

Product datasheet for **MG201588**

Stmn2 (NM_025285) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stmn2 (NM_025285) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Stmn2
Synonyms: A1159727; SCG10; Scgn10; Stmb2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201588 representing NM_025285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAACAGCAATGGCCTACAAGGAAAAATGAAGGAGCTGTCTATGCTGTCACTGATCTGCTCT
 GCTTCTACCCGGAGCCGCGCAACATCAACATCTACACCTACGACGACATGGAGGTGAAGCAGATCAACAA
 GCGGGCCTCTGGCCAGGCTTTTGAGCTGATCTTGAAGCCACCATCTCCATCTCAGAAGCTCCACGA
 CTAGCTTCTCAAAGAAGAAAGACCTGTCTCTGGAGGAGATTCAGAAAAAGCTGGAGGCTGCAGAGGAGC
 GAAGAAAGTCTCAAGAGGCTCAGGTGCTGAAGCAGTTGGCAGAGAAGAGGGAGCACGAGCGAGAGGTGCT
 CCAGAAGGCGCTGGAGGAGAACAACACTTCAGCAAGATGGCGGAGGAGAAGCTGATCCTGAAGATGGAA
 CAGATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATCATTGAACGTCTGCAGGAAAAGGAGAGGCATG
 CTCGAGAGGTTCCAGGAACAAGGAAGTGCAGGTTGAAGTGTCTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201588 representing NM_025285
 Red=Cloning site Green=Tags(s)

MAKTAMAYKEKMKELSMLESLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRT
 L ASPKKKDL SLEEI QKKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKME
 QIKENREANLAAI IERLQEKERHAAEVRRNKELQVELSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_025285

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:

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

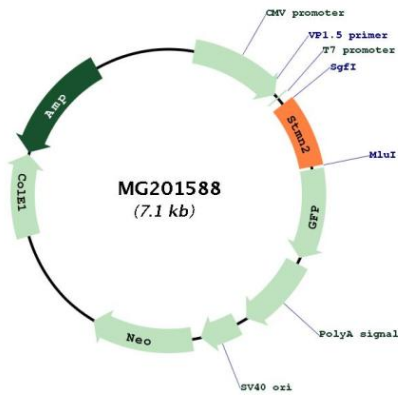
Locus ID: 20257

UniProt ID: [P55821](#)

Cytogenetics: 3 2.15 cM

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 MG201588