**Supplementary -1:** Clinical exome sequencing and genes analysed:

Our neuromuscular cohort consisted of 1751 cases over a period of 7 years. Patients with variants related to nuclear envelopathy were included in this study.

Clinical exome sequencing libraries were prepared using in-solution hybrid capture protocol for select genes harboring known disease-causing mutations. Genomic DNA from the submitted specimen was enriched for the complete coding regions and splice site junctions of genes listed below using a custom bait- capture system. Paired End Sequencing was performed with 2x100/2x150 chemistry, on an Illumina platform. Reads were assembled and were aligned to reference sequences based on NCBI RefSeq transcripts and human genome build GRCh37/UCSC hg19. Data was filtered and analyzed to identify variants of interest and interpreted in the context of a single most damaging, clinically relevant transcript for the purpose of the report, indicated as a part of variant details. Enrichment and analysis focus on the coding sequence of the indicated transcripts, 5-10bp of flanking intronic sequence, and other specific genomic regions demonstrated to be causative of disease at the time of assay design. Promoters, untranslated regions, and other non-coding regions thought to be significant are interrogated on request by

Sanger backfill. Deletion and duplication analysis is performed in cases when indicated but detected variations need to be confirmed

by an alternate methodology. Sequence and copy number variants are reported according to the Human Genome Variation Society

(HGVS).

Tools and Databases employed for analysis:Clinvar, OMIM, HGMD, UCSC genome browser, Uniprot, Ensembl, dbSNP, gnomAD,

ExAC, Pubmed, Dgap, icgc, Kaviar, various bioinformatics analysis, predictive tools and disease specific databases used as available

and appropriate.

**Gene coverage:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | Coverage | Gene | | Coverage | Gene | Coverage | Gene | Coverage |
| AAAS | 100% | AARS1 | | 100% | AARS2 | 100% | ABAT | 100% |
| ABCA1 | 100% | ABCD1 | | 99.8% | ABHD12 | 99.4% | ABHD5 | 100% |
| ACACA | 100% | ACAD9 | | 100% | ACADM | 100% | ACADS | 100% |
| ACADVL | 100% | ACD | | 100% | ACER3 | 100% | ACOX1 | 100% |
| ACTA1 | 100% | ACTB | | 100% | ACY1 | 100% | ADAR | 100% |
| ADCY5 | 95.7% | ADCY6 | | 100% | ADGRG1 | 100% | ADGRG6 | 100% |
