

# Recombinant Full Length Human SPG7 Protein, GST-tagged

Cat. No. SPG7-30666TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human SPG7 full-length ORF ( NP_003110.1, 1 a.a. - 795 a.a.) recombinant protein with GST-tag at N-terminal was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	1-795 a.a.
<b>Description</b>	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.
<b>Molecular Mass</b>	114.6 kDa
<b>AA Sequence</b>	MAVLLLLLLRALRRGPGPGPRPLWGPSPA WSPGFARPGRGRPYMASRPPGD LAE AGGRALQSLQLRLLTPTFEGINGLLLKQHLVQNPVRLWQLLGGTFYFNTSRLKQKNK EKDKSKGKAPEEDEEERRRRERDDQMYRERLRTLLVIAVVM SLLNALSTSGGSISW NDFVHEMLAKGEVQRVQVPESDVVEVYLHPGAVVFG RPRRLALMYRMQVANIDKF EEKLRAAEDELNIEAKDRIPVSYKRTGFFGNALYSVGMTAVGLAILWYVFR LAGMTG REGGFSAFNQLKMARFTIVDGKMGKGVSFKDVAGMHEAKLEVREFVDY LKSPERFL QLGAKVPKGALLLGP PGCGKTL LAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVR

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SLFKEARARAPCIVYIDEIDAVGKKRSTTMSGFSNTEEEQTLNQLLVEMDGMGTTDH  
 VIVLASTNRADILDGALMRPGRGLDRHVFIDLPTLQERREIFEQHLKSLKLTQSSTFYSSQ  
 RLAEELTPGFSGADIANICNEAALHAAREGHTSVHTLNFEYAVERVLAGTAKKSKILSK  
 EEQKVVAFHESGHALVGWMLEHTEAVMKVSITPRNAALGFAQMLPRDQHLFTKEQ  
 LFERMCMALGGRASEALSFNVTSGAQDDLKRVTRIAYSVMVKQFGMAPGIGPISFP  
 EAQEGLMGIGRRPFSQGLQQMMDHEARLLVAKAYRHTEKVLQDNLDKLQALANALL  
 EKEVINYEDIEALIGPPPHGPKKMIAPQRWIDAQREKQDLGEEETEETQQPPLGGEE  
 PTWPK

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

SPG7 SPG7, paraplegin matrix AAA peptidase subunit [ Homo sapiens (human) ]

**Official Symbol**

SPG7

**Synonyms**

SPG7; SPG7, paraplegin matrix AAA peptidase subunit; CAR; PGN; CMAR; SPG5C;  
 paraplegin; cell matrix adhesion regulator; paraplegin, isoform 1; spastic paraplegia 7  
 (pure and complicated autosomal recessive); spastic paraplegia 7 protein

**Gene ID**

6687

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<b>mRNA Refseq</b>	NM_003119
<b>Protein Refseq</b>	NP_003110
<b>MIM</b>	602783
<b>UniProt ID</b>	Q9UQ90
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.

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