**Supplementary material**

Supplementary table 1. Genes included on the targeted NMD-CGH array.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Group 1  (n=12) | Group 2  (n=29) | Group 3 (n=146) |  |  |  |
| *ACTA1* | *ANO5* | *ATP2A1* | *FHL1* | *MYL4* | *PRKAG2* |
| *CFL2* | *BAG3* | *B3GNT1* | *FHL2* | *MYL5* | *PTRF* |
| *KBTBD13* | *BIN1* | *ABHD5* | *FKRP* | *MYL6* | *PYGM* |
| *KLHL40* | *CRYAB* | *ACVR1* | *FKTN* | *MYL6B* | *QDPR* |
| *KLHL41* | *DES* | *AGL* | *GAA* | *MYL7* | *SCN4A* |
| *LMOD3* | *DNM2* | *ACADS* | *GBE1* | *MYL9* | *SGCA* |
| *NEB* | *DYSF* | *ACADVL* | *GYS1* | *MYLIP* | *SGCB* |
| *TNNT1* | *FLNC* | *ACNA1S* | *ISCU* | *MYLK* | *SGCD* |
| *TPM2* | *GNE* | *ACTN3* | *ISPD* | *MYLK2* | *SGCG* |
| *TPM3* | *HSPB8* | *CACNA1A* | *ITGA7* | *MYLK3* | *SLC22A5* |
| *YBX3* | *KLHL9* | *CAPN3* | *KCNE1* | *MYLK4* | *SLC25A20* |
| *MYPN* | *LDB3* | *CAV3* | *KCNE3* | *MYLPF* | *SOX10* |
|  | *MTM1* | *CELF1* | *KCNJ2* | *MYOM1* | *SQSTM1* |
|  | *MYBPC1* | *CHKB* | *KCNQ1* | *MYOM2* | *SRF* |
|  | *MYBPC2* | *CKM* | *KY* | *MYOM3* | *SYNE1* |
|  | *MYH1* | *CLCN1* | *LAMA2* | *MYOZ1* | *SYNE2* |
|  | *MYH13* | *CMYA5* | *LAMP1* | *MYOZ2* | *SYNE3* |
|  | *MYH2* | *CNBP* | *LAMP2* | *MYOZ3* | *SYNPO2* |
|  | *MYH3* | *CNTN1* | *LARGE* | *MYPN* | *TCAP* |
|  | *MYH4* | *COL6A1* | *LDHA* | *NBR1* | *TMEM43* |
|  | *MYH7* | *COL6A2* | *LDHB* | *NEBL* | *TMEM5* |
|  | *MYH8* | *COL6A3* | *LIFR* | *NTRK1* | *TMOD3* |
|  | *MYOT* | *CPT2* | *LMNA* | *PABPN1* | *TNNC1* |
|  | *OBSCN* | *CSRP3* | *MATR3* | *PDLIM3* | *TNNC2* |
|  | *OBSL1* | *DAG1* | *MBNL1* | *PDLIM5 C* | *TNNI1* |
|  | *RYR1* | *DMD* | *MBNL2* | *PDLIM7* | *TNNI2* |
|  | *SEPN1* | *DMPK* | *MBNL3* | *PGAM2* | *TNNI3* |
|  | *TIA1* | *DNAJB6* | *MEGF10* | *PGK1* | *TNNT3* |
|  | *TTN* | *DPM2* | *MSTN* | *PGM1* | *TPM1* |
|  |  | *DPM3* | *MTMR14* | *PLEC* | *TRIM32* |
|  |  | *DUX4* | *MYBPC3* | *PLEKHG4* | *TRIM55* |
|  |  | *EMD* | *MYL1* | *PLN* | *TRIM63* |
|  |  | *ENO3* | *MYL10* | *PNPLA2* | *TTR* |
|  |  | *ETFA* | *MYL12A* | *POMGNT1* | *VCP* |
|  |  | *ETFB* | *MYL12B* | *POMGNT2* | *VMA21* |
|  |  | *ETFDH* | *MYL2* | *POMT1* |  |
|  |  | *FBXO32* | *MYL3* | *POMT2* |  |