

Product datasheet for **RC233325**

CCN4 (NM_001204869) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CCN4 (NM_001204869) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CCN4
Synonyms: WISP1; WISP1-OT1; WISP1-UT1; WISP1c; WISP1i; WISP1tc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233325 representing NM_001204869
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAGGTGGTTCTCGCCCTGGACGCTGGCAGCAGTGACAGCAGCAGCCGCCAGCACCGTCCTGGCCACGG
CCCTCTCTCCAGCCCCTACGACCATGGACTTTACCCAGCTCCACTGGAGGACACCTCCTCAGCCCCCA
ATTCTGCAAGTGCCATGTGAGTGCCCGCCATCCCCACCCGCTGCCGCTGGGGGTGAGCCTCATCACA
GATGGCTGTGAGTGCTGAAGATGTGCGCTCAGCAGCTTGGGGACAACGACGAGGCTGCCATCTGTG
ACCCCCACGGGGCCTCTACTGTGACTACAGCGGGGACCGCCGAGGTACGCAATAGGAGTGTGTCACG
CAGGGAAGAAGTGTCTGGCTGTGTACCAGCCAGAGGCATCCATGAACTTCACACTTGCGGCTGCATCAG
CACACGCTCCTATCAACCAAGTACTGTGGAGTTTGCATGGACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233325 representing NM_001204869
Red=Cloning site Green=Tags(s)

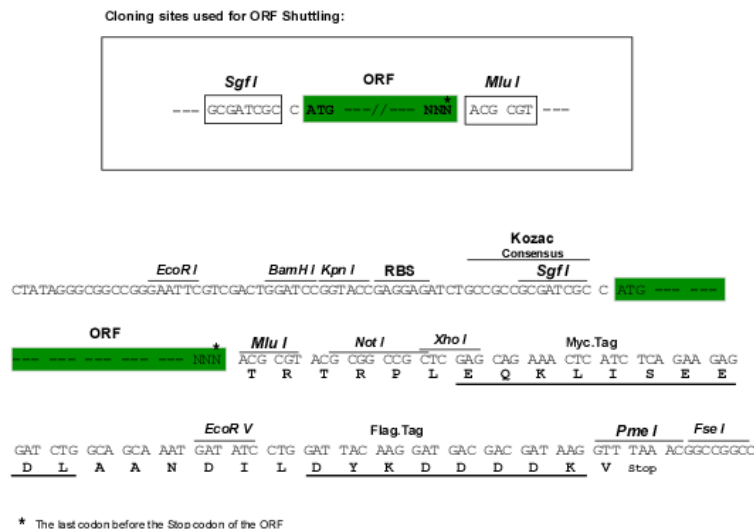
MRWFLPWTLAAVTAASSTVLATALSPAPTTMDFTPAPLEDTSRRPQFCKWPCECPPSPPRCPLGVSLIT
 DGCECKMCAQQLGDNCTEAAICDPHRLGYCDYSGDRPRYAIGVCARREEVSGCVPARGIHELHTCGLHQ
 HTLLSTQVLWSLHGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001204869

ORF Size: 465 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_001204869.2](#)

RefSeq Size: 4739 bp

RefSeq ORF: 468 bp

Locus ID: 8840

UniProt ID: [O95388](#)

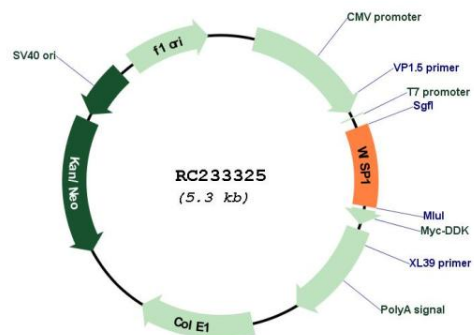
Cytogenetics: 8q24.22

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - Wnt Signaling pathway

MW: 17.3 kDa

Gene Summary: This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. It is expressed at a high level in fibroblast cells, and overexpressed in colon tumors. The encoded protein binds to decorin and biglycan, two members of a family of small leucine-rich proteoglycans present in the extracellular matrix of connective tissue, and possibly prevents the inhibitory activity of decorin and biglycan in tumor cell proliferation. It also attenuates p53-mediated apoptosis in response to DNA damage through activation of the Akt kinase. It is 83% identical to the mouse protein at the amino acid level. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC233325