

Product datasheet for **RR201742**

Stmn1 (NM_017166) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stmn1 (NM_017166) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stmn1
Synonyms: Lap18; OP18; PP17; PP19; PR22; prosolin; SMN
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201742 representing NM_017166
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCATCTTCTGATATTCAGGTGAAAGAGCTGGAGAAGCGAGCTCCGGCCAGGCTTTTGAGCTGATTC
TCAGCCCTCGATCAAAGAATCTGTCCCGAGTCCCCCTTTCCCGCCAAAGAAGAAGGATCTTTCCCT
GGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAAGAAAGACGCAAGTCTCATGAAGCAGAAGTCTTGAAG
CAGCTCGCTGAGAAGCGGGAGCATGAAAAAGAAGTGTCCAGAAAGCCATTGAGGAGAACAACAATTCA
GCAAAATGGCAGAGGAGAACTGACCCACAAAATGGAGGCTAACAAAGAGAACCGGGAGGCGCAAATGGC
TGCCAAGCTGGAGCGTTTGCAGAGAAGGACAAGCACGTTGAAGAGGTGCGGAAGAACAAGAATCCAAA
GACCCCGCGGACGAGACCGAGGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201742 representing NM_017166
Red=Cloning site Green=Tags(s)

MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSEELIQQKLEAAEERRKSHEAEVLK
QLAEKREHEKVLQKAIENNNSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHVEEVRKNKESK
DPADETEAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

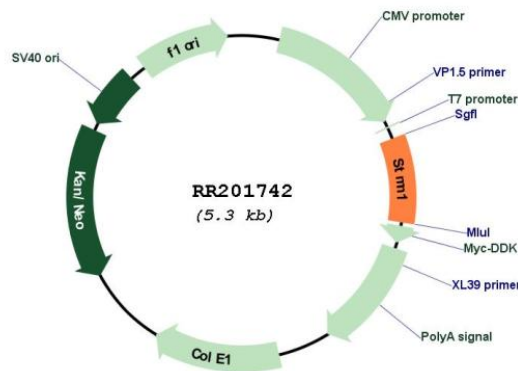
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_017166

ORF Size: 447 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:	<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:	<u>NM_017166.1</u> , <u>NP_058862.1</u>
RefSeq Size:	1054 bp
RefSeq ORF:	450 bp
Locus ID:	29332
UniProt ID:	<u>P13668</u>
Cytogenetics:	5q36
MW:	17.3 kDa
Gene Summary:	may promote microtubule depolymerization; may act as a signaling relay phosphoprotein for second messenger signaling pathways involved in cell proliferation and differentiation [RGD, Feb 2006]