

Product datasheet for **SC107319**

TORC2 (CRTC2) (NM_181715) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TORC2 (CRTC2) (NM_181715) Human Untagged Clone
Tag:	Tag Free
Symbol:	TORC2
Synonyms:	TORC-2; TORC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC107319 sequence for NM_181715 edited (data generated by NextGen Sequencing)

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ATGGCGACGTCGGGGGCGAACGGGCCTGGTTCGGCCACGGCCTCGGCTTCCAATCCGCGC
AAATTTAGTGAGAAGATTGCGCTGCAGAAGCAGCGTCAGGCCGAGGAGACGGCGGCCTTC
GAGGAGGTGATGATGGACATCGGCTCCACCCGGTTACAGGCCAAAACTGCGACTGGCA
TACACAAGGAGCTCTCATTATGGTGGTCTCTGCCAATGTTAACCAGATTGGCTCTGGC
CTGGCCGAGTTCCAGAGCCCCCTCCACTCACCTTTGGATTATCTCGGAGCACTCGGCAC
CATGGGCTGGTGGAACGGGTGCAGCGAGATCCTCGAAGAATGGTGTCCCACTTCGCCGA
TACACCCGCCACATTGACAGCTCTCCCTATAGTCTGCCTACTTATCTCCTCCCCAGAG
TCTAGCTGGCGAAGGACGGTGGCCTGGGCAATTTCCCTGCAGAGAAGGGGCAGTTGTTT
CGACTACCATCTGCATTAACAGGACAAGCTCTGACTCTGCCCTTCATACAAGTGTGATG
AACCCAGTCCCCAGGATACCTACCCAGGCCACACCTCCAGCATCCTGCCAGCCGA
CGTGGGGTATTCTGGATGGTGAATGGACCCAAAGTACCTGCTATTGAGGAGAACTTG
CTAGATGACAAGCATTGCTGAAGCCATGGGATGCTAAGAAGCTATCCTCATCCTCTCC
CGACCTCGGTCTGTGAAGTCCCTGGAATTAACATCTTTCCATCTCCTGACCAGCCTGCC
AATGTGCCTGTCTCCCACTGCCATGAACACGGGGGGCTCCCTACCTGACCTCACCAAC
CTGCATTTCCCCACCCTGCCACCCCTGGACCCTGAAGAGACAGCCTACCCTAGC
CTGAGTGGGGGCAACAGTACCTCCAATTTGACCCACACCATGACTCACCTGGGCATCAGC
AGGGGCATGGGCCTGGGCCAGGCTATGATGCACCAGGACTTCATTACCTCTCAGCCAC
CCATCCCTGCAGTCTCCCTAAGCAATCCCAACCTCCAGGCTTCCTGAGCAGTCTCAG
CCCCAGCTCAGGGCTCCACAGCCACCCTCTCTGCCTGCCTCCTCTGGCCGCCAT
GTACTGCCACCACCTCCCTGGGCCACCCTCACTCAGTGCTCCGGCTCTCTCCTCCTCC
TCTTCTCCTCCTCCACTTCATCTCCTGTTTTGGGCGCCCCCTTACCCTGCTTCTACC
CCTGGGGCTCCCCCACCCCGCGTGTGCCCTCAGCCCCCTGAGTTTGCTCGCGGGC
CCAGCCGACGCCAGAAGTCCCAACAGCAGCTGCCAAACAGTTTTCGCCAACAATGTCA
CCCACCTGTCTTCCATCACTCAGGGCGTCCCCCTGGATACCAGTAAACTGTCCACTGAC
CAGCGGTTACCCCATACCCATACAGCTCCCAAGTCTGGTTCTGCCTACCCAGCCCCAC
ACCCAAAGTCTCTACAGCAGCCAGGGCTGCCCTCTCAGTCTTGTTCAGTGCAGTCTCA
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CAGTTCAGCATGGAGAGCCATCAGCCAGCCTGGTGTGGATCCCCTGGCTTTTCTGAA
GGCCTGGATTTTAGGGGTGAGGGGCAATGGGTGGCCCCAGGATCCCCACACCTTC
AACCACAGAAGTGGACCACTGTTCCCGCATGGCTCAGGGCCTAACATCATCCTCACA
GGGACTCCTCTCCAGGTTTCTCTAAGGAGATTGCAGCAGCCCTGGCCGGAGTGCCTGGC
TTTGAGGTGTCAGCAGCTGGATTGGAGCTAGGGCTTGGGCTAGAAGATGAGCTGCGCATG
GAGCCACTGGGCCTGGAAGGGCTAAACATGCTGAGTGACCCCTGTGCCCTGTGCCTGAT
CCTGCTGTGGAGGAGTCATTCCGAGTGACCGGCTCCAATGA
    
