

WES HEREDITARY NEUROLOGICAL PAIN DISORDERS¹ DG

3.1

<i>Gene</i>	<i>Median coverage</i>	<i>% covered >10x</i>	<i>% covered >20x</i>	<i>OMIM disease ID</i>
ATL1	180.1	100.0	99.7	182600;613708
ATL3	147.6	99.8	98.3	615632
CABIN1	153.3	100.0	99.6	-
CACNA1A	95.0	93.2	90.0	PMID: 33413531;31928344
CLTCL1	113.0	98.6	98.2	-
COL6A5	163.1	99.9	99.5	-
COQ6	143.6	99.9	98.4	614650
DNM1L	139.3	99.9	98.5	614388
DNMT1	131.2	99.2	99.0	614116
DYNC1H1	157.5	99.9	99.4	158600;614228
ELP1	149.3	99.8	99.0	223900
FAAH	135.6	93.2	90.0	606581
FBLN5	121.2	91.8	91.8	No OMIM phenotype
FLVCR1	153.2	100.0	98.9	609033
GLA	81.9	91.1	88.2	301500
HCN1	151.2	98.5	98.2	615871;618482
HCN2	35.7	59.2	49.5	-
HCN3	147.6	99.9	98.5	-
HSPB1	55.8	98.8	91.6	606595;608634
KIF1A	114.7	97.4	95.2	614213;610357
LIFR	136.7	99.7	98.0	601559
LZTR1	136.8	100.0	99.9	615670

MME	138.2	99.8	98.7	617017;617018
MPZ	104.4	87.9	84.1	607677;118200;607791;607736
NAGLU	118.0	92.9	89.9	616491;252920
NGF	224.8	100.0	100.0	608654
NMNAT2	110.5	99.9	98.9	-
NTRK1	138.9	99.8	98.2	256800
PIEZO2	121.6	100.0	99.5	617146
PMP22	123.5	100.0	100.0	118220;118300;145900;162500;180800;139393
PRDM12	123.7	90.8	88.0	616488
RAB7A	151.4	100.0	99.9	600882
RETREG1	141.2	98.8	95.1	613115
SCN10A	148.7	100.0	99.6	615551
SCN11A	144.6	99.8	98.3	615548;615552
SCN1B	178.3	98.0	96.4	604233;615377;612838;617350
SCN2B	219.0	100.0	100.0	615378
SCN3A	173.5	99.8	99.2	617935;617938
SCN3B	151.4	100.0	100.0	613120
SCN4B	82.6	100.0	99.6	611819
SCN7A	126.5	98.3	93.3	-
SCN8A	189.5	100.0	99.8	614306;614558;618364;617080
SCN9A	163.1	99.3	97.9	133020;167400;243000
SEPTIN9	154.2	100.0	99.9	162100
SMARCB1	210.4	100.0	100.0	162091
SPTLC1	132.2	99.2	95.4	162400
SPTLC2	158.5	100.0	100.0	613640
TOR1A	142.1	91.3	91.2	No OMIM phenotype
TRPA1	99.7	96.1	89.8	615040
TRPM8	122.0	99.8	98.8	-
TRPV1	133.4	100.0	99.6	-
TRPV3	137.8	99.8	98.5	614594;616400

TRPV4	158.6	100.0	99.9	606071;600175;617383
TTR	151.6	94.6	94.6	115430;105210
WNK1	156.2	99.9	99.6	201300
ZFHX2	134.8	100.0	99.6	147430

Gene symbols used follow HGCN guidelines: Gray KA, Yates B, Seal RL, Wright MW, Bruford EA. Nucleic Acids Res. 2015 Jan;43(Database issue):D1079-85.

Median Coverage describes the average number of reads seen across 50 exomes.

% Covered 10x describes the percentage of a gene's coding sequence that is covered at least 10x.

% Covered 20x describes the percentage of a gene's coding sequence that is covered at least 20x.

Genes with Median Coverage and % Covered 10x/20x denoting NC are non-coding genes for which coverage statistics could not be generated.

OMIM release used for OMIM disease identifiers and descriptions : October 1st, 2016.

Ad 1. "No OMIM phenotype" signifies a gene without a current OMIM association Ad 2. OMIM phenotype descriptions between {} signify risk factors