

Table S3. Principal components used to map QTLs for skull shape. %var, portion of the total skull variation explained by each PC. %cum, cumulative variance explained by the PCs. PVE, proportion of variance in the PC explained by the SNPs used in the QTL mapping. se(PVE), standard error of PVE estimate. PCA was run in MorphoJ. PVE estimates were obtained from the LMM implemented in GEMMA.

PC	%var	%cum	PVE	se(PVE)
1	15.7	15.7	66.2	9.8
2	9.5	25.2	52.8	10.7
3	8.4	33.6	66.9	8.1
4	5.1	38.7	36.3	9.3
5	4.7	43.4	51.8	9.4
6	4.5	47.9	58.9	8.8
7	4.1	52.0	46.9	9.6
8	4.0	56.0	42.0	10.6
9	3.5	59.5	40.7	9.3
10	3.0	62.5	26.9	10.2
11	2.9	65.3	36.3	9.4
12	2.5	67.8	45.0	10.6
13	2.3	70.1	61.5	10.6
14	2.2	72.3	29.7	9.9
15	2.0	74.3	14.0	8.6
16	1.8	76.0	43.0	9.9
17	1.6	77.7	47.3	9.1
18	1.4	79.1	42.1	9.9
19	1.3	80.3	55.2	9.1
20	1.2	81.6	58.2	9.0
21	1.2	82.8	51.2	9.3
22	1.1	83.8	38.5	9.4
SNP heritability of skull shape			42.44	
SNP heritability of skull size			35.4	10.4