|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| AARS2  | CYP27A1  | ETHE1  | HEPACAM  | NDUFA10  | NOTCH3  | PEX7  | SDHAF1  |
| ABAT  | DARS2  | FA2H  | HFE  | NDUFA11  | NR0B1  | PHYH  | SLC16A2  |
| ABCD1  | DBT  | FAM126A  | HSPD1  | NDUFA12  | NUBPL  | PINK1  | SLC17A5  |
| ACOX1  | DDC  | FASTKD2  | HTRA1  | NDUFA2  | OCRL  | PLA2G6  | SLC20A2  |
| ACTA2  | DLD  | FKTN  | HTRA2  | NDUFA9  | PARK2  | PLAU  | SNCA  |
| ADH1C  | DNAJC13  | FOLR1  | L2HGDH  | NDUFAF1  | PARK7  | PLP1  | SOX10  |
| AIMP1  | DNAJC6  | FOXRED1  | LMBRD1  | NDUFAF2  | PAXIP1  | POLR3A  | SUMF1  |
| ALDH3A2  | ECM1  | FUCA1  | LMNB1  | NDUFAF3  | PC  | POLR3B  | SURF1  |
| APBB2  | EIF2B1  | GABRG2  | MBP  | NDUFAF4  | PDGFRB  | PSAP  | TBP  |
| ARSA  | EIF2B2  | GALC  | MCCC1  | NDUFAF6  | PEX1  | PSEN2  | TREM2  |
| ASPA  | EIF2B3  | GALE  | MGP  | NDUFB3  | PEX10  | PTCH1  | TREX1  |
| BCKDHA  | EIF2B4  | GALK1  | MLC1  | NDUFS1  | PEX12  | PTCH2  | TUBB4A  |
| BCKDHB  | EIF2B5  | GALT  | MMAA  | NDUFS2  | PEX13  | RASA1  | TUFM  |
| BCS1L  | EIF4G1  | GAN  | MMAB  | NDUFS3  | PEX14  | RNASEH2A  | TYMP  |
| CHM  | ERCC2  | GBA  | MMACHC  | NDUFS4  | PEX16  | RNASEH2B  | TYROBP  |
| CLCN2  | ERCC3  | GFAP  | MMADHC  | NDUFS6  | PEX19  | RNASEH2C  | UCHL1  |
| COA5  | ERCC6  | GIGYF2  | MPV17  | NDUFS7  | PEX2  | RNASET2  | ATP7B  |
| COX15  | ERCC8  | GJA1  | MPZ  | NDUFS8  | PEX26  | RPIA  | ATP7A  |
| COX6B1  | ETFA  | GJB1  | MTRR  | NDUFV1  | PEX3  | SAMHD1  |  |
| CSF1R  | ETFB  | GJC2  | MUT  | NDUFV2  | PEX5  | SCP2  |  |
| CTC1  | ETFDH  | GLB1  | NDUFA1  | NOS3  | PEX6  | SDHA  |  |

Additional file 1: Table S1 Genes detected relate to hereditary leukoencephalopathies disease