

## Product datasheet for **RG237238**

### CNOT8 (NM\_001301073) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT8 (NM_001301073) 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:	>RG237238 representing NM_001301073. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTGCAGCACTTGTGGAGAATAGCCAGGTTATCTGTGAAGTGTGGCCAGTAATCTAGAAGAAGAG
ATGAGGAAGATCCGAGAAATCGTGCTCAGTTACAGTTATATTGCCATGGACACAGAATTTCCAGGTGTT
GTGGTGCACCAATTGGTGAATTCGTAGTTCCATAGATTACCAATATCAGCTTCTGCGGTGCAATGTT
GACCTTTAAAAATTATCCAGCTGGGCCTTACATTCACAAATGAGAAGGGAGAGTATCCTTCTGGAATC
AATACTTGGCAGTTCAATTTCAAATTTAACCTTACAGAGGACATGTACTCCAGGATTCCATAGATCTC
CTTGCTAACTCAGGACTACAGTTTCAGAAGCATGAAGAGGAAGGGATTGACACACTGCACCTTGCAGAG
CTGCTTATGACATCAGGAGTGGTTCTCTGTGACAATGTCAAATGGCTTTCATTTTCATAGTGGCTATGAT
TTTGGCTATATGGTAAAGTTGCTTACAGATTCTCGTTTGCAGAAAGAGGAACATGAATTCCTTTCATATT
CTGAACCTTTTCTCCCATCCATTTATGATGTGAAATACCTGATGAAGAGCTGCAAAAATCTTAAGGGA
GGTCTTCAGGAAGTTGCTGATCAGTTGGATTTGCAGAGGATTGGAAGGCAGCACCAGGCAGGCTCAGAC
TCACTGCTGACAGGAATGGCTTTCTTTAGGATGAAAGAGTTGTTTTTTGAGGACAGCATTGATGATGCC
AAGTACTGTGGGCGGCTCTATGGCTTAGGCACAGGAGTGGCCAGAAGCAGAATGAGGATGTGGACTCT
CCCCAGGAGAAGATGAGCATCTGGCGATTATCAACAACATGCAGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237238  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPAALVENSQVICEVWASNLEEMRKIREIVLSYSYIAMDTEFPGVVVRPIGEFRSSIDYQYQLLR CNV  
 DLLKIIQLGLTFNEKGEYPSGINTWQFNFKFNLTEDMYSQDSIDLLANGLQFQKHEEEGIDTLHFAE  
 LLMTSGVVLCDNVKWL SFHSGYDFGYMVKLLTDSRLPEEEHEFFHILNLFPSIYDVVKYLMKSCKNLKG  
 GLQEVDQLDLQRIGRQHQAGSDSLLTGMAFFRMKELFFEDSIDDACYGRLYGLGTGVAQKQNEVDVS  
 AQEKMSILAIINM MQQ  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAIINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301073

**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).

**RefSeq:** [NM\\_001301073.2](#)

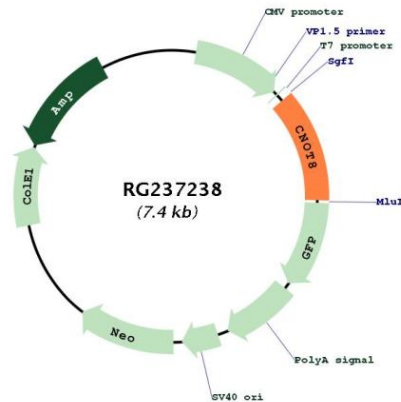
**RefSeq Size:** 2621 bp

**RefSeq ORF:** 879 bp

**Locus ID:** 9337  
**UniProt ID:** [Q9UFF9](#)  
**Cytogenetics:** 5q33.2  
**Protein Families:** Transcription Factors  
**Protein Pathways:** RNA degradation  
**MW:** 33.5 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RG237238