

Product datasheet for **RN203978**

Crtc1 (NM_001047115) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crtc1 (NM_001047115) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Crtc1
Synonyms:	Mect1; TORC-1; TORC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN203978 representing NM_001047115
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTTCGAACAATCCGCGGAAATTTAGCGAGAAGATCGCACTGCACAACCAGAAGCAGGCGGAGG
 AGACGGCGGCCTTCGAGGAGGTCATGAAGGACCTGAGCCTGACGCGAGCCGCGCGGCTTCAACTGCAGAA
 GTCGCACTATCTCCAACCTGGGCCCCAGCCGTGGTCACTACTATGGCGGGTCCCTGCCCAACGTGAACCA
 ATTGGAAGTAGCAGCATGGACCTCTCCTCCAGACCCCTTTTCAGTCTCAGGCCTGGACACCAGTCCGA
 CCACACGACATCATGGGCTTGTGGACAGAGTATATCGTGAGCGTGGCAGACTTGGCTCCCGCACCAGCCG
 TCCCTGTCACTAGACAAGCATGGGCGACAGGCCGACAGCTGCCCTATGGCACCCTGTACTCTCGCT
 CCTGCGGACACCAGTGGAGGAGCAACTCTGACTCTGCCCTGCACCAGACACAATGACACCCACCC
 AGGCAGAAATCCTTACAGGCGGGCCAGGATGCGCACCAGAAGAGAGTCTTACTGCTCACAGTCCAGG
 AATGGAGGAGACCGGATCCGAGACAGACAAGACCTTTCTAAGCAGTCAATGGGACTCAAAGAAGGCGGGT
 TCAGGCCCAAGTCTGCGAAGTCCCTGGAATCAACATCTTCCATCTGCAGACCAGGAGAACACAGCAG
 CCCTGATCCCTGTACCCACAACACAGGAGGCTCCCTTCTGACCTCAGCACCATCCACTTCCCCTCCCC
 ACTGCCGACCCCACTGGACCCCGAGGAGCTCCATTCCCTGCTCTACCAGCTCCGGCAGCACCAGGAGC
 CTGGCTCATCTAGGCGTTGGCGGCACAGGCCAGGGTATGAACACCCCAAGCTCTTCTCCACAGCGCCGGC
 CAGCAGTCGTAGCCCCCTGTCCCTGAGCACAGAGGCCAGGCGGCAGCAGGCCAGCAGGTGCCACCCAC
 CCTGTCTCCACTGTACCCATCACTCAGGCCGTGGCCATGGATGCCCTGTCTGGAGCAGCAGCTGCC
 TACGCCCTTCTCACCCAGGCGGCTCACAGCAGCCTCCCCCGAGCCCAAGCCACCCGCCCCACCTCCGC
 CTGTATCTCAACAGCAGCCACCACCCCAAGTGTCTGTGGGGTCCCCAGGGTGGCCACTGCTGCC
 CAGTGCCAGCCTGACTCGGGGGCCAGCTGCCACCCTCGCAGTCACTGTACCATCCACTTCCCCAG
 TCACCTACAGAGAGCCAGGCCAGCCACCAATGGGGATTGATGTACCTCGGCACCAGCTCTGCAGTACC
 GCACGGGTGCAGGGTACCAGCCACCCAGTCCCCACCTACCCGGTCTCCAACCAAGGCTTCTCCCCCG
 AAGCTCCCCACAGCACACGTCCACGCTGGGCGAGCGTGTGGGGATGCGTACTATGAGCAGCAGATGACA
 GCCAGGACAGGCAATGCTCTGTCCCGCAGCTGGAGCAGTTCAACATGATGGAAAATGCCATCAGCTCCA
 GCAGCCTGTACAACCCAGGTTCCACACTCACTACTCCCAGGCTGCCATGATGGGTCTGAGCGGGAGCCA
 CGGAGGCCCTCAGGACCCACAGCAACTCGGCTACGCAGGCCATGGCGGAATCCCCAACATCATCCTCACC
 GTGACAGGGGAGTACCCCGAGCCTCTAAGGAACTGAGCAGCACACTGGCAGGGGTGAGTGTCA
 GCTTTGATTCGGACCACAGTTTCCACTGGACGAGCTGAAAATTGATCCCCTGACCTGGACGGACTTCA
 TATGTTGAATGACCCTGACATGGTCTCGCTGACCAGCTACCGAGGACACCTTCCGAATGGACCGCCTG
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001047115
- Insert Size:** 1893 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: [NM_001047115.1](#), [NP_001040580.1](#)

RefSeq Size: 1893 bp

RefSeq ORF: 1893 bp

Locus ID: 684527

UniProt ID: [Q157S1](#)

Cytogenetics: 16p14

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 the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PGC1alpha and inducer of mitochondrial biogenesis in muscle cells (By similarity). In the hippocampus, involved in late-phase long-term potentiation (L-LTP) maintenance at the Schaffer collateral-CA1 synapses. May be required for dendritic growth of developing cortical neurons. In concert with SIK1, regulates the light-induced entrainment of the circadian clock. In response to light stimulus, coactivates the CREB-mediated transcription of PER1 which plays an important role in the photic entrainment of the circadian clock (By similarity).[UniProtKB/Swiss-Prot Function]