| ADSL | 100% | ADSS1 | | 100% | AFG3L2 | 99.1% | AGK | 100% |
| AGL | 100% | AGRN | | 98.7% | AHDC1 | 100% | AHI1 | 100% |
| AIFM1 | 100% | AIMP1 | | 100% | AKR1B1 | 100% | ALAD | 100% |
| ALDH18A1 | 100% | ALDH3A2 | | 100% | ALDH5A1 | 98.9% | ALDH6A1 | 100% |
| ALDOA | 100% | ALG14 | | 100% | ALG2 | 100% | ALG3 | 100% |
| ALG6 | 100% | ALS2 | | 100% | AMACR | 100% | AMN | 95.7% |
| AMPD1 | 100% | AMPD2 | | 100% | AMT | 100% | ANG | 100% |
| ANK3 | 100% | ANO10 | | 100% | ANO3 | 100% | ANO5 | 100% |
| AP4B1 | 100% | AP4S1 | | 100% | AP5Z 1 | 100% | APTX | 100% |
| AR | 99.7% | AREG | | 98% | ARHGAP31 | 100% | ARHGEF10 | 100% |
| ARL13B | 100% | ARNT2 | | 100% | ARSA | 100% | ARX | 85.1% |
| ASAH1 | 100% | ASCC1 | | 100% | ASNS | 98.9% | ASPA | 100% |
| ASXL1 | 100% | ATAD3A | | 100% | ATCAY | 100% | ATL1 | 100% |
| ATL3 | 100% | ATM | | 100% | ATN1 | 100% | ATP1A1 | 100% |
| ATP1A2 | 100% | ATP1A3 | | 100% | ATP1A4 | 100% | ATP2A1 | 100% |
| ATP2B3 | 100% | ATP2B4 | | 100% | ATP5F1D | 99.8% | ATP7A | 100% |
| ATP7B | 100% | AUH | | 100% | B3GALNT2 | 100% | B4GALNT1 | 100% |
| B4GALT1 | 100% | B4GAT1 | | 100% | BAG3 | 100% | BCAP31 | 100% |
| BCL11B | 96.6% | BCS1L | | 100% | BEAN1 | 96% | BEST1 | 100% |
| BICD2 | 100% | BIN1 | | 100% | BMP4 | 100% | BRAT1 | 100% |
| BSCL2 | 100% | BTD | | 100% | BVES | 100% | C12orf65 | 100% |
| C19orf12 | 100% | C1QBP | | 100% | C9orf72 | 100% | CA8 | 100% |
| CACNA1A | 99.9% | CACNA1B | | 96.3% | CACNA1E | 100% | CACNA1G | 100% |
| CACNA1S | 100% | CACNA2D2 | | 100% | CACNB2 | 100% | CACNB4 | 100% |
| CAMTA1 | 100% | CAPN1 | | 100% | CAPN3 | 100% | CARS2 | 100% |
| CASK | 100% | CASQ1 | | 100% | CAV3 | 100% | CAVIN1 | 100% |
| CCDC78 | 100% | CCDC88A | | 100% | CCL13 | 100% | CCT5 | 100% |
| CDK5 | 100% | CFH | | 100% | CFL2 | 100% | CHAT | 100% |
| CHCHD10 | 100% | CHKB | | 100% | CHMP1B | 100% | CHMP2B | 100% |
| CHRNA1 | 100% | CHRNB1 | | 100% | CHRND | 100% | CHRNE | 100% |
| CHRNG | 100% | CHST14 | | 97.4% | CLCN1 | 100% | CLCN2 | 100% |
| CLCNKB | 100% | CLN6 | | 99.5% | CLP1 | 100% | CNBP | 100% |
| CNTN1 | 100% | CNTNAP1 | | 100% | COA7 | 100% | COA8 | 100% |
| COASY | 100% | COL12A1 | | 100% | COL13A1 | 100% | COL4A1 | 100% |
| COL4A2 | 99.9% | COL6A1 | | 100% | COL6A2 | 100% | COL6A3 | 100% |
| COLEC12 | 100% | COLQ | | 100% | COQ2 | 100% | COQ8A | 100% |
| COQ9 | 100% | COX10 | | 100% | COX14 | 100% | COX15 | 100% |
| COX20 | 100% | COX6A1 | | 100% | COX6A2 | 100% | COX6B1 | 100% |
