

Product datasheet for **SC115749**

STMN2 (NM_007029) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STMN2 (NM_007029) Human Untagged Clone
Tag:	Tag Free
Symbol:	STMN2
Synonyms:	SCG10; SCGN10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115749 sequence for NM_007029 edited (data generated by NextGen Sequencing)

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ATGGCTAAAACAGCAATGGCCTACAAGGAAAAATGAAGGAGCTGTCCATGCTGTCACTG
ATCTGCTCTTGCTTTTACCCGGAACCTCGCAACATCAACATCTATACTTACGATGATATG
GAAGTGAAGCAAATCAACAAACGTGCCTCTGGCCAGGCTTTTGAGCTGATCTTGAAGCCA
CCATCTCCTATCTCAGAAGCCCCACGAACCTTGTCTTCTCAAAGAAGAAAGACCTGTCC
CTGGAGGAGATCCAGAAGAACTGGAGGCTGCAGAGGAAAGAAGAAAGTCTCAGGAGGCC
CAGGTGCTGAAACAATTGGCAGAGAAGAGGGAACACGAGCGAGAAGTCTCAGAAGGCT
TTGGAGGAGAACAACAATTAGCAAGATGGCGGAGGAAAAGCTGATCCTGAAAATGGAA
CAAATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATTATTGAACGTCTGCAGGAAAAG
GAGAGGCATGCTGCGGAGGTGCGCAGGAACAAGGAACTCCAGGTTGAACTGTCTGGCTGA
```

Clone variation with respect to NM_007029.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007029 unedited
 CAAAATTGTATACGACTCATATGGGCGGCCGCGAAATTCGCACGAGTCTCGTGCCGAAT
 TCGGCACGAGGCGCTGCTGTAGCCGGACCTTTGCCTTCGCCACTGCTCAGCGTCTGCAC
 ATCCCTACAATGGCTAAAACAGCAATGGCCTACAAGGAAAAAATGAAGGAGCTGTCCAT
 GCTGTCACTGATCTGCTTTGCTTTTACCCGGAACCTCGCAACATCAACATCTATACTTA
 CGATGATATGGAAGTGAAGCAAATCAACAAACGTGCCTCTGGCCAGGCTTTTGAGCTGAT
 CTTGAAGCCACCATCTCCTATCTCAGAAGCCCCACGAACCTTAGCTTCTCCAAAGAAGAA
 AGACCTGTCCCTGGAGGAGATCCAGAAGAACTGGAGGCTGCAGAAGAAAAGAAAAAGTC
 TCAGGAGGCCAGGTGCTGAAACAATTGGCAGAAAAGAAGGAACACGAGCGAGAAGTCTT
 TCAGAAGGCTTTGGAGGAGAACAACAACCTCAGCAAGATGGCGGAGGAAAAAGCTGATCC
 TGAAAAATGGAACAAATTAAGGAAAACCGTGAGGCTAATCTAGCTGCTATTATTNGAACGT
 CTGCAGGAAAAGGAGAGGCATGCTGCGGGAGGTGCGCAAGAAAACAAGGAACCTCAGTTGA
 ACTGTCTGGCTGAACAGGGGAAGGGTCTGGCCACGCCACCAATAGTAAAATCCCCTGCC
 ATATATAAATGGATATGCGAATCAGATGGGGATGNATGAACATGGTAAAAAGAACTCA
 TTTAAAAAACAACAAAATCAAAAAAATACTACTCTATATGCGGGCGCGTAAT
 AATGTTCTGAAGAANNCNGTGGGATCCTGGTACCCTCCAGGCTTCTGGCCTGGAATGCC
 CTCGGGCCAACCTGCTATAAAATGACATGTGACAGGCTATAGGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007029 unedited
 AGCTTTGGACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGATTTTTT
 TTGTTTTTTTTTTTTTATAATGAGTCTTTTTAAACCATGTCATACATCCCCATCCTG
 ATATCGCATGATCCATTATAATATAGGCAGGGGATTTACTATTGGTGGGCGTGCCAGA
 CCCTCCCTTGCTTACGCCAGACAGTTCAACCTGGAGTTCCTTGTCTCCTGCGCACCTCCGC
 AGCATGCCTCTCCTTTTCTGCAGACGTTCAATAATAGCAGCTAGATTAGCCTCAGGTT
 TTCTTAATTTGTTCCATTTTCAGGATCAGTTTTCTCCGCCATCTTGCTGAAGTTGTT
 GTTCTCCTCCAAAGCCTTCTGAAGGACTTCTCGCTCGTGTTCCTCTTCTGCCAAATG
 TTTACGACCTGGGCTCCTGAGACTTTCTTCTTCTGTCAGCCTCCAGTTTCTTCTG
 GATCTCCTCCAGGACAGGTCTTTCTTCTTTGGAGAAGCTAAAGTTCTGTTGGGCTCTGA
 GATAGGAGATGGTGGCTTCAAGATCAGCTCAAAAGCCTGGCCAGAGGCACGTTTGTGAT
 TTGCTTCACTTCCATATCATCGTAAGTATAGATGTTGATGTTGCGAGGTTCCGGGTA
 GCAAGACAGATCAGTGACAGCATGGACAGCTCCTTCAATTTTTTCTTGTAGGCCATTGC
 TGTTTTACCCATTGTAGGATGTGCAGACGCTGAGCAGTGGCGAAGGCAAGGGGTCCGC
 TACAGCAGCGCCTTCGTGCCGAATTCGGCACGAGGCTCGTGCCGATTTGCGGGCCGCC
 TAAATGAGTCCGATACAAATCTGACGNTCACTAACGAGCCTTGCTCAATAGACTCCAC
 GTACACCCTACCGCATTGGGTACGGGGCGGGTATTACAACATTTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_007029

Insert Size:

800 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_007029.2](#), [NP_008960.2](#)

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]

Transcript Variant: This variant (2) lacks an alternate exon, which results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.