

## Product datasheet for TP509600

### Crtc1 (NM\_001004062) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse CREB regulated transcription coactivator 1 (Crtc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209600 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MATSNNPRKFSEKIALHNQKQAEETAAFEVEMKDSLTRAARLQLQKSQYLQLGPSRGQYYGGSLPNVNQ  
IGSSVDLAFQTPFQSSGLDTSRTTRHHGLVDRVYRERGRGSPHRRPLSVDKHGRQADSCPYGTVYLS  
PADTSWRRNTSDSALHQSTMTPSQAESFTGGSQDAHQKRVLLLTVPGMEDTGAETDKTLSKQSWDSKKAG  
SRPKSCEVPGINIFPSADQENTTALIPATHNTGGSLPDLTNIHFPSPLPTPLDPEEPPFPALTSSSSTGS  
LAHLGVGGAGQGMNTPSSSPQHRPAVSPSLSTEARRQQAQQVSPTLSPLSPITQAVAMDALSLEQQLP  
YAFFTQTGSQQPPPPQPPPPPPVSVQQPPPPQVSVGLPQGGPLLPSASLTRGPQLPPLSVTPSTLPQ  
SPTENPGQSPMGIDATSAPALQYRTSAGSPATQSPTSPVSNQGFSPGSSPQHTSTLGSVFGDAYYEQQMT  
ARQANALSRQLEQFNMMENAISSSSLYNPGSTLNYSQAAMMGLSGSHGGLQDPQQLGYTGHHGIPNIILT  
VTGESPPSLSKELSSTLAGVSDVSDHQPFLDELKIDPLTLDGLHMLNDPDMVLADPATEDTFRMDRL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	66.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_001004062](#)

Locus ID: 382056

UniProt ID: [Q68ED7](#)

RefSeq Size: 5674

Cytogenetics: 8 B3.3

RefSeq ORF: 1893

Synonyms: AI413414; Mect1; mKIAA0616; R74955; TORC1

**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]