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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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225343 representing NM_001085370 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGGTGGCGCCAGGAGCTGACGTGCTACTTAAGTGTATCATCACCGCCAACCCCCCACCCCAAGTGT CCTGGAAAAAGGATGGGTCCATGTTGCACAGCGAGGGTCGTCTTCTCATCCGGGCTGAAGGTGAACGGCA CACACTGCTGCTCAGAGAGGCCCAGGCTGCCGATGCTGGGAGCTACACAGCCACTGCCACCAACGAACTG GGCCAAGCTACCTGTGCTTCTTCACTGGCTGTGAGACCTGGCGGCTCCACATCCCCTTTCAGCAGCCCCA TCACCTCTGATGAGGAGTACCTGAGCCCCCCAGAGGAGTTCCCAGAGCCTGGGGAGACCTGGCCCCGAAC CCCTACCATGAAGCTCAGTCCCAGCCAGGATCATGATTCCTCCGACTCTTCTTCCAAGGCACCCCCAACG TTCAAGGTCTCACTCATGGACCAATCGGTGAGAGAAGGTCAAGATGTCATTATGAGCATCCGTGTGCAGG GAGAGCCCAAGCCTGTGGTTTCCTGGCTGAGGAATCGACAGCCCGTGCGCCCAGACCAGCGGCGCTTTGC AGAGGAGGCCGAGGGTGGGCTCTGCCGCTTGAGGATCCTGGCTGCTGAACGGGGCGATGCTGGTTTCTAC ACATGCAAGGCGGTCAACGAATATGGCGCTCGGCAGTGCGAGGCCCGCCTGGAGGTCCGAGCACACCCTG AAAGCCGGTCCCTGGCCGTGCTGGCCCCCCTGCAGGACGTGGACGTGGGGGCCGGGGAGATGGCGCTGTT TGAGTGCCTGGTGGCAGGTCCAGCTGACGTCGAGGTGGACTGGCTGTGCCGGGGCCGCCTGCTGCAGCCT GCGCTGCTCAAATGCAAGATGCATTTTGATGGCCGCAAGTGCAAGCTGCTGCTCACCTCTGTGCACGAGG ACGACAGTGGTGTCTACACCTGCAAGCTGAGCACAGCCAAAGATGAACTGACCTGCAGTGCCCGGCTGAC GGTTCGGCCGTCGCTGGCGCCTCTCTTCACCCGGTTGCTGGAAGATGTGGAGGTGTTGGAAGGCCGTGCT GCCCGCTTGGATTGCAAGATCAGCGGTACCCCGCCTCCCTCCGTTACCTGGACTCATTTTGGCCACCCCG TGAATGAGGGTGACAACTTGCGGCTTCAACAGGATGGAGGTCTACACTCACTGCACATTGCCCGGGTGGG CAGTGAGGACGAAGGACTCTATGAAGTCAGTGCCACCAACACTCATGGCCAGGCCCACTGCTCCGCCCAG CTGTATGTGGAGGAGCCTCGGACAGCTGCCTCTGGCCCCAGCTCGAAGCTGGAGAAGATGCCATCTATCC CTGAGGAGCCGGAGCACGGAGATCTAGAGAGGCTGTCTATTCCTGACTTCCTACGGCCACTGCAAGATCT GGAAGTGGGACTAGCTAAGGAGGCCATGCTGGAGTGCCAAGTGACCGGCCTGCCCTATCCCACCATCAGC TGGTTCCACAATGGCCACCGCATTCAAAGCAGTGACGACCGACGCATGACACAGTACAGGGACATACATC

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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).

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.