A	0.67	0.49	0.05	3.7E-19
TAFI	13:46536291	13	46536291	A	G	0.94	1.20	0.17	2.4E-12
TAFI	13:46627677	13	46627677	C	T	0.94	1.03	0.13	1.3E-16
TAFI	13:46669550	13	46669550	T	A	0.56	-1.00	0.05	9.6E-84
TAFI	13:46675295	13	46675295	G	T	0.63	1.07	0.05	1.4E-115
TAFI	13:46706598	13	46706598	C	A	0.56	-0.30	0.05	8.1E-09
TARC	15:93902325	15	93902325	T	C	0.60	0.27	0.05	4.3E-07
TARC	16:57444002	16	57444002	T	G	0.92	-0.43	0.09	4.8E-06
TARC	22:45372925	22	45372925	C	G	0.73	-0.27	0.06	2.9E-06
TARC	2:31464385	2	31464385	A	T	0.70	-0.26	0.06	2.8E-06
TCCR	11:26297704	11	26297704	G	A	0.83	-0.35	0.07	2.6E-07
TCCR	12:50345206	12	50345206	A	G	0.51	0.26	0.05	2.7E-07
TCCR	2:48736839	2	48736839	G	A	0.73	0.35	0.07	5.8E-07
TCCR	3:94856020	3	94856020	A	G	0.77	-0.30	0.06	3.7E-06
TCCR	9:11537883	9	11537883	A	C	0.67	0.25	0.05	3.5E-06
TCCR	9:136131461	9	136131461	G	A	0.92	-0.48	0.10	5.3E-07
TCCR	9:83282844	9	83282844	C	T	0.67	-0.30	0.06	1.4E-06
Tenascin	8:27810577	8	27810577	T	G	0.75	-0.38	0.06	1.8E-11
Tenascin	9:117739168	9	117739168	G	A	0.88	-0.55	0.09	1.5E-10
Tenascin	9:117805201	9	117805201	C	G	0.86	-1.14	0.07	1.1E-64
Tenascin	9:117823114	9	117823114	T	C	0.48	0.29	0.05	2.8E-08
Tenascin	9:117832416	9	117832416	T	C	0.77	0.37	0.06	1.4E-10
Tenascin	9:117842307	9	117842307	G	A	0.55	-0.35	0.05	2.2E-11
Tenascin	9:117965039	9	117965039	T	C	0.93	0.59	0.11	3.1E-08

Tenascin	9:117972357	9	117972357	A	G	0.56	-0.28	0.05	4.4E-08
Tenascin	9:118027057	9	118027057	T	C	0.85	-0.45	0.07	2.8E-10
TF	20:10551996	20	10551996	C	T	0.95	-0.52	0.11	2.3E-06
TF	2:234612690	2	234612690	A	C	0.54	-0.26	0.05	4.2E-07
TF	8:68319668	8	68319668	G	A	0.89	0.40	0.08	2.1E-06
TFPI	11:100008998	11	100008998	C	T	0.69	-0.29	0.05	1.8E-07
TFPI	1:169467610	1	169467610	G	A	0.93	0.55	0.10	7.5E-08
TFPI	1:169513436	1	169513436	C	A	0.76	-0.34	0.06	2.3E-09
TIG2	7:150045302	7	150045302	G	A	0.74	-0.41	0.06	4.0E-13
TIMD3	5:156376703	5	156376703	G	A	0.93	-0.51	0.09	1.2E-08
TIMD3	5:156480648	5	156480648	T	A	0.63	-0.37	0.06	3.0E-09
TIMD3	5:156532366	5	156532366	A	C	0.83	-0.74	0.06	4.3E-33
TIMD3	5:156574889	5	156574889	A	G	0.66	-0.31	0.05	8.9E-09
TIMP_2	14:74162845	14	74162845	C	G	0.85	0.33	0.07	3.1E-06
TIMP_2	2:27598097	2	27598097	C	T	0.55	0.26	0.06	3.9E-06
TIMP_2	4:123782568	4	123782568	C	A	0.84	-0.47	0.10	1.0E-06
TIMP_2	5:161217476	5	161217476	G	A	0.69	0.26	0.06	3.6E-06
TIMP_2	6:119721494	6	119721494	A	C	0.55	-0.26	0.05	2.4E-06
TIMP_3	22:33160208	22	33160208	C	T	0.72	-0.66	0.05	6.6E-39
TIMP_3	22:33178147	22	33178147	C	T	0.91	-0.64	0.09	1.6E-11
TIMP_3	22:33224439	22	33224439	C	T	0.63	0.41	0.05	6.3E-16
TIMP_3	22:33241769	22	33241769	T	C	0.75	0.41	0.06	5.0E-12
TIMP_3	22:33266865	22	33266865	T	C	0.81	-0.36	0.07	2.7E-08
TLR4_MD_2_complex	9:120315320	9	120315320	C	T	0.93	0.60	0.12	2.0E-07
TLR4_MD_2_complex	9:120475302	9	120475302	A	G	0.93	1.13	0.10	2.3E-29
TLR4_MD_2_complex	9:120629344	9	120629344	C	T	0.85	0.41	0.08	3.9E-07
TPSB2	10:13740314	10	13740314	T	C	0.76	0.25	0.06	2.3E-05
TPSB2	10:22976697	10	22976697	T	C	0.95	-0.62	0.13	6.8E-07
TPSB2	12:129477365	12	129477365	C	T	0.81	-0.32	0.06	6.7E-07
TPSB2	12:49268519	12	49268519	G	A	0.92	-0.37	0.09	4.5E-05
TPSB2	13:32715398	13	32715398	T	C	0.90	0.34	0.08	4.8E-05
TPSB2	14:69177725	14	69177725	T	A	0.94	-0.48	0.12	4.5E-05
TPSB2	14:77079823	14	77079823	T	C	0.82	0.28	0.07	4.3E-05
TPSB2	15:24105353	15	24105353	A	G	0.91	-0.46	0.11	2.0E-05
TPSB2	15:48104128	15	48104128	C	T	0.88	-0.33	0.07	9.3E-06
TPSB2	15:62925509	15	62925509	C	T	0.90	-0.37	0.08	9.7E-06
TPSB2	16:1261219	16	1261219	G	A	0.60	-0.75	0.07	1.8E-26
TPSB2	16:1337123	16	1337123	C	T	0.90	-0.51	0.11	1.8E-06
TPSB2	17:55755726	17	55755726	A	G	0.88	0.42	0.09	2.2E-06
TPSB2	17:65491018	17	65491018	G	T	0.92	0.42	0.10	1.8E-05
TPSB2	18:73824773	18	73824773	A	T	0.91	-0.41	0.10	1.9E-05
TPSB2	1:33319277	1	33319277	A	G	0.90	-0.36	0.09	3.8E-05

