

## Product datasheet for **SC101288**

### CCDC50 (NM\_174908) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC50 (NM_174908) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC50
Synonyms:	C3orf6; DFNA44; YMER
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101288 sequence for NM_174908 edited (data generated by NextGen Sequencing)

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ATGGCTGAAGTCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGAT
TTTGCTGTCCTGGAGGACCACACCTGGCTCACAGCCTGCAGGAACAAGAGATTGAGCAT
CATTTGGCATCGAACGTTTCAGCGGAACCGTTTGGTCCAGCATGATCTCCAGGTGGCTAAG
CAGCTCCAAGAGGAAGATCTGAAAGCGCAGGCCAGCTCCAGAAGCGCTACAAAGACCTT
GAACAACAAGACTGTGAAATTGCTCAGGAAATTCAGGAGAAGCTGGCTATTGAGGCAGAG
AGACGACGCATTGAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGAAGAAAAGGAG
TTACAGGAAGAGAAAAAGAGAAAACACTTTCCAGAGTTCCCTGCAACCCGTGCTTAT
GCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAAGAGTATGAAAGAAGCTGTA
TCTACTCCATCACGAATGGCCACAGGGATCAGGAATGGTATGATGCTGAAATTGCCAGA
AAACTGCAAGAAGAAGAACTTTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCT
CAAGATGAAGAAATCGCTCGACTTCTAATGGCTGAAGAAAAGAAAGCTTACAAAAAGCC
AAGGAGCGGGAGAAATCATCTTTGGACAAAAGAAAGCAAGACCCCGAGTGGAAAGCCAAA
ACAGCTAAAGCAGCAAATCCAAGTCAAAGAGAGTGTGAACCTCACCATTCTAAGAAT
GAAAGGCCAGCACGGCCACCACCCTATCATGACAGATGGTGAAGATGCCGATTACACT
CATTTTACAAACCAGCAGAGTTCCACACGGCATTCTCAAATCAGAGTCCTCTCATAAA
GGTTTTTCATTACAAACATTAA

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Clone variation with respect to NM\_174908.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_174908 unedited GCGGCCGCGAATTCGGCACCCAGGATATTTGGTATCGATTGGGGCCGGGACGCGGAGCAG GTGGCCGCGGGGGCAGCTGGGCGCCAGCTTGGTGCCTCGGGGACCGTCTCCCCTGCG TTTGGTCACCAGCCCCTGCCGCCCCGACCCGCTCCGTTCTCCGGCCTGCGAGCCCTGCCG GCCGACTTTGCGCCGCTCCGGCGCTGCTGCTGCGCTCGGGGCCCGCTCGGCGCCGGC GGTGACCGGGAAGCCCGCTTAAAGGGGCAACCGGACCCTGGCCCGGTATGGCTGAAGT CAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTTGCTGCCT GGAGACCACACCCTGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTTGGCATC GAACGTTCAAGCGAACCGTTTGGTCCAGCATGATCTCCAGGTGGCTAAGCAGCTCCAAGA GGAAGATCTGAAAGCGCAGGCCAGCTCCAGAAGCGCTACAAAGACCTTGAAACAACAAGA CTGTGAAATTGCTCAGGAAATTCAGGAGAAGCTGGCTATTGAGGCAGAGACGACGCAT TCAGGAGAAGAAGGATGAGGACATANCTCGCTTTTGCAGANAAGGAGTTACAGGGAGAG AAAAAGAGAAAGAAACACTTCCAGAGTCCCTGCACCCGTGCTTATGCAGATAGTTACT ATTATGAAGATGGG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_174908 unedited TCGACCATTGGAGAGGCAACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTCACAGGGCA GCCACCCGGGATCTGTTCAAGAAAAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTT TTTTTTTTTTTTTTTTGCTTTTACATTTATATAAAAAATGACAAAAGTAAAAAGCAGAGAA CACAGTAAAAAGTGTCTGGCAGTTCATTAATAACAGTTGAGTTGCTTCTATAGTCTCAA ACATTATATATTATTTGAATGAGAAAAGATGAGGATTTAACTGGCTGAATTTTCATTT CTATCTCCTTATTCATAGGTAATAAATACTCTGATATTATTTAAAAAGTGTGCTTTA CACAAAAATAAAATAAACCTAAAATATTTTAAAAATGTAATCTTTTAAAAACCTTAAAA AAAGTAACAAATTTTCAATAAAGATGTTGAATTAGCTATCACAAGGTGATAGCTTAATTG GTCACCTACTAAAACACCCGAAACACTAACATTCACCGGTAAAGGGTTAAGTGGGCCCACT TTTTTGAAGGCATATCCCGTTAAAAATTTCAAAAAAAAAAACTGGGGGAANTACTGGGA AGCCGAAGAAATGCCNAATTTTTTAAAGGAATGGGTCTGGGTAAAAAATAATTTT TTGAAACAAGAAGGGGAAGGCTGTGCCGATTANNAAAAAAGAGGGGTGTGTGTGCCN NAANGNNCANNAGAAAGCAGTGGGGGAGCGAGGNGAANNCCNNGAGNGNAGCGGNAGNNA GCGCTAANACGGAGCAACGGGCANCGCANNCCNGATNNANAACGAGGGNGGGAGGGGGANC GAGNNNGCCNNCANAGGGGNNAANNNNAGNCAANNCCNCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_174908
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	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).
<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>

RefSeq: [NM\\_174908.2](#), [NP\\_777568.1](#)  
RefSeq Size: 1926 bp  
RefSeq ORF: 921 bp  
Locus ID: 152137  
UniProt ID: [Q8IVM0](#)

Cytogenetics: 3q28

**Gene Summary:** This gene encodes a soluble, cytoplasmic, tyrosine-phosphorylated protein with multiple ubiquitin-interacting domains. Mutations in this gene cause nonsyndromic, postlingual, progressive sensorineural DFNA44 hearing loss. In mouse, the protein is expressed in the inner ear during development and postnatal maturation and associates with microtubule-based structures. This protein may also function as a negative regulator of NF- $\kappa$ B signaling and as an effector of epidermal growth factor (EGF)-mediated cell signaling. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]

Transcript Variant: This variant (1) lacks an in-frame exon in the coding region, compared to variant 2, and encodes the short isoform. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.