| COX7B | 100% | COX8A | | 100% | CP | 100% | CPLANE1 | 100% |
| CPLX1 | 100% | CPT1C | | 100% | CPT2 | 98.3% | CRLF1 | 90.4% |
| CRPPA | 97.2% | CRYAB | | 100% | CSF1R | 100% | CTBP1 | 96.3% |
| CTC1 | 100% | CTDP1 | | 94.2% | CTDSP2 | 100% | CTNS | 100% |
| CTSF | 94% | CWF19L1 | | 100% | CYP27A1 | 100% | CYP2U1 | 94.3% |
| CYP7B1 | 100% | D2HGDH | | 100% | DAB1 | 100% | DAG1 | 100% |
| DARS1 | 100% | DARS2 | | 100% | DCAF17 | 100% | DCAF8 | 100% |
| DCTN1 | 100% | DDC | | 100% | DDHD1 | 100% | DDHD2 | 100% |
| DEAF1 | 100% | DES | | 100% | DGAT2 | 100% | DHCR24 | 100% |
| DHFR | 100% | DHH | | 100% | DHTKD1 | 100% | DLAT | 100% |
| DLL4 | 100% | DMD | | 100% | DMPK | 100% | DNA2 | 100% |
| DNAAF3 | 100% | DNAJB2 | | 100% | DNAJB6 | 100% | DNAJC12 | 100% |
| DNAJC19 | 100% | DNM2 | | 100% | DNMT1 | 99.4% | DOCK3 | 99.8% |
| DOCK6 | 100% | DOK7 | | 100% | DPAGT1 | 100% | DPM1 | 100% |
| DPM2 | 100% | DPM3 | | 100% | DPYS | 100% | DPYSL2 | 100% |
| DRP2 | 100% | DST | | 100% | DYNC1H1 | 100% | DYRK1A | 100% |
| DYSF | 100% | EARS2 | | 100% | EBF3 | 100% | ECEL1 | 99.3% |
| EDNRB | 100% | EEF2 | | 100% | EGFL7 | 100% | EGR2 | 100% |
| EIF2B1 | 100% | EIF2B2 | | 100% | EIF2B3 | 100% | EIF2B4 | 100% |
| EIF2B5 | 100% | ELOVL4 | | 100% | ELOVL5 | 100% | ELP1 | 100% |
| EMD | 100% | ENO3 | | 100% | ENTPD1 | 100% | EOGT | 89.4% |
| EPRS1 | 100% | ERBB3 | | 100% | ERBB4 | 100% | ERCC1 | 100% |
| ERCC2 | 100% | ERCC5 | | 100% | ERCC6 | 100% | ERCC8 | 100% |
| ERGIC1 | 100% | ERLIN1 | | 100% | ETFA | 100% | ETFB | 100% |
| ETFDH | 100% | EXOSC3 | | 100% | EXOSC8 | 100% | FA2H | 94.8% |
| FAH | 100% | FAM111B | | 100% | FAM126A | 100% | FANCA | 100% |
| FARS2 | 100% | FASTKD2 | | 100% | FBLN5 | 100% | FBN1 | 100% |
| FBN2 | 100% | FBXL4 | | 100% | FBXO38 | 100% | FBXO7 | 100% |
| FDX2 | 100% | FGD4 | | 100% | FGF14 | 100% | FGFRL1 | 100% |
| FHL1 | 100% | FIG4 | | 100% | FKBP14 | 100% | FKRP | 100% |
| FKTN | 100% | FLAD1 | | 100% | FLNC | 100% | FLVCR1 | 100% |
| FLVCR2 | 100% | FMR1 | | 100% | FOXC1 | 91.7% | FOXG1 | 90.5% |
| FOXRED1 | 100% | FTL | | 100% | FUS | 100% | FXN | 100% |
| GAA | 100% | GALC | | 100% | GAN | 100% | GARS1 | 100% |
| GATM | 100% | GBA | | 100% | GBA2 | 100% | GBE1 | 100% |
| GCDH | 100% | GCH1 | | 100% | GCK | 100% | GDAP1 | 100% |
| GFAP | 100% | GFER | | 100% | GFM1 | 100% | GFPT1 | 100% |
| GJA1 | 100% | GJB1 | | 100% | GJB3 | 100% | GJC2 | 97.2% |