TPSB2	1:76792423	1	76792423	G	A	0.88	0.32	0.08	2.2E-05
TPSB2	21:22512056	21	22512056	C	A	0.63	0.25	0.05	2.0E-06
TPSB2	22:31618597	22	31618597	A	G	0.65	0.26	0.06	4.2E-05
TPSB2	2:186881195	2	186881195	T	A	0.86	0.33	0.08	3.2E-05
TPSB2	2:195042006	2	195042006	T	C	0.83	0.46	0.08	4.7E-08
TPSB2	2:239367057	2	239367057	G	A	0.66	0.23	0.05	1.5E-05
TPSB2	2:32364093	2	32364093	C	T	0.69	0.23	0.05	3.1E-05
TPSB2	3:49940078	3	49940078	C	T	0.93	0.45	0.11	3.7E-05
TPSB2	3:89261061	3	89261061	G	A	0.83	0.27	0.07	3.7E-05
TPSB2	4:28440972	4	28440972	C	T	0.51	-0.23	0.05	1.2E-05
TPSB2	4:41536714	4	41536714	C	G	0.93	-0.43	0.10	4.2E-05
TPSB2	4:6054719	4	6054719	C	G	0.83	0.29	0.07	3.0E-05
TPSB2	4:72604344	4	72604344	C	T	0.70	-0.23	0.06	3.4E-05
TPSB2	5:42795088	5	42795088	A	G	0.73	0.24	0.06	2.4E-05
TPSB2	6:132822306	6	132822306	C	T	0.91	-0.49	0.11	1.5E-05
TPSB2	6:137316830	6	137316830	C	T	0.75	-0.32	0.07	1.7E-05
TPSB2	6:147080353	6	147080353	A	G	0.77	0.25	0.06	3.2E-05
TPSB2	6:161206213	6	161206213	C	T	0.62	-0.23	0.05	2.4E-05
TPSB2	7:38174213	7	38174213	T	C	0.88	0.43	0.10	1.1E-05
TPSB2	7:5038559	7	5038559	G	C	0.77	-0.30	0.07	3.0E-05
TPSB2	8:62382763	8	62382763	A	T	0.90	-0.35	0.08	2.2E-05
TPSB2	9:100276776	9	100276776	T	C	0.58	-0.26	0.06	1.0E-05
TPSB2	9:16571394	9	16571394	G	A	0.91	0.42	0.10	3.0E-05
TPSB2	9:38533004	9	38533004	T	C	0.74	-0.30	0.07	2.7E-05
Trypsin_2	7:142503071	7	142503071	C	A	0.49	0.26	0.05	1.5E-07
TSG_6	20:15057002	20	15057002	T	A	0.58	-0.25	0.05	4.1E-06
TSG_6	2:152142088	2	152142088	C	T	0.61	-0.35	0.05	4.9E-12
TSG_6	2:152206720	2	152206720	C	T	0.54	-0.33	0.05	1.2E-10
TSG_6	2:152216048	2	152216048	A	G	0.86	0.39	0.07	2.2E-07
TSG_6	9:341063	9	341063	A	C	0.52	-0.27	0.06	3.3E-06
TSP2	6:169617889	6	169617889	G	A	0.91	-0.83	0.08	9.1E-26
TSP2	6:169647022	6	169647022	T	C	0.73	-0.35	0.06	2.8E-10
TSP2	6:169650165	6	169650165	G	A	0.77	-0.38	0.06	3.5E-10
TXD12	3:48525955	3	48525955	A	T	0.67	-0.33	0.06	9.4E-09
TXD12	3:48635432	3	48635432	G	A	0.92	-0.71	0.10	2.1E-12
TXD12	3:48768586	3	48768586	C	T	0.89	-0.90	0.13	2.3E-12
TXD12	3:49224316	3	49224316	G	A	0.68	0.59	0.08	4.9E-14
TXD12	3:49335745	3	49335745	C	T	0.92	1.11	0.09	3.1E-33
TXD12	3:49444904	3	49444904	C	T	0.66	0.41	0.06	7.1E-11
TXD12	3:49502779	3	49502779	G	A	0.88	-0.95	0.09	3.7E-26
TXD12	3:49651534	3	49651534	C	T	0.89	-1.06	0.09	4.3E-31
TXD12	3:49899795	3	49899795	G	A	0.57	0.40	0.05	1.8E-15

TXD12	3:50250747	3	50250747	C	T	0.88	0.48	0.09	4.4E-07
TXD12	3:50764842	3	50764842	A	G	0.93	-1.06	0.16	1.8E-11
UNC5H3	4:96437762	4	96437762	G	A	0.67	-0.27	0.05	3.1E-08
UNC5H3	4:96558214	4	96558214	A	T	0.53	0.37	0.05	3.1E-14
UNC5H3	4:96624466	4	96624466	C	A	0.82	0.35	0.06	1.3E-08
uPA	10:75653904	10	75653904	T	A	0.58	-0.28	0.05	2.3E-08
VEGF_sR2	9:136148231	9	136148231	T	C	0.57	-0.31	0.06	4.8E-08
VEGF_sR2	9:136155000	9	136155000	C	T	0.82	0.47	0.07	2.9E-12
VEGF_sR3	13:92569206	13	92569206	A	G	0.84	0.35	0.08	3.7E-06
VEGF_sR3	14:62450377	14	62450377	T	A	0.61	0.27	0.05	2.7E-07
VEGF_sR3	17:73551200	17	73551200	A	G	0.56	-0.24	0.05	2.1E-06
VEGF_sR3	3:98261407	3	98261407	C	G	0.69	-0.40	0.06	3.9E-11
VEGF_sR3	3:98279115	3	98279115	T	C	0.82	0.44	0.08	2.1E-07
VEGF_sR3	3:98282957	3	98282957	T	G	0.62	0.30	0.06	7.4E-07
VEGF_sR3	3:98287344	3	98287344	A	G	0.94	0.81	0.17	2.9E-06
VEGF_sR3	3:98287817	3	98287817	T	G	0.76	-0.37	0.06	2.2E-09
VEGF_sR3	3:98396350	3	98396350	C	T	0.92	-0.83	0.11	1.4E-13
VEGF_sR3	3:98406794	3	98406794	T	C	0.54	0.84	0.05	3.0E-77
VEGF_sR3	3:98430494	3	98430494	T	C	0.82	-0.33	0.07	6.5E-07
VEGF_sR3	3:98447074	3	98447074	C	T	0.78	-0.49	0.06	1.6E-14
VEGF_sR3	3:98489686	3	98489686	A	G	0.60	-0.38	0.06	2.0E-10
VEGF_sR3	3:98516386	3	98516386	C	G	0.84	-0.48	0.08	8.8E-09
VEGF_sR3	9:136045486	9	136045486	G	A	0.72	0.31	0.06	3.0E-07
VEGF_sR3	9:136131905	9	136131905	T	C	0.65	-0.30	0.05	3.4E-08
VEGF_sR3	9:136148000	9	136148000	G	A	0.59	-0.43	0.06	6.4E-13
VEGF_sR3	9:136149399	9	136149399	G	A	0.82	0.77	0.06	4.0E-33
VEGF_sR3	9:136163447	9	136163447	T	C	0.77	-0.42	0.08	1.1E-07
vWF	9:136131315	9	136131315	C	G	0.92	-0.53	0.09	2.3E-08
vWF	9:136137106	9	136137106	G	A	0.68	-0.51	0.05	1.1E-23
WFKN2	17:48919039	17	48919039	T	C	0.68	-0.58	0.05	9.4E-30
WISP_1	17:26592946	17	26592946	C	T	0.53	-0.31	0.05	4.9E-09

