

## Product datasheet for **RG200225**

### **CNOT8 (NM\_004779) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT8 (NM_004779) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNOT8
Synonyms:	CAF1; Caf1b; CALIF; hCAF1; POP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200225 representing NM_004779 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGCAGCACTTGTGGAGAATAGCCAGGTTATCTGTGAAGTGTGGCCAGTAATCTAGAAGAAGAGA  
TGAGGAAGATCCGAGAAATCGTGCTCAGTTACAGTTATATTGCCATGGACACAGAATTTCCAGGTGTTGT  
GGTGCACCAATTGGTGAATTCGTAGTCCATAGATTACCAATATCAGCTTCTGCGGTGCAATGTTGAC  
CTTTAAAAAATTCCAGCTGGCCTTACATTCACAAATGAGAAGGGAGAGTATCCTTCTGGAATCAATA  
CTTGGCAGTTCAATTTCAAATTTAACCTTACAGAGGACATGTACTCCAGGATCCATAGATCTCCTTGC  
TAACTCAGGACTACAGTTTCAGAAGCATGAAGAGGAAGGATTGACACACTGCACTTTGCAGAGCTGCTT  
ATGACATCAGGAGTGGTCTCTGTGACAATGTCAAATGGCTTTCATTTCCATAGTGGCTATGATTTTGGCT  
ATATGGTAAAGTTGCTTACAGATTCTCGTTTGCCAGAAGAGGAACATGAATTCCTTTCATATTCTGAACCT  
TTTCTTCCCATCCATTTATGATGTGAAATACCTGATGAAGAGCTGCAAAAATCTTAAGGGAGGTCTTCAG  
GAAGTTGCTGATCAGTTGGATTTGCAGAGGATTGGAAGGCAGCACCAGGCAGGCTCAGACTCACTGCTGA  
CAGGAATGGCTTCTTTAGGATGAAAGAGTTGTTTTTGGAGACAGCATTGATGATGCCAAGTACTGTGG  
GCGGCTCTATGGCTTAGGCACAGGAGTGGCCAGAAGCAGAATGAGGATGTGGACTCTGCCAGGAGAAG  
ATGAGCATCCTGGCGATTATCAACAACATGCAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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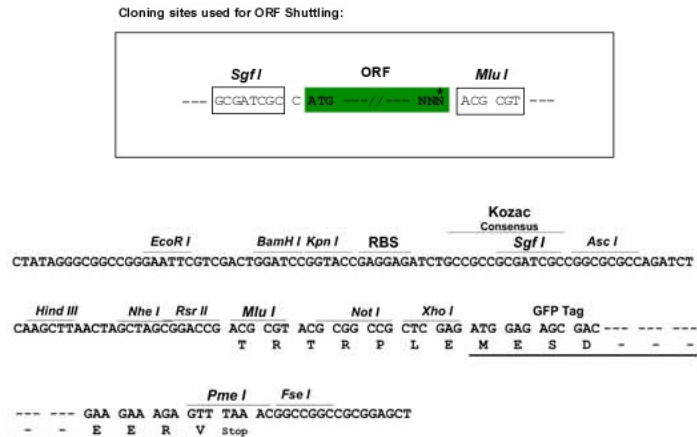
**Protein Sequence:** >RG200225 representing NM\_004779  
 Red=Cloning site Green=Tags(s)

MPAALVENSQVICEVWASNLEEMRKIREIVLSYSYIAMDTEFPGVVVRPIGEFRSSIDYQYQLLRNVN  
 LLKIIQLGLTFTNEKGEYPSGINTWQFNFKFNLTEDMYSQDSIDLLANSGLQFQKHEEGIDTLHFAELL  
 MTSGVVLCDNVKWL SFHSGYDFGYMVKLLTDSRLPEEEHEFFHILNLFPSIYDVKYLKMSCKNLKGLLQ  
 EVADQLDLQRIGRQHQAGSDSLLTGMAFFRMKELFFEDSIDDAKYCGRLYGLGTGVAQKQNEVDVSAQEK  
 MSILAIINNMQQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004779

**ORF Size:** 876 bp

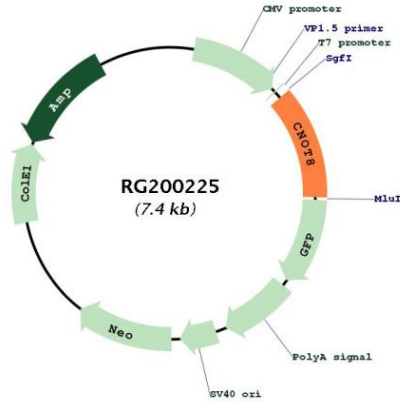
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_004779.6</a>
<b>RefSeq Size:</b>	2550 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	9337
<b>UniProt ID:</b>	<a href="#">Q9UFF9</a>
<b>Cytogenetics:</b>	5q33.2
<b>Domains:</b>	CAF1
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	RNA degradation
<b>Gene Summary:</b>	<p>Has 3'-5' poly(A) exoribonuclease activity for synthetic poly(A) RNA substrate. Its function seems to be partially redundant with that of CNOT7. Catalytic component of the CCR4-NOT complex which is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. During miRNA-mediated repression the complex seems also to act as translational repressor during translational initiation. Additional complex functions may be a consequence of its influence on mRNA expression. Associates with members of the BTG family such as TOB1 and BTG2 and is required for their anti-proliferative activity. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG200225