| GK | 100% | GLA | | 100% | GLB1 | 100% | GLDN | 97.7% |
| GLE1 | 100% | GLRA1 | | 100% | GLS | 98% | GLS2 | 100% |
| GLUL | 100% | GLYCTK | | 100% | GM2A | 100% | GMPPB | 100% |
| GNAL | 100% | GNAO1 | | 100% | GNB4 | 100% | GNE | 100% |
| GNPDA1 | 100% | GPI | | 100% | GPR88 | 99.2% | GPRIN1 | 93.6% |
| GRID2 | 100% | GRIN1 | | 100% | GRM1 | 100% | GRM7 | 100% |
| GRN | 100% | GSN | | 100% | GYG1 | 100% | GYS1 | 100% |
| HACD1 | 100% | HADHA | | 100% | HADHB | 100% | HARS1 | 100% |
| HCRT | 100% | HEPACAM | | 99.4% | HEXA | 100% | HEXB | 100% |
| HEXIM1 | 100% | HIBCH | | 100% | HINT1 | 100% | HK1 | 96.8% |
| HMBS | 100% | HNRNPA1 | | 100% | HNRNPA2B1 | 100% | HNRNPDL | 100% |
| HNRNPH1 | 100% | HOOK1 | | 100% | HOXB1 | 100% | HOXD10 | 100% |
| HPCA | 100% | HPRT1 | | 100% | HRAS | 100% | HSD17B4 | 100% |
| HSPB1 | 100% | HSPB3 | | 100% | HSPB8 | 100% | HSPD1 | 100% |
| HTRA1 | 82.9% | HTT | | 99.3% | IBA57 | 94.3% | IDUA | 94.8% |
| IER3IP1 | 100% | IFIH1 | | 100% | IGHMBP2 | 100% | INF2 | 100% |
| INPP5K | 100% | ISCA2 | | 100% | ISCU | 100% | ITGA7 | 100% |
| ITPA | 100% | ITPR1 | | 100% | JPH1 | 100% | JPH3 | 100% |
| KARS1 | 100% | KAT6B | | 100% | KBTBD13 | 100% | KCNA1 | 100% |
| KCNA2 | 100% | KCNA4 | | 100% | KCNC1 | 100% | KCNC3 | 81.1% |
| KCND3 | 100% | KCNJ1 | | 100% | KCNJ10 | 100% | KCNJ2 | 100% |
| KCNJ5 | 100% | KCNMA1 | | 100% | KCNT1 | 100% | KCTD17 | 98% |
| KIF14 | 100% | KIF1A | | 100% | KIF1B | 100% | KIF1C | 100% |
| KIF5A | 100% | KIF5C | | 100% | KLHL40 | 100% | KLHL41 | 100% |
| KMT2B | 97.2% | KRT17 | | 100% | KY | 100% | L2HGDH | 100% |
| LAMA1 | 100% | LAMA2 | | 100% | LAMA5 | 98.9% | LAMB1 | 100% |
| LAMB2 | 100% | LAMC1 | | 98.3% | LAMP2 | 100% | LARGE1 | 100% |
| LDB3 | 100% | LDHA | | 100% | LETM1 | 95.9% | LGI4 | 100% |
| LIMS2 | 100% | LIPE | | 100% | LIPT1 | 100% | LITAF | 100% |
| LMNA | 100% | LMNB1 | | 100% | LMNB2 | 96.3% | LMOD3 | 100% |
| LPIN1 | 100% | LRP4 | | 100% | LRPPRC | 100% | LRSAM1 | 100% |
| LYRM7 | 85.7% | LYST | | 100% | MAP3K20 | 100% | MAPRE3 | 100% |
| MAPT | 100% | MARS1 | | 100% | MARS2 | 100% | MAT1A | 100% |
| MATR3 | 100% | MCM3AP | | 100% | MCOLN1 | 99.5% | MECR | 100% |
| MED12 | 100% | MED25 | | 100% | MED9 | 100% | MEF2C | 100% |
| MEGF10 | 100% | MFN2 | | 100% | MGME1 | 100% | MICU1 | 100% |
| MLC1 | 100% | MME | | 100% | MMP12 | 100% | MMUT | 100% |
| MOCOS | 100% | MOCS1 | | 100% | MOCS2 | 100% | MORC2 | 100% |
