

Product datasheet for **RN215836**

Speg (NM_012905) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Speg (NM_012905) Rat Untagged Clone

Tag: Tag Free

Symbol: Speg

Synonyms: APEG-1; Apeg1

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN215836 representing NM_012905
Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCAGTCCCAGCCAGGATCGAGATTCCTCTGACTCTTCCTCCAAGGCACCCCCAACCTTCAAGG
TCTCACTCATGGACCAATCAGTGAGAGAAGGTCAAGATGTCATTATGAGCATCCGCGTGCAGGGGGAGCC
CAAGCCTGTGGTCTCCTGGCTGAGGAATCGGCAGCCTGTGCGCCAGACCAGCGCGCTTTCAGAGGAG
GCCGAGGGTGGGCTCTGCCGTTGAGGATCCTGGCTGCTGAGAGGGGAGATGCTGGTTTCTACACTTGCA
AGCGGTCAACGAATATGGCGCTCGGCAGTGTGAGGCCCGCCTGGAGGTCCGAGGCGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012905

Insert Size: 342 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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_012905.2, NP_037037.1</u>
RefSeq Size:	1319 bp
RefSeq ORF:	342 bp
Locus ID:	363256
UniProt ID:	<u>Q63638</u>
Cytogenetics:	9q33
Gene Summary:	may play a role in aortic smooth muscle cell differentiation [RGD, Feb 2006] 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 the mouse APEG-1 variant described in PubMed ID: 10973969.