

## Product datasheet for **RG208965**

### CCDC50 (NM\_174908) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC50 (NM_174908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCDC50
Synonyms:	C3orf6; DFNA44; YMER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208965 representing NM_174908 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAAGTCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTTGCTGTCC  
TGGAGGACCACACCCTGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTTGGCATCGAACGTTCA  
GCGGAACCGTTTGGTCCAGCATGATCTCCAGGTGGCTAAGCAGCTCCAAGAGGAAGATCTGAAAGCGCAG  
GCCAGCTCCAGAAGCGCTACAAAGACCTTGAACAACAAGACTGTGAAATTGCTCAGGAAATTCAGGAGA  
AGCTGGCTATTGAGGCAGAGAGACGACGATTCAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGA  
AGAAAAGGAGTTACAGGAAGAGAAAAAGAGAAAAGAAACACTTTCCAGAGTTCCTGCAACCCGTCCTAT  
GCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAAGAGTGATGAAAGAAGCTGTATCTACTCCAT  
CACGAATGGCCACAGGGATCAGGAATGGTATGATGCTGAAATTGCCAGAAAACGCAAGAAGAAGAACT  
TTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCTCAAGATGAAGAAATCGCTCGACTTCTAATG  
GCTGAAGAAAAGAAAGCTTACAAAAAGCCAAGGAGCGGGAGAAATCATCTTTGGACAAAAGAAAGCAAG  
ACCCCGAGTGGAAAGCCAAAAACAGCTAAAGCAGCAAATCCAAGTCAAAAGAGAGTGATGAACCTCACCA  
TTCTAAGAATGAAAGGCCAGCACGGCCACCACCACCTATCATGACAGATGGTGAAGATGCGGATTACACT  
CATTTTACAAACCAGCAGAGTTCCACACGGCATTCTCAAATCAGAGTCCTCTCATAAAGGTTTTTCATT  
ACAAACAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208965 representing NM\_174908  
 Red=Cloning site Green=Tags(s)

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQ  
 AQLQKRYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKRKKHFPEFPATRAY  
 ADSYYYYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDAEIAARKLQEEELLATQVDMRAAQVAQDEEIAARLLM  
 AEEKKAYKKAKEREKSSLDKRRKQDPEWKPKTAKAANSKSKESEDPHHSKNERPARPPPPIMTDGEDADYT  
 HFTNQSSSTRHFSKSESSHKGfHYKH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_174908

**ORF Size:** 918 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.

**RefSeq:** [NM\\_174908.4](#)

**RefSeq Size:** 1926 bp

**RefSeq ORF:** 921 bp

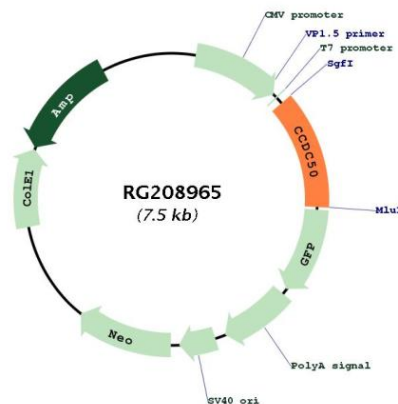
**Locus ID:** 152137

**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-κB 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]

## Product images:



Circular map for RG208965