

Product datasheet for **RG208836**

TORC2 (CRTC2) (NM_181715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TORC2 (CRTC2) (NM_181715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TORC2
Synonyms:	TORC-2; TORC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208836 representing NM_181715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACGTCGGGGCGAACCGGCCTGGTTTCGGCCACGGCCTCGGCTTCCAATCCGCGCAAATTTAGTG
 AGAAGATTGCGCTGCAGAAGCAGCGTCAGGCCGAGGAGACGGCGCCTTCGAGGAGGTGATGATGGACAT
 CGGCTCCACCCGGTTACAGGCCAAAACTGCGACTGGCATAACAAGGAGCTCTCATTATGGTGGGTCT
 CTGCCAATGTTAACCAGATTGGCTCTGGCCTGGCCGAGTTCCAGAGCCCCCTCCACTCACCTTTGGATT
 CATCTCGGAGCACTCGGCACCATGGGCTGGTGGAACGGGTGCAGCGAGATCCTCGAAGAATGGTGTCCCC
 ACTTCGCCGATACACCCGCCACATTGACAGCTCTCCCTATAGTCTGCCTACTTATCTCTCCCCCAGAG
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 CTGCACCTAACAGGACAAGCTCTGACTCTGCCCTTCATACAAGTGTGATGAACCCAGTCCCCAGGATAC
 CTACCCAGGCCCCACACCTCCCAGCATCCTGCCAGCCGACGTGGGGGTATTCTGGATGGTAAAATGGAC
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 AGCTATCCTCATCTCTCCCGACCTCGGTCTGTGAAGTCCCTGGAATTAACATCTTCCATCTCTCTGA
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 CTGCACCTTCCCCACCCTGCCACCCCTGGACCCTGAAGAGACAGCCTACCCTAGCCTGAGTGGGG
 GCAACAGTACCTCCAATTTGACCACACCATGACTCACCTGGGCATCAGCAGGGGCATGGCCTGGGCC
 AGGCTATGATGCACCAGGACTTCATTACCTCTCAGCCACCCATCCCTGCAGTCTCCCTAAGCAATCCC
 AACCTCCAGGCTTCCCTGAGCAGTCTCAGCCCCAGCTTCAGGGCTCCCACAGCCACCCCTCTCGCCTG
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 CTTGTTTCACTGAGTCTCAGGTGGCAGCCCCCAGGCAGGCAGTCTCATTATGGGACACCGTACCCACC
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 ATTGCAGCAGCCCTGGCCGAGTGCCTGGCTTTGAGGTGTGAGCAGCTGGATTGGAGCTAGGGCTTGGGC
 TAGAAGATGAGCTGCGCATGGAGCCACTGGGCCTGGAAGGGCTAAACATGCTGAGTGACCCTGTGCCCT
 GCTGCCTGATCTGTGTGGAGGAGTATTCCGCAGTGACCGGCTCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

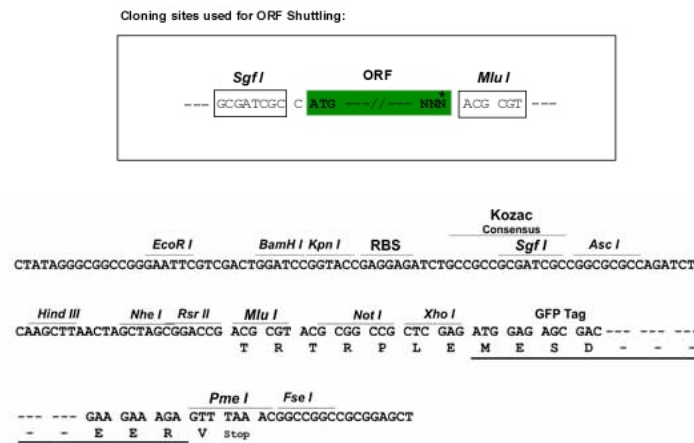
Protein Sequence: >RG208836 representing NM_181715
 Red=Cloning site Green=Tags(s)

MATSGANGPGSATASASNPRKFSEKIALQKQRQAEETAAFEVMMDIGSTR LQAQKLRLAYTRSSHYGGS
 LPNVNQIGSGLAEFQSP LHSPLDSSRSTRHHGL VERVQRDPRRMV SPLRRYTRHIDSSPSAYL SPPPE
 SSWRRMTAWGNFPAEKGLFRLPSALNRTSSDSALHT SVMNPSQDTPGTPPSILPSRRGGILDGEMD
 PKVPAIEENLLDDKHL LKPWDAKKLSSSSSRPRSCVPGINIFPSPDQPANVPVLPAMNTGGSLPDLTN
 LHFPPPLPTLPDPEETAYPSLSGGNSTSNLTHMTHLGISRGMGLGPGYDAPGLHSP LSHPSLQSSLSNP
 NLQASLSSPQPLQGS SHPSLPASSLARHVLPTTSLGHPSLSAPALSSSSSSSTSSPVLGAPSPYAST
 PGASPHHRRVPLSPLSLLAGPADARRSQQLPKQFSPTMSPTLSSITQGVPLDTSK LSTDQRLPPYPYSS
 PSLVLP TQPHTPKSLQQPLPSQSCSVQSSGGQPPGRQSHYGTPYPPGPSGHGQQSYHRPMSDFNLGNLE
 QFSMESPSASLVLDPPGFSEGPGLGGEGPMGGPQDPHTFNHQNLTHCSRHGSGPNIILTDGSSPGFSKE
 IAAALAGVPGFEVSAAGLELGLGLEDEL RMEPLGLEGLNMLSDPCALLPDPAVEESFRSDRLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181715

ORF Size: 2079 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

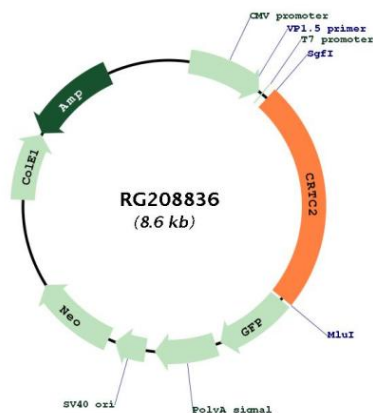
Locus ID: 200186

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]

Product images:



Circular map for RG208836