

## Product datasheet for **RG221577**

### **C2CD2 (NM\_015500) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2CD2 (NM_015500) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C2CD2
Synonyms:	C21orf25; C21orf258; TMEM24L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG221577 representing NM\_015500  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCATGGCCCGGCTGGGCTCGTGGCTCGGGGAGGCGCAGTGGCTCGCGCTGGTGTCTCTTCGTCG  
 CGGCCCTGGCCACGGTAGGCCTGTACCTGGCGCAGTGGGCGCTGGCCAGGGCGCGACCCAGCCAGCG  
 GCGGGCGGTGGAGCCTGGAGAGGGGCGCGCCCGGGTCCGACGCGCTGCTCTCCTGGATCCTGACGCTG  
 GGCAGCTGGAGGAGCCAGTGGCAGGCGGCTGGGTGACCGCCCTGAACGAGGAGGCCGAGAGGAAAGGGG  
 GCCACCTTTCTGTCCTTTGAGGAGGACCCGCGGCAGCAGGCACTGGAGCTGGTGGTGCAGGAGGTCTC  
 CAGCGTGTCTCAGGTGGCGGAGGAGAAGGTGGTGGTCTGTACGCTGGTGGCCAGGCTATTCAGTTCTTG  
 GTCAGCGAGACGCTGCCTGGGTGCTGGATGCCGGCTGTACGACATGCGGCTCTCCCTTTCCATTTAC  
 AGCTGGAGTTCACATGAAGGAGAAGAGAGAGGACCTCCAGATTAGCTGGTCTTTTCATCAGTGTCCCGA  
 AATGGCCGTTAATATCCAGCCCAAAGCACTGGGGGAGGACCAGGTGGCTGAGACAAGTGCATGTCTGAC  
 GTTCTCAAGGACATCTTGAAGCATTGGCTGGTCTGCCTCTCCATCAGTGGTTCGATTACCAAGCCCA  
 CGACTGTAAGGAAGCTCAGAACTTACAGTGTGCTGCATCTACTGCTCAGGAATCCTGTCCTCTAAACC  
 TCCAAGGGCTCACGAGCTGAAGCTACTGGTGAGGAACATCCACGCTTTGCTGCTCAGCGAGCCCGGTGCC  
 TCAGGCCACATTAATGCAGTGTGCGTGTGCGAGCTGAACGATCCTGTTACAGAGTTTCCAGCACCTGA  
 CGAAAAACTCCGACCTCATGTGGGAAGAGGAATTCACCTTCGAGTTGAATGCCAAGTGAAGGAGTT  
 ACACCTGCAGATTCAGAGGCTGGGCGATCCTCAGAAGTCTGCTGGCGACGGCGACAGTTCTCTGGAC  
 TTATTTAAGAAGCAGCCTTCTGGGCCACAGAGCTTACGCTGACCAGCGGTCTGCCTGCGGCAGCTCGG  
 TGCTGGGCTCGTACGGCAGAGTTCTTTACATGGAACCTGGTGAATTGAAATCCTGGCCATCCCTCC  
 CCCTGTTCTGCTGCAAAAATAGAAAAGGACCGCACGGTATGCCCTGTGGGACTGTGGTCACTACTGTC  
 ACTGCTGTGAAGACCAAGCCTCGCGTCGACGTGGGGAGGGCGTCCCCGCTGAGCTCTGATTCTCCGGTGA  
 AGACTCCCATCAAGGTGAAGGTGATCGAGAAGGACATCTCTGTCCAGGCCATCGCCTGCCGACGCGCCC  
 CGTCAGCAAAACTCTCTTCTTCAGACACAGAATTGTTGGTGTGAATGGTTCGGATCCAGTGGCTGAA  
 GTGGCCATTTCAGAGCTCAGTGAATCTTCAAAGCTGAACTCAAGTCGCCACGGAAGAAAAGCACTATTA  
 TCATATCAGGGATCTCCAAGACCTCACTATCTCAGGACCAGCAGCTGCCCTGATGCAGGGCTACACGGC  
 CTCTGTGGACAGCACCCACCAGGAGGACCCCCATCCATCCGGAGAGGGCGGCAGCCTCTGCCCGCCA  
 GAGGAAGCCGAGTCAGCCAGGCATCCCTTGCCCCAAGCCCCAGGAGGACGAGCTAGACTCCTGGGACT  
 TGGAGAAGGAGCCACAGCCCGCGCATGGAGCAGCCAGGTCTGCTGGACCCGACGGTATGAGCTGTC  
 AGAGAGCTCCATGAGTGTCTGGAGCCGGCACTGCCAAAAGCATAAAGGAGGAATTCTAAGGAAAGGT  
 GCAAAGCTGTTCTTCGCGCGCGGCATCAACAGAAAGACCAGGCATGAGTCAGTCACACAATGACCTTG  
 TGTTCTTGAGCAGCCAGAGGGTTCGGGAGGAAAGGCATCACCTCACCAGGATCTGAACAAGAAGCT  
 GCTCTCCAGGCACAGAAACAAGAACACCATGAACGGTGCCCCGTGGAGCCCTGCACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG221577 representing NM\_015500  
Red=Cloning site Green=Tags(s)