| MPV17 | 100% | MPZ | | 100% | MR1 | 100% | MRPS22 | 100% |
| MSTN | 100% | MSTO1 | | 100% | MTCH1 | 96.1% | MTFMT | of10106% |
| MTHFR | 100% | MTM1 | | 100% | MTMR14 | 100% | MTMR2 | 100% |
| MTPAP | 100% | MTTP | | 100% | MUSK | 100% | MYBPC1 | 100% |
| MYF6 | 100% | MYH14 | | 100% | MYH2 | 100% | MYH3 | 100% |
| MYH7 | 100% | MYH7B | | 100% | MYH8 | 100% | MYL1 | 100% |
| MYO18B | 100% | MYO9A | | 100% | MYOD1 | 100% | MYORG | 100% |
| MYOT | 100% | MYPN | | 100% | NADK2 | 100% | NAGA | 100% |
| NAGLU | 91.4% | NALCN | | 100% | NARS2 | 97.9% | NAT8 | 100% |
| NDRG1 | 100% | NDUFA1 | | 100% | NDUFA10 | 100% | NDUFA11 | 100% |
| NDUFA12 | 100% | NDUFA2 | | 100% | NDUFA9 | 100% | NDUFAF1 | 100% |
| NDUFAF2 | 100% | NDUFAF3 | | 100% | NDUFAF4 | 100% | NDUFAF5 | 100% |
| NDUFAF6 | 100% | NDUFB3 | | 100% | NDUFB9 | 100% | NDUFS1 | 100% |
| NDUFS2 | 100% | NDUFS3 | | 100% | NDUFS4 | 100% | NDUFS6 | 100% |
| NDUFS7 | 100% | NDUFS8 | | 100% | NDUFV1 | 100% | NDUFV2 | 100% |
| NDUFV3 | 100% | NEB | | 100% | NEFH | 97.8% | NEFL | 100% |
| NEK9 | 100% | NEU1 | | 100% | NFU1 | 100% | NGF | 100% |
| NGLY1 | 100% | NIPA1 | | 100% | NKX2-1 | 95.4% | NKX6-2 | 82.8% |
| NOTCH1 | 99.1% | NOTCH3 | | 96.6% | NRXN1 | 100% | NSD2 | 100% |
| NSUN2 | 100% | NT5C2 | | 100% | NTRK1 | 100% | NUBPL | 100% |
| OAT | 100% | OCRL | | 100% | OMA1 | 100% | OPA1 | 100% |
| OPA3 | 100% | OPTN | | 100% | ORAI1 | 95.9% | PABPN1 | 100% |
| PAFAH1B1 | 100% | PANK2 | | 100% | PARK7 | 100% | PAX7 | 100% |
| PC | 100% | PCDH12 | | 100% | PDCD6 | 100% | PDE10A | 100% |
| PDGFB | 100% | PDGFRB | | 100% | PDHA1 | 100% | PDK3 | 100% |
| PDSS1 | 86.5% | PDSS2 | | 100% | PDYN | 100% | PEX1 | 100% |
| PEX10 | 100% | PEX11B | | 100% | PEX12 | 100% | PEX13 | 100% |
| PEX14 | 100% | PEX16 | | 100% | PEX19 | 100% | PEX2 | 100% |
| PEX26 | 100% | PEX3 | | 100% | PEX5 | 100% | PEX6 | 100% |
| PEX7 | 100% | PFKM | | 100% | PFN1 | 100% | PGAM2 | 100% |
| PGAP1 | 100% | PGK1 | | 100% | PGM1 | 100% | PHGDH | 100% |
| PHKA1 | 100% | PHKB | | 100% | PHKG2 | 100% | PHYH | 100% |
| PI4KA | 99.7% | PIEZO2 | | 100% | PIGA | 100% | PIGY | 100% |
| PINK1 | 92.8% | PIP5K1C | | 96.5% | PLA2G6 | 100% | PLEC | 100% |
| PLEKHG2 | 100% | PLEKHG5 | | 100% | PLP1 | 100% | PMM2 | 100% |
| PMP2 | 100% | PMP22 | | 100% | PMPCA | 100% | PNKD | 100% |
| PNKP | 100% | PNPLA2 | | 100% | PNPLA6 | 100% | PNPT1 | 100% |
| PODXL | 100% | POGLUT1 | | 100% | POLG | 100% | POLG2 | 100% |
