

Product datasheet for RC207655

SEPTIN12 (NM_144605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN12 (NM_144605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEPTIN12
Synonyms:	SEPT12; SPGF10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207655 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCCTGAGGCGCTCCCCTCTCCCTGCCTGTCTCGCAGCCCTCCAGCCCCAGCACCCACCCCT
GCGAGATGCTTGGTCTGTGGGCATTGAGGCTGTCTGGACCAGCTGAAGATCAAGGCTATGAAGATGGG
GTTTGAGTTCAACATCATGGTGGTGGGGCAAAGCGGGCTGGGCAAGTCCACGATGGTGAACACGCTGTTC
AAGTCAAAGTGTGGAAGTCAAACCCACCGGGCTTGGGGTGCCACACCCAGACGCTGCAGCTGCATT
CACTGACCATGTATAGAGGAGAAGGGTGTGAAGCTGAAGCTGACGGTGACGGACACGCCCGGCTCGG
GGACCAGATCAACAATGACAACCTGCTGGGACCCATCCTGGGCTACATCAACGAGCAATACGAGCAGTAC
CTGCAGGAGGAGATCCTCATCACCCGCCAGCGCCACATCCAGACACCCGGTGCCTGCTGCGTGTACT
TTGTACCACCCACTGGGCACTGCCTGCGGCCCTGGACATTGAGTTCTGCAGCGGCTGTGCCGGACTGT
GAATGTGGTGCCCGTATTGCCAGGGCCGACAGCCTGACCATGGAGGAGCGAGAGGCCTTCAGGCGCAGG
ATCCAGCAGAACCTGAGGACCCACTGCATCGACGTCTACCCCAAGATGTGCTTTGACGAGGACATCAATG
ACAAAACTCTCAACAGCAAGTTACGGGACCGAATCCCTTTTCCGTGGTAGGGGCTGACCAAGAGCACCT
GGTGAACGGGAGGTGTCTCTGGGCCGGAAGACCAAGTGGGGCATCATTGAAGTGGAGAACATGGCCGAC
TGTGAATTTCTCTCTGAGAGACCTGCTTATCCGCTCCACCTCCAAGACCTGAAGGACATAACCCACA
ACATCCACTATGAGAACTACCGGCTCATCAGACTCAATGAAAGCCACCTGCTGCCCGCGGGCCCGGCTG
GGTGAACCTGGCCCCGGCTCCCAAGGACAGCTGACCACCCCGGACCTTCAAGGTCTGCAGGGGGGCC
CATGACGATTCTGATGATGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC207655 protein sequence
Red=Cloning site Green=Tags(s)

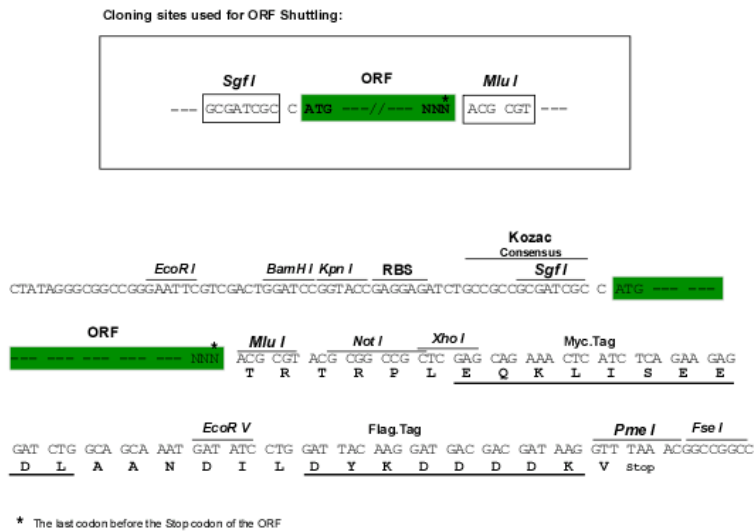
MDPLRRSPSPCLSSQPSSSTPPCEMLGPVIEAVLDQLKIKAMKMGFEFNMVVGQSGLGKSTMVNTLF
 KSKVWKS NPPGLGVPTPQTLQLHSLTHVIEEKGVKLLKLTVDTPGFGDQINNDNCWDPILGYINEQYEQY
 LQEEILITRQRHIPDTRVHCCVYFVPTGHCLRPLDIEFLQRLCRTVNVVPIARADSLTMEERAFRRR
 IQQNLRTHCIDVYPQMCFDEDINDKILNSKLRDRIPFAVVGADQEHLVNGRCVLGRKTKWGIIEVENMAH
 CEFPLLRLLLIRSHLQDLKDITHNIHYENYRVIIRLNESHLLPRGPGWVNLAPASPGQLTTPRTFKVCRGA
 HDDSDDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6335_h02.zip

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.

RefSeq: [NM_144605.5](#)

RefSeq Size: 1524 bp

RefSeq ORF: 1077 bp

Locus ID: 124404

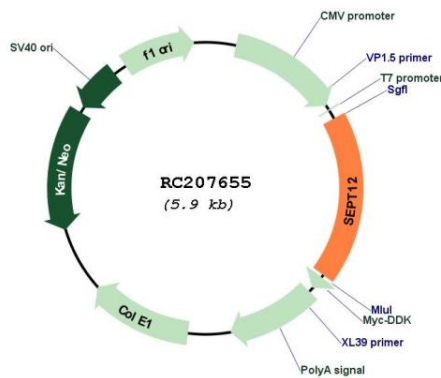
UniProt ID: [Q8IYM1](#)

Cytogenetics: 16p13.3

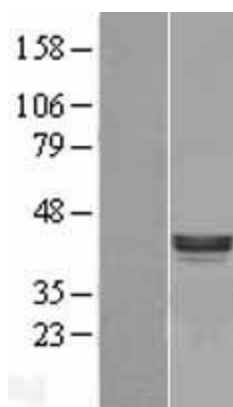
MW: 40.7 kDa

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]

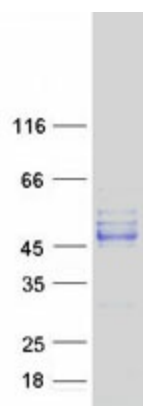
Product images:



Circular map for RC207655



Western blot validation of overexpression lysate (Cat# [LY408232]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207655 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEPTIN12 protein (Cat# [TP307655]). The protein was produced from HEK293T cells transfected with SEPTIN12 cDNA clone (Cat# RC207655) using MegaTran 2.0 (Cat# [TT210002]).