

Product datasheet for **RC236141**

CSN7b (COPS7B) (NM_001282952) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CSN7b (COPS7B) (NM_001282952) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CSN7b
Synonyms: CSN7B; SGN7b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC236141 representing NM_001282952
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAGTGTATCCCTACTCCGTGTTGCTGAAAGACCTGGAGATGCGGAATCTCCGGAACTAGAAGACC
TTATCATTGAGGCTGTCTACACTGACATCATCCAGGGCAAGCTGGACCAGCGAAACCAGCTGCTGGAAGT
GGATTTCTGCATTGGCCGTGACATCCGAAAGAAGGATATCAATAATTGTCAAGACCCTGCATGAATGG
TGTGATGGCTGTGAAGCAGTTCTACTGGGCATCGAGCAGCAAGTTCTGAGAGCCAACCAGTACAAAGAGA
ACCACAACCGAACTCAGCAGCAGGTAGAAGCAGAGGTTACCAACATCAAGAAGACACTCAAAGCCACCGC
ATCCTCCTCGGCTCAGGAGATGGAGCAGCAGCTGGCTGAACGGGAGTGTCCCCCTCACGCTGAGCAGAGG
CAGCCCACCAAGAAGATGTCAAAGTGAAAGGTCTGGTCTCCAGCCGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236141 representing NM_001282952
Red=Cloning site Green=Tags(s)

MKCIPYSVLLKDLEMRNLRELEDLIIIEAVYTDIIQGKLDQRNQLLEVDFCIGRDIRKKDINNIVKTLHEW
 CDGCEAVLLGIEQQVLRANQYKENHNRTQQQVEAEVTNIKKTLKATASSAQEMEQLAERECPPHAEQR
 QPTKKMSKVKGLVSSRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001282952

ORF Size: 471 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).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001282952.2](#), [NP_001269881.1](#)

RefSeq Size: 2506 bp

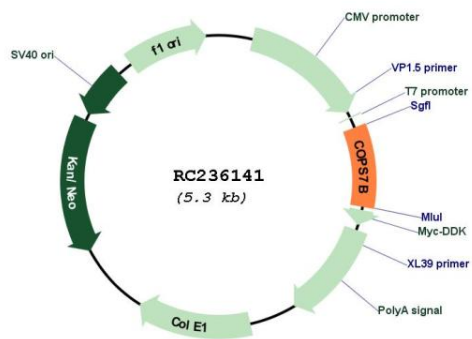
RefSeq ORF: 474 bp

Locus ID: 64708

UniProt ID: Q9H9Q2
 Cytogenetics: 2q37.1
 MW: 18.6 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]

Product images:



Circular map for RC236141