



**Figure S6.** Minus  $\log_{10} p$ -value of the skato gene test, adding the variants constituting the gene test iteratively for the 16 associations that reached significance after adding only the one best single variant. In each step  $i$  on the  $x$ -axis, the gene test is computed using only the  $i$  variants with the smallest single variant  $p$ -value. Below each point, the minor allele count is given.