

Product datasheet for **RC218701**

CRTC3 (NM_001042574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRTC3 (NM_001042574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRTC3
Synonyms:	TORC-3; TORC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC218701 representing NM_001042574
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCCGCTCGCCGGGCTCGGGCAGCGCAACCCGCGGAAGTTCAGTGAGAAGATCGCGCTGCACACGC
 AGAGACAGGCCGAGGAGACGCGGCCTTCGAGCAGCTCATGACCGACCTACCCTGTGCGGGTTCAATT
 TCAGAAGCTTCAGCAACTGCGCCTTACACAGTACCATGGAGGATCCTTACCAATGTGAGCCAGCTGCGG
 AGCAGTGCGTCAGAGTTTCAGCCGTATTTACCAAGCTGATAATGTTGCGGGAACCCGCCATCACGGGC
 TGGTGGAGAGGCCATCCAGGAACCGCTTCCACCCCTCCACGAAGGTCTGGGACAAGCCAGGGCGACA
 ATTTGATGGTAGTGCTTTGGAGCCAATTATTCCTCACAGCCTCTGGATGAGAGTTGGCAAGGCAGCAG
 CCTCTTGAAAGACGAAAGCATCCTGGGTTGAGGCTGACATCTGCACTTAACAGGACCAATTCTGATT
 CTGCTCTTCACAGAGTGCTCTGAGTACCAAGCCCCAGGACCCCTATGGAGGAGGGGCCAGTCGGCCTG
 GCCTGCCCATACATGGGTTTCTGTGATGGTGAAGAATAATGGACATGGGGAAGTAGCATCTTTCCCTGGC
 CCATTGAAAGAAGAGAATCTGTAAATGTTCCGAAGCCACTGCCAAAACAACTGTGGGAGACCAAGGAGA
 TTCAGTCCCTGTGAGGACGCCCTCGATCCTGTGATGTTGGAGGTGGCAATGCTTTCCACATAATGGTCA
 AAACCTAGGCCTCTCACCTTCTTGGGGACCTGAACACTGGAGGGTCATTGCCAGATCTAACCAACCTC
 CACTACTCGACACCCCTGCCAGCCTCCCTGGACACCAACGACCACTTTGGCAGTATGAGTGTGGGGA
 ATAGTGTGAACAACATCCAGCTGCTATGACCCACCTGGGTATAAGAAGCTCCTCTGGTCTCCAGAGTTC
 TCGGAGTAACCCCTCCATCCAAGCCACGCTCAATAAGACTGTGCTTCTCTTCTTAAATAACCAACCA
 CAGACATCTGTTCCCAACGCATCTGCTCTTACCCCTCGCTCCGTCTGTTTTCCCTTAGCAACCCATCTC
 TTTCCACCACAAACCTGAGCGGCCCGTCTCGGCGTCGGCAGCCTCCCGTCAGCCCTCTCAGCTTTCTCC
 TGGCCCTGAAGCACATCAAGGTTTCAGCAGACAGCTGTCTTCAACCAGCCCACTGGCCCATATCCTACC
 TCCAGATGGTGTCTCAGACCGAAGCCAATTTCTTTCTGCCACAGAAGCTCAAGCCAGGTGTGCG
 CGCCACCCCTTACCCTGCACCCAGGAGCTCACCCAGCCCTCCTGCAGCAGCCCCGCGCCCTGAGGC
 CCCTGCCAGCAGCCCCAGGAGCCTCCTCACTGCCACAGTCAGACTTTCAGTTCTCCCGGCCAGGGC
 TCATCTTTGACCAACTTCTTCCAGATGTGGTTTTGACCAGCAGTCCATGAGGCCAGGCCCTGCCTTTC
 CTCAACAGGTGCCTCTGGTGCAACAAGGTCCCGAGAAGTGCAGGACTCTTTTCATTGAGACCAAGCCC
 GTATTCCAAGTGCAGGAGTCTCCGAACACCATCTGCCAGACTCCAGCACCAGCCTGTTCAAAGACCTC
 AACAGTGCCTGCGAGGCTGCCTGAGGTGAGCCTGAACGTGGACACTCCATTTCACTGGAAGAGGAGC
 TGCAATTGAACCCCTGAGCCTGGACGACTCAACATGTTAAGTACTCCAGCATGGGCCTGCTGGACCC
 CTCTGTTGAAGAGACGTTTCGAGCTGACAGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218701 representing NM_001042574
 Red=Cloning site Green=Tags(s)