Supplementary Table 4: Variance in the plasma levels of a protein explained by the predicted biomarker in the MDCS validation set. R-squared values are adjusted for age and sex.

Protein	r-square
sLeptin R	0.65
Cripto	0.65
PPAC	0.64
PDGF Rb	0.62
Siglec 9	0.61
MSP	0.59
BST1	0.57
ARTS1	0.53
IL 6 sRa	0.52
sICAM 1	0.51
MIP 5	0.47
Hemopexin	0.44
Gro a	0.44
Kininogen HMW	0.44
MICA	0.44
EphA1	0.43
MP2K4	0.43
Siglec 3	0.42
Haptoglobin Mixed Type	0.40
SAA	0.40
HRG	0.39
HGFA	0.39
CAMK1	0.38
IL 1 R AcP	0.36
DC SIGN	0.36
ILT 2	0.36
kallikrein 12	0.35
sE Selectin	0.35
TIMP 3	0.35
Coagulation Factor VII	0.34
IL 17 sR	0.33
SPINT2	0.33
Chitotriosidase 1	0.32
HCG	0.32
VEGF sR3	0.31
CNTN2	0.31

TXD12	0.31
Semaphorin 3E	0.29
HCC 4	0.29
MBL	0.29
SLAF7	0.27
CYTD	0.27
ILT 4	0.27
Prekallikrein	0.27
MIA	0.26
ASAHL	0.25
SIG14	0.25
IL 18 Ra	0.24
IL 1 R4	0.24
CPNE1	0.24
FCN2	0.24
TAFI	0.23
Coagulation Factor XI	0.23
MCP 3	0.22
Tenascin	0.22
ATS13	0.21
KYNU	0.21
HCC 1	0.21
RAP	0.21
Granulysin	0.20
PCSK7	0.20
MICB	0.19
IGF II receptor	0.18
CD109	0.18
AK1A1	0.18
GCP 2	0.17
ECM1	0.17
sTie 1	0.17
Angiogenin	0.17
Fucosyltransferase 3	0.17
ASAH2	0.17
CYTN	0.16
PARC	0.16
Factor B	0.15
Lysozyme	0.14
GRN	0.14

Carbonic anhydrase 6	0.14
GPC5	0.13
Ck b 8 1	0.13
IR	0.13
Protein C	0.13
PD L2	0.13
C34 gp41 HIV Fragment	0.13
Factor H	0.13
sL Selectin	0.13
FUT5	0.13
C1 Esterase Inhibitor	0.13
ENTP5	0.13
Cathepsin S	0.12
Kallikrein 11	0.12
TIMD3	0.12
Siglec 6	0.12
Kallistatin	0.12
NPS PLA2	0.11
P Selectin	0.11
WFKN2	0.11
SPARCL1	0.11
C4	0.11
a2 HS Glycoprotein	0.11
PPID	0.11
TSP2	0.11
IDUA	0.10
CYTT	0.10
SREC I	0.10
C7	0.10
CDON	0.10
IL 17E	0.10
MPIF 1	0.10
Esterase D	0.10
BGH3	0.10
C1s	0.10
Cadherin 5	0.09
DERM	0.09
sICAM 5	0.09
CYTF	0.09
Plasminogen	0.09

TIG2	0.09
PPIE	0.09
Heparin cofactor II	0.08
vWF	0.08
VEGF sR2	0.08
CD36 ANTIGEN	0.08
TSG 6	0.08
sRAGE	0.08
TLR4 MD 2 complex	0.07
Galectin 3	0.07
CLM6	0.07
a1 Antitrypsin	0.07
DAF	0.07
GPVI	0.07
sFRP 3	0.07
gp130 soluble	0.07
Coagulation Factor V	0.07
sTie 2	0.07
b Endorphin	0.07
Spondin 1	0.07
Apo E3	0.07
CATZ	0.07
MMP 12	0.06
NRP1	0.06
NXPH1	0.06
Apo E2	0.06
C4b	0.06
HAI 1	0.06
Endoglin	0.06
MP2K2	0.05
G CSF	0.05
WISP 1	0.05
CD27	0.05
Luteinizing hormone	0.05
MIP 1a	0.05
ADAMTS 5	0.05
IL 17 RD	0.05
MMP 1	0.05
RET	0.05
complement factor H related 5	0.05

IGFBP 7	0.05
BPI	0.05
Cathepsin A	0.05
annexin II	0.05
IL 5 Ra	0.04
Cathepsin B	0.04
ROR1	0.04
EPHB2	0.04
CD23	0.04
IGFBP 3	0.04
Semaphorin 3A	0.04
OX2G	0.04
Carbonic anhydrase XIII	0.04
Angiotensinogen	0.04
Met	0.03
IL 1 sRI	0.03
IL 17B R	0.03
FCRL3	0.03
MAPKAPK3	0.03
IL 18 Rb	0.03
GFRa 2	0.03
Cystatin C	0.03
Kallikrein 7	0.03
UNC5H3	0.03
Apo E	0.03
Eotaxin	0.03
TFPI	0.03
Alkaline phosphatase bone	0.03
Factor I	0.03
PIGR	0.03
CAPG	0.03
a1 Antichymotrypsin	0.02
NKp30	0.02
CD30 Ligand	0.02
Contactin 5	0.02
NCAM 120	0.02
MMP 7	0.02
NAGK	0.02
Elafin	0.02
CAMK1D	0.02

