

Product datasheet for **RG236389**

CNOT8 (NM_001301083) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CNOT8 (NM_001301083) 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: >RG236389 representing NM_001301083.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTA CTCCCAGGATTCCATAGATCTCCTTGCTAACTCAGGACTACAGTTTCAGAAGCATGAAGAGGAA
GGGATTGACACTGCACCTTTGCAGAGCTGCTTATGACATCAGGAGTGGTCTCTGTGACAATGTCAAA
TGGCTTTCATTTCATAGTGGCTATGATTTTGGCTATATGGTAAAGTTGCTTACAGATTCTCGTTTGCCA
GAAGAGGAACATGAATTCCTTTCATATTCTGAACCTTTTCTCCCATCCATTTATGATGTGAAATACCTG
ATGAAGAGCTGCAAAAATCTTAAGGGAGGTCTTCAGGAAGTTGCTGATCAGTTGGATTTGCAGAGGATT
GGAAGGCAGCACCAGGCAGGCTCAGACTCACTGCTGACAGGAATGGCTTTCTTTAGGATGAAAGAGTTG
TTTTTTGAGGACAGCATTGATGATGCCAAGTACTGTGGCGGCTCTATGGCTTAGGCACAGGAGTGGCC
CAGAAGCAGAATGAGGATGTGGACTCTGCCCAGGAGAAGATGAGCATCCTGGCGATTATCAACAACATG
CAGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236389
Blue=ORF Red=Cloning site Green=Tag(s)

```
MYSQSDIDLLANGLQFQKHEEEGIDTLHFAELLM TSGVVLCDNVKLSFHSGYDFGYMVKLLTDSRLP
EEEHEFFHILNLFPSIYDVKYLKMSCKNLKGG LQEVADQLDLQRIQRHQAGSDSLLTGMAFFRMKEL
FFEDSIDDAKYCGRLYGLGTGVAQKQNE DVDSAQEKMSILAIINMQQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

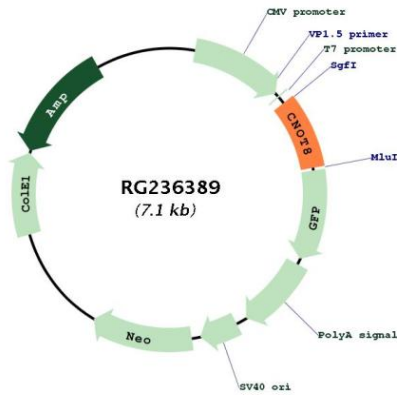


Cloning Scheme:


- ACCN:** NM_001301083
- ORF Size:** 558 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_001301083.1](#), [NP_001288012.1](#)
- RefSeq Size:** 2265 bp
- RefSeq ORF:** 561 bp
- Locus ID:** 9337
- UniProt ID:** [Q9UFF9](#)
- Cytogenetics:** 5q33.2
- Protein Families:** Transcription Factors
- Protein Pathways:** RNA degradation
- MW:** 21.7 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 RG236389