

Product datasheet for **RN210377**

Crtc2 (NM_001033895) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crtc2 (NM_001033895) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Crtc2
Synonyms:	RGD1308903; Torc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210377 representing NM_001033895
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACGT CAGGGCGAACGGCCGGTTCCGCCACAGCCTCGGCGTCCAATCCACGCAAGTTTAGTG
 AAAAGATCGCGCTGCAGAAGCAGCGTCAGGCCGAGGAGACGGCGCCTTTGAGGAGGTGATGATGGACAT
 CGGCTCCACTCGGTTACAGGCCAAAAGCTGCGACTGGCTTATACAAGGAGCTCCATTATGGTGGTTCT
 CTGCCAATGTTAACCAGATTGGCTGTGGCTGGCTGAGTTCCAGAGCCCCCTTCATTACCTTTGGATT
 CATCTCGGAGCACTCGGCACCATGGATTGGTGGAAACGGGTACAACGAGACCCTCGCAGAATGGTGTCCCC
 ACTCCGCCGATACCCCGCCACATTGACAGTTCCTCCATAGCCCTGCCTACTTATCTCTCCCCCTGAG
 TCTGGCTGGCGAAGGATGATGCCCTGGGGCAACCTCCAGCTGAGAAGGGGCAGTTGTTTAGACTGCCAT
 CTGCACCTAACAGGACAAGCTCTGACTCTGCTCTTACACAAGTGTGATGAACCTAACCCCAAGACAC
 TTATCCAGGCCCTACACCTCCAGTGTCTGCCCAGCCGGCGAGGAGTTTTCTGGATGGCGAGATGGAT
 GCTAAAGTCCCTGCTATTGAGGAGAACTTGGTAGATGACAAGCATTGCTGAAACCTTGGGATGCTAAGA
 AGCTGTCTCATCTTCTCTCGACCTCGATCTGTGAAGTCCCTGGAATCAACATCTTCCATCTCTGA
 CCAGCCTGCTAATGTGCCTGTCTCCACCTGCCATGAGCACAGGGGGCTCCCTACCTGACCTCACCAAC
 CTACACTTCCCCCTCCACTGCCACGCCCTGGACCCTGAGGAGACAGTCTATCCAGCCTGAGTGGGG
 GCAACAGTACCACCAATTTGACTCACACTATGACCATTGGGCATCAGTGGAGGTCTGGCTTGGGCC
 CAGCTATGATGTACCAGACTTCACTCACCTCTTAGCCACCCGTCCCTGCAGTCTCCCTAAGCAATCCC
 AACCTCCAGGCTTCCCTAAGCAGTCTCAGCCCCAGCTCCAGGGCTCCCATAGTCACCCATCACTGCCTG
 CCTCTCCTTGGCCACCATGCACTGCCACCACCTCCCTGGGCCACCCGTCACTTAGTGGCCAGCCCT
 TTCTCTCTCTTCTCTTCTCGTCCACTTCATCTCCTGTCTGAGTGGCCCCCTTACCCAGCTTCTACT
 CCTGGGGCTCTCCCGCCACCGTGTGTGCCCTCAGCCCCCTGAGCTTGCCTGCAGGCCAGCCGACG
 CCAGAAGTCCCAACAGCAGCTGCCAAACAGTTTTCGCCAACAATGTCACCCACCTTGTCTTCCATCAC
 TCAGGGCGTCCCCTGGATACCAGTAACTGCCTACTGACCAGCGATTGCCCCCATACCCATATAGCCCC
 CCAAGTCTAGTTATACCCAGCCATCCACCACCCCAAAGTCTCTACAGCAGTTGCCCTCTCAGGCCCTGCT
 TAGTACAGCCCTCAGGTGGACAGCCTCCAGGCAGGCAGCCACATTATGGGACACTGTACCCACCTGGGTC
 CAGTGGACATGGCAACAGCCTTACCACCGCCCAATAAATGACTTCAGCCTGGGGAATCTGGAGCAATTC
 AACATGGAGAGCCCATCTACCAGCTGGTGTGGATCCCCTGCCTTTTCTGAAGTCTGGATTTTTAG
 GGAGTGGAGGATCAGTGAGTGGCCCCAGGACTCTCATGCTCAATCACCAGAAGTGGACCCACTGTTCC
 CGCCATGGCTCAGGACCTAATATCATACTCACAGGAGACTTCCCCAGTTTTCTAAGGAGATTGCA
 GCAGCCCTGGCTGGAGTACCTGGCTTTGAGGTGTGAGCATCTGGGTTGGAGCTGGGACTGGGGCTGGAAG
 ATGAGTTGCGCATGGAGCCACTGGGCTGGAAGGACTAACCATGCTGAGTGACCTTGTGCTCTGCTGCC
 TGACCCTGCTGTGGAAGACTCATTCCGTAGTGATCGGCTACAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033895
Insert Size: 2076 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_001033895.1</u> , <u>NP_001029067.1</u>
RefSeq Size:	2076 bp
RefSeq ORF:	2076 bp
Locus ID:	310615
UniProt ID:	<u>Q3LRZ1</u>
Cytogenetics:	2q34
Gene Summary:	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. Regulates the expression of specific genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells (By similarity). [UniProtKB/Swiss-Prot Function]