FCG3B	0.02
contactin 1	0.02
Ficolin 3	0.02
CLC1B	0.02
MO2R1	0.02
Trypsin 2	0.02
PLXC1	0.02
ST4S6	0.02
ETHE1	0.01
ER	0.01
LY9	0.01
Catalase	0.01
Nidogen	0.01
IL 12 Rb1	0.01
TPSB2	0.01
IL 15 Ra	0.01
RGM C	0.01
Apo E4	0.01
KI2L4	0.01
IL 1Rrp2	0.01
RELT	0.01
uPA	0.01
Contactin 4	0.01
SIRT2	0.01
JAG1	0.01
Fibronectin	0.01
Layilin	0.01
ARSB	0.01
DBNL	0.01
IL 19	0.01
GPNMB	0.01
TCCR	0.01
SPHK2	0.01
TARC	0.005
IL 5	0.004
IL 23 R	0.004
IL 27	0.003
CK MB	0.003
MASP3	0.003
6Ckine	0.003

IL 1a	0.003
LCMT1	0.002
IL 10 Rb	0.002
IL 11 RA	0.002
MMP 8	0.002
TF	0.001
PGRP S	0.001
TIMP 2	0.001
STAB2	0.001
Myeloperoxidase	0.001
MIF	0.001
discoidin domain receptor 1	0.001
MIP 3b	0.001
Ferritin	0.001
BCAM	0.001
C8	0.001
CD48	0.001
DnaJ homolog	0.000
FN1 3	0.000
GFRa 1	0.000
PDE3A	0.000
FCG2A B	0.000
BSSP4	0.000
Mesothelin	0.000
DKK3	0.000
FN1 4	0.000
OCAD1	0.000
NKG2D	0.000
Endothelin converting enzyme 1	0.000
MIS	0.000
Notch 1	0.000
PSA	0.000

Supplementary Table 5: Significant associations between a genetically predicted protein levels and a EHR phenotype (FDR $q < 0.1$).

Association statistics are shown for each of the predictors generated for the protein.

Protein Identifier	Clinical phenotype/diagnosis	Phenotype category	Cases	Controls	Odds-ratio	95% confidence interval	p-value	FDR p-value
Angiotensinogen	Degeneration of intervertebral disc	Joint disease	4,074	26,083	1.07	(1.04-1.11)	1.5E-05	2.3E-02
annexin II	Cellulitis and abscess of fingers/toes	Dermatology	977	30,631	0.88	(0.82-0.94)	9.5E-05	9.9E-02
Apo E	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.07	(1.04-1.11)	6.2E-06	1.1E-02
Apo E	Hyperlipidemia	Lipid disorders	22,646	14,038	1.05	(1.02-1.07)	4.7E-05	5.9E-02
Apo E	Disorders of lipid metabolism	Lipid disorders	22,733	14,038	1.05	(1.02-1.07)	6.2E-05	7.4E-02
Apo E2	Dementias	Dementias	1,832	28,323	1.42	(1.34-1.50)	1.1E-35	2.6E-30
Apo E2	Alzheimer's disease	Dementias	829	24,093	1.62	(1.49-1.75)	1.3E-31	1.4E-26
Apo E2	Delirium dementia and amnestic and other cognitive disorders	Dementias	2,478	28,323	1.28	(1.23-1.34)	6.4E-27	3.7E-22
Apo E2	Other persistent mental disorders due to conditions classified el	Dementias	1,516	29,922	1.27	(1.20-1.34)	4.6E-17	9.6E-13
Apo E2	Memory loss	Dementias	1,189	29,922	1.26	(1.18-1.33)	7.6E-14	7.6E-10
Apo E2	Hyperlipidemia	Lipid disorders	22,646	14,038	1.09	(1.06-1.11)	1.2E-12	1.0E-08
Apo E2	Disorders of lipid metabolism	Lipid disorders	22,733	14,038	1.09	(1.06-1.11)	1.5E-12	1.2E-08
Apo E2	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.10	(1.07-1.14)	4.1E-10	2.3E-06
Apo E2	Senile dementia	Dementias	558	12,015	1.34	(1.21-1.47)	6.0E-09	2.9E-05
Apo E2	Neurological disorders	Dementias	4,351	30,977	1.10	(1.06-1.14)	1.4E-08	5.6E-05
Apo E2	Macular degeneration (senile) of retina NOS	Eye disorders	1,094	21,702	0.83	(0.77-0.89)	1.7E-07	5.3E-04
Apo E2	Specific nonpsychotic mental disorders due to brain damage	Dementias	461	22,355	1.31	(1.18-1.45)	2.4E-07	7.2E-04
Apo E2	Mixed hyperlipidemia	Lipid disorders	5,717	14,137	1.07	(1.04-1.11)	1.7E-05	2.5E-02
Apo E2	Hyperglyceridemia	Lipid disorders	953	12,638	1.16	(1.08-1.25)	7.3E-05	8.3E-02
Apo E3	Dementias	Dementias	1,832	28,323	1.36	(1.29-1.44)	8.4E-28	6.5E-23
Apo E3	Alzheimer's disease	Dementias	829	24,093	1.51	(1.39-1.64)	1.4E-23	6.2E-19
Apo E3	Delirium dementia and amnestic and other cognitive disorders	Dementias	2,478	28,323	1.25	(1.19-1.30)	4.3E-21	1.2E-16

