

Product datasheet for MC208133

Speg (NM_001173477) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Speg
Synonyms:	Apeg1; AW125581; BPEG; D1Bwg1450e; mKIAA1297; SPEGalpha; SPEGbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	<p>>MC208133 representing NM_001173477 Red=Cloning site Blue=ORF Orange=Stop codon</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC</p> <p>ATGAAGCTCAGTCCCAGCCAGGATCATGATTCTCCGACTCTTCTTCCAAGGCACCCCAACGTTCAAGG TCTCACTCATGGACCAATCGGTGAGAGAAGGTCAAGATGTCTATTGAGCATCCGTGTGCAGGGAGAGCC CAAGCCTGTGGTTTCTGGCTGAGGAATCGACAGCCCGTGCGCCAGACCAGCGCGCTTTCAGAGGAG GCCGAGGGTGGGCTCTGCCGCTTGAGGATCCTGGCTGCTGAACGGGGCGATGCTGGTTTCTACACATGCA AGGCGGTCAACGAATATGGCGCTCGGCAGTGCAGGCCCGCCTGGAGGTCCGAGGCGAGTGA</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA</p>
Restriction Sites:	SgfI-MluI
ACCN:	NM_001173477
Insert Size:	342 bp



OTI Disclaimer:	<p>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.</p> <p>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. More info</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001173477.1 , NP_001166948.1
RefSeq Size:	1423 bp
RefSeq ORF:	342 bp
Locus ID:	11790
UniProt ID:	Q62407
Cytogenetics:	138.88 cM

Gene Summary:

This gene encodes a protein with similarity to members of the myosin light chain kinase family. This protein family is required for myocyte cytoskeletal development. Studies have determined that a lack of this protein affected myocardial development. Multiple alternatively spliced transcript variants that encode different protein isoforms have been defined. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (4) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 4) is shorter than isoform 1. This variant corresponds to variant APEG-1 described in PubMed ID: 10973969.