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Product datasheet for RC235863

CNOT8 (NM_001301086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT8 (NM_001301086) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNOT8
Synonyms:	CAF1; Caf1b; CALIF; hCAF1; POP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235863 representing NM_001301086 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTAAAGTTGCTTACAGATTCTCGTTTGCCAGAAGAGGAACATGAATTCTTTCATATTCTGAACCTTT TCTTCCCATCCATTTATGATGTGAAATACCTGATGAAGAGCTGCAAAAATCTTAAGGGAGGTCTTCAGGA AGTTGCTGATCAGTTGGATTTGCAGAGGATTGGAAGGCAGCACCAGGCAGGCTCAGACTCACTGCTGACA GGAATGGCTTTCTTTAGGATGAAAGAGTTGTTTTTTGAGGACAGCATTGATGATGCCAAGTACTGTGGGC GGCTCTATGGCTTAGGCACAGGAGTGGCCCAGAAGCAGAATGAGGATGTGGACTCTGCCCAGGAGAAGAT GAGCATCCTGGCGATTATCAACAACATGCAGCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC235863 representing NM_001301086 Red=Cloning site Green=Tags(s) MVKLLTDSRLPEEEHEFFHILNLFFPSIYDVKYLMKSCKNLKGGLQEVADQLDLQRIGRQHQAGSDSLLT GMAFFRMKELFFEDSIDDAKYCGRLYGLGTGVAQKQNEDVDSAQEKMSILAIINNMQQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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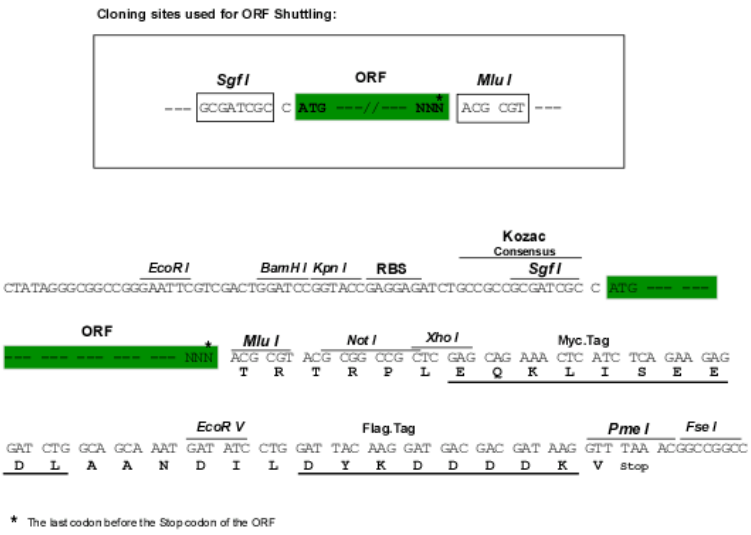
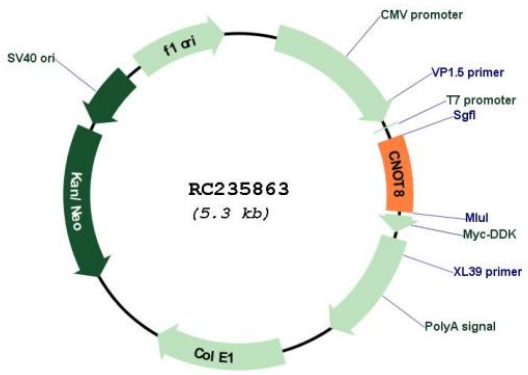
Cloning Scheme:



Plasmid Map:



ACCN: NM_001301086

ORF Size: 384 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_001301086.2
RefSeq Size:	2270 bp
RefSeq ORF:	387 bp
Locus ID:	9337
UniProt ID:	Q9UFF9
Cytogenetics:	5q33.2
Protein Families:	Transcription Factors
Protein Pathways:	RNA degradation
MW:	15.1 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]