Apo E3	Other persistent mental disorders due to conditions classified el	Dementias	1,516	29,922	1.24	(1.18-1.32)	2.7E-14	3.5E-10
Apo E3	Hyperlipidemia	Lipid disorders	22,646	14,038	1.09	(1.07-1.12)	6.0E-14	6.3E-10
Apo E3	Disorders of lipid metabolism	Lipid disorders	22,733	14,038	1.09	(1.07-1.11)	9.1E-14	8.4E-10
Apo E3	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.12	(1.08-1.15)	4.5E-12	3.2E-08
Apo E3	Memory loss	Dementias	1,189	29,922	1.23	(1.15-1.30)	3.7E-11	2.5E-07
Apo E3	Hyperglyceridemia	Lipid disorders	953	12,638	1.20	(1.12-1.29)	8.7E-07	2.3E-03
Apo E3	Neurological disorders	Dementias	4,351	30,977	1.08	(1.05-1.12)	1.4E-06	3.3E-03
Apo E3	Senile dementia	Dementias	558	12,015	1.27	(1.15-1.40)	1.5E-06	3.6E-03
Apo E3	Mixed hyperlipidemia	Lipid disorders	5,717	14,137	1.08	(1.05-1.12)	1.5E-06	3.6E-03
Apo E3	Macular degeneration (senile) of retina NOS	Eye disorders	1,094	21,702	0.85	(0.79-0.91)	2.6E-06	5.4E-03
Apo E3	Specific nonpsychotic mental disorders due to brain damage	Dementias	461	22,355	1.27	(1.15-1.41)	4.3E-06	8.5E-03
Apo E3	Calculus of bile duct	Liver disease	308	32,702	0.80	(0.71-0.89)	7.5E-05	8.3E-02
Apo E4	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.07	(1.04-1.11)	5.7E-06	1.0E-02
Apo E4	Hyperlipidemia	Lipid disorders	22,646	14,038	1.05	(1.02-1.07)	4.3E-05	5.6E-02
Apo E4	Disorders of lipid metabolism	Lipid disorders	22,733	14,038	1.05	(1.02-1.07)	5.8E-05	6.9E-02
ASAHL	Chronic liver disease and cirrhosis	Liver disease	2,064	28,645	1.10	(1.05-1.15)	8.7E-05	9.4E-02
ATS13	Pancytopenia	Other	613	20,955	0.86	(0.80-0.92)	4.6E-05	5.8E-02
ATS13	Aplastic anemia	Other	841	22,449	0.88	(0.82-0.94)	8.2E-05	8.9E-02
BCAM	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	1.14	(1.08-1.20)	1.3E-06	3.3E-03
BCAM	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	1.09	(1.05-1.13)	3.4E-06	6.9E-03
BCAM	Disorder of skin and subcutaneous tissue NOS	Dermatology	4,036	32,157	0.92	(0.88-0.95)	9.8E-06	1.6E-02
C4	Type 1 diabetes with renal manifestations	Autoimmune	311	17,918	0.71	(0.63-0.79)	2.0E-09	1.2E-05
C4	Type 1 diabetes with ophthalmic manifestations	Autoimmune	324	17,982	0.72	(0.64-0.80)	7.0E-09	3.2E-05
C4	Type 1 diabetes with neurological manifestations	Autoimmune	498	20,002	0.79	(0.72-0.86)	2.3E-07	6.9E-04
C4	Diabetic retinopathy	Eye disorders	1,211	29,679	0.86	(0.81-0.92)	1.4E-06	3.4E-03
C4	Psoriasis and related disorders	Autoimmune	911	29,298	1.18	(1.10-1.26)	2.6E-06	5.4E-03
C4	Nephritis and nephropathy without mention of glomerulonephritis	Kidney disease	911	27,526	0.85	(0.80-0.91)	5.2E-06	9.6E-03
C4	Psoriasis vulgaris	Autoimmune	718	29,298	1.19	(1.10-1.29)	5.8E-06	1.0E-02

C4	Lupus (localized and systemic)	Autoimmune	430	28,681	0.81	(0.73-0.89)	1.1E-05	1.8E-02
C4	Systemic lupus erythematosus	Autoimmune	379	26,373	0.80	(0.72-0.88)	1.5E-05	2.3E-02
C4	Psoriasis	Autoimmune	848	29,298	1.17	(1.09-1.25)	1.6E-05	2.5E-02
C4	Urinary calculus	Kidney disease	2,291	37,065	1.10	(1.05-1.15)	2.7E-05	3.9E-02
C4	Nephritis and nephropathy in diseases classified elsewhere	Kidney disease	658	25,534	0.85	(0.79-0.92)	6.9E-05	8.0E-02
C4b	Rheumatoid arthritis and other inflammatory polyarthropathies	Autoimmune	1,896	31,665	0.88	(0.84-0.92)	9.3E-08	3.1E-04
C4b	Rheumatoid arthritis	Autoimmune	1,535	31,665	0.88	(0.84-0.93)	9.7E-07	2.5E-03
C4b	Open-angle glaucoma	Eye disorders	1,639	26,718	0.89	(0.84-0.94)	1.4E-05	2.2E-02
Catalase	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.07	(1.04-1.10)	1.1E-05	1.8E-02
Cathepsin B	Shock	Other	975	26,212	1.16	(1.08-1.24)	4.6E-05	5.8E-02
Cathepsin B	Vascular hamartomas and non-neoplastic nevi	Dermatology	425	26,323	0.80	(0.72-0.89)	5.1E-05	6.3E-02
CD36 ANTIGEN	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.84	(0.81-0.87)	1.6E-23	6.2E-19
CD36 ANTIGEN	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.82	(0.78-0.86)	1.4E-15	2.5E-11
CD36 ANTIGEN	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.84	(0.79-0.89)	1.0E-09	6.8E-06
CD36 ANTIGEN	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.84	(0.80-0.89)	2.0E-09	1.0E-05
CD36 ANTIGEN	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.84	(0.78-0.89)	6.0E-08	2.1E-04
CD36 ANTIGEN	Pulmonary heart disease	Thrombosis	3,648	30,986	0.91	(0.88-0.94)	6.7E-08	2.3E-04
CD36 ANTIGEN	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	0.93	(0.90-0.96)	7.0E-07	1.9E-03
CD36 ANTIGEN	Arterial embolism and thrombosis of lower extremity artery	Thrombosis	301	20,938	0.78	(0.70-0.86)	1.1E-06	2.9E-03
CD36 ANTIGEN	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.87	(0.82-0.92)	2.2E-06	4.8E-03
CD36 ANTIGEN	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	0.85	(0.79-0.92)	1.2E-05	2.0E-02
CD36 ANTIGEN	Coagulation defects	Thrombosis	2,623	28,488	0.92	(0.89-0.96)	4.2E-05	5.5E-02
CD36 ANTIGEN	Hypercoagulable state	Thrombosis	382	25,700	0.83	(0.75-0.91)	7.2E-05	8.2E-02
CLC1B	Atherosclerosis of the extremities	Atherosclerosis	2,683	24,460	1.14	(1.09-1.18)	3.0E-09	1.5E-05
CLC1B	Atherosclerosis of native arteries of the extremities with interm	Atherosclerosis	1,680	23,573	1.14	(1.08-1.20)	1.3E-06	3.3E-03
CLC1B	Peripheral vascular disease, unspecified	Atherosclerosis	3,493	24,460	1.09	(1.05-1.13)	1.8E-06	4.1E-03
CLC1B	Atherosclerosis	Atherosclerosis	4,987	24,460	1.08	(1.05-1.12)	2.3E-06	4.9E-03
CLC1B	Peripheral vascular disease	Atherosclerosis	4,057	26,108	1.08	(1.04-1.12)	8.2E-06	1.4E-02