MAMARLGSWLGEAQWLALVSLFVAALATVGLYLAQWALARARPQPQRRAVEPEGEGPRPGSDALLSWILTL  
 GSWRSQWQAAWVTALNEEAERKGGPPFLSFEEDPRQQAELVVQEVSSVLSAEEKVVVCHVVGQAIQFL  
 VSETPALGAGCRLYDMRLSPFHLQLEFHMKEKREDLQISWSFISVPEMAVNIQPKALGEDQVAETSAMSD  
 VLKDIKHLAGSASPSVVLITKPTTVKEAQNLCQAASTAQESCPPKPPRAHELKLLVRNIHVLLLSEPGA  
 SGHINAVCVVQLNDPVQRFSSTLTKNTPDLMWEEFTFELNAKSKELHLQISEAGRSSEGLLATATVPLD  
 LFKKQPSGQSFSLTSGSACGSSVLSVTAEFSYMPEGELKSWIPPPVPAAKIEKDRVTMPCGTVVTTV  
 TAVKTKPRVDVGRASPLSSDSPVKTPIKVKVIEKDISVQAIACRSAPVSKTLSSDTELLVLNGSDPVAE  
 VAIRQLSESSKLLKSPRKKSTIIISGISKTSLSQDHDAALMQGYTASVDSTHQEDAPSHPERAAASAPP  
 EEAESAQASLAPKQDELDSDWLEKEPQAAWSSQVLLDPDGDELSESSMSVLEPGTAKKHKGILRKG  
 AKLFFRRRHQQKDPGMSQSHNDLVFLEQPEGSRKGITLTRILNKKLLSRHRNKNTMNGAPVEPCT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015500

**ORF Size:** 2088 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\\_015500.2](#)

**RefSeq Size:** 6349 bp

**RefSeq ORF:** 2091 bp

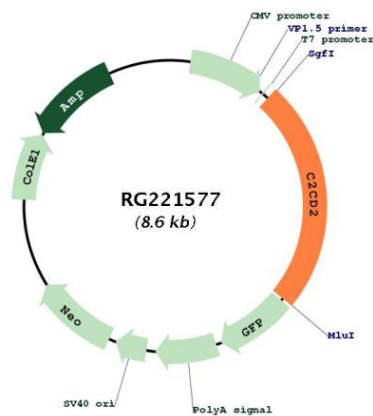
**Locus ID:** 25966

**UniProt ID:** [Q9Y426](#)

**Cytogenetics:** 21q22.3

**Protein Families:** Transmembrane

**Product images:**



Circular map for RG221577