

Product datasheet for RC209293

CNOT7 (NM_013354) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT7 (NM_013354) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNOT7
Synonyms:	CAF-1; CAF1; Caf1a; hCAF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209293 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCGGCAACTGTAGATCATAGCCAAAGAATTTGTGAAGTTTGGGCTTGCAACTTGGATGAAGAGA
TGAAGAAAATTCGTCAAGTTATCCGAAAATAAATTACGTTGCTATGGACACCGAGTTTCCAGGTGTGGT
TGCAAGACCCATTGGAGAATTCAGGAGCAATGCTGACTATCAATACCAACTATTGCGGTGTAATGTAGAC
TTGTTAAAGATAATTCAGCTAGGACTGACATTTATGAATGAGCAAGGAGAATACCCTCCAGGAACCTCAA
CTTGCCAGTTTAAATTTAAATTTAATTTGACGGAGGACATGTATGCCAGGACTCTATAGAGCTACTAAC
AACATCTGGTATCCAGTTTAAAAACATGAGGAGGAAGGAATTGAAACCCAGTACTTTGCAGAACTCTT
ATGACTTCTGGAGTGGTCTCTGTGAAGGGTCAAATGTTGTCATTTTCATAGCGTTACGACTTTGGCT
ACTTAATCAAAATCCTAACCAACTCTAACTTGCCTGAAGAAGAACTTGACTTCTTTGAGATCCTTCGATT
GTTTTTCTGTGATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAGTGGATTACAG
GAGGTGGCAGAACAGTTAGAGCTGGAACGGATAGGACCACAACATCAGGCAGGATCTGATTATTGCTCA
CAGGAATGGCCTTTTTCAAATGAGAGAAATGTTCTTTGAAGATCATATTGATGATGCCAAATATTGTGG
TCATTTGATGGCCTTGGTTCTGGTTCATCCTATGTACAGAATGGCACAGGGAATGCATATGAAGAGGAA
GCCAACAAAGCAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209293 protein sequence
Red=Cloning site Green=Tags(s)

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNYVAMDTEFPGVVARPIGEFRSNADYQYQLLRNVN
 LLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEGIETQYFAELL
 MTSGVVLCEGVKWL SFHSGYDFGYLIKILTNSNLP EEE LDFFEILRLFFPVIYDVKYLKMSCKNLKGLQ
 EVAEQLELERIGPQH QAGSDSLLTGMAFFKMREMF FEDHIDDAKYCGHLYGLGSGSSYVQNGTGNAYEEE
 ANKQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6529_d09.zip

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

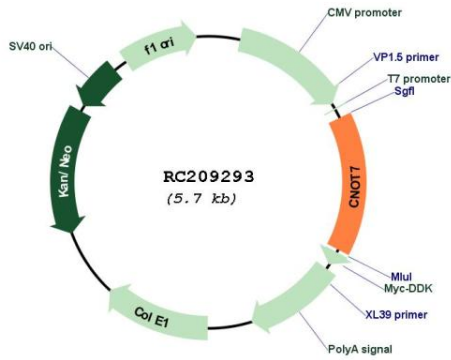
Protein Families: Transcription Factors

Protein Pathways: RNA degradation

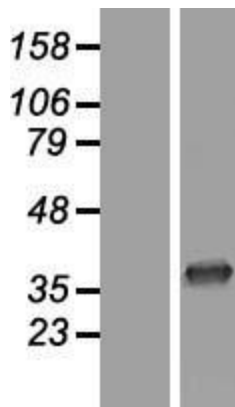
MW: 32.7 kDa

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]

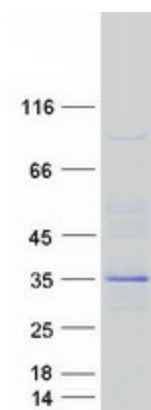
Product images:



Circular map for RC209293



Western blot validation of overexpression lysate (Cat# [LY415657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNOT7 protein (Cat# [TP309293]). The protein was produced from HEK293T cells transfected with CNOT7 cDNA clone (Cat# RC209293) using MegaTran 2.0 (Cat# [TT210002]).