

Product datasheet for MR226557

Stmn1 (NM_019641) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stmn1 (NM_019641) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stmn1
Synonyms: 19k; Lag; Lap18; Op18; P18; P19; Pig; Pp17; Pp18; Pp19; Pr22; Smn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226557 representing NM_019641
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCATCTTCTGATATTCAGGTGAAAGAGCTGGAGAAGCGCGCTTCAGGCCAGGCTTTTGAGCTGATTC
 TCAGCCCTCGGTCAAAGAATCTGTCCCGATTCCCTTTCCCTTTCCCTTTCCCTTTCCCTTTCCCTTTCCCT
 GGAGGAAATCCAGAAGAAATAGAAGCTGCAGAAGAAAGACGCAAGTCTCATGAGCGGAAGTCTTGAAG
 CAGCTCGCGGAGAAGCGGAGCATGAGAAGGAGGTGCTCCAGAAAGCCATCGAGGAGAACAACAACCTTCA
 GCAAGATGGCGGAGGAGAAGCTGACCCACAAAATGGAGGCTAACAAAGAGAACCAGGAGGCGCAGATGGC
 GGCAAGCTGGAGCGCTTGCAGAGAAGGACAAGCACGTGGAAGAGGTGCGGAAGAACAAGAATCCAAA
 GACCCCGCGGATGAGACTGAGGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226557 representing NM_019641
 Red=Cloning site Green=Tags(s)

MASSDIQVKELEKRSAGQAFELILSPRSKESVPDFPLSPPKKKDLSEELIQQKLEAAEERRKSHEAEVLK
 QLAEKREHEKEVLQKAIENNNFSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHVEEVRKNKESK
 DPADETEAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_e03.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019641

ORF Size: 447 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_019641.4](#), [NP_062615.1](#)

RefSeq Size: 1070 bp

RefSeq ORF: 450 bp

Locus ID: 16765

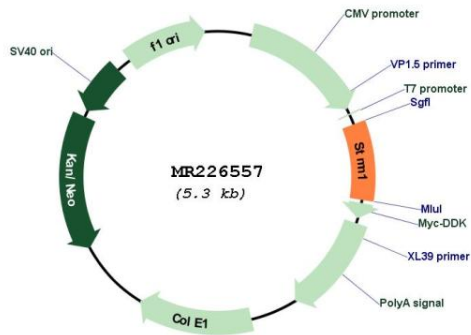
UniProt ID: [P54227](#)

Cytogenetics: 4 66.76 cM

MW: 17.7 kDa

Gene Summary: Involved in the regulation of the microtubule (MT) filament system by destabilizing microtubules. Prevents assembly and promotes disassembly of microtubules. Phosphorylation at Ser-16 may be required for axon formation during neurogenesis (By similarity). Involved in the control of the learned and innate fear.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226557