

Product datasheet for **RC205163L4V**

SEPT7 (SEPTIN7) (NM_001788) Human Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | SEPT7 (SEPTIN7) (NM_001788) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | SEPTIN7 |
| Synonyms: | CDC3; CDC10; NBLA02942; SEPT7; SEPT7A |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001788 |
| ORF Size: | 1254 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC205163). |
| 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. |
| RefSeq: | NM_001788.4 , NP_001779.2 |
| RefSeq Size: | 4380 bp |
| RefSeq ORF: | 1314 bp |
| Locus ID: | 989 |
| UniProt ID: | Q16181 |
| Cytogenetics: | 7p14.2 |
| Domains: | GTP_CDC |
| MW: | 48.7 kDa |


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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]