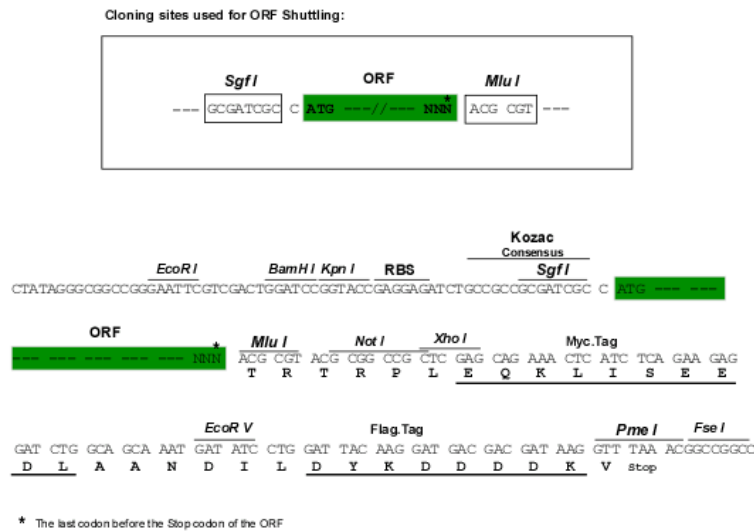
MAASPGSGSANPRKFSEKIALHTQRQAEETRAFEQLMTDLTL SRVQFQKLQQLRLTQYHGGSLPNVSQRLR
 SSASEFQPSFHQADNVRGTRHHGLVERPSRNRFHPLHRRSGDKPGRQFDGSAFGANYSSQPLDESWPRQQ
 PPWKDEKHPGFRLTSALNRTNSDSALHTSALSTKPQDPYGGGQSAWPAPYMGFCDEGNNHGHGEVASFP
 PLKEENLLNVPKPLPKQLWETKEIQSLSGRPRSCDVGGNAFPHNGQNLGLSPFLGTLNTGGSLPDLTNL
 HYSTPLPASLDTTDHFGSMVGNVNNIPAAMTHLGIRSSSLQSSRSNPSIQATLNKTVLSSSLNNHP
 QTSVNPASALHPSLRLFSLSNPSLSTTNLSGSPRRRQPPVSPLTSPGPEAHQGF SRQLSSTSPLAPYPT
 SQMVSSDRSQLSFLPTEAQAQVSPPPYPAPQELTQPLLQQPRAPEAPAQQPQAASSLPQSDFQLLPAQG
 SSLTNFFPDVGFDDQSMRGPAPFPQVPLVQQGSRELQDSFHLRSPYSNCGSLPNTILPDSSTSLFKDL
 NSALAGLPEVSLNVDPFPFLEEELQIEPLSLDGLNMLSDSSMGLLDPSVEETFRADRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8069_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042574

ORF Size: 1854 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

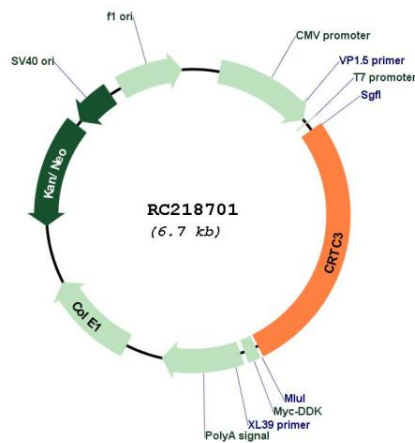
RefSeq: [NM_001042574.3](#)

RefSeq Size: 5168 bp

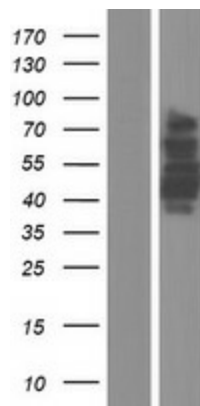
RefSeq ORF: 1857 bp
 Locus ID: 64784
 UniProt ID: [Q6UUV7](#)
 Cytogenetics: 15q26.1
 MW: 66.6 kDa

Gene Summary: This gene is a member of the CREB regulated transcription coactivator gene family. This family regulates CREB-dependent gene transcription in a phosphorylation-independent manner and may be selective for cAMP-responsive genes. The protein encoded by this gene may induce mitochondrial biogenesis and attenuate catecholamine signaling in adipose tissue. A translocation event between this gene and Notch coactivator mastermind-like gene 2, which results in a fusion protein, has been reported in mucoepidermoid carcinomas. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC218701



Western blot validation of overexpression lysate (Cat# [LY420987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218701 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).