| POLR1C | 89.9% | POLR1D | | 100% | POLR3A | 100% | POLR3B | 100% |
| POMGNT1 | 100% | POMGNT2 | | 100% | POMK | 100% | POMT1 | 100% |
| POMT2 | 100% | POTEF | | 98% | PPOX | 100% | PPP2R1A | 100% |
| PPP2R2B | 100% | PRDM12 | | 88.8% | PRDX6 | 100% | PREPL | 96.3% |
| PRKAG2 | 100% | PRKCG | | 100% | PRKDC | 100% | PRKN | 100% |
| PRKRA | 100% | PRNP | | 100% | PROC | 100% | PRPS1 | 100% |
| PRPS1L1 | 100% | PRRT2 | | 100% | PRX | 100% | PSAP | 100% |
| PSEN1 | 100% | PTEN | | 100% | PTS | 100% | PUM1 | 100% |
| PURA | 89.8% | PUS1 | | 99.8% | PXMP2 | 97.2% | PYCR2 | 100% |
| PYGM | 100% | PYROXD1 | | 100% | QARS1 | 100% | QDPR | 100% |
| RAB7A | 100% | RAPSN | | 100% | RARS1 | 100% | RARS2 | 99.6% |
| RBCK1 | 100% | RBPJ | | 100% | REEP1 | 100% | REEP2 | 100% |
| RETREG1 | 100% | RFC1 | | 100% | RIPK4 | 100% | RMND1 | 100% |
| RNASEH1 | 100% | RNASEH2A | | 100% | RNASEH2B | 100% | RNASEH2C | 100% |
| RNASET2 | 100% | RNF170 | | 100% | RNF216 | 100% | RPH3A | 100% |
| RPIA | 100% | RPS6KC1 | | 100% | RRM2B | 100% | RTN2 | 100% |
| RUBCN | 100% | RXYLT1 | | 100% | RYR1 | 98.9% | SACS | 100% |
| SAMD9L | 100% | SAMHD1 | | 100% | SARS1 | 100% | SARS2 | 100% |
| SBF1 | 100% | SBF2 | | 100% | SCN11A | 100% | SCN4A | 100% |
| SCN9A | 100% | SCO1 | | 100% | SCO2 | 100% | SCP2 | 100% |
| SCYL1 | 100% | SDHA | | 100% | SDHAF1 | 100% | SDHB | 100% |
| SDHD | 79.7% | SELENON | | 83.5% | SEPSECS | 100% | SEPTIN9 | 100% |
| SETX | 100% | SFTPA1 | | 100% | SFTPA2 | 100% | SGCA | 100% |
| SGCB | 98.1% | SGCD | | 100% | SGCE | 100% | SGCG | 100% |
| SH2D3C | 100% | SH3TC2 | | 100% | SHANK3 | 93.6% | SHPK | 100% |
| SIGMAR1 | 100% | SIL1 | | 100% | SLA2 | 100% | SLC12A1 | 100% |
| SLC12A3 | 100% | SLC12A6 | | 100% | SLC16A1 | 100% | SLC16A2 | 100% |
| SLC17A5 | 100% | SLC18A3 | | 100% | SLC19A1 | 100% | SLC19A3 | 97.3% |
| SLC1A3 | 100% | SLC1A4 | | 100% | SLC20A2 | 100% | SLC22A5 | 100% |
| SLC25A1 | 95.1% | SLC25A12 | | 100% | SLC25A19 | 100% | SLC25A20 | 100% |
| SLC25A22 | 96.9% | SLC25A32 | | 100% | SLC25A4 | 100% | SLC25A46 | 100% |
| SLC2A1 | 100% | SLC30A10 | | 100% | SLC30A9 | 100% | SLC33A1 | 100% |
| SLC35A2 | 100% | SLC35A3 | | 76.6% | SLC39A14 | 91.6% | SLC46A1 | 100% |
| SLC52A2 | 100% | SLC52A3 | | 100% | SLC5A7 | 100% | SLC6A3 | 100% |
| SLC6A4 | 100% | SLC6A8 | | 100% | SLC9A1 | 100% | SMCHD1 | 100% |
| SMN1 | 100% | SMN2 | | 100% | SNAP25 | 100% | SNAP29 | 100% |
