

Product datasheet for **SC119017**

SEPTIN7 (NM_001788) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SEPTIN7 (NM_001788) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SEPTIN7 |
| Synonyms: | CDC3; CDC10; NBLA02942; SEPT7; SEPT7A |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001788, the custom clone sequence may differ by one or more nucleotides |

```
ATGTCGGTCAGTGCAGATCCGCTGCTGCTGAGGAGAGGAGCGTCAACAGCAGCACCATGGTAGCTCAAC
AGAAGAACCTTGAAGGCTATGTGGGATTTGCCAATCTCCCAAATCAAGTATACAGAAAATCGGTGAAGAG
AGGTTTTGAATTCAGCCTTATGGTAGTGGGTGAATCTGGATTGGGAAAGTCGACATTAATCAACTCATT
TTCCTCACAGATTTGATTCTCCAGAGTATCCAGGTCCTTCTCATAGAATAAAAAGACTGTACAGGTGG
AACAAATCCAAAGTTTTAATCAAAGAAGGTGGTGTTCAGTTGCTGCTCACAATAGTTGATACCCAGGATT
TGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGACTACATTGATAGTAAATTTGAGGAC
TACCTAAATGCAGAAATCACGAGTGAACAGACGTCAGATGCCTGATAACAGGGTGCAGTGTGTTTATACT
TCATTGCTCCTTCAGGACATGGACTTAAACCATTGGATATTGAGTTTATGAAGCGTTTGCATGAAAAAGT
GAATATCATCCCCTTATTGCCAAAGCAGACACACTCACACCAGAGGAATGCCAACAGTTTAAAAACAG
ATAATGAAAGAAATCCAAGAACATAAAATATAACGAATTTCCAGAAAACAGATGATGAAGAAGAAA
ATAAACTTGTTAAAAAGATAAAGGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATACTATCATTGAAGT
TAATGGCAAAAGGGTCAAGAGGAGGCAGTATCCTTGGGGTGTGCTGAAGTTGAAAATGGTGAACATTGT
GATTTTACAATCCTAAGAAATATGTTGATAAGAACACACATGCAGGACTTGAAAGATGTTACTAATAATG
TCCACTATGAGAACTACAGAAGCAGAAAACCTTGCAGCTGTGACTTATAATGGAGTTGATAACAACAAGAA
TAAAGGGCAGCTGACTAAGAGCCCTCTGGCACAATGGAAGAAGAAAGGGAGCATGTAGCTAAAATG
AAGAAGATGGAGATGGAGATGGAGCAGGTGTTGAGATGAAGGTCAAAGAAAAAGTTCAAAAACCTGAAGG
ACTCTGAAGCTGAGCTCCAGCGGCCATGAGCAAATGAAAAAGAATTTGGAAGCACAGCACAAAAGAAAT
GGAGGAAAAACGTCGTCAGTTCCAGGATGAGAAAGCAAACCTGGGAAGCTCAACAACGTATTTTAGAACAA
CAGAACTCTCAAGAACCTTGGAAAAGAACAAGAAGAAAGGAAGATCTTTTAA
```



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001788 unedited
 TTCAAATTTTGTAAACGACTCACTATAGGGCGGCCCGGATTCCGGCACGAGGTGCTGAG
 GAGAGGAGCGTCAACAGCAGCACCATGGCTCAACAGAAGAACCTTGAAGGCTATGTGGGA
 TTTGCCAATCTCCAAATCAAGTATACAGAAAATCGGTGAAGAGAGGTTTTGAATTCACG
 CTTATGGTAGTGGGTGAATCTGGATTGGGAAAGTCGACATTAATCAACTCATTATTCCTC
 ACAGATTTGTATTCTCCAGAGTATCCAGGTCCTTCTCATAGAATAAAAAGACTGTACAG
 GTGGAACAATCCAAAGTTTTAATCAAAGAAGGTGGTGTTCAGTTGCTGCTCACAATAGTT
 GATACCCAGGATTTGGAGATGCAGTGGATAATAGTAATTGCTGGCAGCCTGTTATCGAC
 TACATTGATAGTAAATTTGAGGACTACCTAAATGCAGAATCACGAGTGAACAGACGTCAG
 ATGCTGATAACAGGGTGCAGTGTGTTTATACTTCATTGCTCCTTCAGGACATGGACTT
 AAACCATTGGATATTGAGTTTATGAAGCGTTTGCATGAAAAAGTGAATATCATCCCACTT
 ATTGCCAAAGCAGACACACTCACACCAGAGGAATGCCAACAGTTTANAAAAACAGATAATG
 AAAGAAATCCAAGAACATAAAATAAAAATACGAATTTCCAGAAACAGATGATGAAGAA
 GAANATANACTTGNANAAGATAAAGACCGTTTACCTCTTGCTGTGGTAGGTAGTAATAC
 TATCATTNAGNTAATGGCANNAGGGTCAGAGAANGGCAGTATCCTTGGNGTGTTCCTG
 AAGTTGAAAATGCTGAACATTTGTGATTTTACCATCCTAAGAAAATATGNNTGATAGAACC
 ACATGCANGACTTGNAAGATGNTACTATA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001788 unedited
 GATGGCACTTCCAGGCCAGGAAGCACTGGGGAGGGTACAGGAGCCCCGGGATCTGTCAG
 AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGNNTNTTTTTTTTTTTTTTTTTTTTT
 ACATCACAAACATCGTTTATTATGTGAATTTTTTACAATACAAACAAAAATACAGAAATG
 CAATATATGAATACAGCTAAATGCAGAATGGTGACTTTTTTCTCTTCAAGAGGCCATGAT
 TCCCATTTCTAGTAAAATAAAGAGACTGCATATAGGTAGAAACAGTTGGTCATTACCTT
 CACAATTTTGCCTAAAAATGATCTATAAATGCATTTCCCCCCTGCTACTTACCATAAAG
 TGTA AAAAGGGAGTTAAAGGAAAGTTTCCTTGTGGTTCCTACCATATGAAAGATGCTAT
 ATTCTATTTTAGCAGTGCCAATATATGAAAAATCTAAATTAATGTTATTACAAAAAT
 GAAGCAGTAATGAGATTCTGGCTAAAGAGGGCACTAAATGAGAATAATATATATTTAAAG
 AATCAAAACAAACAAACAAAAAGACGTTGTTATAAAAAAGCTCTAGGTGCACAGTAAGCA
 TATAGGGTTTTTTTTTTCATGTGTATTTTAAAACAATGGAAAGGTCAAAAAAGGGTAA
 CCTGTGTTAAACTAAATACATTATTGGATTTGCTGCACTGAAGGGAACCTGTTTTGTAA
 TATTATAAAAAAGCACCGTTTGCATATTATTATGGCAATTTATCCTAATGAAAATTTTCA
 AAATTCCTTTTTTTTGGAAATATCTGAAAACATTCAACCCCGAAACTGATTGTACACCGG
 AAATGTTCTTTTGCTTAAATGGAAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_001788

Insert Size:

2260 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001788.3](#), [NP_001779.2](#)

RefSeq Size: 4380 bp

RefSeq ORF: 4380 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.