Supplementary table 1. Summary of the methods used to perform whole exome and whole genome sequencing for the samples in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Dataset** | **Library kit** | **Sequencing instrument** | **Read length** |
| GN and HSP probands | ICGNMD WES | SureSelect All Exon V6 (Agilent) | Illumina NovaSeq 6000 | 2 x 150bp |
| UCT-NRG WGS1,2 | MGIEasy Universal DNA Library Prep Kit; 30X WGS KAPA PCR-Free v2.1 | BGI MGISEQ-2000; Illumina NovaSeq 6000 | 2 x 150bp |
| CReATe WGS2 | WGS KAPA HyperPrep | Illumina NovaSeq 6000 | 2 x 150bp |
| controls | UCT-NRG WGS1,2 | 30X WGS TruSeq PCR-free | HiSeq X Ten;  Illumina HiSeq 3000 | 2 x 150bp |
| SGDP WGS3 | unknown | Illumina HiSeq 2000 | 2 x 100bp |
| SAHGP WGS4 | unknown | Illumina HiSeq 2000 | 2 x 100bp |
| AWI-Gen WGS5 | unknown | Illumina HiSeq X Ten | 2 x 150bp |
| H3Africa Genotyping Chip Project WGS6 | TruSeq Nano DNA Library Prep Kit | Illumina HiSeq X Ten | 2 x 150bp |

GN=genetic neuropathy. HSP=hereditary spastic paraplegia. ICGNMD=International Centre for Genomic Medicine in Neuromuscular Diseases. CReATe=Clinical Research in ALS and related disorders for Therapeutic Development Consortium. UCT-NRG=University of Cape Town Neurology Research Group. SGDP=Simons Genome Diversity Project. SAHGP=South African Human Genome Program. AWI-Gen=Africa Wits-INDEPTH Partnership for Genomic Research. H3Africa=The Human Heredity and Health in Africa (H3Africa) consortium.

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