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Product datasheet for MC225343

Speg (NM_001085370) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Speg (NM_001085370) Mouse Untagged Clone
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:

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>MC225343 representing NM_001085370
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTGGCGCCAGGAGCTGACGTGCTACTTAAGTGTATCATCACCGCCAACCCCCCACCCCAAGTGT
CCTGGAAAAAGGATGGGTCCATGTTGCACAGCGAGGGTCGTCTTCTCATCCGGGCTGAAGGTGAACGGCA
CACACTGCTGCTCAGAGAGGCCCAGGCTGCCGATGCTGGGAGCTACACAGCCACTGCCACCAACGAACTG
GGCCAAGCTACCTGTGCTTCTTCACTGGCTGTGAGACCTGGCGGCTCCACATCCCCTTTCAGCAGCCCCA
TCACCTCTGATGAGGAGTACCTGAGCCCCCCAGAGGAGTTCCCAGAGCCTGGGGAGACCTGGCCCCGAAC
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CTGTCGCAGAAGCTGCGGCGGACACCGCCGGGACAGCGACACCCTGCCTGGGAGTCCCGCAGCGGAGACG

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GGGAGAGCTCCGAGGGCGGCAGCTCAGCTCGGGCATCCCCAGTGCTGGCGGTACGCAGGAGACTCAGCTC
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GCTCAAGGAATTCCTGGGCGAGCAGCGGCGACGTCGGGCTGAGGCTGCTACCCGTCACAAGGTGCTGCTC
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001085370

Insert Size: 7584 bp

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).

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).

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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:	NM_001085370.1, NP_001078839.1
RefSeq Size:	9885 bp
RefSeq ORF:	7584 bp
Locus ID:	11790
UniProt ID:	Q62407
Cytogenetics:	1 38.88 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 (2) differs in the 5' UTR and 5' coding region, compared to variant 1. These differences produce a unique 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1. This variant is similar, but not identical, to variant SPEGalpha described in PubMed ID: 10973969.

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