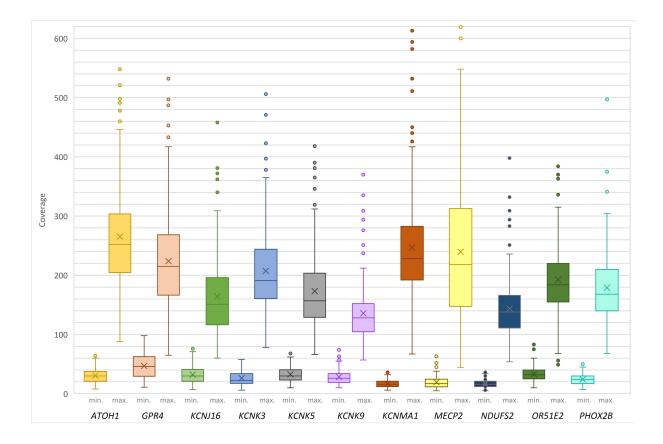
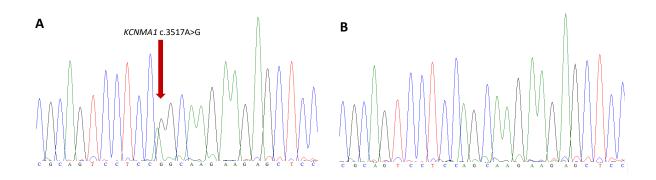
## Supplementary data

Gene	Chr.	Start position	End position	Length	Nr. of exons	Coding sequence length (nt)	Protein length (aa)
ATOH1	4	94'750'042	94'751'221	1'179	1	927	309
GPR4	19	46'093'022	46'105'466	12'444	2	1'086	362
KCNJ16	17	68'049'570	68'131'749	82'179	5	1'254	418
КСNКЗ	2	26'915'619	26'956'288	40'669	2	1'185	394
KCNK5	6	39'156'749	39'197'226	40'477	5	1'500	499
KCNK9	8	140'613'081	140'715'299	102'218	4	1'125	374
KCNMA1	10	78'629'359	79'398'353	768'994	28	3'711	1'236
MECP2	Х	153'287'024	153'336'212	49'188	4	1'497	498
NDUFS2	1	161'166'894	161'184'185	17'291	13	1'392	463
OR51E2	11	4'701'401	4'719'084	17'683	2	960	320
РНОХ2В	4	41'746'099	41'750'987	4'888	3	416	139

**Table S1** Detailed information on the 11 investigated genes.



**Figure S1** Minimum and maximum coverage of the exonic part of the 11 genes investigated in the SIDS cohort. Within the 11 genes, the minimum mean exonic coverage was  $29.98 \pm 15.01$  and the maximum mean exonic coverage was  $197.39 \pm 87.13$ .



**Figure S2** Sanger sequencing confirmation of the identified variant in the gene *KCNMA1* (NM\_001322837.1; c.3517A>G) in A) SIDS192 and in B) a control sample. The sequencing was performed with the BigDye<sup>™</sup> Terminator v3.1 cycle sequencing kit (ThermoFisher Scientific, Reinach, Switzerland) according to manufacturer's instruction. The software BioEdit Sequence Alignment Editor version 7.1.3.0 (<u>https://bioedit.software.informer.com/7.2/</u>) was used for visualization. Primer sequences are available on request.