| SNCA | 100% | SNIP1 | | 100% | SNX14 | 100% | SOD1 | 100% |
| SOX10 | 100% | SP8 | | 100% | SPART | 100% | SPAST | 100% |
| SPATA5 | 100% | SPEG | | 99.9% | SPG11 | 100% | SPG21 | 100% |
| SPG7 | 100% | SPR | | 100% | SPTAN1 | 100% | SPTBN2 | 100% |
| SPTBN4 | 99.3% | SPTLC1 | | 100% | SPTLC2 | 100% | SQSTM1 | 100% |
| SSR4 | 100% | STAC3 | | 100% | STAMBP | 100% | STAT1 | 100% |
| STIM1 | 100% | STUB1 | | 100% | STX1B | 100% | STXBP1 | 100% |
| SUCLA2 | 100% | SUCLG1 | | 100% | SUMF1 | 100% | SUN1 | 100% |
| SUN2 | 100% | SUOX | | 100% | SURF1 | 93.1% | SYCP2 | 98.5% |
| SYNE1 | 100% | SYNE2 | | 100% | SYNJ1 | 100% | SYT2 | 100% |
| TAC4 | 100% | TACO1 | | 100% | TACR1 | 100% | TAF1 | 100% |
| TAF2 | 100% | TANGO2 | | 100% | TARDBP | 100% | TARS2 | 100% |
| TAZ | 100% | TBCK | | 100% | TCAP | 100% | TDP1 | 100% |
| TELO2 | 100% | TFG | | 100% | TGFB1 | 100% | TGM5 | 100% |
| TGM6 | 100% | TH | | 100% | THAP1 | 100% | TIA1 | 100% |
| TK1 | 100% | TK2 | | 95.7% | TM4SF20 | 100% | TMEM126B | 100% |
| TMEM165 | 100% | TMEM187 | | 100% | TMEM240 | 100% | TMEM43 | 100% |
| TMEM70 | 100% | TNFRSF25 | | 100% | TNNI2 | 100% | TNNT1 | 100% |
| TNNT3 | 100% | TNPO3 | | 100% | TNXB | 100% | TOP3A | 100% |
| TOR1A | 100% | TOR1AIP1 | | 100% | TPI1 | 100% | TPM2 | 100% |
| TPM3 | 100% | TPP1 | | 100% | TRAPPC11 | 100% | TRAPPC9 | 100% |
| TRDN | 94.7% | TREM2 | | 100% | TREX1 | 100% | TRIM2 | 100% |
| TRIM32 | 100% | TRIP4 | | 100% | TRMT10A | 100% | TRMT5 | 100% |
| TRPV4 | 100% | TSC1 | | 100% | TSEN2 | 85.8% | TSEN54 | 95.8% |
| TSFM | 100% | TTC19 | | 91.1% | TTN | 100% | TTPA | 100% |
| TTR | 100% | TUBB2A | | 100% | TUBB3 | 100% | TUBB4A | 100% |
| TUFM | 100% | TWNK | | 100% | TYMP | 100% | TYROBP | 100% |
| UBA1 | 100% | UBA2 | | 100% | UBAP1 | 100% | UBE2A | 100% |
| UBQLN2 | 100% | UBTF | | 100% | UNC13A | 100% | UNC80 | 100% |
| UPB1 | 100% | VAMP1 | | 100% | VAPB | 100% | VARS1 | 100% |
| VARS2 | 100% | VCP | | 99.6% | VIPAS39 | 100% | VLDLR | 100% |
| VMA21 | 98.4% | VPS11 | | 100% | VPS13A | 100% | VPS13D | 100% |
| VPS33B | 100% | VRK1 | | 100% | VWA3B | 100% | WARS1 | 100% |
| WASHC5 | 100% | WDR45 | | 100% | WDR81 | 100% | WNK1 | 100% |
| WWOX | 100% | WWTR1 | | 100% | XPR1 | 100% | YARS1 | 100% |
| YARS2 | 100% | ZBTB42 | | 100% | ZC4H2 | 100% | ZEB2 | 100% |
| ZFR | 100% | ZFYVE26 | | 100% | ZFYVE27 | 100% | ZNF142 | 100% |
| ZNF260 | | 100% | ZNF335 | 100% | |  | | | |