

Supplementary Table 3: Genotype models of all 72 gene variants with PBF scores of 6 year old European children from the Children of SCOPE cohort.

Model	CHR	Gene	SNP	Genotype	Frequency	Effect (β) (95% CI)	<i>p</i> -value	Genotypic <i>p</i> value	Genotypic <i>q</i> value
Genotypic	2	TMEM18	rs6548238	C/C	669	-	-	0.0042	0.2484
				C/T	240	-1.27[-2.18~-0.361]	0.0063		
				T/T	26	-2.65[-5.10~-0.210]	0.0333		
Genotypic	7	NYP	rs17149106	G/G	877	-	-	0.0069	0.2484
				G/T	62	2.18[0.399~3.76]	0.0069		
				T/T	0	-	-		
Genotypic	3	ETV5	rs7647305	C/C	532	-	-	0.0105	0.2520
				C/T	345	0.00367[-0.844~0.837]	0.9932		
				T/T	53	2.64[0.897~4.39]	0.0030		
Genotypic	12	TIMELESS	rs4630333	G/G	378	-	-	0.0160	0.2736
				G/A	325	-1.36[-2.29~-0.432]	0.0041		
				A/A	81	-0.787[-2.28~0.711]	0.3029		
Genotypic	7	NYP	rs16139	A/A	869	-	-	0.0209	0.2736
				A/G	62	2.06[0.472~3.64]	0.0110		
				G/G	1	7.08[-4.96~19.12]	0.2487		
Genotypic	16	FTO	rs9939609	T/T	356	-	-	0.0228	0.2736
				T/A	441	0.955[0.0873~1.82]	0.0310		
				A/A	137	1.51[0.287~2.73]	0.0156		
Genotypic	11	UCP2	rs659366	C/C	382	-	-	0.0341	0.3207
				C/T	432	1.07[0.211~1.92]	0.0146		
				T/T	120	0.0275[-1.25~1.30]	0.9662		

Genotypic	15	MAP2K5	rs2241423	G/G G/A A/A	524 361 50	- -0.0530[-0.886~0.780] 2.25[0.450~4.05]	- 0.9006 0.0143	0.0416	0.3664
Genotypic	12	FAIM2	rs7138803	G/G G/A A/A	382 429 121	- 1.07[0.208~1.92] 0.856[-0.411~2.12]	- 0.0149 0.1853	0.0458	0.3664
Genotypic	16	FTO	rs1421085	T/T T/C C/C	347 445 141	- 1.02[0.144~1.89] 0.990[-0.227~2.21]	- 0.0224 0.1109	0.0564	0.4061
Genotypic	16	SH2B1	rs7498665	A/A A/G G/G	359 484 97	- 0.859[0.0114~1.71] 1.28[-0.102~2.67]	- 0.0470 0.0694	0.0678	0.4438
Genotypic	11	BDNF	rs6265	G/G G/A A/A	618 286 35	- -0.607[-1.48~0.266] -1.54[-3.63~0.557]	- 0.1728 0.1499	0.1760	0.9691
Genotypic	6	TFAP2B	rs987237	A/A A/G G/G	637 279 24	- 0.784[-0.0905~1.66] 1.03[-1.53~3.58]	- 0.0788 0.4299	0.1772	0.9691
Genotypic	2	INSIG2	rs7566605	G/G G/C C/C	424 405 106	- 0.758[-0.0890~1.61] 0.139[-1.19~1.47]	- 0.0794 0.8374	0.2008	0.9691
Genotypic	18	NPC1	rs1805081	A/A A/G G/G	305 463 166	- -0.786[-1.68~0.111] -0.443[-1.62~0.735]	- 0.0858 0.4607	0.2281	0.9691

