

Product datasheet for **SC316412**

TORC1 (CRTC1) (NM_001098482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TORC1 (CRTC1) (NM_001098482) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRTC1
Synonyms:	Mam-2; MAML2; MECT1; TORC-1; TORC1; WAMTP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

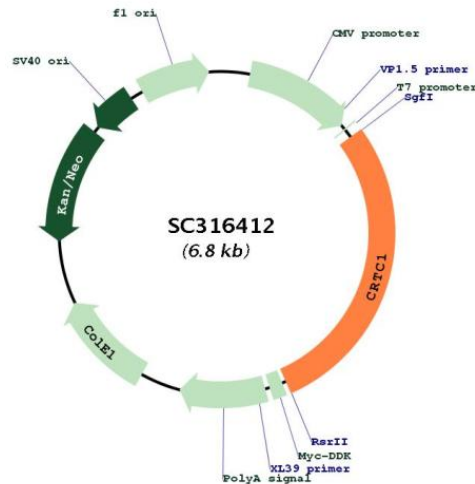


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Fully Sequenced ORF: >SC316412 representing NM_001098482.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGACTTCGAACAATCCGCGGAAATTCAGCGAGAAGATCGCGCTGCACAATCAGAAGCAGGCGGAG
GAGACGGCGGCCCTTCGAGGAGGTACATGAAGGACCTGAGCCTGACGCGGGCCGCGCGCTCCAGTCCAG
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ACCTCGACGGACTGCACATGCTCAACGACCCGACATGGTTCTGGCCGACCCAGCCACCGAGGACACC
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

Plasmid Map:


ACCN: NM_001098482

Insert Size: 1953 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001098482.1](#)

RefSeq Size: 7009 bp

RefSeq ORF: 1953 bp

Locus ID: 23373

UniProt ID: [Q6UUV9](#)

Cytogenetics: 19p13.11

Protein Families: Transcription Factors

MW: 68.8 kDa

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. 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 (By similarity). 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]

Transcript Variant: This variant (3) includes an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is longer than isoform 1.