

Online Supplement

The Online Table lists all genes with at least one variant detected from 2006-2017. “Variants of interest” include pathogenic (P), likely pathogenic (LP), and variants of uncertain significance (VUS).

| Variants of Interest | Gene | Number of variants | |
|---------------------------|-------------|--------------------|-----|
| | | LP/P | VUS |
| > 10 variants of interest | KCNQ1 | 75 | 20 |
| | SCN5A | 30 | 15 |
| | KCNH2 | 23 | 12 |
| | MYH7 | 19 | 12 |
| | MYBPC3 | 18 | 13 |
| | TTN | 12 | 20 |
| | TNNT2 | 8 | 4 |
| | RYR2 | 2 | 21 |
| | DSP | 0 | 12 |
| 5-9 variants of interest | LMNA | 6 | 1 |
| | TPM1 | 5 | 2 |
| | NKX2.5 | 5 | 0 |
| | HCN4 | 3 | 5 |
| | ALMS1 | 3 | 3 |
| | MYL2 | 3 | 2 |
| | KCNJ2 | 2 | 3 |
| | DES | 1 | 5 |
| | ANK2 | 0 | 9 |
| | MYH6 | 0 | 6 |
| | LDB3 (ZASP) | 0 | 5 |
| | MYPN | 0 | 5 |
| | NEBL | 0 | 5 |
| | RBM20 | 0 | 5 |
| SGCD | 0 | 5 | |
| 2-4 variants of interest | CASQ2 | 3 | 1 |
| | CALM1 | 3 | 0 |
| | GLA | 2 | 1 |
| | TNNI3 | 2 | 1 |
| | VCL | 2 | 1 |
| | CSRFP3 | 2 | 0 |
| | SCO2 | 2 | 0 |
| | SOS1 | 2 | 0 |
| | TTR | 2 | 0 |
| | PKP2 | 1 | 3 |

| Variants of Interest | Gene | LP/P | VUS |
|--------------------------------------|--------------|------|-----|
| 2-4 variants of interest (continued) | ACTN2 | 1 | 2 |
| | CACNA1C | 1 | 2 |
| | DSG2 | 1 | 2 |
| | BAG3 | 1 | 1 |
| | GJA5 | 1 | 0 |
| | LAMA4 | 0 | 4 |
| | DMD | 0 | 3 |
| | DSC2 | 0 | 3 |
| | ILK | 0 | 3 |
| | ABCC9 | 0 | 2 |
| | AKAP9 | 0 | 2 |
| | CAV3 | 0 | 2 |
| | FKTN | 0 | 2 |
| | FLNC | 0 | 2 |
| | GAA | 0 | 2 |
| | NEXN | 0 | 2 |
| | PDLIM3 | 0 | 2 |
| | PRKAG2 | 0 | 2 |
| | RAF1 | 0 | 2 |
| | SCN10A | 0 | 2 |
| TMEM43 | 0 | 2 | |
| TMPO | 0 | 2 | |
| 1 variant of interest | KCNE1 | 1 | 0 |
| | MTTS2 | 1 | 0 |
| | NDUFB9 | 1 | 0 |
| | NDUFV1 | 1 | 0 |
| | PRDM16 | 1 | 0 |
| | SCN8A | 1 | 0 |
| | TAZ | 1 | 0 |
| | TPM2 | 1 | 0 |
| | TRPM4 | 1 | 0 |
| | ACTC (ACTC1) | 0 | 1 |
| | AGL | 0 | 1 |
| | CACNB2 | 0 | 1 |
| | CHRM2 | 0 | 1 |
| | CTF1 | 0 | 1 |
| | EMD | 0 | 1 |
| | FHL1 | 0 | 1 |
| | FKRP | 0 | 1 |
| | JPH2 | 0 | 1 |

| Variants of Interest | Gene | LP/P | VUS |
|--|-------------|-------------|------------|
| 1 variant of interest (continued) | LRPPRC | 0 | 1 |
| | MTND5 | 0 | 1 |
| | NPPA | 0 | 1 |
| | NRAS | 0 | 1 |
| | TCAP | 0 | 1 |
| | TRDN | 0 | 1 |
| | TXNRD2 | 0 | 1 |
| No variants of interest (only LB/B variants) | C8ORF38 | | |
| | DTNA | | |
| | JUP | | |
| | KCNJ5 | | |
| | LAMP2 | | |
| | MT-ATP6 | | |
| | MTND6 | | |
| | MTTK | | |
| | SCN1B | | |
| | SNTA1 | | |