Product datasheet for SC331623

CCN4 (NM_001204870) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCN4 (NM_001204870) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCN4
Synonyms:	WISP1; WISP1-OT1; WISP1-UT1; WISP1c; WISP1i; WISP1tc
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331623 representing NM_001204870. Blue=Insert sequence Red=Cloning site Green=Tag(s) ATGAGGTGGTTCCTGCCCTGGACGCTGGCAGCAGTGACAGCAGCAGCCGCCAGCACCGTCCTGGCCACG GCAGGGAAGAAGTGTCTGGCTGTGTACCAGCCAGAGGCATCCATGAACTTCACACTTGCGGGCTGCATC AGCACACGCTCCTATCAACCCAAGTACTGTGGAGTTTGCATGGACAATAGGTGCTGCATCCCCTACAAG TCTAAGACTATCGACGTGTCCTTCCAGTGTCCTGATGGGCTTGGCTTCTCCCGCCAGGTCCTATGGATT AATGCCTGCTTCTGTAACCTGAGCTGTAGGAATCCCAATGACATCTTTGCTGACTTGGAATCCTACCCT GACTTCTCAGAAATTGCCAACTAG
Restriction Sites:	SgfI-MluI
ACCN:	NM_001204870
Insert Size:	369 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:	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.

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RefSeq:	NM_001204870.1
RefSeq Size:	4459 bp
RefSeq ORF:	369 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:	13.5 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]

Transcript Variant: This variant (4) lacks three internal exons in the coding region, as compared to variant 1. The resulting isoform (4) has a shorter and distinct C-terminus, as compared to isoform 1. 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.