

Product datasheet for MR201588

Stmn2 (NM_025285) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stmn2 (NM_025285) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stmn2
Synonyms: A1159727; SCG10; Scgn10; Stmb2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201588 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAACAGCAATGGCCTACAAGGAAAAATGAAGGAGCTGTCTATGCTGTCACTGATCTGCTCTCT
 GCTTCTACCCGGAGCCGCGCAACATCAACATCTACACCTACGACGACATGGAGGTGAAGCAGATCAACAA
 GCGGGCCTCTGGCCAGGCTTTTGAGCTGATCTTGAAGCCACCATCTCCATCTCAGAAGCTCCACGA
 CTAGCTTCTCAAAGAAGAAAGACCTGTCTCTGGAGGAGATTCAGAAAAAGCTGGAGGCTGCAGAGGAGC
 GAAGAAAGTCTCAAGAGGCTCAGGTGCTGAAGCAGTTGGCAGAGAAGAGGGAGCACGAGCGAGAGGTGCT
 CCAGAAGGCGCTGGAGGAGAACAACACTTCAGCAAGATGGCGGAGGAGAAGCTGATCCTGAAGATGGAA
 CAGATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATCATTGAACGCTCTGCAGGAAAAGGAGGCCATG
 CTCGAGAGGTTCCAGGAACAAGGAAGTGCAGGTTGAAGTGTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201588 protein sequence
 Red=Cloning site Green=Tags(s)

MAKTAMAYKEKMKEL SMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRT
 L ASPKKDL SLEEI QKKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKME
 QIKENREANLAAI IERLQEKERHAAEVRRNKELQVELSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_025285

ORF Size: 540 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.

RefSeq: [NM_025285.2](#), [NP_079561.1](#)

RefSeq Size: 1904 bp

RefSeq ORF: 540 bp

Locus ID: 20257

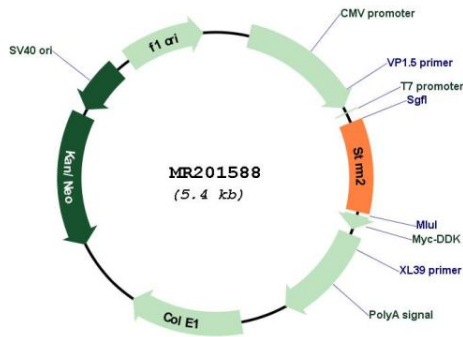
UniProt ID: [P55821](#)

Cytogenetics: 3 2.15 cM

MW: 20.8 kDa

Gene Summary: Regulator of microtubule stability. When phosphorylated by MAPK8, stabilizes microtubules and consequently controls neurite length in cortical neurons. In the developing brain, negatively regulates the rate of exit from multipolar stage and retards radial migration from the ventricular zone.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201588