

Product datasheet for **MC222138**

Speg (NM_001085371) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Speg (NM_001085371) 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)



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Fully Sequenced ORF: >MC222138 representing NM_001085371
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAAGCTGTGGGTGAAGAAGCGTTTCCAGAAAACCGGCCATTCGCCCGGGCCTTTGGCCGACTTA
 CCCATGACTCGGAGACTGCCGAGGATGACATCAGCGATGTGCCGGGACCAGCGCTGGAGCTTCGGGA
 TGACAGGGCCTTCAGCACCCCCACGGGGGCTCTGATACCCTGGTGGGTACCTCCCTGGACACACCCCCG
 ACCTCCGTGACAGGCACCTCAGAGGAGCAAGTGAGCTGGTGGGCGAGCGGCAGACGGTCTCGAGCAGG
 AAGCGGGCAGCGGGGTGGCACCCGCCCTCCAGGCAGCCAAAGCAAGCACAGACAACCGGGGCCGG
 GCCACGGCACCTGGGGTGGAGCCGCTGGTGGGGCATCGCGAGCTAATCTGGTGGGCGCAAGCTGGGGG
 TCAGAGGATAGCCTTTCGGTGGCCAGTGACCTCTATGGCAGCGGTTTCACTGTACAGAGGACGGGCGC
 TCTCGATCCACGTCAGCATTCTCCGAGTGGATTGCACAGAGAGGAGCCTGACCTTCAGCCTCAGCCAGC
 CAGTGATGCCCTTCGTCCACGCCCTGCCCTTCCACCTCCCTCAAATCCGCTTTGCTTCCCCACCATCT
 CCTCGGGTGGAAAGAGGGCTCTGCCAGGACCTAGTACCCAGCCCCAGCTACTCCCACTTCGCCCCATC
 GGCGTGCTCAGGAGCCCTCGCTGCCTGAGGACATCACCACCACGGAAGAGAAGCGAGGAAAAAGCCAA
 GTCATCCGGGCCGTGCCTGGCGGCACAGTGGAGTCCCGGCCAGAGCCACTGAGCGAGGCTTCGGGT
 CGCCTGTGACGATTGGGCCGCTCGCCCCGGTGGTGGCGCGGGGTCCCGCATCTGGACAAGCTACAGT
 TCTTCAAGAGCGGGCAGCAGCAGCTGGAGCGCAGCGACTCGCCGCAGCGCCCTGCGGCCCTGGGTGCC
 CCTGCGCAAGGCTCGCTCGTGGAGCAGCCGAAGTCCGAGGGCGTGGCGGTGGGGCACACCCGAGGCC
 TCGCAGGAGGAGCTGCGGTACCTCGGGCAGTGTGGCAGAGCGCGTCCGCTGTTCCAGCAAAAGCGCG
 CCTCGTTGGATGAACGCACGCGACAACGCAGTGAACCTCGGACCTCGAAGTCCGCTTCGCCCAAGGCTC
 GGGTCGATCCGCGGATCTACGTGCGGGAGGAGCTGGTGGCTTCGACAGAGTCCCTGCTGCCACGCTG
 CAGCGCGCCCCATCCCCTCGGGAGCCCGCGAGGCCCCACTCTTCTCCCGCCTTCCACACCCAAGACCT
 CACGGGCTGTGAGCCCGCTGCCACCCAGCCGCCCTCCTAGTGGTGGGGCAAATCTGGGGACGAGCC
 TGGGAGGCCCGAAGCAGAGGGCCGGTGGCGAGGACTGAACCGGGGAAGGCCCGCAGCAGGAGATCAAG
 CGTCGGGACCAATTCCCCTAACCAGGAGCAGAGCCATCCAGGAGTGCAGGAGCCCTGTGCCCCCTACA
 CCGCGGATCCCCCGAGAGCAGGACAAAAGCCCCCTCCGGTCGCAAGCGGAAACCCCTGCTCAAGCGGT
 GCGCTTCTGCCCTGGGCCACTCCGGAGTGGAGGACTCTGTTCTGCCCCAACCTTGGAGAAGAATAGA
 GCGGGACCCGAGGCTGAGAAGAGGCTTCGCAGAGGACCTGAGGAGGATGGCCCTGGGGCCCTGGGACC
 GCAGAGGGACCCGAGCCAAGGCAAGGTGCGCCGTGCTCGGCCTACTTCCCCGAGCTCGAGTCTCAGA
 CCACTCCTATGTGTCCGCTGGGGAAGAGCCCTGGAGGCACCCGTGTTTGAGATCCCTCTGCAGAATATG
 GTGGTGGCGCCAGGAGCTGACGTGCTACTTAAGTGTATCATCACCGCCAACCCCCACCCCAAGTGTCT
 GGAAAAAGGATGGGTCCATGTTGCACAGCGAGGGTTCGTTCTCATCCGGGTGAAGGTGAACGGCACAC
 ACTGCTGCTCAGAGAGGCCAGGCTGCCGATGTGGGAGCTACACAGCCACTGCCACCAACGAACTGGGC
 CAAGCTACCTGTGCTTCTTCACTGGCTGTGAGACCTGGCGGCTCCACATCCCCTTTCAGCAGCCCCATCA
 CCTCTGATGAGGAGTACCTGAGCCCCCAGAGGAGTCCAGAGCCTGGGAGACCTGGCCCCGAACCC
 TACCATGAAGCTCAGTCCCAGCCAGGATCATGATTCTCCGACTCTTCTTCAAGGCACCCCAACGTTT
 AAGGTCTCACTCATGGACCAATCGGTGAGAGAAGGTCAAGATGTATTATGAGCATCCGTGTGCAGGGAG
 AGCCCAAGCCTGTGGTTTCTGGCTGAGGAATCGACAGCCGTGCGCCAGACCAGCGGCCCTTTCAGA
 GGAGGCCGAGGGTGGGCTCTGCCGCTTGGAGTCTGGCTGCTGAACGGGGCGATGCTGGTTTCTACACA
 TGCAAGCGGTCAACGAATATGGCGCTCGGCAAGTGCAGGCCCGCTGGAGGTCCGAGGCGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001085371
Insert Size: 2586 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:	<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:	NM_001085371.1 , NP_001078840.1
RefSeq Size:	3410 bp
RefSeq ORF:	2586 bp
Locus ID:	11790
UniProt ID:	Q62407
Cytogenetics:	1 38.88 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, 3' UTR, and coding region, compared to variant 1. The resulting protein (isoform 3) maintains the reading frame but is shorter at both the N- and C-termini when it is compared to isoform 1. This variant corresponds to variant BPEG described in PubMed ID: 10973969.</p>