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Product datasheet for RG205163

SEPTIN7 (NM_001788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN7 (NM_001788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN7
Synonyms:	CDC3; CDC10; NBLA02942; SEPT7; SEPT7A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205163 representing NM_001788
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAACAGAAGAACCTTGAAGGCTATGTGGGATTTGCCAATCTCCCAAATCAAGTATACAGAAAAT
CGGTGAAGAGAGGTTTTGAATTCACGCTTATGGTAGTGGGTGAATCTGGATTGGGAAAGTCGACATTAAT
CAACTCATTATTCCTCACAGATTTGTATTCTCCAGAGTATCCAGGTCCTTCTCATAGAATTAAAAAGACT
GTACAGGTGGAACAATCCAAAGTTTTAATCAAAGAAGGTGGTGTTCAGTTGCTGCTCACAATAGTTGATA
CCCCAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAA
ATTTGAGGACTACCTAAATGCAGAATCACGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGT
TGTTTATACTTCATTGCTCCTTCAGGACATGGACTTAAACCATTGGATATTGAGTTTATGAAGCGTTTGC
ATGAAAAAGTGAATATCATCCCACTTATTGCCAAAGCAGACACACTCACACCAGAGGAATGCCAACAGTT
TAAAAAACAGATAATGAAAGAAATCCAAGAACATAAAATTAAAATATACGAATTTCCAGAAACAGATGAT
GAAGAAGAAAATAAACTTGTTAAAAAGATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTA
TCATTGAAGTTAATGGCAAAAGGGTCAGAGGAAGGCAGTATCCTTGGGGTGTTGCTGAAGTTGAAAATGG
TGAACATTGTGATTTTACAATCCTAAGAAATATGTTGATAAGAACACACATGCAGGACTTGAAAGATGTT
ACTAATAATGTCCACTATGAGAACTACAGAAGCAGAAAACTTGCAGCTGTGACTTATAATGGAGTTGATA
ACAACAAGAATAAAGGGCAGCTGACTAAGAGCCCTCTGGCACAAATGGAAGAAGAAAGAAGGGAGCATGT
AGCTAAAATGAAGAAGATGGAGATGGAGATGGAGCAGGTGTTTGAGATGAAGGTCAAAGAAAAAGTTCAA
AAACTGAAGGACTCTGAAGCTGAGCTCCAGCGGCGCCATGAGCAAATGAAAAAGAATTTGGAAGCACAGC
ACAAAGAATTGGAGGAAAAACGTCGTCAGTTCGAGGATGAGAAAGCAAACTGGGAAGCTCAACAACGTAT
TTTAGAACAACAGAACTCTTCAAGAACCTTGGAAAAGAACAAGAAGAAAGGGAAGATCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

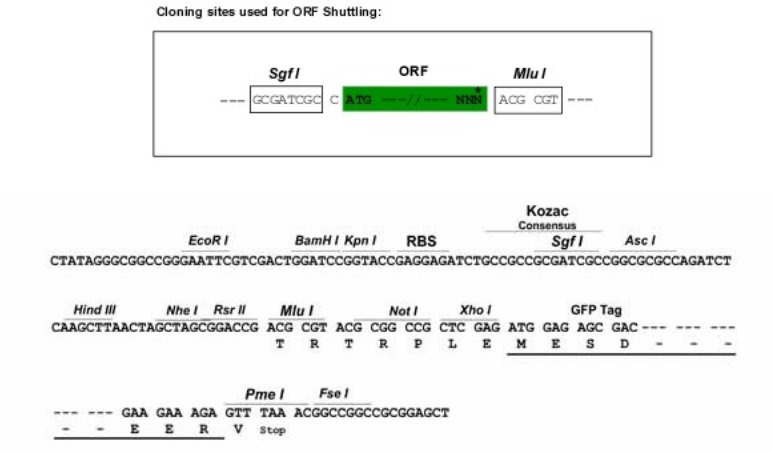
>RG205163 representing NM_001788
Red=Cloning site Green=Tags(s)

MAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSLFLTDLYSPEYPGPSHRIKKT
VQVEQSKVLIKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDYLNAESRVNRRQMPDNRVQC
CLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDD
EEENKLVKKIKDRLPLAVVGSNTIIEVNGKRVRGRQYPWGVAEVENGEHCDFTILRNMLIRTHMQDLKDV
TNNVHYENYRSRKLAAVTYNGVDNNKNKGQLTKSPLAQMEEERREHVAKMKKMEMEMEQVFEMKVKEKVQ
KLKDSEAELQRRHEQMKKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQQNSSRTLEKNKKKGKIF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001788

ORF Size: 1251 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).

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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_001788.4, NP_001779.3

RefSeq Size: 2534 bp

RefSeq ORF: 1314 bp

Locus ID: 989

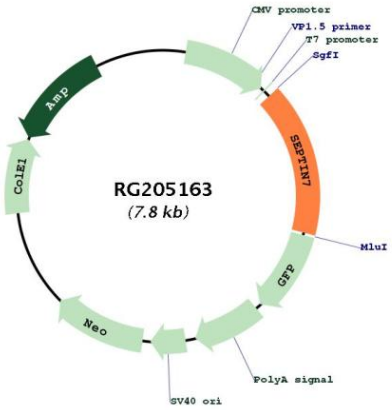
UniProt ID: Q16181

Cytogenetics: 7p14.2

Domains: GTP_CDC

Gene Summary: This gene encodes a protein that is highly similar to the CDC10 protein of Saccharomyces cerevisiae. The protein also shares similarity with Diff 6 of Drosophila and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RG205163

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