

Product datasheet for **MG209515**

Ctif (NM_201354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Ctif
Synonyms:	Gm672
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG209515 representing NM_201354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAACTCCTCAGCAGTTTCTGAGGAGGAGAGCAGCCGCTCCAGGAGATCGAGGAGC
 TGGAGCGCTTCATTGACAGCTACGTGCTGGAGTACCAGGTGCAGGGGCTGCTGACCGACAAGACAGAGGG
 TGACGGCGAGAGCCAGAGGACACAGTCCCATATCTCCAGTGGACGGCTGACTGCAGAGAGCAGCTGGAT
 GGTAGCTGTTCTTCTCCAGAGGGCGAGCCCCGCCACAGCAGAAATGGCAACAAGGACAACTCCCTGGACA
 TGCTGGGCACAGATATCTGGGCCGCAATACCTTTGATTCTTCAGTGGTGCCACCTGGGACCTGCAGCC
 TGAAAAGCTGGACTTCACCCAGTTCCATCGGAAGGTCCGCCACACACCAAGCAGCCCTGCCACACATC
 GACAGAGAAGGGTGTGGAAGGGAAGCTGGAAGATGGAGATGGTATCAGCCTGAATGACATTGAGAAGG
 TCCTCCCGACCTGGCAGGGCTACCATCCGATGCCCCACGAAGCAGAGATTGCACATACCAAGAAGTTGTT
 CCGAAGGAGGAGAAATGACCGAAGACGGCAGCAAGACCTCCAGGAGGGAACAAGCCCCAACAGCATGGT
 GACCATCAGCCAGGAGTGCCTAACACACAGGGACCAAGCAAAATCTTACCAGGGGGGCTCAGGGCCCC
 ACCCCTCAGGGAGGCCACACACCATGGCTACAGCCAGAACCAGCCTGGCATCAGGCAACATGAAACA
 TCCACCGGGAGACAAGGAGAAGCGGGCAGCCACCGCAACGCCAAGAGACCGTGACCGTTGAGAACCCC
 AAATTGAAGACGGCCAGGGGACACCGGACACAGTGGCTTGAGCCCCCTGCAGCCCTGACACTCTGA
 CCCCAGCAGCTTCCGAGAGACCAACCCCTCAGCTGCCAGGGGGCCGGAGGCTGAGATAAAGCATAAAGA
 CACTGTTCTTCTGAGCGTCTCAGGGAGCGGCCAAAATCACCTGCTCCAGTCTTCAAAGACAGGCTG
 AGGCGAAGGCTGAAGGAAAAGGACCGGGACATCCGAATCCCACTGAGACTTCAGCTCCACTGAGGTGTG
 TTTTATGTGTCCTCCATGTCCCCAGGACGAAGTGGCAGTAGAGACAAGCAGCCCTCAGCCAAGCAAGAT
 GGACAGGCTGATGGAATCCTTAACATCATGAGAAATACAGCAGCGACGTGGATGCCAAGCTCACCTCC
 TTCATGGAGGAGGCGCAGAACTCCACCACTCTGAGGAGATGCTGGGGGAGATCGTGGGACCATCTACC
 AGAAGGCCGTGTGACAGCCGAGCTTCGCCTTCACGGCCGCCAAGCTCTGCGACAAGATGGCCCTCTTCAT
 GGTGAGGGGACCAAGTTCGGAGCCTGCTCTCAACATGCTCCAGAAGGACTTCACTGTGCGGGAGGAG
 CTGCAGCAACAGGATGTGGAGCGCTGGCTGGGCTTCATCACCTTCTGTGTGAGGTGTTCCGCACCATGC
 GGAGCAGCACTGGCGAGCCCTCCGAGTGTGTTGTCCTTACACGTGCCTCCGGGAGCTCTTGCA
 GTCACAGGATGTGAAGGAAGACGAGTCTCTGCTGTTCTATGGAGCTACAAAGCACAGGCCGGTGCTA
 GAGGAGCAGCTGCCAGAGATGATGACGAGCTCCTAGCCAGCGCAAGAGATAAGATGCTGTGCCCTCAG
 AGTCCATGCTAACCCGGTCCCTGCTCCTGGAGGTCTCGAGCTCCACGCCAACAGCTGGAACCTCTGAC
 GCCCCCATCACGCACTACTACAACAGGACCATCCAGAACTGACAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209515 representing NM_201354
 Red=Cloning site Green=Tags(s)

MENSSAASASSEAGSSRSQIEELERFIDSYVLEYQVQGLLTDKTEGDGESQRTQSHISQWTADCREQLD
 GSCSFSRGRAPPQNGNKDNLDMGLTDIWAANTFDSFSGATWDLQPEKLDFTQFHRKVRHTPKQPLPHI
 DREGCGKGLKEDGDGSLNDIEKVLPTWQGYHPMPHEAIEAHTKKLFRRRRNDRRRQRPQPGNKPQHG
 DHQPGSAKHNRDHQKSYQGGSGPHPSGRPTHGYSQNRWWHGNMKHPPGDKGEAGSHRNAKETVTVENP
 KLEDGPGDTGHSLEPPCSPDTLTPAASERPTPQLPGGPEAEIKHKDTVLPERLRERPKITLLQSSKDRL
 RRRLKEKDRDIPNPTETSAPLRCLVPHVPQDEVAVETSSPQPSKMDRLMEILNIMRNNSSDVDAKLTS
 FMEEAQNSTNSEMLGEIVRTIYQKAVSDRSFAFTAALKCDKMALFMVEGTFKFRSLLLNMLQKDFTVREE
 LQQQDVERWLGFITFLCEVFGTMRSSSTGEPFRVLVCPITYTCLRELLQSQDVKEDAVLCCSMELQSTGRLL
 EEQLPEMMTELLASARDKMLCPSESMLTRSLLLEVIELHANSWNPLTPPITQYYNRTIQKLTAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201354

ORF Size: 1869 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_201354.1](#), [NP_958742.1](#)

RefSeq Size: 4380 bp

RefSeq ORF: 1872 bp

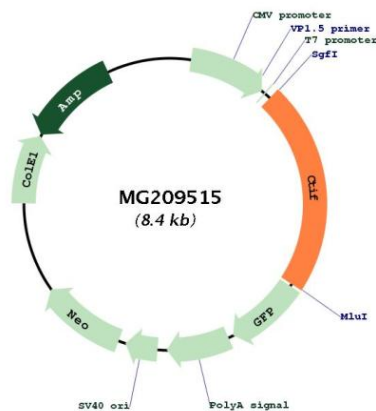
Locus ID: 269037

UniProt ID: [Q6PEE2](#)

Cytogenetics: 18 E3

Gene Summary: Specifically required for the pioneer round of mRNA translation mediated by the cap-binding complex (CBC), that takes place during or right after mRNA export via the nuclear pore complex (NPC). Acts via its interaction with the NCBP1/CBP80 component of the CBC complex and recruits the 40S small subunit of the ribosome via eIF3. In contrast, it is not involved in steady state translation, that takes place when the CBC complex is replaced by cytoplasmic cap-binding protein eIF4E. Also required for nonsense-mediated mRNA decay (NMD), the pioneer round of mRNA translation mediated by the cap-binding complex playing a central role in nonsense-mediated mRNA decay (NMD) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209515