

Product datasheet for **RC220892**

Consortin (CNST) (NM_152609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Consortin (CNST) (NM_152609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Consortin
Synonyms:	C1orf71; PPP1R64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC220892 representing NM_152609
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGACAGCGATACTCTACATATTATCTGCAAAAGAACCAAGATGGATGTCATCTGGTGACA
CGGTGAAAGGAGTGTGACCTGTCTGCCTTCTGCATCAGATGAAAATGAAAATCAGCTTGACGGGACGG
GCATGAGCATCTGACCAGCAGTGACAGTGGGAAAGCCCAAGTGTCTGAGCAGGACAGTCTCAAT
AATAATGAAAGCTGCACATTGAGCTGCGAGGTGGCTGCAGGTGAGAACTCGAAAAACCCCTTTGTGAAG
CCTCCAGAGATGAACAGGCCTTCTGGGAAAGGACAAAAAATTCCTGGAAAAAGAGTCCAAGAAGCAA
AAAAGGGACTGCTAAGAAGATACCACCAGGACTTTTTTCAGGAGATATTGCACCTTAAATGCAAGAAAA
GTACTAAGCGCAGTCACATATGCTGTTGATGATGAAGAAGCTGCTGAAGTAAATGCTAATGAGCAGCCAG
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ATAGCAGCTGTGGAGAAGTCCCAGGAAAGGAAATGCTCCACGCAGTACTAGTGTCTGAAGATCCAAAGG
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CTTTCGGTAACTGCAGGAAAGGACCACATGGAGGAGCTGCTCTGCAGCGCTGAAGCCACGTTAGCGCTCC
ACACCCAGTCTCCGAGACAGCAGGGAGCCCTGCTGGCCAGACTCTTCTGAGGATGCTTGTGAGGATGA
CAGTCGCTTGCAGCTGGCTCAAACAGAGCCCTGCCAGGATGTGGCCAGAATAGAGGGCATTGCTGAAGAC
CCTAAGGTGTTTTCTTCCAGCAAGTCAAAGACAGAGCCGTTGATTTACCAGGCTGTGACCGTATACCTC
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CGACCAACTCAACAAAGAAACAGAAGACTATTTGAACAGCCTTTTGAAGGATGTTTAAAGATACTGAA
GATTCCCTTTCTATGAAGATAACCAAGACGACTCCGATCTCCTTCAAGATCTCTCTCTGAAGAAG
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GATAGAGATTGCAGAGGTTGTTCTACTGAAGGATTGGTCTCCATATTAAGAAGAGGAATGATACTGTA
GGAGATCATCCTGCCAAATGCAACACAAACCATCAAGCGAAGAGTGAAGTCCAAAGAAATAGACGATA
GCTTGGATCAAGATGAAGTTGGAGGTGGCTCCTGTATTTTGTGGTCTTGTGTCATAGCAACGGTTTT
CCTCAGTGTGGAGGAAGTGCATTATACTGCACCTTTCGGTGCATGGAGTCACTGTTTGTACTGACTTT
GCAGACAACATGGACTTCTATTACACTAAGTACTTCAGGGAGTGGCAGAACTGAAGCACTGGATCTACC
TCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220892 representing NM_152609
Red=Cloning site Green=Tags(s)

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MDDSDTPTYLLQIEPQDGCHPGDSVRSVTCLPSASDENENQLDGDGHEHLTSSDSAMGKPVSEQDSLN
NNESTLSCEVAAGENSQNTLCEASRDEQAF LGKDKKIPGKRSPRSKKGTAKKIPPGLFSGDIAPLMQEK
VLSAVTYAVDDEEAEEVNAEQPEAPKLVLSLIRGEVEQLDSRALPLCLHQIAESYFQEEDYEKAM
KFIQLERLYHEQLLANLSAIQEQQWETKWKTVQPHVTALRNSEKGFNGEDFERLTKICATHQDPLLKHK
IAAVEKSQERKSTQLLVSEDPKEGGATKESESKTCLGTESSEKESQHTVEPLGSSPCCHQMDVQTDSPS
LSVTAGKDHMEELLCSAEATLALHTQSSETAGSPSPGDSSEDACEDDSRLQLAQTEACQDVARIEGIAED
PKVFLSSKSKTEPLISPGCDRIPPALISEGKYSQAQRKELRLPLRDASEALPTDQLENNELNELQQPDLT
DSDGKSPQAQADSDGSENVLCGNNQISDLGILLPEVCMAPEEKGDKDDQLNKETEDYLNLLLEGCLKDTE
DSLSEYEDNQDDSDLLQDLSPPEASYSLQENLPSDESCLSLDDLAKRIEIAEVPVTEGLVSILKRNNDTV
GDHPAQMQHKPSKRRVRFQEIDDSLQDEVGGSCILLVLLCIATVFLSVGGTALYCTFGDMESPVCTDF
ADNMDFYTKLLQGVAELKHWIYLS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152609

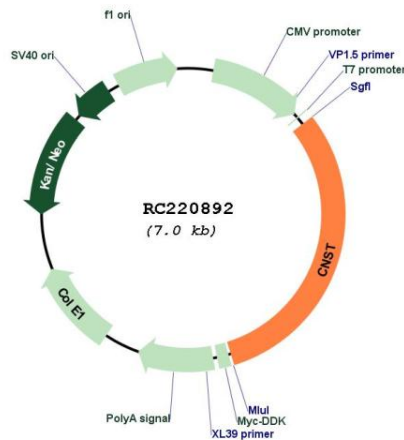
ORF Size: 2175 bp

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:	<ol style="list-style-type: none"> 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_152609.1, NP_689822.1</u>
RefSeq Size:	3608 bp
RefSeq ORF:	2178 bp
Locus ID:	163882
UniProt ID:	<u>Q6PJW8</u>
Cytogenetics:	1q44
Protein Families:	Transmembrane
MW:	79.4 kDa
Gene Summary:	Targeting of numerous transmembrane proteins to the cell surface is thought to depend on their recognition by cargo receptors that interact with the adaptor machinery for anterograde traffic at the distal end of the Golgi complex. Consortin (CNST) is an integral membrane protein that acts as a binding partner of connexins, the building blocks of gap junctions, and acts as a trans-Golgi network (TGN) receptor involved in connexin targeting to the plasma membrane and recycling from the cell surface (del Castillo et al., 2010 [PubMed 19864490]). [supplied by OMIM, Jun 2010]

Product images:



Circular map for RC220892