

Product datasheet for **RG207655**

SEPTIN12 (NM_144605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SEPTIN12
Synonyms:	SEPT12; SPGF10
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207655 representing NM_144605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCCCTGAGGCGCTCCCCCTCTCCCTGCCTGTCTCGCAGCCCTCCAGCCCCAGCACCCACCCCT
GCGAGATGCTTGGTCTGTGGCATTGAGGCTGTGCTGGACCAGCTGAAGATCAAGGCTATGAAGATGGG
GTTTGAGTTCAACATCATGGTGGTGGGCAAGCGGGCTGGGCAAGTCCACGATGGTGAACACGCTGTTT
AAGTCCAAAGTGTGAAGTCAAACCCACCGGGCTTGGGGTGCCACACCCAGACGCTGCAGCTGCATT
CACTGACCCATGTATAGAGGAGAAGGGTGTGAAGCTGAAGCTGACGGTGACGGACACGCCCGCTTCGG
GGACCAGATCAACAATGACAACTGCTGGGACCCCATCTGGGCTACATCAACGAGCAATACGAGCAGTAC
CTGCAGGAGGAGATCCTCATCACCCGCCAGCGCCACATCCCAGACACCCGGGTGCACTGCTGCGTGTACT
TTGTACCACCCACTGGGCACTGCCTGCGGCCCTGGACATTGAGTTCTGCAGCGGCTGTGCCGACTGT
GAATGTGGTGGCCGTGATTGCCAGGGCCGACAGCCTGACCATGGAGGAGCGAGAGGCCCTTCAGGCGCAGG
ATCCAGCAGAACCTGAGGACCCACTGCATCGACGTCTACCCCCAGATGTCTTTGACGAGGACATCAATG
ACAAAATCCTCAACAGCAAGTTACGGGACCGAATCCCTTTTGGCGTGGTAGGGGCTGACCAAGAGCACCT
GGTGAACGGGAGGTGTGCTTGGGCGGAAGACCAAGTGGGGCATCATTGAAGTGGAGAACATGGCGCAC
TGTGAATTTCTCTCCTGAGAGACCTGCTTATCCGCTCCACCTCCAAGACCTGAAGGACATAACCCACA
ACATCCACTATGAGAACTACCGCGTCATCAGACTCAATGAAAGCCACCTGCTGCCCCGCGGGCCCGGCTG
GGTGAACCTGGCCCCGGCCTCCCAGGACAGCTGACCACCCCGGACCTTCAAGGTCTGCAGGGGGGCC
CATGACGATTCTGATGATGATTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



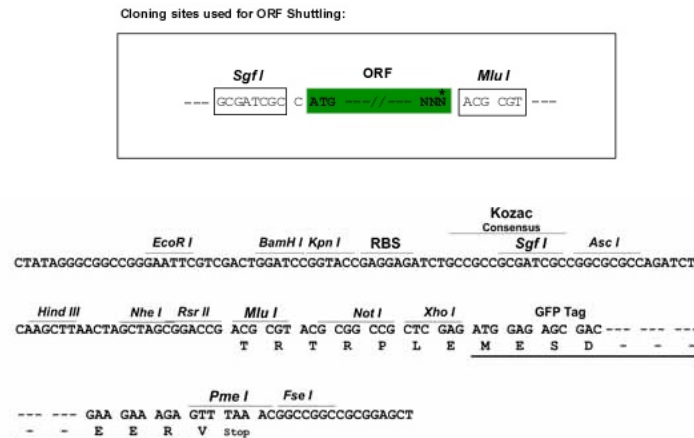
Protein Sequence: >RG207655 representing NM_144605
Red=Cloning site Green=Tags(s)

MDPLRRSPSPCLSSQPSSPSTPPCEMLGPVGIEAVLDQLKIKAMKMGFEFNMVVGQSGLGKSTMVNTLF
KSKVWKSNNPGLGVPTPQTLQLHSLTHVIEEKGVKLKLTVDTPGFGDQINNDNCWDPILGYINEQEYQY
LQEEILITQRHIPDTRVHCCVYFVPPTGHCLRPDLIEFLQRLCRTVNVVPVIARADSLTMEEREAFRRR
IQQNLRTHCIDVYPQMCFDEDINDKILNSKLRDRIPFAVVGADQEHVNGRCVLGRKTKWGIIEVENMAH
CEFPLLRDLLIRSHLQDLKDITHNIHYENYRVIRLNESHLLPRGPWVNLAPASPGQLTTPRTFKVCRGA
HDDSDDEF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144605

ORF Size: 1074 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144605.5](#)

RefSeq Size: 1291 bp

RefSeq ORF: 1077 bp

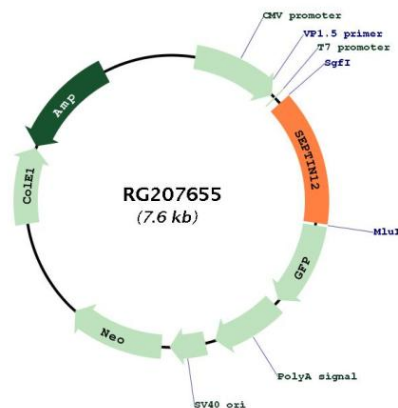
Locus ID: 124404

UniProt ID: [Q8IYM1](#)

Cytogenetics: 16p13.3

Gene Summary: This gene encodes a guanine-nucleotide binding protein and member of the septin family of cytoskeletal GTPases. Septins play important roles in cytokinesis, exocytosis, embryonic development, and membrane dynamics. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG207655