

Product datasheet for **TP762613**

SPG7 (NM_003119) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human spastic paraplegia 7 (pure and complicated autosomal recessive) (SPG7), nuclear gene encoding mitochondrial protein, transcript variant 1, full length, with N-terminal GST and C-terminal His tag, expressed in E.coli, 50ug |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | A DNA sequence encoding the region full length of SPG7 |
| Tag: | N-GST and C-HIS |
| Predicted MW: | 88.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 50 mM Tris-HCl, pH 8.0, 8 M urea |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C after receiving vials. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_003110 |
| Locus ID: | 6687 |
| UniProt ID: | Q9UQ90 |
| RefSeq Size: | 3102 |
| Cytogenetics: | 16q24.3 |
| RefSeq ORF: | 2385 |
| Synonyms: | CAR; CMAR; PGN; SPG5C |



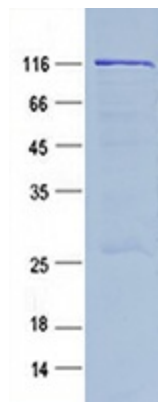
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Summary:

This gene encodes a mitochondrial metalloprotease protein that is a member of the AAA family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. Mutations in this gene cause autosomal recessive spastic paraplegia 7. Two transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2014]

Protein Families:

Protease, Transmembrane

Product images:

Purified recombinant protein SPG7 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.