Coagulation Factor XI	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	1.12	(1.08-1.16)	4.0E-09	1.8E-05
Coagulation Factor XI	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	1.13	(1.07-1.20)	4.9E-06	9.5E-03
Coagulation Factor XI	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	1.15	(1.08-1.22)	2.2E-05	3.2E-02
Coagulation Factor XI	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	1.18	(1.09-1.27)	2.9E-05	4.1E-02
Contactin 5	Hyperpotasemia	Other	2,212	25,728	1.09	(1.05-1.14)	5.5E-05	6.7E-02
Cystatin C	Carcinoma in situ of skin	Dermatology	676	29,260	0.86	(0.80-0.92)	2.9E-05	4.0E-02
CYTN	Seborrheic keratosis	Autoimmune	5,997	26,429	0.94	(0.91-0.97)	4.1E-05	5.5E-02
DC SIGN	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	1.16	(1.12-1.21)	2.4E-16	4.5E-12
DC SIGN	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	1.22	(1.16-1.29)	3.0E-14	3.6E-10
DC SIGN	Acute pulmonary heart disease	Thrombosis	1,138	30,986	1.16	(1.09-1.23)	9.7E-07	2.5E-03
DC SIGN	Pulmonary heart disease	Thrombosis	3,648	30,986	1.09	(1.05-1.13)	1.8E-06	4.1E-03
DC SIGN	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	1.07	(1.04-1.11)	1.8E-06	4.1E-03
DC SIGN	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	1.16	(1.09-1.24)	1.9E-06	4.2E-03
DC SIGN	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	1.15	(1.09-1.22)	2.7E-06	5.5E-03
DC SIGN	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	1.19	(1.10-1.28)	5.6E-06	1.0E-02
DC SIGN	Arterial embolism and thrombosis	Thrombosis	829	27,237	1.16	(1.09-1.24)	1.7E-05	2.6E-02
Endoglin	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.91	(0.87-0.94)	1.8E-07	5.5E-04
EphA1	Cardiac shunt/ heart septal defect	Other	534	35,498	0.86	(0.80-0.93)	6.5E-05	7.6E-02
Factor H	Macular degeneration (senile) of retina NOS	Eye disorders	1,094	21,702	0.74	(0.69-0.80)	1.6E-15	2.5E-11
Factor H	Degeneration of macula and posterior pole of retina	Eye disorders	3,441	24,814	0.85	(0.81-0.89)	1.2E-12	1.0E-08
Factor H	Macular degeneration, dry	Eye disorders	1,178	21,702	0.76	(0.70-0.82)	1.3E-12	1.0E-08
Factor H	Macular degeneration, wet	Eye disorders	443	21,035	0.68	(0.61-0.75)	2.2E-12	1.6E-08
Factor H	Drusen (degenerative) of retina	Eye disorders	697	24,005	0.78	(0.72-0.86)	6.5E-08	2.3E-04
Factor H	Other retinal disorders	Eye disorders	4,828	29,679	0.91	(0.88-0.94)	4.9E-07	1.4E-03
Factor I	Abnormal serum enzyme levels	Liver disease	1,433	28,841	1.12	(1.06-1.18)	5.6E-05	6.8E-02
Factor I	Gram negative septicemia	Other	520	26,281	1.20	(1.10-1.31)	7.0E-05	8.0E-02

FCRL3	Disorders of optic nerve and visual pathways	Eye disorders	703	27,398	0.83	(0.76-0.91)	4.2E-05	5.6E-02
GRN	Hyperlipidemia	Lipid disorders	22,646	14,038	1.08	(1.05-1.10)	8.1E-11	5.2E-07
GRN	Disorders of lipid metabolism	Lipid disorders	22,733	14,038	1.08	(1.05-1.10)	1.3E-10	7.9E-07
GRN	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.09	(1.06-1.13)	1.0E-08	4.2E-05
GRN	Mixed hyperlipidemia	Lipid disorders	5,717	14,137	1.08	(1.05-1.12)	5.1E-06	9.6E-03
Hemopexin	Degeneration of macula and posterior pole of retina	Eye disorders	3,441	24,814	1.15	(1.11-1.20)	3.2E-11	2.1E-07
Hemopexin	Macular degeneration (senile) of retina NOS	Eye disorders	1,094	21,702	1.23	(1.15-1.32)	2.0E-09	9.5E-06
Hemopexin	Macular degeneration, dry	Eye disorders	1,178	21,702	1.24	(1.16-1.33)	2.0E-09	1.2E-05
Hemopexin	Other retinal disorders	Eye disorders	4,828	29,679	1.11	(1.07-1.15)	4.6E-08	1.7E-04
Hemopexin	Drusen (degenerative) of retina	Eye disorders	697	24,005	1.23	(1.13-1.34)	8.9E-07	2.3E-03
IGF II receptor	Other inflammatory spondylopathies	Autoimmune	428	29,069	0.83	(0.75-0.91)	6.5E-05	7.6E-02
IGFBP 3	Nontoxic uninodular goiter	Other	978	29,343	1.17	(1.09-1.24)	3.4E-06	6.9E-03
IGFBP 3	Nontoxic nodular goiter	Other	1,656	30,402	1.12	(1.07-1.18)	5.2E-06	9.6E-03
IGFBP 3	Nontoxic multinodular goiter	Other	905	29,343	1.15	(1.07-1.23)	6.4E-05	7.6E-02
IL 27	Hypercholesterolemia	Lipid disorders	8,511	13,436	1.07	(1.03-1.10)	3.6E-05	4.9E-02
IR	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.87	(0.84-0.90)	3.4E-14	4.0E-10
IR	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.87	(0.82-0.91)	9.9E-08	3.2E-04
IR	Pulmonary heart disease	Thrombosis	3,648	30,986	0.92	(0.89-0.95)	8.2E-07	2.2E-03
IR	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.87	(0.82-0.92)	2.0E-06	4.4E-03
IR	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.87	(0.82-0.92)	2.1E-06	4.5E-03
JAG1	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.87	(0.84-0.90)	2.4E-15	3.5E-11
JAG1	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.85	(0.80-0.89)	1.9E-10	1.1E-06
JAG1	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.88	(0.83-0.93)	1.9E-05	2.8E-02
JAG1	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.88	(0.83-0.94)	5.0E-05	6.2E-02
JAG1	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.89	(0.84-0.94)	5.9E-05	7.0E-02
MCP 3	Palpitations	Other	4,037	18,634	1.07	(1.04-1.11)	9.0E-05	9.6E-02
Met	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.89	(0.86-0.92)	1.7E-10	9.8E-07
Met	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.87	(0.82-0.91)	9.6E-08	3.1E-04

