

Product datasheet for **SC307961**

SPG7 (NM_199367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPG7 (NM_199367) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPG7
Synonyms:	CAR; CMAR; PGN; SPG5C
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_199367, the custom clone sequence may differ by one or more nucleotides ATGGCCGTGCTGCTGCTGCTGCTCCGTGCCCTCCGCCGGGTCCAGGCCGGGTCCCTCGG CCGCTGTGGGGCCAGGCCCGCCTGGAGTCCAGGGTTCCCGCCAGGCCGGGAGGGG CGGCCGTACATGGCCAGCAGGCCCTCCGGGGACCTCGCCGAGGCTGGAGGCCGAGCTCTG CAGAGCTTACAATTGAGACTGCTAACCCCTACCTTTGAAGGGATCAACGGATTGTTGTTG AAACAACATTTAGTTCAGAATCCAGTCCAGTCCAGTCTGGCACTTTTAGGTGGTACTTTCTAT TTTAACACCTCAAGGTTGAAGCAGAAGAATAAGGAGAAGGATAAGTGAAGGGGAAGGCCG CCTGAAGAGGACGAAGAGGAGAGGAGACGCCGTGAGCGGGACACCAGATGTACCAGAG CGGCTGCCACCTTGCTGGTCATCGCGTTGTCATGAGCCTCCTGAATGCTCTCAGCACC AGCGGAGGCAGCATTTCTGGAACGACTTTGTCCACGAGATGCTGGCCAAGGGCGAGGTG CAGCGCGTCCAGGTGGTGCCTGAGAGCGACGTGGTGAAGTCTACCTGCACCCTGGAGCC GTGGTGTGGGGCGCCTCGGCTAGCCTTGATGTACCGAATGCAGGTTGCAAATATTGAC AAGTTTGAAGAGAAGCTTCGAGCAGCTGAAGATGAGCTGAATATCGAGGCCAAGGACAGG ATCCCAGTTTCTACAAGCGAACAGGATTCTTTGGAAATGCCCTGTACTCTGTGGGGATG ACGGCAGTGGCCTGGCCATCCTGTGGTATGTTTTCCGTCTGGCCGGGATGACTGGAAGG GAAGGTGGATTCAAGTCTTTAATCAGCTTAAATGGCTCGTTTTACCATTTGGGATGGG AAGATGGGAAAAGGAGTCAAGCTTCAAAGACGTGGCAGGAATGCACGAAGCCAAACTGGAA GTCCGCGAGTTTGTGGATTATCTGAAGAGCCAGAACGCTTCTCCAGCTTGGCGCAAG GTCCAAAGGGCGCACTGCTGCTCGGCCCGGCTGTGGGAAGACGCTGCTGGCCAAG GCGGTGGCCACGGAGGCTCAGGTGCCCTTCTGGCGATGGCCGGCCAGAGTTCTGTGGAG GTCATTGGAGGCTCGGCGCTGCCCGTGTGCGGAGCCTTTAAGGAAGCCCGAGCCCGG GCCCCCTGCATCGTCTACATCGATGAGATCGACCGGTGGCAAGAAGCGCTCCACCACC ATGTCCGGCTTCTCCAACACGGAGGAGGAGCAGACGCTCAACCAGCTTCTGGTAGAAATG GATGGTGCCTCTTTGACCAGCTACCCTCCAGGGGACCATGAGGAAGCTCAGAGGAAAG ACCCCCGCTGCTCCTGTCTCACGGAGCCACAGGGTCACGGAGGCAATGGAGGTCAT TCGCTCTGCTGGGTTGCCTTTTGCCTGA
Restriction Sites:	Please inquire
ACCN:	NM_199367



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_199367.1</u> , <u>NP_955399.1</u>
RefSeq Size:	2319 bp
RefSeq ORF:	1470 bp
Locus ID:	6687
UniProt ID:	<u>Q9UQ90</u>
Cytogenetics:	16q24.3
Protein Families:	Protease, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks multiple 3' coding exons and contains an alternate 3' terminal exon, resulting in a different 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) contains a shorter and distinct C-terminus compared to isoform 1.</p>