

## Product datasheet for **RG214390**

### CCN4 (NM\_080838) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCN4 (NM_080838) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCN4
Synonyms:	WISP1; WISP1-OT1; WISP1-UT1; WISP1c; WISP1j; WISP1tc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214390 representing NM_080838 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGTGGTTCCCTGCCCTGGACGCTGGCAGCAGTGACAGCAGCAGCCGCCAGCACCGTCTGGCCACGG  
CCCTCTCTCCAGCCCCTACGACCATGGACTTTACCCAGCTCCACTGGAGGACACCTCCTCACGCCCCCA  
ATTCTGCAAGTGGCCATGTGAGTGCCCGCCATCCCACCCGCTGCCCGTGGGGTGCAGCCTCATCACA  
GATGGCTGTGAGTGTGTAAGATGTGCGCTCAGCAGCTTGGGACAACGCACGGAGGCTGCCATCTGTG  
ACCCACCGGGCCTCTACTGTGACTACAGCGGGACC GCCCGAGGTACGCAATAGGAGTGTGTGCACA  
TGCTGTGGGTGAGGTGGAGGCATGGCACAGGAAGTGCATAGCCTACACAAGCCCTGGAGCCCTTGCTCC  
ACCAGCTGCGGCCTGGGGTCTCCACTCGGATCTCCAATGTTAACGCCAGTGTGGCCTGAGCAAGAGA  
GCCGCCTTGCAACTTGGGCCATGCGATGTGGACATCCATACACTCATTAAAGGCAGGGAAGAAGTGTCT  
GGCTGTGTACCAGCCAGAGGCATCCATGAACCTCACACTTGGGGCTGCATCAGCACACGCCTCTATCAA  
CCCAAGTACTGTGGAGTTTGCATGGACAATAGGTGCTGCATCCCCTACAAGTCTAAGACTATCGACGTGT  
CCTTCCAGTGTCTGATGGGCTTGGCTTCTCCGCCAGGTCTATGGATTAATGCCTGCTTCTGTAACCT  
GAGCTGTAGGAATCCCAATGACATCTTTGCTGACTTGAATCCTACCCTGACTTCTCAGAAATTGCCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214390 representing NM\_080838  
 Red=Cloning site Green=Tags(s)

MRWFLPWTLAAVTAASSTVLATALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECPPSPPRCPLGVSLIT  
 DGCECCMKCAQQLGDNCTEAAICDPHRGLYCDYSGDRPRYAIGVCAHAVGEVEAWHRNCIAYTSPWSPCS  
 TSCGLGVSTRISNVNAQCWPEQESRLCNLRPCDVIHTLIKAGKKCLAVYQPEASMNFTLAGCISTRYSYQ  
 PKYCGVCMNRCPIPYSKTI DVSFQCPDGLGFSRQVLWINACFCNLSCRNPNDIFADLESYPDFSEIAN

TRTRPLE - GFP Tag - V

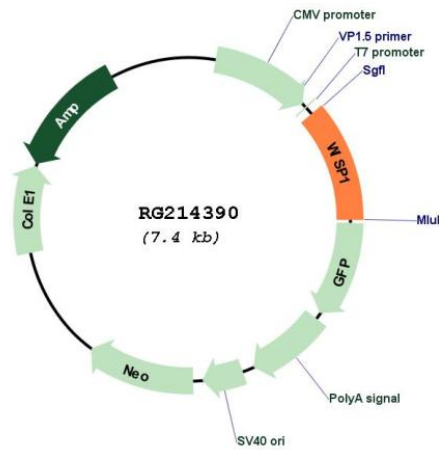
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_080838

**ORF Size:** 840 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080838.3</a>
<b>RefSeq Size:</b>	1035 bp
<b>RefSeq ORF:</b>	843 bp
<b>Locus ID:</b>	8840
<b>UniProt ID:</b>	<a href="#">O95388</a>
<b>Cytogenetics:</b>	8q24.22
<b>Protein Families:</b>	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
<b>Gene Summary:</b>	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]