Met	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	0.93	(0.91-0.96)	4.4E-06	8.6E-03
Met	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.87	(0.82-0.93)	5.1E-06	9.6E-03
Met	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.86	(0.80-0.92)	5.3E-06	9.6E-03
Met	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	0.84	(0.78-0.91)	5.9E-06	1.0E-02
Met	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.88	(0.83-0.93)	6.0E-06	1.0E-02
Met	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.87	(0.82-0.92)	7.0E-06	1.2E-02
Met	Pulmonary heart disease	Thrombosis	3,648	30,986	0.93	(0.90-0.96)	1.8E-05	2.7E-02
Met	Arterial embolism and thrombosis of lower extremity artery	Thrombosis	301	20,938	0.80	(0.72-0.89)	4.6E-05	5.8E-02
MICA	Occlusion and stenosis of precerebral arteries	Atherosclerosis	3,784	27,696	1.08	(1.04-1.11)	7.9E-05	8.8E-02
MICA	Psoriasis and related disorders	Autoimmune	911	29,298	0.87	(0.81-0.93)	9.6E-05	1.0E-01
MICB	Psoriasis and related disorders	Autoimmune	911	29,298	1.23	(1.15-1.32)	7.0E-09	3.2E-05
MICB	Psoriasis vulgaris	Autoimmune	718	29,298	1.25	(1.16-1.36)	1.4E-08	5.6E-05
MICB	Type 1 diabetes with renal manifestations	Autoimmune	311	17,918	0.74	(0.66-0.82)	1.6E-08	6.2E-05
MICB	Type 1 diabetes with ophthalmic manifestations	Autoimmune	324	17,982	0.74	(0.67-0.83)	2.8E-08	1.1E-04
MICB	Psoriasis	Autoimmune	848	29,298	1.22	(1.14-1.31)	5.8E-08	2.1E-04
MICB	Chronic renal failure [CKD]	Kidney disease	5,972	27,526	0.94	(0.91-0.96)	9.3E-06	1.5E-02
MICB	Type 1 diabetes with neurological manifestations	Autoimmune	498	20,002	0.84	(0.77-0.91)	5.0E-05	6.3E-02
MICB	Urinary calculus	Kidney disease	2,291	37,065	1.09	(1.05-1.14)	5.3E-05	6.5E-02
MICB	Renal failure	Kidney disease	8,336	27,526	0.95	(0.93-0.98)	9.3E-05	9.8E-02
MMP 8	Systemic lupus erythematosus	Autoimmune	379	26,373	0.79	(0.70-0.88)	4.2E-05	5.5E-02
NPS PLA2	Infection/inflammation of internal prosthetic device; implant; an	Other	1,320	35,668	1.13	(1.07-1.19)	2.4E-05	3.5E-02
OX2G	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.84	(0.81-0.87)	1.9E-22	6.2E-18
OX2G	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.82	(0.78-0.86)	2.6E-14	3.5E-10
OX2G	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.85	(0.80-0.89)	6.0E-09	2.7E-05
OX2G	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.85	(0.81-0.90)	1.5E-08	6.2E-05
OX2G	Pulmonary heart disease	Thrombosis	3,648	30,986	0.92	(0.89-0.95)	4.8E-07	1.4E-03

OX2G	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.86	(0.81-0.92)	8.0E-06	1.4E-02
OX2G	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	0.94	(0.91-0.96)	1.3E-05	2.0E-02
OX2G	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.88	(0.83-0.93)	2.1E-05	3.0E-02
OX2G	Hypercoagulable state	Thrombosis	382	25,700	0.82	(0.74-0.90)	2.6E-05	3.7E-02
OX2G	Coagulation defects	Thrombosis	2,623	28,488	0.92	(0.88-0.96)	3.4E-05	4.7E-02
P Selectin	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.89	(0.86-0.92)	8.6E-11	5.3E-07
P Selectin	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.86	(0.82-0.91)	3.2E-08	1.2E-04
P Selectin	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.87	(0.82-0.93)	8.9E-05	9.6E-02
P Selectin	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.89	(0.84-0.94)	9.1E-05	9.6E-02
PCSK7	Atherosclerosis of native arteries of the extremities with ulcers	Atherosclerosis	487	26,108	1.23	(1.12-1.36)	1.8E-05	2.7E-02
PDGF Rb	Acute, but ill-defined cerebrovascular disease	Atherosclerosis	1,184	28,518	0.88	(0.83-0.94)	4.6E-05	5.8E-02
PDGF Rb	Fever of unknown origin	Other	5,223	32,052	0.94	(0.91-0.97)	7.3E-05	8.3E-02
PPAC	Peripheral enthesopathies and allied syndromes	Joint disease	8,354	23,812	1.06	(1.03-1.09)	4.4E-05	5.7E-02
PPAC	Suppurative and unspecified otitis media	Eye disorders	1,123	34,873	1.13	(1.07-1.20)	7.0E-05	8.0E-02
PPAC	Hepatitis NOS	Liver disease	306	29,453	1.24	(1.12-1.39)	9.2E-05	9.7E-02
RGM C	Dyschromia and Vitiligo	Autoimmune	1,591	30,869	1.11	(1.05-1.17)	7.0E-05	8.0E-02
sE Selectin	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.85	(0.82-0.88)	6.3E-19	1.6E-14
sE Selectin	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.82	(0.78-0.86)	5.7E-14	6.2E-10
sE Selectin	Pulmonary heart disease	Thrombosis	3,648	30,986	0.91	(0.88-0.94)	2.1E-08	8.0E-05
sE Selectin	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.86	(0.81-0.91)	8.0E-08	2.7E-04
sE Selectin	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.86	(0.81-0.91)	2.3E-07	6.9E-04
sE Selectin	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.84	(0.79-0.90)	3.1E-07	8.7E-04
sE Selectin	Arterial embolism and thrombosis of lower extremity artery	Thrombosis	301	20,938	0.77	(0.69-0.86)	1.9E-06	4.2E-03
sE Selectin	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	0.93	(0.91-0.96)	4.4E-06	8.7E-03
sE Selectin	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.87	(0.82-0.92)	5.2E-06	9.6E-03
sE Selectin	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	0.85	(0.79-0.92)	2.0E-05	2.9E-02
sE Selectin	Occlusion of cerebral arteries	Atherosclerosis	1,772	29,416	0.91	(0.87-0.95)	8.0E-05	8.8E-02

