

Product datasheet for **RG228245**

SEPTIN12 (NM_001154458) 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: >RG228245 representing NM_001154458
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGACCCCTGAGGCGCTCCCCCTCTCCCTGCCTGTCTCGAGCCCTCCAGCCCAGCACCCACCCCT
GCGAGATGCTTGGTCTGTGGCATTGAGGCTGTGCTGGACCAGCTGAAGATCAAGGCTATGAAGATGGG
GTTTGAGTTCAACATCATGGTGGTGGGGCAAAGCGGGCTGGCAAGTCCACGATGGTGAACACGCTGTTT
AAGTCCAAAGTGTGAAGTCAAACCCACCGGGCTTGGGGTGCCACACCCAGACGCTGCAGCTGCATT
CACTGACCATGTATAGAGGAGAAGGGTGTGAAGCTGAAGCTGACGGTGACGGACACGCCCGCTTCGG
GGACCAGATCAACAATGACAACTGCCTGCGGCCCTGGACATTGAGTTCCTGCAGCGCTGTGCCGACT
GTGAATGTGGTGCCCGTATTGCCAGGGCCGACAGCCTGACCATGGAGGAGCGAGAGGCCTTCAGGCGCA
GGATCCAGCAGAACCTGAGGACCCACTGCATCGAGCTACCCCCAGATGTGCTTTGACGAGGACATCAA
TGACAAAATCCTCAACAGCAAGTTACGGGACCGAATCCCTTTTGCCGTGGTAGGGGCTGACCAAGAGCAC
CTGGTGAACGGGAGGTGTGCTCGGCCGGAAGACCAAGTGGGGCATCATTGAAGTGGAGAATGGCGC
ACTGTGAATTTCTCTCTGAGAGACCTGCTTATCCGCTCCACCTCCAAGACCTGAAGGACATAACCCA
CAACATCCACTATGAGAACTACCGCGTCATCAGACTCAATGAAAGCCACCTGCTGCCCCGCGGCCCGGC
TGGGTGAACCTGGCCCCGGCCTCCCCAGGACAGTGACACCCCCCGACCTTCAAGGTCTGCAGGGGG
CCCATGACGATTCTGATGATGATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



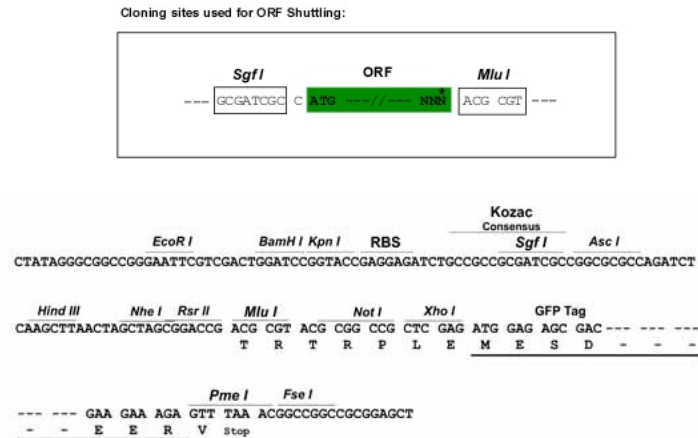
Protein Sequence: >RG228245 representing NM_001154458
 Red=Cloning site Green=Tags(s)

MDPLRRSPSPCLSSQPSSPSTPPCEMLGPVGIEAVLDQLKIKAMKMGFEFNIMVVGQSGLGKSTMVNTLF
 KSKVWKSNNPGLGVPTPQTLQLHSLTHVIEEKGVKLKLTVDTPGFGDQINNDNCLRPLDIEFLQRLCRT
 VNVVPIARADSLTMEERAFRRRIQQNLRTHCIDVYPQMCFDEDINDKILNSKLRDRIPFVVGADQEH
 LVNGRCVLGRKTKWGIIEVENMAHCEFPLLRDLLIRSHLQDLKDITHNIHYENYRVIRLNESHLLPRGPG
 WYNLAPASPGQLTPRTFKVCRGAHDDSDDEF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001154458

ORF Size: 936 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_001154458.3](#)

RefSeq Size: 1223 bp

RefSeq ORF: 939 bp

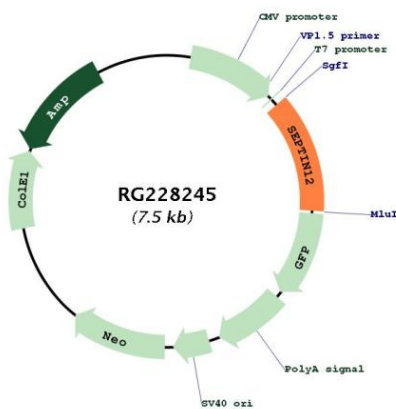
Locus ID: 124404

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 RG228245