

## Product datasheet for **RC202914**

### STMN2 (NM\_007029) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** STMN2 (NM\_007029) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** STMN2  
**Synonyms:** SCG10; SCGN10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202914 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTAAACAGCAATGGCCTACAAGGAAAAATGAAGGAGCTGTCCATGCTGTCACTGATCTGCTCTT  
GCTTTTACCCGGAACCTCGCAACATCAACATCTATACTTACGATGATATGGAAGTGAAGCAATCAACAA  
ACGTGCCTCTGGCCAGGCTTTTGAGCTGATCTTGAAGCCACCATCTCCTATCTCAGAAGCCCCACGAACT  
TTAGTCTTCCAAGAAGAAAGACCTGTCCCTGGAGGAGATCCAGAAGAACTGGAGGCTGCAGAGGAAA  
GAAGAAAGTCTCAGGAGGCCAGGTGCTGAAACAATTGGCAGAGAAGAGGGAACACGAGCGAGAAGTCTT  
TCAGAAGGCTTTGGAGGAGAACAACACTTCAGCAAGATGGCGGAGGAAAAGCTGATCCTGAAAATGGAA  
CAAATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATTATTGAACGTCTGCAGGAAAAGGAGGCGATG  
CTGCGGAGGTGCGCAGGAACAAGGAACCTCAGGTTGAACTGTCTGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202914 protein sequence  
Red=Cloning site Green=Tags(s)

MAKTAMAYKEKMKEL SMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRT  
LASPKKDL SLEEIQKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEELILKME  
QIKENREANLAAI IERLQEKERHAAEVRRNKELQVELSG

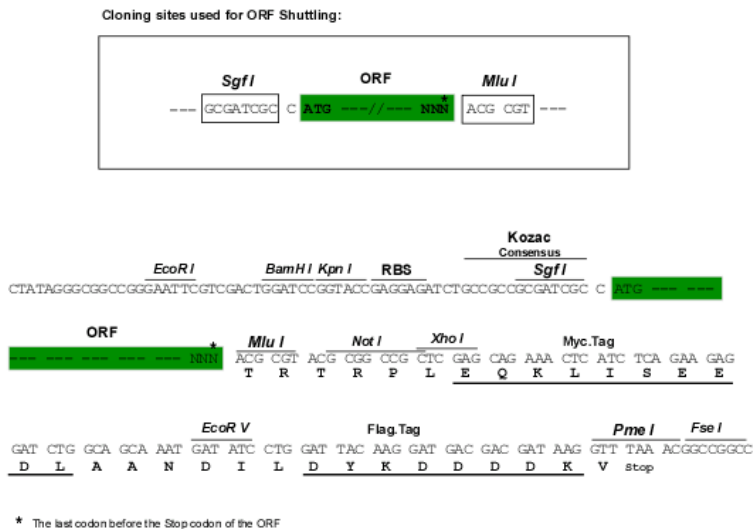
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6410\\_b07.zip](https://cdn.origene.com/chromatograms/mk6410_b07.zip)



Restriction Sites: SgfI-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: 2232 bp

RefSeq ORF: 540 bp

Locus ID: 11075

UniProt ID: [Q93045](#)

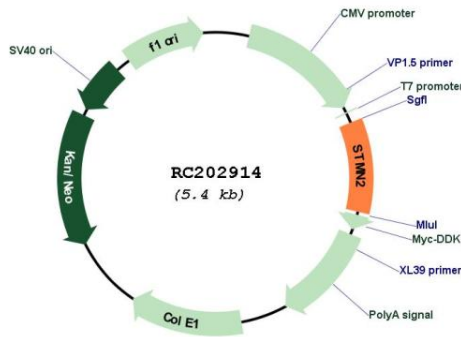
**Cytogenetics:** 8q21.13

**Domains:** Stathmin

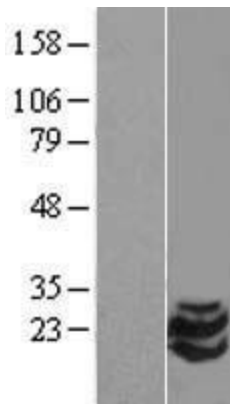
**MW:** 20.8 kDa

**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]

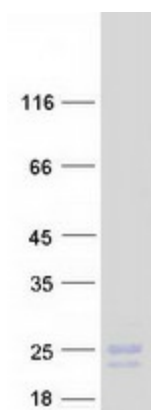
**Product images:**



Circular map for RC202914



Western blot validation of overexpression lysate (Cat# [LY416248]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202914 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STMN2 protein (Cat# [TP302914]). The protein was produced from HEK293T cells transfected with STMN2 cDNA clone (Cat# RC202914) using MegaTran 2.0 (Cat# [TT210002]).