

List of genes of the NGS panel used

Gene	Disease	Location	Transmi	OMIM
SNCA	Parkinson disease 1, 4; Dementia, Lewy body	4q22.1	AD	https://omim.org/entry/163890
LRRK2	Parkinson disease 8	12q12	AD	https://omim.org/entry/609007
VPS35	Parkinson disease 17	16q11.2	AD	https://omim.org/entry/601501
PARK2	Parkinson disease 2	6q26	AR	https://omim.org/entry/600116
PARK7	Parkinson disease 7	1p36.23	AR	https://omim.org/entry/602533
PINK1	Parkinson disease 6	1p36.12	AR	https://omim.org/entry/608309
PLA2G6	Parkinson disease 14	22q13.1	AR	https://omim.org/entry/603604
VPS13C	Parkinson disease 23	15q22.2	AR	https://omim.org/entry/608879
SYNJ1	Parkinson disease 20	21q22.11	AR	https://omim.org/entry/604297
ATP13A2	Kufor-Rakeb syndrome	1p36.13	AR	https://omim.org/entry/610513
DNAJC6	Parkinson disease 19	1p31.3	AR	https://omim.org/entry/608375
FBXO7	Parkinson disease 15	22q12.3	AR	https://omim.org/entry/605648
GCH1	Dystonia, DOPA-responsive	14q22.2	AD, AR	https://omim.org/entry/600225
GBA	Gaucher disease	1q22	AR	https://omim.org/entry/606463
POLG	Mitochondrial DNA depletion syndrome	15q26.1	AR	https://omim.org/entry/174763
ATP6AP2	Parkinsonism with spasticity	Xp11.4	XLR	https://omim.org/entry/300556
PANK2	Neurodegeneration with brain iron accumulation 1	20p13	AR	https://omim.org/entry/606157
MAPT	Parkinson disease, susceptibility to	17q21.31	AD	https://omim.org/entry/157140
EIF4G1	Parkinson disease, susceptibility to	3q27.1	AD	https://omim.org/entry/600495
UCHL1	Parkinson disease, susceptibility to	4p.13	AD	https://omim.org/entry/191342
GIGYF2	Parkinson disease, susceptibility to	2q37.1	AD	https://omim.org/entry/612003
DNAJC13	Parkinson disease, susceptibility to	3q22.1	AD	https://omim.org/entry/614334
HTRA2	Parkinson disease, susceptibility to	p13.1	AD	https://omim.org/entry/606441
GAK	Parkinson disease, susceptibility to	4p16.3	?	https://omim.org/entry/602052
RAB7L1	Parkinson disease, susceptibility to	1q32.1	?	https://omim.org/entry/603949