

ESM Table 3. Selection rationales of SNPs for stage 2 replication.

SNP	Chr	Gene	Reason for selection
<u>Unconditional analysis</u>			
rs10229583	7	<i>PAX4</i>	genotyped SNP
rs1440971	7	<i>PAX4</i>	proxy of genotyped SNP (MAF ~ 0.1, $r^2 = 0.77$, $D' = 1$, to rs10229583)
rs2737250	8	<i>TRPS1</i>	genotyped SNP ($r^2 = 0.9$, $D' = 0.1$, to top imputed SNP, MAF = 0.3)
rs2721960	8	<i>TRPS1</i>	2nd top imputed SNP (MAF = 0.3)
rs3858158	10	<i>COL13A1</i>	top imputed SNP
rs2395272	10	<i>COL13A1</i>	2nd top imputed SNP
rs57703465	10	<i>COL13A1</i>	3rd top imputed SNP
rs11065453	12	<i>P2RX7</i>	top imputed SNP
rs10849851	12	<i>P2RX7</i>	genotyped SNP
rs684201	12	<i>P2RX7</i>	proxy of genotyped SNP ($r^2 = 0.94$, $D' = 1$ to rs10849851, MAF = 0.24)
rs11065450	12	<i>P2RX7</i>	proxy of genotyped SNP ($r^2 = 0.65$, $D' = 1$ to rs10849851, MAF ~ 0.3)
rs11065441	12	<i>P2RX7</i>	proxy of genotyped SNP ($r^2 = 0.9$, $D' = 0.96$ to rs10849851, MAF ~ 0.3)
rs208290	12	<i>P2RX7</i>	proxy of genotyped SNP ($r^2 = 0.56$, $D' = 1$ to rs10849851, MAF ~ 0.35)

Remark: SNPs in *CDKN2A/B* were not selected for replication due to their high r^2 with the reported SNP rs10811661 ($r^2 = 0.8$). SNPs failed in genotyping were highlighted in red colour.