

Supplementary table 1

Comparison of prevalence of individual *MC1R* variants between cohorts, White Caucasian Northern European children only.

	CMN cohort n (%)	Control group B, n (%)	Fisher's exact p value
R alleles	30/84 (35.7)	102/270 (37.8)	0.7966
T314T	21/84 (25.0)	49/275 (17.8)	0.1580
V92M	20/84 (23.8)	39/270 (14.4)	0.0638
V60L	17/84 (20.2)	61/270 (22.6)	0.7634
R151C	15/84 (17.9)	42/270 (15.6)	0.6127
R163Q	12/84 (14.3)	21/270 (7.8)	0.0859
R160W	6/84 (7.1)	42/270 (15.6)	0.0664
D294H	6/84 (7.1)	9/275 (3.3)	0.1308
R306H	2/84 (2.4)	0/270 (0.0)	0.0542
D84E	3/84 (3.6)	9/270 (3.3)	0.7387
R142H	2/84 (2.4)	2/270 (0.7)	0.2387
I155T	2/84 (2.4)	5/270 (1.9)	0.6718
S316S	1/84 (1.2)	3/278 (1.1)	1.0000
N29K	1/84 (1.2)	0/270 (0.0)	0.2394
frameshift			
L192L	1/84 (1.2)	0/270 (0.0)	0.2394
Q233Q	1/84 (1.2)	0/270 (0.0)	0.2394
G293G	1/84 (1.2)	0/270 (0.0)	0.2394