

## Dystonia and Choreatic Movement Disorders Panel (183 genes)

ACAT1
ACTB
ACVR1
ADAR
ADCY5
AFG3L2
ANO3
ANO5
AP1S2
APTX
ARSA
ARX
ATM
ATP1A2
ATP1A3
ATP7A
ATP7B
ATP13A2
AUH
BAG3
BCAP31
BIN1
C19orf12
CACNA1A
CASQ1
CAV3
CCDC78
CFL2
CHCHD10
CHMP2B
CIZ1
CLN3
CNTN1
COL6A1
COL6A2
COL6A3
COL12A1
COX20
CP
CRYAB

CSF1R
CTC1
CYP27A1
DCAF17
DDC
DES
DLAT
DNA2
DNM2
DRD2
DRD5
DYSF
EARS2
ERCC6
FA2H
FASTKD2
FBXL4
FBXO7
FHL1
FKBP14
FLNC
FOXG1
FOXRED1
FTL
GAMT
GCDH
GCH1
GJA1
GNAL
GNE
HACD1
HEPACAM
HEXA
HNRNPA1
HNRNPA2B1
HPRT1
ISCU
KBTBD13
KCNMA1
KCNQ2

KIF1C
KLHL9
KLHL40
KLHL41
L2HGDH
LAMP2
LDB3
LMOD3
MAPT
MARS2
MAT1A
MATR3
MCOLN1
MECP2
MEGF10
MLC1
MMADHC
MPV17
MR1
MSTN
MTM1
MTMR14
MYF6
MYH2
MYH7
MYH14
MYOT
NEB
NKX2-1
NPC1
NPC2
OPA1
PABPN1
PANK2
PARK2
PDGFB
PDGFRB
PDHX
PINK1
PLA2G6

Dystonia and Choreatic Movement Disorders Panel (183 genes), cont.

PLEC
PLP1
PNKD
PNPT1
POLG
POLG2
PRKRA
PRNP
PRRT2
PSEN1
PTEN
PTS
QDPR
RNASEH2A
RNASEH2B
RNASEH2C
RRM2B
RYR1
SAMHD1
SCP2
SDHAF1
SERAC1
SGCE
SIL1
SLC2A1
SLC6A3
SLC19A3
SLC20A2
SLC25A15
SLC30A10
SLC46A1
SMPD1
SPEG
SPR
STAC3
STIM1
SUCLA2
SUOX
TAF1
TH

THAP1
TIA1
TIMM8A
TK2
TNNT1
TOR1A (aka DYT1)
TPK1
TPM2
TPM3
TREM2
TREX1
TRIM32
TTN
TUBB4A
TWNK (aka C10orf2)
UBQLN2
VCP
VMA21
VPS13A
VPS37A
WDR45
YARS2
ZNF592