Genotypic	11	ARNTL	rs3816358	G/G G/T T/T	740 184 12	- 0.466[-0.535~1.47] 3.10[-1.18~7.39]	- 0.3612 0.1554	0.2546	0.9691
Genotypic	3	ADIOPQ	rs266729	C/C C/G G/G	502 367 70	- -0.386[-1.22~0.452] -1.15[-2.70~0.402]	- 0.3668 0.1465	0.2935	0.9691
Genotypic	5	ROBO1	rs1455832	T/T T/C C/C	482 369 74	- 0.322[-0.523~1.17] -0.877[-2.39~0.640]	- 0.4549 0.2568	0.3024	0.9691
Genotypic	11	KCNJ11	rs5219	C/C C/T T/T	387 441 104	- 0.649[-0.201~1.50] 0.465[-0.880~1.81]	- 0.1343 0.4980	0.3203	0.9691
Genotypic	10	PFKP	rs6602024	G/G G/A A/A	767 160 13	- 0.225[-0.825~1.27] -2.43[-5.80~0.938]	- 0.6742 0.1570	0.3242	0.9691
Genotypic	18	MC4R	rs17782313	T/T T/C C/C	566 320 49	- 0.623[-0.229~1.47] 0.437[-1.38~2.25]	- 0.1517 0.6360	0.3482	0.9691
Genotypic	17	SREBF-1	rs2297508	C/C C/G G/G	404 406 120	- -0.582[-1.44~0.277] -0.626[-1.90~0.645]	- 0.1840 0.3339	0.3562	0.9691
Genotypic	2	POMC	rs1042571	C/C C/T T/T	591 301 41	- -0.0703[-0.934~0.793] 1.37[-0.579~3.32]	- 0.8731 0.1680	0.3607	0.9691

Genotypic	2	MCM6	rs4988235	T/T T/C C/C	476 381 80	- -0.395[-1.23~0.444] 0.539[-0.938~2.02]	- 0.3559 0.4741	0.4029	0.9691
Genotypic	5	PCSK1	rs6235	G/G G/C C/C	506 354 76	- -0.478[-1.32~0.368] 0.330[-1.16~1.82]	- 0.2680 0.6632	0.4186	0.9691
Genotypic	16	GPRC5B	rs12444979	C/C C/T T/T	692 217 26	- -0.556[-1.51~0.397] -0.890[-3.30~1.52]	- 0.2525 0.4693	0.4288	0.9691
Genotypic	3	CCNL1/LEKR1	rs900400	T/T T/C C/C	333 457 131	- -0.0354[-0.918~0.847] -0.782[-2.04~0.480]	- 0.9373 0.2244	0.4304	0.9691
Genotypic	17	NR1D1	rs2071427	G/G G/A A/A	513 348 74	- 0.505[-0.342~1.35] 0.494[-1.02~2.00]	- 0.2426 0.5210	0.4688	0.9691
Genotypic	1	SEC16B	rs10913469	T/T T/C C/C	594 311 33	- -0.0176[-0.872~0.836] 1.35[-0.842~3.54]	- 0.9677 0.2272	0.4721	0.9691
Genotypic	1	FAAH	rs324420	C/C C/A A/A	590 301 41	- 0.0313[-0.834~0.897] -1.20[-3.18~0.774]	- 0.9434 0.2328	0.4753	0.9691
Genotypic	1	TNNI3K	rs1514175	C/C C/T T/T	327 432 173	- -0.0481[-0.943~0.847] 0.697[-0.539~1.75]	- 0.9159 0.2990	0.4783	0.9691

Genotypic	4	CLOCK	rs1801260	T/T T/C C/C	516 348 74	- -0.343[-1.19~0.505] -0.795[-2.30~0.708]	- 0.4272 0.2996	0.4954	0.9691
Genotypic	13	OLFM4	rs9568856	G/G G/A A/A	708 214 10	- -0.399[-1.35~0.554] 1.65[-2.40~5.70]	- 0.4115 0.4252	0.5000	0.9691
Genotypic	2	NPAS2	rs11123857	A/A A/G G/G	511 362 61	- -0.242[-1.08~0.600] 0.739[-0.907~2.39]	- 0.5726 0.3784	0.5067	0.9691
Genotypic	17	PEMT	rs936108	A/A A/G G/G	270 482 185	- 0.0480[-0.880~0.976] 0.611[-0.550~1.77]	- 0.9192 0.3019	0.5191	0.9691
Genotypic	16	AGRP	rs5030980	G/G G/A A/A	861 71 3	- 0.765[-0.747~2.28] -1.75[-8.74~5.23]	- 0.3207 0.6223	0.5365	0.9691
Genotypic	17	HOXB5	rs9299	A/A A/G G/G	379 435 119	- 0.0402[-0.816~0.897] -0.644[-1.94~0.653]	- 0.9266 0.3301	0.5576	0.9691
Genotypic	8	MSRA	rs545854	G/G G/C C/C	639 267 29	- 0.429[-0.459~1.32] -0.471[-2.76~1.82]	- 0.3433 0.6870	0.5587	0.9691
Genotypic	8	FABP4	rs1054135	G/G G/A A/A	745 174 14	- -0.298[-1.33~0.730] 1.45[-1.80~4.71]	- 0.5700 0.3811	0.5616	0.9691

