

Product datasheet for **RC229543**

APEG1 (SPEG) (NM_001173476) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	APEG1
Synonyms:	APEG-1; APEG1; BPEG; CNM5; MYLK6; SPEGalpha; SPEGbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC229543 representing NM_001173476
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCCAGTCCCAGCCAGAACCGCGTTCTTCTGACACTGGCTCCAAGGCACCCCCACCTTCAAGG
TCTCACTTATGGACAGTCAGTAAGAGAAGGCCAAGATGTCATCATGAGCATCCGCGTGCAGGGGAGCC
CAAGCCTGTGGTCTCCTGGCTGAGAAACCGCCAGCCCGTGCGCCAGACCAGCGCGCTTTGCGGAGGAG
GCTGAGGGTGGGCTGTGCCGGCTGCGGATCCTGGCTGCAGAGCGTGGCGATGCTGGTTTCTACACTTGCA
AAGCGGTCAATGAGTATGGTGCTCGGCAGTGCGAGGCCCGCTTGAGGTCCGAGGCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229543 representing NM_001173476
Red=Cloning site Green=Tags(s)

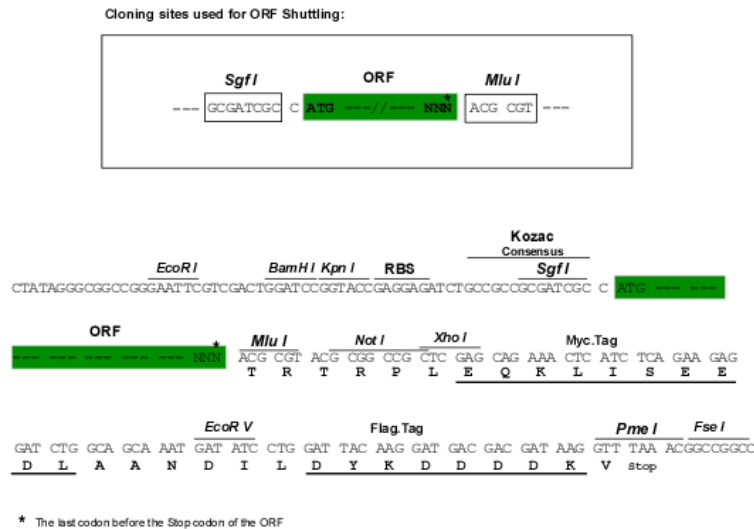
MKPSPSQNRSSDTGSKAPPTFKVSLMDQSVREGQDVIMSIQVQGEKPVVSWLRNRQPVPRPDQRRFAEE
AEGGLCRLRLAAERGDAGFYTCKAVNEYGARQCEARLEVRGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001173476

ORF Size: 339 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

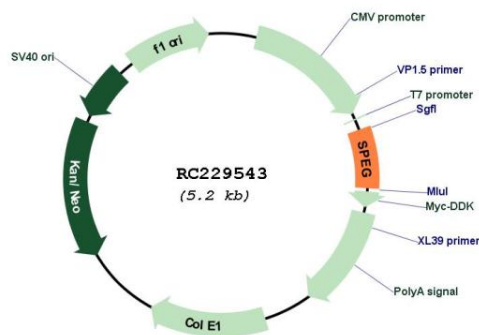
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001173476.2](#)
RefSeq ORF: 342 bp
Locus ID: 10290
UniProt ID: [Q15772](#)
Cytogenetics: 2q35

MW: 13.1 kDa

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. Along with the desmin gene, expression of this gene may be controlled by the desmin locus control region. Mutations in this gene are associated with centronuclear myopathy 5. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RC229543