

Product datasheet for **SC116654**

Stathmin 1 (STMN1) (NM_005563) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stathmin 1 (STMN1) (NM_005563) Human Untagged Clone
Tag: Tag Free
Symbol: Stathmin 1
Synonyms: C1orf215; Lag; LAP18; OP18; PP17; PP19; PR22; SMN
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005563 edited
 ATGGCTTCTTCTGATATCCAGGTGAAAGAAGCTGGAGAAGCGTGCCTCAGGCCAGGCTTTT
 GAGCTGATTCTCAGCCCTCGGTCAAAGAATCTGTTCCAGAATCCCCCTTTCCCTCCA
 AAGAAGAAGGATCTTCCCTGGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAAGAAAGA
 CGCAAGTCCCATGAAGCTGAGGTCTTGAAGCAGCTGGCTGAGAAACGAGAGCACGAGAAA
 GAAGTGCTTCAGAAGGCAATAGAAGAGAACAACAACCTTCAGTAAAATGGCAGAAGAGAAA
 CTGACCCACAAAATGGAAGCTAATAAAGAGAACCAGAGGCACAAATGGCTGCCAAACTG
 GAACGTTTGCGAGAGAAGGATAAGCACATTGAAGAAGTGCAGGAAACAAAGAATCCAAA
 GACCCTGCTGACGAGACTGAAGCTGACTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005563 unedited
 NGGTGCAATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGCTCGGACTG
 AGCAGGACTTTCTTATCCCAGTTGATTGTGCAGAAACACTGCCTGTCGTTGTCTTCTA
 TTCACCATGGCTTCTTCTGATATCCAGGTGAAAGAAGCTGGAGAAGCGTGCCTCAGGCCAG
 GCTTTTGAGCTGATTCTCAGCCCTCGGTCAAAGAATCTGTTCCAGAATCCCCCTTTCC
 CCTCCAAAGAAGAAGGATCTTCCCTGGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAA
 GAAAGACGCAAGTCCCATGAAGCTGAGGTCTTGAAGCAGCTGGCTGAGAAACGAGAGCAC
 GAGAAAGAAGTGCTTCAGAAGGCAATAGAAGAGAACAACAACCTTCAGTAAAATGGCAGAA
 GAGAAACTGACCCACAAAATGGAAGCTAATAAAGAGAACCAGAGGCACAAATGGCTGCC
 AAAGTGAACGTTTTCGAGAGAAGGATAAGCACATTGAAGAAGTGCAGGAAACAAAGAA
 TCCAAAGACCCTGCTGACGAGACTGAAGCTGACTAATTTGTTCTGAGAACTGACTTTCTC
 CCCATCCCCTTCTAAATATCCAAAGACTGTACTGGCCAGTGTATTNTATTTTTCCCT
 CCTGNACAATATTTAGAAGCTAATGTANGACTGTATAGGTAGATCCAGATCCAGACTGG
 TAGATGTTGTTTTAGGGGCTAAAGGGGAGAAACTGAAAGTGTNTACTCTTTTTCTAANA
 GTGTGGTCTTTCTAATGTAGCTATTNTTCCTTGGTGCATCTTTTCTACTTCAGTACCTTT
 GGTGACTGGGGTTATGGGCTAGTACTGGNATTGGCTCTGTGAAACATATTTGTGAAAAG
 ATATGTAAG



[View online »](#)

| | |
|-------------------------------|--|
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_005563 |
| Insert Size: | 1030 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <ol style="list-style-type: none">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_005563.3 , NP_005554.1 |
| RefSeq Size: | 1542 bp |
| RefSeq ORF: | 450 bp |
| Locus ID: | 3925 |
| UniProt ID: | P16949 |
| Cytogenetics: | 1p36.11 |
| Domains: | Stathmin |
| Protein Pathways: | MAPK signaling pathway |

Gene Summary:

This gene belongs to the stathmin family of genes. It encodes a ubiquitous cytosolic phosphoprotein proposed to function as an intracellular relay integrating regulatory signals of the cellular environment. The encoded protein is involved in the regulation of the microtubule filament system by destabilizing microtubules. It prevents assembly and promotes disassembly of microtubules. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]

Transcript Variant: This variant (3) uses an alternate terminal exon, compared to variant 4. The resulting isoform (a) has a shorter and distinct C-terminus, compared to isoform b. Variants 1, 2, and 3 encode the same protein.