Genotypic	5	TSLP	rs3806933	C/C C/T T/T	288 478 168	- -0.442[-1.35~0.466] -0.471[-1.66~0.714]	- 0.3397 0.4357	0.5919	0.9691
Genotypic	6	IGF2R	rs8191754	C/C C/G G/G	697 220 19	- -0.487[-1.44~0.462] 0.106[-2.70~2.92]	- 0.3144 0.9409	0.5954	0.9691
Genotypic	2	ADCY3	rs753529	A/A A/G G/G	310 460 168	- -0.343[-1.24~0.554] 0.159[-1.02~1.33]	- 0.4533 0.7909	0.5985	0.9691
Genotypic	4	CLOCK	rs4864548	G/G G/A A/A	367 401 157	- -0.429[-1.31~0.455] -0.0983[-1.26~1.06]	- 0.3415 0.8682	0.6191	0.9691
Genotypic	2	NPAS2	rs2305160	C/C C/T T/T	412 400 109	- 0.0642[-0.796~0.925] 0.630[-0.687~1.95]	- 0.8836 0.3482	0.6351	0.9691
Genotypic	12	HOXC10	rs7302703	G/G G/A A/A	623 291 21	- 0.0494[-0.814~0.913] 1.25[-1.42~3.92]	- 0.9107 0.3592	0.6566	0.9691
Genotypic	11	IGF2	rs3741205	T/T T/G G/G	517 353 52	- 0.203[-0.635~1.04] 0.758[-0.985~2.50]	- 0.6347 0.3936	0.6611	0.9691
Genotypic	3	FASN	rs426444	T/T T/A A/A	429 396 108	- -0.381[-1.23~0.470] -0.0382[-1.35~1.27]	- 0.3801 0.9544	0.6631	0.9691

Genotypic	13	MTIF3	rs4771122	A/A A/G G/G	570 323 38	- 0.0619[-0.790~0.913] -0.869[-2.91~1.18]	- 0.8866 0.4047	0.6813	0.9691
Genotypic	11	ARNTL1	rs969485	A/A A/G G/G	469 358 92	- -0.0289[-0.885~0.827] 0.566[-0.823~1.95]	- 0.9472	0.6964	0.9691
Genotypic	17	SPACA3/SPRASA	rs16967845	G/G G/A A/A	891 45 0	- 0.323[-1.52~2.17] -	- 0.7309 -	0.7309	0.9691
Genotypic	5	ADRB2	rs1042713	G/G G/A A/A	356 348 233	- -0.263[-1.18~0.657] 0.144[-0.885~1.17]	- 0.5745 0.7834	0.7212	0.9691
Genotypic	6	ENNP1/PC-1	rs1044498	A/A A/C C/C	689 228 20	- 0.146[-0.788~1.08] 1.09[-1.71~3.90]	- 0.7596 0.4443	0.7244	0.9691
Genotypic	17	STAT3	rs8069645	A/A A/G G/G	498 372 60	- 0.0207[-0.819~0.860] 0.665[-0.987~2.32]	- 0.9614 0.4295	0.7261	0.9691
Genotypic	16	MMP2	rs243865	C/C C/T T/T	496 375 67	- -0.301[-1.13~0.534] 0.121[-1.47~1.71]	- 0.4796 0.8815	0.7407	0.9691
Genotypic	3	ADCY5	rs9883204	C/C C/T T/T	517 347 61	- 0.102[-0.747~0.950] 0.613[-1.04~2.26]	- 0.8138 0.4664	0.7641	0.9691

