

## Product datasheet for **RG209293**

### **CNOT7 (NM\_013354) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CNOT7 (NM\_013354) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CNOT7  
**Synonyms:** CAF-1; CAF1; Caf1a; hCAF-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209293 representing NM\_013354  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCGGCAACTGTAGATCATAGCCAAAGAATTTGTGAAGTTTGGGCTTGCAACTTGGATGAAGAGA  
TGAAGAAAATTCGTCAAGTTATCCGAAAATATAATTACGTTGCTATGGACACCGAGTTTCCAGGTGTGGT  
TGCAAGACCCATTGGAGAATTCAGGAGCAATGCTGACTATCAATACCAACTATTGCGGTGTAATGTAGAC  
TTGTTAAAGATAATTCAGCTAGGACTGACATTTATGAATGAGCAAGGAGAATACCCTCCAGGAACCTCAA  
CTTGCCAGTTTAAATTTAAATTTAATTTGACGGAGGACATGTATGCCAGGACTCTATAGAGCTACTAAC  
AACATCTGGTATCCAGTTTAAAAACATGAGGAGGAAGGAATTGAAACCCAGTACTTTGCAGAACTCTT  
ATGACTTCTGGAGTGGTCTCTGTGAAGGGTCAAATGTTGTCATTTTCATAGCGTTACGACTTTGGCT  
ACTTAATCAAAATCCTAACCAACTCTAACTTGCCTGAAGAAGAACTTGACTTCTTTGAGATCCTTCGATT  
GTTTTTCTGTGATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAGTGGATTACAG  
GAGGTGGCAGAACAGTTAGAGCTGGAACGGATAGGACCACAACATCAGGCAGGATCTGATTCAATTGCTCA  
CAGGAATGGCCTTTTTCAAATGAGAGAAATGTTCTTTGAAGATCATATTGATGATGCCAAATATTGTGG  
TCATTTGTATGGCCTTGGTTCTGGTTCATCCTATGTACAGAATGGCACAGGGAATGCATATGAAGAGGAA  
GCCAACAAAGCAGTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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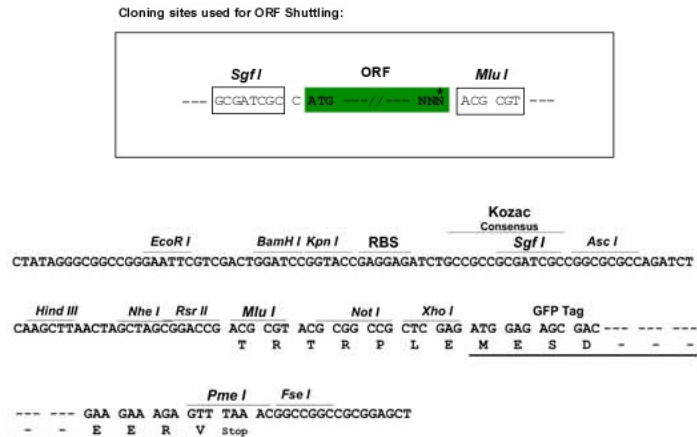
**Protein Sequence:** >RG209293 representing NM\_013354  
 Red=Cloning site Green=Tags(s)

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNYVAMDTEFPGVVARPIGEFRSNADYQYQLLRNVN  
 LLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEGIETQYFAELL  
 MTSGVVLCCEGVKWL SFHSGYDFGYLIKILTNSNLP EEELDFEILRLFFPVIYDVKYLKMSCKNLKGLLQ  
 EVAEQLELERIGPQH QAGSDSLLTGMAFFKMREMFFEDHIDDAKYCGHL YGLGSGSSYVQNGTGNAYEEE  
 ANKQS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013354

**ORF Size:** 855 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_013354.7](#)

**RefSeq Size:** 2646 bp

**RefSeq ORF:** 858 bp

**Locus ID:** 29883

**UniProt ID:** [Q9UIV1](#)

**Cytogenetics:** 8p22

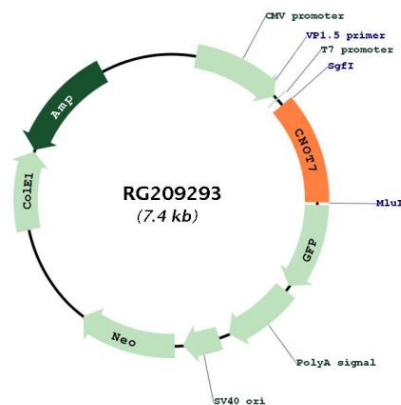
**Domains:** CAF1

**Protein Families:** Transcription Factors

**Protein Pathways:** RNA degradation

**Gene Summary:** The protein encoded by this gene binds to an anti-proliferative protein, B-cell translocation protein 1, which negatively regulates cell proliferation. Binding of the two proteins, which is driven by phosphorylation of the anti-proliferative protein, causes signaling events in cell division that lead to changes in cell proliferation associated with cell-cell contact. The encoded protein downregulates the innate immune response and therefore provides a therapeutic target for enhancing its antimicrobial activity against foreign agents. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq, Apr 2016]

## Product images:



Circular map for RG209293