

Product datasheet for **SC109994**

CCN4 (NM_080838) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCN4 (NM_080838) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCN4
Synonyms:	WISP1; WISP1-OT1; WISP1-UT1; WISP1c; WISP1j; WISP1tc
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109994 sequence for NM_080838 edited (data generated by NextGen Sequencing) ATGAGGTGGTTCCCTGCCCTGGACGCTGGCAGCAGTGACAGCAGCAGCCGCCAGCACCGTCTGGCCACGGCCCTCTCTCCAGCCCTACGACCATGGACTTTACCCAGCTCCACTGGAGGACACCTCCTCACGCCCAATTCTGCAAGTGGCCATGTGAGTGCCCGCCATCCCCACCCGCTGCCCGCTGGGGTCACTCATCACAGATGGCTGTGAGTGCTGTAAGATGTGCGCTCAGCAGCTGGGGACAACGACGGAGGCTGCCATCTGTGACCCACCGGGGCTCTACTGTGACTACAGCGGGACCGCCGAGGTACGCAATAGGAGTGTGTGCACATGCTGTGGGTGAGGTGGAGGCATGGCACAGGAAGTGCATAGCCTACACAAGCCCTGGAGCCCTTGCTCCACCAGTGCGGCCTGGGGTCTCCACTCGGATCTCCAATGTTAACGCCAGTGCTGGCCTGAGCAAGAGAGCCGCTCTGCAACTTGGCGCCATGCGATGTGGACATCCATACACTCATT AAGGCAGGAAGAAGTGTCTGGCTGTGTACCAGCCAGAGGCATCCATGAACCTCACACTT GCGGGTGCATCAGCACGCTCTATCAACCAAGTACTGTGGAGTTTGCATGGACAACAGGTGCTGCATCCCCTACAAGTCTAAGACTATCGACGTGTCTTCCAGTGTCTGATGGGCTTGCTCTCCCGCCAGGTCCTATGGATTAATGCCTGCTTGTAACTGAGCTGTAGG AATCCCAATGACATCTTTGCTGACTTGGAACTCCTACCCTGACTTCTCAGAAATTGCCAAC TAG
	Clone variation with respect to NM_080838.2 660 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080838 unedited
 ATTTTGTAAACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGCCGCCAGTCT
 GGGCCCAGCTCCCCGAGAGTGGTCCGATCCTCTGGGCTGCTCGGTGATGCCTGTGCCA
 CTGACGTCAGGCATGAGGTGGTTCCTGCCCTGGACGCTGGCAGCAGTGACAGCAGCAGC
 CGCCAGCACCGTCTGGCCACGGCCCTCTCCAGCCCTACGACCATGGACTTTACCCC
 AGCTCCACTGGAGGACACCTCCTCACGCCCCCAATTCTGCAAGTGGCCATGTGAGTGCC
 GCCATCCCACCCCGCTGCCCGCTGGGGGTCAGCCTCATCACAGATGGCTGTGAGTGCTG
 TAAGATGTGCGCTCAGCAGCTTGGGGACAACGACGGAGGCTGCCATCTGTGACCCCA
 CCGGGGCTCTACTGTGACTACAGCGGGGACCGCCGAGGTACGCAATAGGAGTGTGTGC
 ACATGCTGTGGGTGAGGTGGAGGCATGGCACAGGAACTGCATAGCCTACACAAGCCCTG
 GAGCCCTTGCTCCACCAGCTGCGGCTGGGGGTCTCCACTCGGATCTCCAATGTTAACGC
 CCAGTGTGGCTGAGCAAGAGAGCCGCTCTGCAACTTGGGCCATGCGATGTGGACAT
 CCATACACTCATTAAAGCAGGGAAGAAGTGTCTGGCTGTGTACCAGCCAGAGGCATCCAT
 GAAACTCACACTTGGGGCTGCATCAGCACACGCTCTATCAACCAGTACTGTGGAGTT
 TGCATGGACCACAAGTGTGCATCCCCTACAAGTCTAAGACTATCGACGTCTCTTCCAA
 TGGTCTGATGGGCGTGGCTTCTCCCGCAAGCCTATGGATTATGACTGCTTCTGTACCTG
 AGCTGTAGGAATCCAAGACATCTTGCTGACTTGAATCTACCTGACTCTCCGAAATGCAA
 CTAAGCAGCCAACTTGGTCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_080838 unedited
 ATGGCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACATTAATAAATA
 AGCCATTTATTGCAATGTTTTCTATTCTGACACATTTGGAAGCTCTAAAAACAGGGGGA
 AAATATGGGTTATAAAGACAGTCCAATTTTCGATCTGAATCCTAACTTTCCAGTACCAA
 CTGGGTGACTCTGGTTGAGTTTTCTCACCTCTATGAGCTTCCGTTTACATTTGTAAGAA
 CAGAAATAATAATGGGAATCTCAACATTGTCGTGAAGATTCAGTGAGCTAATACATGC
 AAAGCACTGAGAGCAATGTCTGGCACAGAAAAGCCCTAAATAAAGAATTCTAACAGTA
 AATATTATATTTTCTAATAACAATAAATAGCCTGATTCATTAAACAACAACCTTTT
 CCTTTTAGCTTCAACCTTTCAGCTTTAAACCTTTATTAAGTCTATTTCTGTTTCTAAAC
 AACCGGTAACCTCCATCTTCTACCAGAAAAGTGGCCATTTGGTCAGCAGAACGAAAGG
 CTGTGAAATGAGTCTCTGCAATAGATGTGCTGAAACACGGGGGCCCTGGAGTCCCACA
 GCCTCCAGCTCTAGAGGTACCCAGGCTGTCTACCAAGGGCACCCTTTGGTTTGAC
 CCACACCCTACCTGAACCTGTCTTGGTCAATTTAGTAGGCTGTCATGGTCTGCAGCTG
 GGTCTCTCAAGGCTCTGTAAGAGTAGAGGAGTGTCCAGGGCACCACTCTCAGGGGCCAG
 ACAGGCCAGTCCCAGAGCCTTACCAATTCCTATGACCCCAAGCAGACAAGGGAGGAGAT
 TCAAGAAAGAGCCTGGGCAACTTGCCAAAGCCCTGCCAGTCAACAGCTGATTCAGTGTGA
 GAGCCAATGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_080838

Insert Size:

2660 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:	<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:	NM_080838.1 , NP_543028.1
RefSeq Size:	1035 bp
RefSeq ORF:	843 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, as compared to variant 1. Isoform 2 encoded by this variant thus lacks a von Willbrand type C module that is thought to participate in protein complex formation. This variant is overexpressed in scirrhous carcinomas. 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.</p>