

Product datasheet for **SC322568**

TORC1 (CRTC1) (NM_015321) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TORC1 (CRTC1) (NM_015321) Human Untagged Clone
Tag:	Tag Free
Symbol:	TORC1
Synonyms:	Mam-2; MAML2; MECT1; TORC-1; TORC1; WAMTP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322568
 CCACGCGTCCGGGCGAGAAGATGGCGACTTCGAACAATCCGCGGAAATTCAGCGAGAAGA
 TCGCGCTGCACAATCAGAAGCAGGCGGAGGAGACGGCGGCCTTCGAGGAGGTCATGAAGG
 ACCTGAGCCTGACGCGGGCCGCGCGGCTCCAGCTCCAGAAATCCCAGTACCTGCAACTGG
 GCCCAGCCGAGGCCAGTACTATGGCGGGTCCCTGCCAACGTGAACCAGATCGGGAGTG
 GCACCATGGACCTGCCCTTCCAGACCCCTTCCAATCCTCGGGCCTGGACACCAGCCGGA
 CCACCCGGCACCATGGGCTGGTGGACAGGGTGTACCGGGAGCGTGGCCGGCTCGGCTCCC
 CACACCGCCGGCCCTGTCAAGTGGACAAACACGGACGGCAGGCCGACAGCTGCCCTATG
 GCACCATGTACCTCTACCACCCGCGGACACCAGCTGGAGAAGGACCAATTCTGACTCCG
 CCCTGCACCAGAGCAAAATGACGCCACGCAGCCAGAATCCTTTAGCAGTGGGTCCCAGG
 ACGTGCACCAGAAAAGAGTCTTACTGTTAACAGTCCCAGGAATGGAAGAGACCACATCAG
 AGGCAGACAAAACCTTTCCAAGCAAGCATGGGACACCAAGAAGACGGGGTCCAGGCCCA
 AGTCTGTGAGGTCCCCGGAATCAACATCTTCCCGTCTGCCGACCAGGAAAACACTACAG
 CCCTGATCCCCGCCACCCACAACACAGGGGGTCCCTGCCCGACCTGACCAACATCCACT
 TCCCTCCCCGCTCCCGACCCCGTGGACCCCGAGGAGCCACCTTCCCTGCACTGAGCA
 GCTCCAGCAGCACCGGCAACCTCGCGGCAACCTGACGCACCTGGGCATCGGTGGCGCCG
 GCCAGGGAATGAGCACACCTGGCTCCTCTCCACAGCACCCGCCAGCTGGCGTCAGCCCC
 TGTCCCTGAGCACAGAGGCAAGGCGTCAGCAGGCATCGCCCGCCTGTCCCCGCTGTAC
 CCATCACTCAGGCTGTAGCCATGGACGCCCTGTCTCTGGAGCAGCAGTGCCTACGCT
 TCTTACCAGGCGGGCTCCCAGCAGCCACCGCCGAGCCCGAGCCCGCCGCTCCTC
 CACCCGCTCCCAGCAGCCACCACCCCGCCACCCACAGGCGCCCGTCCGCTGCCCC
 CTGGTGGCCCCCTGTTGCCAGCGCCAGCTGACTCGTGGGCCACAGCCGCCCGCTTG
 CAGTCACGGTACCGTCTCTCTCCCCAGTCCCCCAGAGAACCCTGGCCAGCCATCGA
 TGGGGATCGACATCGCCTCGGCGCCGCTCTGCAGCAGTACCGCACTAGCGCCGGTCCC
 CGGCAACCAGTCTCCACCTCGCCAGTCTCAAATCAAGGCTTCTCCCCAGGGAGCTCCC
 CGCAACACACTTCCACCCTGGGAGCGTGTGGGGACGCGTACTATGAGCAGCAGATGG
 CGGCCAGGCAAGCAATGCTCTGTCCCACAGCTGGAGCAGTTCAACATGATGGAGAAG
 CCATCAGCTCCAGCAGCTGTACAGCCCGGCTCCACACTCACTACTCGCAGGCGGCCA
 TGATGGGCTCACGGGACGCCACGGGAGCTGCCGACTCGCAGCAACTGGGATACGCCA
 GCCACAGTGGCATCCCCAACATCATCCTCACAGTGACAGGAGAGTCCCCCCCAGCTCT
 CTAAGAAGTACAGCTCTCTGGCCGGGTGGCGGAGTCCGACTCCGACAGCC
 AGTTTCCCTGGACGAATCAAGATCGACCCCTGACCTCGACGACTGCACATGCTCA
 ACGACCCGACATGGTTCTGGCCGACCCAGCCACCGAGGACACCTTCCGGATGGACCGCC
 TGTGAGCGGGACGCGCGCACCTGCCGCTCAGCCGTCCCAGCGGCGCTCCCCAGCCCG
 GGGACGGCCGTGCTCCGTCCCTCGCCAACGGCCGAGCTTGTGATTCTGAGCTTGAATGC
 CGCCAAGCGCCCCCGCCAGCCCGCCCGGTTGTCCACTCCCAGCAAGCCCAATCGCG
 AGGCCGAGCGGGCCGTCCACCCACCCGCGCCAGGGCTGGGCTGGGATCGGAGGC
 CGTGAGCCTCCCAGCCCTGCAGACCTCCCTGCACTGGCTCCCTCGCCCCAGCCCGGG
 CCCTGAGCCGTCCCTGTAAGATGCGGGAAGTGTGAGTCCCGGCGTGGCGGGCAGGCTC
 AGGGGAGGGGCGCGCATGGTCCGCCAGGCTGTGGCCGTGGCGCATTTTCCGACTGTTT
 GTCCAGCTCTACTGCCTTCCCTGGTTCCCGTCCCCAGCCATCCGCCATCCCAGCC
 CGTGGTCAAGTAGAGAGTGGCCCCAGCCCGCCAGGGAGGAGGCGCCAGAGCGCGGG
 CAGACGCAAGTGAAATAAACACTATTTTGAIAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_015321

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:	<ol style="list-style-type: none">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_015321.1 , NP_056136.1
RefSeq Size:	2505 bp
RefSeq ORF:	1905 bp
Locus ID:	23373
UniProt ID:	Q6UUV9
Cytogenetics:	19p13.11
Protein Families:	Transcription Factors
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1).</p>