

## Product datasheet for **RG232950**

### **CNOT2 (NM\_001199302) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CNOT2 (NM_001199302) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNOT2
Synonyms:	CDC36; HSPC131; IDNADFS; NOT2; NOT2H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG232950 representing NM\_001199302  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGGACTGATGGACATACATTATCTGAGAAAAGAACTACCAGGTGACAAACAGCATGTTTGGTG  
 CTTCAAGAAAGAAGTTTGTAGAGGGGGTCGACAGTACTACCATGACGAAAACATGTACTACAGCCAGTC  
 TTCTATGTTTCCACATCGGTGAGAAAAGATATGCTGGCATCACCATCTACATCAGGTACAGTCTCTCAG  
 TTTGGGGCAAGTTTATACGGGCAACAAAGTGCCTAGGCCTTCCAATGAGGGGGATGAGCAACAATACCC  
 CTCAGTTAAATCGCAGCTTATCACAAGGCACTCAGTTACCGAGCCACGTACGCCAACACAGGGGTACC  
 AACATGTCACCTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGAATCTAGGAATATGATG  
 AACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAATAGCATGAGCAGTTCAGGGTTAG  
 GTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAGCAGCCTTCTCGACAGCCTTTTAC  
 TGTGAACAGTATGCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGAATAACTCCTTATCAAGT  
 AACATTTTAAATGGAACAGACGGAAGTGAAAATGTGACAGGATTGGACCTTTCAGATTTCCAGCATTAG  
 CAGACCGAAACAGGAGGGAAGGAAGTGGTAACCCAACCTCATTAAATAAACCCCTTGGCTGGAAGAGCTCC  
 TTATGTTGGAATGGTAACAAAACAGCAAAATGAACAATCCAGGACTTCTCAATACACAATGAAGATTTT  
 CCAGCATTACCAGGCTCCAGCTATAAAGATCCAACATCAAGTAATGATGACAGTAAATCTAATTTGAATA  
 CATCTGGCAAGACAACCTCAAGTACAGATGGACCCAAATCCCTGGAGATAAAAGTTCAACAACACAAAA  
 TAATAACCAGCAGAAAAAAGGGATCCAGGTGTACCTGATGGTCGGGTTACTAACATTCCTCAAGGGATG  
 GTGACGGACCAATTTGGAATGATTGGCCTGTTAACATTTATCAGGGCAGCAGAGACAGCCAGGAATGG  
 TACATCTTGCAATTAGGAAGTGACTTAACAACATTAGGCCTCAACTCTGAAATCTCTACCC  
 CAAATTTGCGTACCCTGGGCATCTTCACTTGTGACCTCAAGACATAGACTTCCATGTTCCATCTGAG  
 TACTTAACGAACATTCACATTAGGGATAAGCTGGCTGCAATAAACTTGGCCGATATGGTGAAGACCTTC  
 TCTTCTATCTCTATTACATGAATGGAGGAGACGTATTACAACCTTTAGCTGCAGTGGAGCTTTTTAACCG  
 TGATTGGAGATACCACAAAGAAGAACGAGTATGGATTACCAGGGCACCAGGCATGGAGCCAAACATGAAA  
 ACCAATACCTATGAGAGGGGAACATATTACTTCTTTGACTGTCTTAAGTGGAGGAAAGTAGCTAAGGAGT  
 TCCATCTGGAATATGACAAATTAGAAGAACGGCCTCACCTGCCATCCACCTTCAACTACAACCTGCTCA  
 GCAAGCCTTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232950 representing NM\_001199302  
 Red=Cloning site Green=Tags(s)

MVRTDGHTLSEKRYQVTNSMFGASRKKFVEGVSDYHDENMYYSQSSMFPHRSEKMDLASPSTSGQLSQ  
 FGASLYGQQSALGLPMRGMNNTPQLNRSLSQGTQLPSHVPTTGVPTMSLHTPPSPSRGILPMNPRNMM  
 NHSQVGGIGIPSRNSMSSSGLGSPNRSPSIICMPKQPSRQPFTVNSMSGFGMNRNQAFGMNNSLSS  
 NIFNGTDGSENVTLGLDLSDFPALADNRNRREGSGNPTPLINPLAGRAPPYVGMVTKPANEQSQDFSIHNEDF  
 PALPGSSYKDPTSSNDDSKSNLNTSGKTTSSDGPFPKPGDKSSTQNNNQKKGIVLPDGRVTNIPQGM  
 VTDQFGMIGLLTFIRAAETDPGMVHLALGSDLTTLGLNLNSPENLYPKFASPWASSPCRQDIDFHVPSE  
 YLTNIHIRDKLAAIKLGRYGEDLLFYLYMNGGDVQLLAAVELFNRDWRVYHKEERVWITRAPGMEPTMK  
 TNTYERGTYYFFDCLNWRKVAKEFHLEYDKLEERPHLPSTFNYPNAQQAF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001199302
<b>ORF Size:</b>	1620 bp
<b>OTI Disclaimer:</b>	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>
<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_001199302.1</a> , <a href="#">NP_001186231.1</a>
<b>RefSeq Size:</b>	3162 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	4848
<b>UniProt ID:</b>	<a href="#">Q9NZN8</a>
<b>Cytogenetics:</b>	12q15
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	RNA degradation
<b>Gene Summary:</b>	This gene encodes a subunit of the multi-component CCR4-NOT complex. The CCR4-NOT complex regulates mRNA synthesis and degradation and is also thought to be involved in mRNA splicing, transport and localization. The encoded protein interacts with histone deacetylases and functions as a repressor of polymerase II transcription. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]