sE Selectin	Hypercoagulable state	Thrombosis	382	25,700	0.83	(0.75-0.91)	9.5E-05	9.9E-02
Semaphorin 3E	Cardiac and circulatory congenital anomalies	Other	1,251	38,927	0.90	(0.85-0.95)	7.4E-05	8.3E-02
Siglec 6	Pain in joint	Joint disease	16,646	19,613	1.05	(1.02-1.07)	4.2E-05	5.5E-02
sLeptin R	Corneal opacity and other disorders of cornea	Eye disorders	888	26,718	0.86	(0.80-0.92)	3.0E-05	4.2E-02
sRAGE	Rheumatoid arthritis	Autoimmune	1,535	31,665	0.88	(0.84-0.92)	7.8E-08	2.7E-04
sRAGE	Rheumatoid arthritis and other inflammatory polyarthropathies	Autoimmune	1,896	31,665	0.90	(0.86-0.94)	1.3E-06	3.3E-03
ST4S6	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.88	(0.85-0.92)	1.4E-11	1.0E-07
ST4S6	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.86	(0.82-0.90)	1.1E-08	4.7E-05
ST4S6	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.89	(0.84-0.94)	4.5E-05	5.8E-02
ST4S6	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.87	(0.81-0.93)	5.5E-05	6.7E-02
ST4S6	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.89	(0.84-0.94)	8.7E-05	9.4E-02
sTie 1	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	1.15	(1.10-1.21)	3.4E-08	1.3E-04
sTie 1	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	1.10	(1.06-1.14)	1.3E-07	4.1E-04
sTie 1	Other persistent mental disorders due to conditions classified el	Dementias	1,516	29,922	1.11	(1.06-1.17)	6.9E-05	8.0E-02
TF	Cardiac congenital anomalies	Other	1,059	38,927	1.15	(1.08-1.22)	5.3E-06	9.6E-03
VEGF sR2	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.85	(0.82-0.89)	6.7E-18	1.5E-13
VEGF sR2	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	0.82	(0.78-0.86)	9.1E-14	8.4E-10
VEGF sR2	Arterial embolism and thrombosis	Thrombosis	829	27,237	0.84	(0.78-0.90)	2.7E-07	7.9E-04
VEGF sR2	Acute pulmonary heart disease	Thrombosis	1,138	30,986	0.86	(0.81-0.91)	2.9E-07	8.3E-04
VEGF sR2	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	0.86	(0.81-0.91)	5.5E-07	1.5E-03
VEGF sR2	Pulmonary heart disease	Thrombosis	3,648	30,986	0.92	(0.89-0.95)	1.6E-06	3.8E-03
VEGF sR2	Arterial embolism and thrombosis of lower extremity artery	Thrombosis	301	20,938	0.78	(0.70-0.87)	8.3E-06	1.4E-02
VEGF sR2	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	0.87	(0.82-0.93)	1.2E-05	1.9E-02
VEGF sR2	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	0.94	(0.91-0.97)	1.9E-05	2.8E-02
VEGF sR2	Other and unspecified coagulation defects	Thrombosis	1,176	24,191	0.89	(0.83-0.94)	4.1E-05	5.5E-02

VEGF sR2	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	0.86	(0.80-0.92)	5.4E-05	6.6E-02
VEGF sR2	Occlusion of cerebral arteries	Atherosclerosis	1,772	29,416	0.91	(0.87-0.95)	7.5E-05	8.3E-02
VEGF sR2	Acute, but ill-defined cerebrovascular disease	Atherosclerosis	1,184	28,518	0.89	(0.84-0.94)	8.6E-05	9.3E-02
VEGF sR3	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	0.92	(0.89-0.96)	3.0E-05	4.2E-02
vWF	Other venous embolism and thrombosis	Thrombosis	3,537	23,786	1.16	(1.12-1.20)	1.5E-15	2.5E-11
vWF	Deep vein thrombosis [DVT]	Thrombosis	1,491	23,786	1.20	(1.14-1.26)	1.3E-12	1.0E-08
vWF	Acute pulmonary heart disease	Thrombosis	1,138	30,986	1.15	(1.09-1.22)	1.8E-06	4.1E-03
vWF	Pulmonary heart disease	Thrombosis	3,648	30,986	1.08	(1.05-1.12)	4.5E-06	8.7E-03
vWF	Pulmonary embolism and infarction, acute	Thrombosis	1,098	30,986	1.14	(1.08-1.21)	5.0E-06	9.6E-03
vWF	Phlebitis and thrombophlebitis	Thrombosis	1,098	23,786	1.15	(1.08-1.22)	7.3E-06	1.2E-02
vWF	Phlebitis and thrombophlebitis of lower extremities	Thrombosis	753	23,786	1.18	(1.10-1.27)	8.7E-06	1.4E-02
vWF	Encounter for long-term (current) use of anticoagulants	Thrombosis	5,688	28,488	1.06	(1.03-1.10)	2.9E-05	4.0E-02

Supplementary Table 6: Summary of associations for proteins associated with thrombosis phenotype. Shown are associated with either "Deep vein thrombosis" (n=1,491 case) or "Other venous embolism and thrombosis" (n=3,537 cases). A "Yes" in the ABO column indicates that the association was not significant ($p > 0.01$) when SNPs located in the ABO region were removed from the predictor.

Protein	Cases	Controls	ABO	Odds-ratio	95% CI	p-value
BCAM	1,491	23,786	Yes	1.14	(1.08-1.20)	1.3×10^{-6}
CD36 Antigen	3,537	23,786	Yes	0.84	(0.81-0.87)	1.6×10^{-23}
F11	3,537	23,786	No	1.12	(1.08-1.16)	4.0×10^{-9}
DC SIGN	3,537	23,786	No	1.16	(1.12-1.21)	2.4×10^{-16}
Endoglin	3,537	23,786	Yes	0.91	(0.87-0.94)	1.8×10^{-7}
INSR	3,537	23,786	Yes	0.87	(0.84-0.90)	3.4×10^{-14}
JAG1	3,537	23,786	Yes	0.87	(0.84-0.90)	2.4×10^{-15}
Met	3,537	23,786	Yes	0.89	(0.86-0.92)	1.7×10^{-10}
OX2G	3,537	23,786	Yes	0.84	(0.81-0.87)	1.9×10^{-22}
P-Selectin	3,537	23,786	Yes	0.89	(0.86-0.92)	8.6×10^{-11}
sE-Selectin	3,537	23,786	Yes	0.85	(0.82-0.88)	6.3×10^{-19}
ST4S6	3,537	23,786	No	0.88	(0.85-0.92)	1.4×10^{-11}
sTie-1	1,491	23,786	No	1.15	(1.10-1.21)	3.4×10^{-8}
VEGF-sR2	3,537	23,786	Yes	0.85	(0.82-0.89)	6.7×10^{-18}
VEGF-sR3	3,537	23,786	Yes	0.92	(0.89-0.96)	3.0×10^{-5}
vWF	3,537	23,786	Yes	1.16	(1.12-1.20)	1.5×10^{-15}

Supplementary Table 7: Partial correlation coefficients and r-squared values for genetically predicted levels of the lipid and atherosclerosis proteins and measured levels of the proteins in the MDCS data set. The Pearson's correlation coefficient was adjusted for age and sex, between the genetically predicted and measured levels of the protein.

Category	Protein	Partial correlation	r-square
Lipids	ApoE	0.17	0.03
Lipids	ApoE2	0.25	0.06
Lipids	ApoE3	0.26	0.07
Lipids	ApoE4	0.10	0.01
Lipids	Catalase	0.11	0.01
Lipids	GRN	0.38	0.14
Lipids	IL-27	0.06	0.003
Atherosclerosis	CLC1B	0.14	0.02
Atherosclerosis	MICA	0.66	0.44
Atherosclerosis	PCSK7	0.44	0.20
Atherosclerosis	PDGFR- β	0.79	0.62
Atherosclerosis	sE-Selectin	0.59	0.35
Atherosclerosis	VEGF-sR2	0.28	0.08