

Product datasheet for **SC334035**

CSN7b (COPS7B) (NM_001282952) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSN7b (COPS7B) (NM_001282952) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSN7b
Synonyms:	CSN7B; SGN7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334035 representing NM_001282952. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAAGTGATCCCTACTCCGTGTGCTGAAAGACCTGGAGATGCGGAATCTCCGGAACTAGAAGAC
 CTTATCATTGAGGCTGTCTACACTGACATCATCCAGGGCAAGCTGGACCAGCGAAACCAGCTGCTGGAA
 GTGGATTTCTGCATTGGCCGTGACATCCGAAAGAAGGATATCAATAATTGTCAAGACCTGCATGAA
 TGGTGTGATGGCTGTGAAGCAGTTCTACTGGGCATCGAGCAGCAAGTTCTGAGAGCCAACCACTACAAA
 GAGAACCACAACCGAACTCAGCAGCAGGTAGAAGCAGAGGTTACCAACATCAAGAAGACACTCAAAGCC
 ACCGCATCCTCCTCGGCTCAGGAGATGGAGCAGCAGCTGGCTGAACGGGAGTGTCCCCTCACGCTGAG
 CAGAGGCAGCCCACCAAGAAGATGTCCAAAGTGAAAGGTCTGGTCTCCAGCCGCCAC**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001282952
Insert Size:	474 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).


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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_001282952.2](#)

RefSeq Size: 2506 bp

RefSeq ORF: 474 bp

Locus ID: 64708

UniProt ID: [Q9H9Q2](#)

Cytogenetics: 2q37.1

MW: 18.2 kDa

Gene Summary: Component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, JUN, I-kappa-B-alpha/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (5) lacks a portion of the 5' coding region, initiates translation at a downstream in-frame start codon, and lacks an exon that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (e) has a distinct C-terminus and is shorter at the N-terminus, compared to isoform a. 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.