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| Supplementary Table 4. Comparison offrequencies between patients and controls from ExAC |
| Gene | Nucleotide change | Amino acid  | Frequency in | P value |
|   |   | change | patients | controls |   |
| CNGA3 | c.682G>A | p.Glu228Lys | 2/716 | 188/121390 | 0.3† |
| CNGA3 | c.1618G>A | p.Val540Ile | 4/716 | 185/121270 | 3.00E-02 |
| CNGB3 | c.1148del | p.Thr383Ilefs\* | 1139/1676 | 224/120952 | 0 |
| CNGB3 | c.1208G>A | p.Arg403Gln | 23/1676 | 618/120874 | 3.70E-05 |
| Note: † Variants with no significant difference between patients and controls. |  |