Appendix 3 Distributions of spherical equivalent for five identified genes

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(Continue) Five gene regions reached the significant threshold in the gene-based analysis (p < 4.3 × 10-6). Spherical equivalent residuals were plotted by the presence of the minor allele of each variant in the gene region. Majority of study samples are homozygotes for major alleles (*Red*). The remaining groups are individuals with one copy of the minor allele at the variant indicated on the X-axis (*Black*). The *dash line* represents the group mean of spherical equivalent residuals. No homozygote or compound heterozygous of the minor allele was seen for these genes.