

Product datasheet for RC206340L1

SPG7 (NM_003119) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SPG7 (NM_003119) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: SPG7

Synonyms: CAR; CMAR; PGN; SPG5C

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206340).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_003119

ORF Size: 2385 bp



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OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: 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 003119.2</u>

 RefSeq Size:
 3102 bp

 RefSeq ORF:
 2388 bp

 Locus ID:
 6687

 UniProt ID:
 Q9UQ90

Cytogenetics: 16q24.3

Domains:

Protein Families: Protease, Transmembrane

MW: 88.2 kDa

Gene Summary: This gene encodes a mitochondrial metalloprotease protein that is a member of the AAA

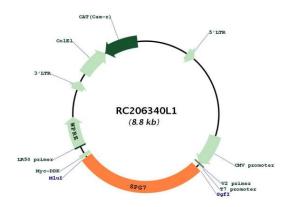
family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. Mutations in this gene cause autosomal recessive spastic paraplegia 7. Two transcript variants encoding distinct isoforms have been identified.

[provided by RefSeq, Mar 2014]

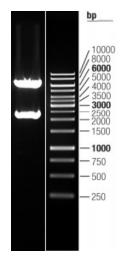
Peptidase M41, AAA, AAA



Product images:



Circular map for RC206340L1



Double digestion of RC206340L1 using Sgfl and Mlul $\,$