Genotypic	2	NPAS2	rs1811399	T/T T/G G/G	540 337 58	- -0.00945[-0.858~0.839] -0.615[-2.30~1.07]	- 0.9826 0.4732	0.7676	0.9691
Genotypic	3	ADIOPQ	rs1501299	C/C C/A A/A	526 341 66	- 0.126[-0.724~0.976] 0.561[-1.03~2.15]	- 0.7718 0.4879	0.7775	0.9691
Genotypic	2	POMC	rs1009388	C/C C/G G/G	463 373 98	- -0.146[-0.995~0.704] 0.348[-1.02~1.72]	- 0.7367 0.6181	0.7815	0.9691
Genotypic	3	ADAMT-S9	rs4607103	C/C C/T T/T	520 362 48	- -0.229[-1.07~0.609] -0.437[-2.28~1.40]	- 0.5918 0.6408	0.8076	0.9691
Genotypic	3	GHRELIN	rs696217	G/G G/T T/T	789 135 10	- 0.357[-0.783~1.50] 0.208[-3.63~4.05]	- 0.5386 0.9156	0.8251	0.9691
Genotypic	1	LEPR	rs1137101	A/A A/G G/G	267 455 212	- 0.258[-0.682~1.20] 0.0632[-1.06~1.19]	- 0.5902 0.9121	0.8472	0.9691
Genotypic	11	LRP5	rs634008	T/T T/C C/C	279 452 205	- 0.186[-0.743~1.11] 0.322[-0.803~1.45]	- 0.6939 0.5742	0.8474	0.9691
Genotypic	3	PPAR γ	rs1801282	C/C C/G G/G	725 191 18	- 0.0933[-0.900~1.-09] -0.742[-3.70~2.22]	- 0.8538 0.6227	0.8649	0.9691

Genotypic	3	PPAR γ	rs3856806	C/C C/T T/T	704 216 17	- -0.208[-1.16~0.747] 0.397[-2.66~3.45]	- 0.6689 0.7984	0.8757	0.9691
Genotypic	1	NEGR1	rs2815752	T/T T/C C/C	370 438 128	- -0.213[-1.08~0.652] -0.160[-1.41~1.09]	- 0.6294 0.8028	0.8875	0.9691
Genotypic	11	ARNTL	rs11022775	C/C C/T T/T	796 135 2	- -0.148[-1.28~0.984] -1.73[-10.27~6.82]	- 0.7973 0.6915	0.8960	0.9691
Genotypic	3	TMCC1	rs2811337	C/C C/G G/G	653 252 27	- -0.161[-1.07~0.750] -0.103[-2.47~2.27]	- 0.7290 0.9324	0.9406	0.9691
Genotypic	19	KCTD15	rs29941	C/C C/T T/T	433 395 105	- 0.118[-0.732~0.969] 0.194[-1.13~1.51]	- 0.7848 0.7727	0.9412	0.9691
Genotypic	1	LEPR	rs1045895	G/G G/A A/A	364 432 140	- 0.113[-0.756~0.981] -0.0556[-1.27~1.16]	- 0.7986 0.9286	0.9480	0.9691
Genotypic	6	RSPO3	rs11154383	A/A A/G G/G	458 385 91	- -0.104[-0.947~0.740] -0.187[-1.61~1.23]	- 0.8097 0.7966	0.9522	0.9691
Genotypic	4	GNPAD2	rs10938397	A/A A/G G/G	282 458 195	- 0.102[-0.825~1.03] -0.0422[-1.18~1.09]	- 0.8294 0.9419	0.9556	0.9691

Genotypic	12	ITPR2	rs1049376	A/A	504	-	-	0.9876	0.9876
				A/G	360	-0.0646[-0.906~0.778]	0.8803		
				G/G	68	0.00947[-1.56~1.58]	0.9905		
