

Product datasheet for **RG202914**

STMN2 (NM_007029) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: STMN2 (NM_007029) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: STMN2
Synonyms: SCG10; SCGN10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202914 representing NM_007029
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAACAGCAATGGCCTACAAGGAAAAATGAAGGAGCTGTCCATGCTGTCACTGATCTGCTCTT
 GCTTTTACCCGGAACCTCGCAACATCAACATCTATACTTACGATGATATGGAAGTGAAGCAATCAACAA
 ACGTGCCTCTGGCCAGGCTTTTGAGCTGATCTTGAAGCCACCATCTCCTATCTCAGAAGCCCCACGAACT
 TTAGTCTTCCAAGAAGAAAGACCTGTCCCTGGAGGAGATCCAGAAGAACTGGAGGCTGCAGAGGAAA
 GAAGAAAGTCTCAGGAGGCCAGGTGCTGAAACAATTGGCAGAGAAGAGGGAACACGAGCGAGAAGTCTT
 TCAGAAGGCTTTGGAGGAGAACAACACTTCAGCAAGATGGCGGAGGAAAAGCTGATCCTGAAAATGGAA
 CAAATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATTATTGAACGTCTGCAGGAAAAGGAGGCCATG
 CTGCGGAGGTGCGCAGGAACAAGGAACCTCAGGTTGAACTGTCTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202914 representing NM_007029
 Red=Cloning site Green=Tags(s)

MAKTAMAYKEKMKELSMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRT
 L ASPKKKDL SLEEI QKKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKME
 QIKENREANLAAI IERLQEKERHAAEVRRNKELQVELSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_007029

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_007029.4](#)

RefSeq Size: 724 bp

RefSeq ORF: 540 bp

Locus ID: 11075

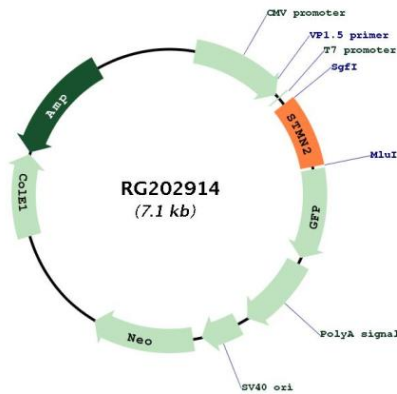
UniProt ID: [Q93045](#)

Cytogenetics: 8q21.13

Domains: Stathmin

Gene Summary: This gene encodes a member of the stathmin family of phosphoproteins. Stathmin proteins function in microtubule dynamics and signal transduction. The encoded protein plays a regulatory role in neuronal growth and is also thought to be involved in osteogenesis. Reductions in the expression of this gene have been associated with Down's syndrome and Alzheimer's disease. Alternatively spliced transcript variants have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 6. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG202914