

## Leukodystrophy and Leukoencephalopathy Panel (189 genes)

AARS2
ABAT
ABCD1
ACOX1
ADAR
ADK
AIMP1
ALDH3A2
ALS2
APOPT1
ARSA
ASPA
ATP7A
ATP7B
ATPAF2
AUH
B3GALNT2
BCAP31
BCS1L
BEST1
CLCN2
CLN6
COL4A1
COQ2
COQ8A (aka ADCK3)
COQ9
COX10
COX15
CSF1R
CTC1
CYP2U1
CYP7B1
CYP27A1
D2HGDH
DARS
DARS2
DGUOK
EARS2
EIF2B1
EIF2B2

EIF2B3
EIF2B4
EIF2B5
ERCC3
ERCC6
ERCC8
ETFDH
FA2H
FAM126A
FBXL4
FIG4
FKRP
FOLR1
FUCA1
FUS
GALC
GAN
GBA
GBE1
GFAP
GFM1
GJA1
GJC2
GLA
GLB1
GOSR2
GTF2H5
HEPACAM
HEXA
HSD17B4
HSPD1
HTRA1
KCNT1
L2HGDH
LMNB1
MARS2
MCOLN1
MLC1
MLYCD
MPLKIP

MPV17
MRPS16
MRPS22
MTFMT
NDUFA1
NDUFA2
NDUFA9
NDUFA10
NDUFA11
NDUFA12
NDUFAF1
NDUFAF2
NDUFAF3
NDUFAF4
NDUFAF5
NDUFAF6
NDUFB3
NDUFS1
NDUFS2
NDUFS3
NDUFS4
NDUFS5
NDUFS6
NDUFS7
NDUFS8
NDUFV1
NDUFV2
NDUFV3
NOTCH3
NPC1
NPC2
NUBPL
OCLN
OCRL
PAH
PC
PEX1
PEX2
PEX3
PEX5

Leukodystrophy and Leukoencephalopathy Panel (189 genes), continued

PEX6
PEX7
PEX10
PEX11B
PEX12
PEX13
PEX14
PEX16
PEX19
PEX26
PHGDH
PHYH
PLP1
POLG
POLG2
POLR3A
POLR3B
PPT1
PRF1
PRPS1
PSAP
PSAT1
PTEN
RARS2
RNASEH2A
RNASEH2B
RNASEH2C
RNASET2
RRM2B
SAMHD1
SCO1
SCO2
SCP2
SDHA
SDHAF1
SDHB
SETX
SLC16A2
SLC17A5
SLC25A1

SLC25A4
SLC25A12
SOD1
SOX10
SPART (aka SPG20)
SPAST
SPG7
SPG11
SPG21
SRRT (aka ARS2)
STX11
STXBP1
SUCLA2
SUMF1
SURF1
TACO1
TARDBP
TARS2
TREM2
TREX1
TUBB4A
TUFM
TWNK (aka C10orf2)
TYMP
TYROBP
UNC13D
VAPB
VARS
ZFYVE26