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Clone variation with respect to NM_181715.2
439 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181715 unedited
 AAATATAACACCCGCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGNGAGGTCTAT
 ATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCG
 GCCGGAATTCGGCACGAGGCTGGGGCCGGGTTTCGCGGTGCTCGCTGAGGCGCGGTGGC
 TACGGCTGGAGGAGCCGGGCCGAGGCCGCGGAGGCCGCGGCTGGTACTGGGAGGGTG
 GCAGGGAGGACGGGAAGGAAGATGGCGACGTCGGGGCGAACGGGCCTGGTTCGGCCA
 CGGCCTCGGCTTCCAATCCGCGCAAATTTAGTGAGAAGATTGCGCTGCAGAAGCAGCGTC
 AGGCCGAGGAGACGGCGCCTTCGAGGAGGTGATGATGGACATCGGCTCCACCCGTTAC
 AGGCCAAAAACTGCGACTGGCATAACAGGAGCTCTCATTATGGTGGGTCTCTGCCCA
 ATGTTAACAGATTGGCTCTGGCCTGGCCGAGTTCAGAGCCCCCTCCACTCACCTTTGG
 ATTCATCTCGGAGCACTCGGCACCATGGGCTGGTGAACGGGTGCAGCGAGATCCTCGAA
 GAATGGTGTCCCACTTCGCGGATACACCCGCCACATTGACAGCTCTCCCTATAGTCCTG
 CCTACTTATCTCTCCCCAGAGTCTAGCTGGCGAAGGACGGTGGCCTGNGGCAATTTCC
 CTGCAGAGAAGGGCAGTTGTTTCGACTACCATCTGCACTTAACAGGACAAGCTCTGACT
 CTGCCCTTCATACCAAGTGTGATGAACCCAGTCTCCAGGAACCTACCCAGCCCCACACC
 TCCCAGCATCCTGCCAGCCGACGTTGGGGTATCCTTGGATGGTGCACACGGCCCCACAT
 ACCTGCTATTGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181715 unedited
 NTTTTGGTTTTCACTATGNNACCGCGCCGCATNCTAGGATCGGATTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTGATATGATTTTTTTTATTAACATATAATAATATTTA
 ATAAAAATAGTATCCACTCTGGCTCTCTCCTCCACTGCAAGGGGAAAAATGGTGAGGAG
 GGGCTGGCACTGCCACCCCTAGGCATCCGAAAAACCCCTGGTTCAGGGCTCCCTCTA
 CCCCTGCTTTCCAACAGGCTCTGACCTCCAGACAGACGGTTCAAAGTTACAAGTGCTTTA
 GGCCCTCCCTTGAGTTCCCCAGGCCATCCCTTGCGCAAAATTCAGGGGCCACCTGGAC
 AAACCCCTTGCTTTTTCTCATTCTTGGCATCCTCATTATGCTAAAAAGAGGATCTGGG
 GACAGAAAGTAAAGTCTACCTGCCAGGGGAAAGGAGGAAAAGAAATGGTGGTGGGGGA
 TGGGGCCCAAAAAGGGGATGGGGATGAGGGGCCCCATTGGAACCGGGCACTGGGGAATG
 ACTCCTCCCAAGCAAGATCAAGGAGCAGGGCACAAGGGTCACTCCACATGTTTAGCCCTT
 TCAGGGCCAATGGCTCCATGCCCAACTTATTTTTTTGCCCAAACCCTAACTCCATCCAG
 GTTGGTGACACCCCAAAAGCCCGCCCTCCGGGCCGGGGTGGTTGCAATCTTCTTA
 AAGAAACCACCGAAGAAGGAATCCCTTGAAAGAAATGATTTAAGGCCCTGGACCCCTT
 GCGCGGAAACACTGGGGTGCAAATTTGGCGGGTTAAGGGTGGGGGGATCCTCGGG
 GGGCCACCCATTGGGCCCTCCACCCCAAAAATACCACTCCCTCTCAGAAAAACCCCGG
 GGGTACT

Restriction Sites:

NotI-NotI

ACCN:

NM_181715

Insert Size:

2750 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_181715.1](#), [NP_859066.1](#)

RefSeq Size: 2598 bp

RefSeq ORF: 2082 bp

Locus ID: 200186

UniProt ID: [Q53ET0](#)

Cytogenetics: 1q21.3

Gene Summary: This gene encodes a member of the transducers of regulated cAMP response element-binding protein activity family of transcription coactivators. These proteins promote the transcription of genes targeted by the cAMP response element-binding protein, and therefore play an important role in many cellular processes. Under basal conditions the encoded protein is phosphorylated by AMP-activated protein kinase or the salt-inducible kinases and is sequestered in the cytoplasm. Upon activation by elevated cAMP or calcium, the encoded protein translocates to the nucleus and increases target gene expression. Single nucleotide polymorphisms in this gene may increase the risk of type 2 diabetes. A pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2010]