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| **Supplementary Table S3. Variants filtering steps of the whole-exome sequencing in SPG4 probands** | | | | | |
|  | **SPG4-A-IV5** |  | **SPG4-C -II3** | **SPG4-D-III4** | **SPG4-E -III6** |
| Total variants | 102339 |  | 327168 | 368525 | 401044 |
| Exonic & Splice variants | 25688 |  | 25033 | 24946 | 25259 |
| Non-synonymous, insertion/deletion, frameshift and splice variants | 13117 |  | 12783 | 12637 | 12937 |
| Variants with MAF <0.001 in public databases | 425 |  | 669 | 661 | 749 |
| Heterozygous variants | 408 |  | 648 | 635 | 702 |
| Compare with HSP & other neurodegenerative causing genes | 1 (*SPAST*) |  | 1 (*SPAST*) | 1 (*SPAST*) | 1 (*SPAST*) |
| MAF, minor allele frequency |  |  |  |  |  |