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| **Supplementary Table S1. Eight heterozygous variants as a candidate cause of autosomal dominant inherited diseases by father-son duo using exome sequencing** |
| **Gene** | **Location** | **Nucleotide ID** | **Base change** | **Codon change** | **rsID** | **OMIM** | **gnomAD** | **KRGDB** | **SIFT** | **Polyphen2** | **LRT** | **MuT** | **MuA** |
| *ACTN2* | chr1: 236894585 | NM\_001103.3 | c.668T>C | p.Leu223Pro | na | # 612158, # 618655 | 0 | 0 | 0 | 1(D) | 0(D) | 1 | 4.305(H) |
| *CAMTA1* | chr5: 76330331 | NM\_015215.3 | c.2542G>A | p.Val848Ile | rs142045456 | # 614756 | 0.0001285 | 0.003636 | 0.076 | 0.999(D) | 0(D) | 1 | 1.15(L) |
| *KRT9* | chr17: 39725708 | NM\_000226.3 | c.1014A>T | p.Arg338Ser | rs753715101 | # 144200 | 0.0000358 | 0.005455 | 0 | 0.997(D) | na | 1 | 3.1(M) |
| *PACS2* | chr14: 105850758 | NM\_001100913.2 | c.1849G>T | p.Ala617Ser | rs781901106 | # 618067 | 0.000004018 | 0 | 0.457 | 0.037(B) | 0.001(N) | 1 | 0.835(L) |
| *PHF21A* | chr11: 45959853 | NM\_016621.3 | c.1322A>G | p.His441Arg | na | # 618725 | 0 | 0 | 0.001 | 0.979(D) | 0(D) | 1 | 0.695(N) |
| *SLC25A11* | chr17: 4841515 | NM\_003562.4 | c.671G>A | p.Cys224Tyr | rs201961261 | # 618464 | 0.0001957 | 0.000455 | 0.306 | 0.005(B) | 0(D) | 1 | 1.445(L) |
| *TRRAP* | chr7: 98513416 | NM\_003496.3 | c.2270T>A | p.Phe757Tyr | na | # 618454 | 0 | 0 | 0 | 1(D) | 0(D) | 1 | 2.015(M) |
| *ZFHX4* | chr8: 77764208 | NM\_024721.4 | c.5051C>T | p.Ala1684Val | na | # 178300 | 0 | 0 | 0.038 | 0.002(B) | 0.073(U) | 1 | 0.895(L) |
| chr, chromosome; rsID, Reference SNP cluster ID; OMIM, Online Mendelian Inheritance in Man; gnomAD, The Genome Aggregation Database v.2.1.1 exomes; KRGDB, Korean Reference Genome DB (1100 individuals: The 2nd phase); MuT, MutationTaster;, MutationAssessor; D, damaging; B, benign; N, neutral; U, uncertain; H, high; M, medium; L, low; na, not available |