

Product datasheet for **SC112470**

CSN7b (COPS7B) (NM_022730) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSN7b (COPS7B) (NM_022730) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSN7b
Synonyms:	CSN7B; SGN7b
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112470 sequence for NM_022730 edited (data generated by NextGen Sequencing) <pre> ATGGCAGGGGAACAGAAACCCTCAAGTAATCTCCTGGAGCAGTTTATTTTACTAGCCAAA GGTACCAAGTGGCTCAGCCCTCACTGCTCTCATAAGCCAGGTCTTAGAGGCTCCCGGAGTG TATGTCTTTGGAGAACTTCTGGAGCTGGCCAACGTGCAGGAGCTTGCAGGAGGAGCTAAT GCTGCTTATTTGCAGTTGTTGAACCTGTTTGCCTATGGGACATACCCAGATTACATAGCC AACAAGGAGAGCCTGCCAGAAGTGAAGTGTATCCCTACTCCGTGTTGCTGAAAGACCTG ATCGTGAGCTTGGCATCAAGAATGAAGTGTATCCCTACTCCGTGTTGCTGAAAGACCTG GAGATGCGGAATCTCCGGAAGTGAAGACCTTATCATTGAGGCTGTCTACACTGACATC ATCCAGGGCAAGCTGGACCAGCGAAACCAGCTGCTGGAAGTGGATTCTGCATTGGCCGT GACATCCGAAAGAAGGATATCAATAATATTGTCAAGACCTGCATGAATGGTGTGATGGC TGTGAAGCAGTTCTACTGGGCATCGAGCAGCAAGTTCTGAGAGCCAACCAAGTACAAAGAG AACCACAACCGAAGTCAAGCAGCAGGTAGAAGCAGAGGTTACCAACATCAAGAAGACACTC AAAGCCACCGCATCCTCCTCGGCTCAGGAGATGGAGCAGCAGCTGGCTGAACGGGAGTGT CCCCCTCAGCTGAGCAGAGGCAGCCACCAAGAAGATGTCCAAAGTGAAAGGTCTGGTC TCCAGCCGCCACTAG </pre>

Clone variation with respect to NM_022730.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022730 unedited
 GGTACATTTGTATACGACTCACTATAGGCGGCCGCAATTTCGCACGAGGGGACGCTTGA
 CAACCTGCGGGCAGGCGCCGGGAGGCCGAGCCAGCGACTAAGAGGACCGAGAGGTGGCGT
 GGACAGATTTCAAGGCCAGAGAAATGGCAGGGGAACAGAAACCCTCAAGTAATCTCCTGGA
 GCAGTTTATTTTACTAGCCAAAGGTACCACTGGCTCAGCCCTCACTGCTCTCATAAGCCA
 GGTCTTAGAGGCTCCCGAGTGTATGCTTTGGAGAACTTCTGGAGCTGGCCAACGTGCA
 GGAGCTTGCGGAAGGAGCTAATGCTGCTTATTTGCAGTTGTTGAACCTGTTTGCCTATGG
 GACATACCCAGATTACATAGCCAACAAGGAGAGCCTGCCAGAACTGAGCACAGCTCAGCA
 GAACAAGCTGAAGCATCTTACCATCGTGAGCTTGGCATCAAGAATGAAGTGTATCCCTCA
 CTCCGTGTTGCTGAAAGACCTGGAGATGCGGAATCTCCGGGAAGTAGAAGACCTTATCAT
 TGAGGCTGTCTACACTGACATCATCCAGGGCAAGCTGGACCAGCGAAACCAGCTGCTGGA
 AGTGGATTCTGCATTGGCCGTGACATCCGAAAGAAAGATATCAATAATATTGTCAAGAC
 CCTGCATGAATGGTGTGATGGCTGTGAAGCAGTTCTACTGGGCATCGAGCAGCAAGTTCT
 GAGAGCCAACCAAGTACAAAGAGAACCAACCGAACTCAGCAGCAGGTAGAAGCAGAGGT
 TACCAACATCAAGAAGACACTTCAAGCCACCGCATCTNCTCGGCTNCAGAGATGGAGCA
 GCAGCTGGCTGAACGGGAGTGTCCCTCCGCTGAGCAGAGCAGCCACCAAGAGAGTNCA
 AGTGAAAGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022730 unedited
 GACTGTTGGAATGTATTAGNAATCANAACCTGTACAAAAAAAAAATTAATATAACCT
 GAAACTGTTCAAGTTCAGAAGTCTAGTTAAGTCTTTTCTCTTGCCAGGAGAATGCCATC
 ATCAGAGGGCTCTGGGTATCAGCCAAGGAGGGGTGAAAAGACAGAAGCAGCAACAGGTC
 CTTGAGCAGACAGAGGGGCATCGATGCCACCATCCCTACCCAGGTGCAGCCAGGAGGAGT
 TAAAGATCTTGGGAGAGCAAGCATTAGCCGGCAGTTCCAGTGGGCAGCTGGGGCCTACAC
 ACCGAAAACAAGGCTGAGTAGTCAGAGGCAGCAGGAAGAGTGGCCAGGAGAGAAGCCAA
 GCCGGAAGGAACCATTTCTGCCACCCAGCAGACCCACAGCACCCCTCTGTCTGTGCTCAGA
 TACCAGAGGTTAGTCAACCCAGCGCTCTCAACTAATTGGAGATCGGAGCTGGGCTTAAGA
 GGCTGAAAACCCATGGGTTTAGTAAACACAGCCCAGCATCACGTCCCTCCACGGCCTGAA
 CTGGAGCTGCCAACAAGGATGAGGCAGGAGAGGGAAAGCAGCGCATCTTGACGCCTGGC
 TAGAAATCACTGCACCATCGTGAGGACTGTGGTACCAGGGGCTGGAGAGGAGTGCCCCCT
 CCTCCAAGGGGAGGGGCTNCTTACATCATCCCTGGGGGCTGGTAAAGCTGCCTCCGCT
 TATAACAGCCTGACAAATGACGTGGAGCAAAAGAAACTGGGAGGAGAAACAGCCCTTCA
 CAAGACAAGAACCTNNCTGAGGGAAGTGGGCATGTCTGACCTGTTTGGGATGCATNGNT
 GGACCCCTGATCTGAGGACACTGGGAGGAGATGGTGGNNGGGGGGANCANCTTTTGG
 GAAACACCCACAGGGGGAGGGCCTTGGAGGGCACCCCTTTTAACCTTCGGTAAAAGG
 GGGGAAAAGCCCTCGTGCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_022730

Insert Size:

2210 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:	<u>NM_022730.1, NP_073567.1</u>
RefSeq Size:	1977 bp
RefSeq ORF:	795 bp
Locus ID:	64708
UniProt ID:	<u>Q9H9Q2</u>
Cytogenetics:	2q37.1
Domains:	PCI
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 (2) lacks an exon that results in a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct C-terminus and is shorter than 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.