

## Product datasheet for **MC219955**

### **Crtc1 (NM\_001004062) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Crtc1 (NM_001004062) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crtc1
Synonyms:	AI413414; Mect1; mKIAA0616; R74955; TORC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC219955 representing NM\_001004062  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACTTCGAACAATCCGCGGAAATTTAGCGAGAAGATCGCACTGCACAACCAGAAGCAGGCGGAGG  
 AGACGGCGGCCTTCGAGGAGTCAATGAAGGACCTGAGCCTGACGCGGGCCGCGCGGCTTCAGCTGCAGAA  
 GTCCCACTACCTGCAGCTGGGCCCCAGCCGTGGCCAGTACTACGGTGGGTCCCTGCCCAACGTGAACCA  
 ATTGGAAGCAGCAGCGTGGACCTGGCCTTCAGACCCCATTTTCAGTCTCAGGCCTGGACACGAGTCGGA  
 CCACACGACATCATGGGCTTGTGGACAGAGTATATCGTGAGCGTGGCAGACTTGGCTCCCGCACCCTGC  
 ACCCTGTCACTAGACAAGCATGGGCGACAGGCTGACAGCTGCCCTATGGCACCCTGTACCTCTCGCT  
 CCTGCGGACACCAGCTGGAGGAGCAACTCTGACTCTGCCCTGCACCAGACACAATGACACCCAGCC  
 AGGCAGAGTCCTTACAGGCGGGTCCCAGGATGCGCACCAGAAGAGAGTCTTACTGCTAACTGTCCAGG  
 AATGGAGGACACCGGGGCTGAGACAGACAAGACCCCTTTCTAAGCAGTCATGGGACTCAAAGAAGGCGGGT  
 TCAGGCCCAAGTCTGTGAGGTCCCGGAATCAACATCTTCCGTCTGCAGACCAGGAGAACACAACAG  
 CCCTGATCCCTGCCACCCACAACACAGGGGGCTCCCTTCCCTGACCTCACCAACATCCACTTCCCCTCCCC  
 ACTCCCGACACCACTGGACCCTGAGGAGCTCCGTTCCCTGCTCTCACCAGCTCCAGCAGCACCAGGAGC  
 CTTGCACATCTGGGCGTTGGCGGCGCAGGCCAGGGTATGAACACCCCCAGCTCTTCTCCACAGCACCAGC  
 CAGCAGTCGTAGCCCCCTGTCCCTGAGCACAGAGGCCAGGCGGAGCAGGCCAGCAGGTTGACCCAC  
 CCTGTCTCCGTTGTACCCATCACTCAGGCCGTGGCTATGGATGCCCTGTCTTGGAGCAGCAGCTGCC  
 TATGCCTTCTTACCCAGACTGGCTCCCAGCAGCTCCCCACAGCCCCAGCCACCCTCCACCTCCAC  
 CGGTATCCAGCAGCAGCCACCCTCCACAGGTGTCTGTGGGCCTCCCCAGGGTGGTCCACTGCTGCC  
 CAGTGCACGCTGACTCGGGGGCCAGCTGCCACCACTCTCAGTACTGTACCATCCACTCTTCCCAG  
 TCCCTACAGAGAACCAGGCCAGTCAACCAATGGGGATCGATGCCACTTCGGCACCAGCTCTGCAGTACC  
 GCACGAGTGCAGGGTACCTGCCACCCAGTCTCCACCTCTCCGGTCTCCAACCAAGGCTTCTCCCCTGG  
 AAGCTCCCCACAGCACACGTCCACCCTGGGCGAGCTGTTTGGGGATGCGTACTATGAGCAGCAGATGACA  
 GCCAGGCAGGCCAATGCTCTGTCCCGCAGCTGGAGCAGTTCAACATGATGGAGAACGCCATCAGCTCCA  
 GCAGCCTATAACAACCCGGGCTCCACACTCAACTATCCCAGGCTGCCATGATGGGTCTGAGCGGGAGCCA  
 CGGGGGCTACAGGACCCGACGAGCTCGGCTACACAGGCCACGGTGAATCCCCAACATCATCCTCAGC  
 GTGACAGGAGAGTACCACCGAGCTCTCTAAGGAAGTACAGCAGCAGTGGCAGGAGTCACTGATGTCA  
 GCTTTGATTAGACCATCAGTTTCCACTGGACGAGCTGAAGATTGACCCTCTGACCCTGGACGGACTCCA  
 TATGTTGAATGACCCAGACATGGTTTTAGCCGACCCAGCCACCGAGGACACCTTCCGAATGGACCGCCTG  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001004062
- 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\\_001004062.2](#), [NP\\_001004062.1](#)

**RefSeq Size:** 5674 bp

**RefSeq ORF:** 1893 bp

**Locus ID:** 382056

**UniProt ID:** [Q68ED7](#)

**Cytogenetics:** 8 B3.3

**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 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.[UniProtKB/Swiss-Prot Function]