

Product datasheet for **RG227355**

Stathmin 1 (STMN1) (NM_001145454) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stathmin 1 (STMN1) (NM_001145454) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: STMN1
Synonyms: C1orf215; Lag; LAP18; OP18; PP17; PP19; PR22; SMN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227355 representing NM_001145454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCTTCTGATATCCAGGTGAAAGAACTGGAGAAGCGTGCCTCAGGCCAGGCTTTTGAGCTGATTC
 TCAGCCCTCGGTCAAAGAATCTGTTCCAGAATCCCCCTTCCCTCCAAAGAAGAAGGATCTTCCCT
 GGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAAGAAAGACGCAAGTCCCATGAAGCTGAGGTCTTGAAG
 CAGCTGGCTGAGAAACGAGAGCACGAGAAAGAAGTGCTTCAGAAGCAATAGAAGAGAACAACAATTCA
 GTAAAATGGCAGAAGAGAACTGACCCACAAAATGGAAGCTAATAAAGAGAACCGAGAGGCACAAATGGC
 TGCCAAACTGGAACGTTTGCAGAGAAGATGACTTCTGGACTCACGGGCTGGGGCCACCCAGCACAG
 ATCTCTGCTGAGCAATCTGTCTCCACTCTGTTCTGCCCTTTGCCAGCCCTGGGCTCCAATCTGCAT
 TGATTACCTGGTCTGATCTCTCACCATCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227355 representing NM_001145454
 Red=Cloning site Green=Tags(s)

MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSEEIQKKLEAAEERRKSHEAEVLK
 QLAEKREHEKEVLQKAIENNNFSKMAEEKLTHKMEANKENREAQMAAKLERLREKMYFWTHGPGAHPAQ
 ISAEQSLHSPALCPALGLQALITWSDLSHHH

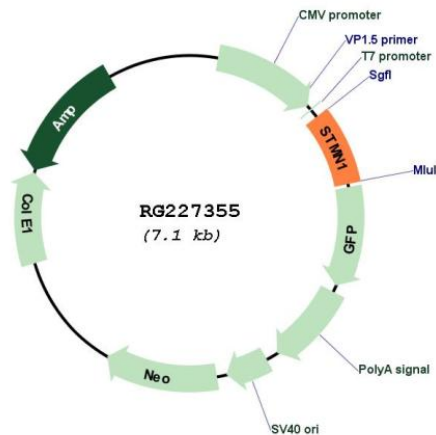
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001145454

ORF Size: 522 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:	<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_001145454.3
RefSeq Size:	2265 bp
RefSeq ORF:	525 bp
Locus ID:	3925
UniProt ID:	P16949
Cytogenetics:	1p36.11
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]