

Product datasheet for **MC204255**

Crtc2 (NM_028881) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crtc2 (NM_028881) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crtc2
Synonyms:	4632407F12Rik; mTORC2; Torc2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC023831
 CCACGCGTCCGCTCGCGGAGCGGCGGGCTGCTGCTAAGGCTGAAGGAGCCGGGCCGGGCCCGCGGCA
 GAGGCCGTGGCTGGAAGTGGGAAGTGGCGGGGACGGACGCGGGGTAAGATGGCGACGTCAGGGGCGAA
 CGGGCCGGGTTCCGCCACAGCCTCAGCGTCCAATCCACGCAAGTTTGTGAGAAGATTGCGCTGCAGAAG
 CAGCGTCAGGCCGAGGAGACGGCGGCCCTTCGAGGAGGTGATGATGGACATCGGCTCCACACGGTTACAGG
 CCCAAAACTGCGACTGGCTTATACAAGGAGCTCCCATTATGGTGGTTCTCTGCCAATGTTAACCGAT
 TGGCTGTGGCTGGCTGAGTCCAGAGCCCCCTCACTCACCTTGGATTATCTCGGAGCACTCGGCAC
 CATGGGTTGGTGGAACGGGTACAACGAGATGCCCGCAGAATGGTGTCCCACTCCGCCGATACCCCGCC
 ACATTGACAGTTCTCCATATAGCCCTGCCTATTTATCTCCTCCCCAGAGTCTGGCTGGCGAAGGATGAT
 GCCCTGGGGCAACCTCCCAGCTGAGAAGGGGAGTGTGTTAGACTGCCGTCTGCACTTAACAGGACAAGC
 TCTGACTCTGCTTTCACACAAGTGTGATGAACCTAACCSCCAAGACACTTATCCAGGCCCCACACCTC
 CCAGTGTCTGCCAGCCGCCGAGGAGGAGTTTTCTGGATGGTGGATGGATGCTAAAGTCCCTGCTAT
 TGAGGAGAACGTGGTAGATGACAAGCATCTGCTGAAACCTGGGATGCTAAGAAGCTGCTCCTCATTTCC
 TCTCGACCTCGATCCTGTGAAGTCCCTGGAATCAACATCTTCCATCTCCTGACCAGCCTGCTAATGTGC
 CTGTCTCCACCTGCCATGAACACAGGAGGCTCCCTACCTGACCTCACCAACCTACACTCCCTCCTCC
 ACTGCCACACCCCTGGACCCCTGAGGAGACAGTCTATCCAGCCTGAGTGGGGGCAACAGTACCACCAAT
 TTGACCCATACTATGACCCATTTGGGCATCAGTGGAGGTCTGGGCTTGGGCCCCAGCTATGATGTACCAG
 GACTTCACTCACCTTTAGCCACCCATCCCTGCAGTCTCCCTAAGCAATCCCAACCTCCAGGCTTCCCT
 AAGTAGTCTCAACCCAGCTCCAGGGCTCCCATAGTCAACCCATCACTGCCTGCCCTCCTCTGGCCAC
 CATGCACTGCCACACCTCCCTGGGCCACCCGTCCTTACTGAGTGGCCAGCCCTTCTCCTCCTCTTCT
 CTTGTCCTCACTTCTCCTGTCTGAGTGTCCCCCTTACCCAGCTTCTACTCTGGGGCTCTCCCCG
 CCACCGTGTGTGCCCTCAGCCCCCTGAGCTTGGCCGGGGCCAGCCGACGCCAGAAGTCCCAACAG
 CAGTGGCCAAACAGTTTTGCCAAACAATGTACCCACCTTGTCTTCCATCACTCAGGGCGTTCCCTTGG
 ATACAGTAAATTGCTACTGACCAGCGATTGCCCCCATACCCATATAGCCCCCAAGTCTAGTTATACC
 CACCCATCCACCCACCCAAAGTCTCTACAGCAGTTGCCCTCTCAGGCCTGCTTAGTGCAGCCCTCAGGT
 GGACAGCCTCCAGGCAGGCAGCCACATTATGGGGCACTGTACCCACCTGGGTCCAGTGGACATGGGCAAC
 AGCCTTACCACCGCCCAATAAATGACTTCACTTGGGGAATCTGGAGCAATTCAACATGGAGAGCCCATC
 AACCCAGCCTGGTCTGGATCCCCCTGCCTTTTCTGAAGTCTGGATTTTATAGGAGTGAGGGATCAATG
 AGTGGCCCCCAGGACCTCACGTCTCAACCACAGAACTTGACCCACTGTTCCCGCCATGGCTCAGGAC
 CTAATATCATACTCACAGGAGACTTCCCCAGGTTTCTCTAAGGAGATTGCAGCAGCCCTGGCTGGAGT
 GCCTGGCTTTGAGGTGTACAGCATCTGGGTTGGAGCTGGGCTGGGCTAGAAGATGAGCTGCGCATGGAG
 CCACTGGGCTGGAAGGACTAATATGTGAGTACCCTGTGCCCTGCTGCCTGACCCTGCTGTGGAGG
 ACTCATCCGTAGTGTGATCGGCTACAGTGGGGACCTCACTGCCATCCTTCTTATGGCCCTGTCCCATC
 AGTCTTATCCCTTCCCCTGGCCAGTAGAGACTACTCTGCCCCCAGATCCTTTTTCTAATATGAATG
 AAGGATCCTAAAAGTGGAAAGGGGAGGGGCTTGGCCAGGTGGCCCTGAATGTGTATGTCTGGTGGG
 CTTGGGGAAATCAAGGGAGGGCCTAAAAGCACTTGTAACTTTGAAAACCGTCTGTCTGGAGGTGAGGC
 CTGTTGGGAAGCAAGGTGTAGAGGAAATCTTGGAGAGAGGGCTGTCCAGAAGGGATGGGCACTACCAG
 CCCCTCCCTATTTCTTCCCCTTGAATGGAAGAGAGAGCCAGAATGGATATTTATTTTATTAATAT
 ATTATATGTTAATAAAAAATCCTATTAA

Restriction Sites: RsrII-NotI

ACCN: NM_028881

Insert Size: 2079 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:

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: [BC023831](#), [AAH23831](#)

RefSeq Size: 2675 bp

RefSeq ORF: 2079 bp

Locus ID: 74343

UniProt ID: [Q3U182](#)

Cytogenetics: 3 F1

Gene Summary: Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites (PubMed:29211348). Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated (PubMed:29211348). 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]