

## Product datasheet for **RG221631**

### **C2CD2 (NM\_199050) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2CD2 (NM_199050) 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:**

>RG221631 representing NM\_199050  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGGCTCTCCCCTTTCCATTTACAGCTGGAGTTCACATGAAGGAGAAGAGAGAGACCTCCAGATTA  
 GCTGGTCTTTCATCAGTGTGCCGAAATGGCCGTTAATATCCAGCCCAAAGCACTGGGGGAGGACCAGGT  
 GGCTGAGACAAGTGCATGTCTGACGTTCTCAAGGACATCTTGAAGCATTGGCTGGTTCTGCCTCTCCA  
 TCAGTGGTTCTGATTACCAAGCCACGACTGTAAGGAAGCTCAGAACTTACAGTGTGCTGCATCTACTG  
 CTCAGGAATCCTGTCTCCTAAACCTCCAAGGGCTCACGAGCTGAAGCTACTGGTGGAGAACATCCACGT  
 CTTGCTGCTCAGCGAGCCCGTGCCTCAGGCCACATTAATGCAGTGTGCGTCGTGCAGCTGAACGATCCT  
 GTTCAGAGTTTCCAGCACCTGACGAAAAACTCCGGACCTCATGTGGGAAGAGGAATTCACCTTCG  
 AGTTGAATGCCAAGTGAAGGAGTTACACCTGCAGATTCAGAGGCTGGGCGATCCTCAGAAGGTCTGCT  
 GGGCAGCGGACAGTTTCTCTGGACTTATTTAAGAAGCAGCCTTCTGGGCCACAGAGCTTACGCTGACC  
 AGCGGGTCTGCCTGCGGAGCTCGGTGCTGGGCTCGGTACGGCAGAGTTCTCTTACATGGAACCTGGTG  
 AATTGAAATCCTGGCCATCCCTCCCTCCTGCTGCAAAAATAGAAAAGGACCCGCAGGTGATGCC  
 CTGTGGGACTGTGGTCACTACTGTCACTGCTGTGAAGACCAAGCCTCGCGTCGAGTGGGGAGGGCGTCC  
 CCGCTGAGCTCTGATTCTCCGGTGAAGACTCCCATCAAGTGAAGGTGATCGAGAAGGACATCTCTGTCC  
 AGGCCATCGCCTGCCGACGCGCCCGTCCAGCAAAACTCTCTTCTTACAGACACAGAATTGTTGGTGT  
 GAATGGTTCGGATCCAGTGGCTGAAGTGGCCATTCGACAGCTCAGTGAATCTTCAAAGCTGAACTCAAG  
 TCGCCACGGAAGAAAAGCACTATTATCATATCAGGGATCTCCAAGACCTCACTATCTCAGGACCAGCAGC  
 CTGCCCTGATGCAGGGCTACACGGCTCTGTGGACAGCACCCACCAGGAGGACGCCCATCCCATCCGGA  
 GAGGGCGGACAGCCTCTGCCCGCCAGAGGAAGCCGAGTCAGCCAGGCATCCCTTGCCCCCAAGCCCCAG  
 GAGGACGAGCTAGACTCCTGGGACTTGGAGAAGGAGCCACAGGCCGCGGCATGGAGCAGCCAGGTCTGC  
 TGGACCCGACGGTGTGAGCTGTGAGAGCTCCATGAGTGTCTTGGAGCCGGGACTGCCAAAAAGCA  
 TAAAGGAGGAATTCTAAGGAAAGGTGCAAAGCTGTTCTTCCGCCGGCGGCATCAACAGAAAGACCCAGGC  
 ATGAGTCAGTCACACAATGACCTTGTGTTCTGGAGCAGCCAGAGGGTCCCGGAGGAAAGGCATCACCC  
 TCACCAGGATCTGAACAAGAAGCTGCTCTCCAGGCACAGAAACAAGAACCATGAACGGTGCCCCCGT  
 GGAGCCCTGCACG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG221631 representing NM\_199050  
 Red=Cloning site Green=Tags(s)

MRLSPFHLQLEFHMKEKREDLQISWSFISVPEMAVNIQPKALGEDQVAETSAMSDVLKDILKHLGASASP  
 SVVLITKPTTVKEAQLNQCAASTAQESCPPKPPRAHELKLLVRNIHVLLLSEPGASGHINAVCVVQLNDP  
 VQRFSSLTKNTPDLMWEEEFTEFELNAKSKELHLQISEAGRSSEGLLATATVPLDLFKKQPSGPQSFTLT  
 SGSACGSSVLGSVTAEFSYMPEGELKSWPIPPVPAKIEKDRVTMPCGTVVTTVTAVKTKPRVDVGRAS  
 PLSSDSPVKTPIKVKVIEKDISVQAIACRSAPVSKTLSSDTELLVLNGSDPVAEVAIRQLSESSKLLK  
 SPRKSTIIISGISKTSLSQDHDAALMQGYTASVDSTHQEDAPSHPERAAAASAPPEEAESAQASLAPKPQ  
 EDELDSWDLEKEPQAAAWSSQVLLDPDDELSESSMSVLEPGTAKKHKGGILRKGAKLFFRRRHQKDPG  
 MSQSHNDLVFLEQPEGSRRKGITLTRILNKLLSRHRNKNTMNGAPVEPCT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_199050
<b>ORF Size:</b>	1623 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_199050.3</a>
<b>RefSeq Size:</b>	5827 bp
<b>RefSeq ORF:</b>	1626 bp
<b>Locus ID:</b>	25966
<b>UniProt ID:</b>	<a href="#">Q9Y426</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Transmembrane