

Product datasheet for **RR201888**

Stmn2 (NM_053440) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stmn2 (NM_053440) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stmn2
Synonyms: Scg10; Scgn10
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201888 representing NM_053440
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAAACAGCAATGGCCTACAAGGAAAAAATGAAGGAGCTGTCTATGCTGTCCTGATCTGCTCTCT
 GCTTCTACCCGGAGCCTCGCAACATCAACATCTACACCTACGATGACATGGAGGTGAAGCAGATCAACAA
 GCGTGTCTCCGGCCAGGCTTTCGAGCTGATCTTAAGCCCCGTCTCCATCTCGGAAGCTCCACGAACT
 CTAGTCTCTCAAAGAAGAAAGACCTGTCTCTGGAGGAGATCCAGAAAAAGCTGGAGGCTCAGAGGGGC
 GAAGGAAGTCTCAGGAGGCCAGGTGCTGAAGCAGTTGGCAGAGAAGAGGGAGCAGGAGCGAGAAGTCTT
 CCAGAAGGCTTTGGAGGAGAATAACAATTAGCAAGATGGCGGAGGAGAAGCTGATCCTGAAAATGGAA
 CAAATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATCATTGAACGTCTGCAGGAAAAGGAGAGGCATG
 CTGCCGAGGTGCCGAGGAACAAGGAAGTGCAGGTTGAAGTGTCTGGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201888 representing NM_053440
 Red=Cloning site Green=Tags(s)

MAKTAMAYKEKMKEL SMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRT
 L ASPKKKDL SLEEIQKKLEAAEGRRSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKME
 QIKENREANLAAI IERLQEKERHAAEVRNKELQVELSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

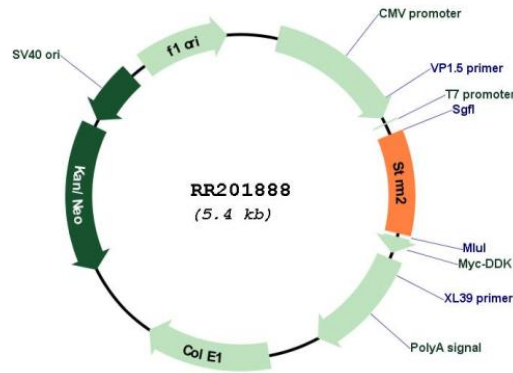


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Cloning Scheme:



Plasmid Map:



ACCN: NM_053440

ORF Size: 537 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:	NM_053440.2 , NP_445892.1
RefSeq Size:	1870 bp
RefSeq ORF:	540 bp
Locus ID:	84510
UniProt ID:	P21818
Cytogenetics:	2q23
MW:	20.8 kDa
Gene Summary:	regulatory phosphoprotein; involved in promoting microtubule depolymerization and maintenance of long-term synaptic plasticity [RGD, Feb 2006]