

Product datasheet for RC224954

CNOT7 (NM_054026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT7 (NM_054026) 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:	>RC224954 representing NM_054026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCGGCAACTGTAGATCATAGCCAAAGAATTTGTGAAGTTTGGGCTTGCAACTTGGATGAAGAGA
TGAAGAAAATTCGTCAAGTTATCCGAAAATATAATTACGTTGCTATGGACACCGAGTTCCAGGTGTGGT
TGCAAGACCCATTGGAGAATTCAGGAGCAATGCTGACTATCAATACCAACTATTGCGGTGTAATGTAGAC
TTGTTAAAGATAATTCAGCTAGGACTGACATTTATGAATGAGCAAGGAGAATACCCTCCAGGAACCTCAA
CTTGCCAGTTTAAATTTAAATTTAATTTGACGGAGGACATGTATGCCAGGACTCTATAGAGCTACTAAC
AACATCTGGTATCCAGTTTAAAAACATGAGGAGGAAGGAATTGAAACCCAGTACTTTGCAGAACTCTT
ATGACTTCTGGAGTGGTCTCTGTGAAGGGTCAAATGTTGTCATTTTCATAGCGTTACGACTTTGGCT
ACTTAATCAAAATCCTAACCACTCTAACTTGCCTGAAGAAGAACTTGACTTCTTTGAGATCCTTCGATT
GTTTTTCTGTGATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAGTTGATTACAG
GAGGTGGCAGAACAGTTAGAGCTGGAACGGATAGGACCACAACATCAGGCAGGATCTGATTCATTGCTCA
CAGGAATGGCCTTTTTCAAATGAGAGAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224954 representing NM_054026
 Red=Cloning site Green=Tags(s)

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNYVAMDTEFPGVVARPIGEFRSNADYQYQLLRNVN
 LLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEGIETQYFAELL
 MTSGVVLCEGVKWL SFHSGYDFGYLIKILTNSNLP EEELDFEILRLFFPVIYDVKYLKMSCKNLKGLQ
 EVAEQLELERIGPQHAGSDSLLTGM AFFKMREV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1470_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_054026

ORF Size: 732 bp

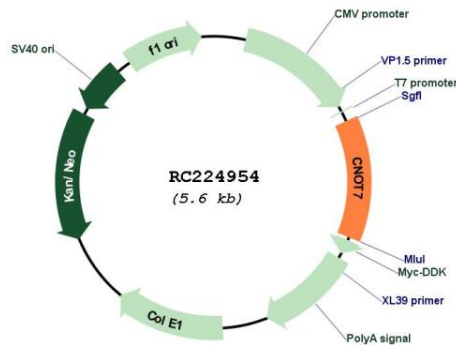
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

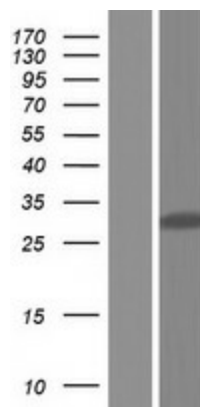
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_054026.3 , NP_473367.2
RefSeq Size:	1942 bp
RefSeq ORF:	735 bp
Locus ID:	29883
UniProt ID:	Q9UIV1
Cytogenetics:	8p22
Domains:	CAF1
Protein Families:	Transcription Factors
Protein Pathways:	RNA degradation
MW:	28 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC224954



Western blot validation of overexpression lysate (Cat# [LY409310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224954 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).