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Product datasheet for MR209515

Ctif (NM_201354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctif (NM_201354) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctif
Synonyms:	Gm672
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR209515 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAACTCCTCAGCAGCTTCAGCCTCCTCTGAGGCAGGAAGCAGCCGCTCCCAGGAGATCGAGGAGC
TGGAGCGCTTCATTGACAGCTACGTGCTGGAGTACCAGGTGCAGGGGCTGCTGACCGACAAGACAGAGGG
TGACGGCGAGAGCCAGAGGACACAGTCCCATATCTCCCAGTGGACGGCTGACTGCAGAGAGCAGCTGGAT
GGTAGCTGTTCCTTCTCCAGAGGGCGAGCCCCGCCACAGCAGAATGGCAACAAGGACAACTCCCTGGACA
TGCTGGGCACAGATATCTGGGCCGCCAATACCTTTGATTCCTTCAGTGGTGCCACCTGGGACCTGCAGCC
TGAAAAGCTGGACTTCACCCAGTTCCATCGGAAGGTCCGCCACACACCCAAGCAGCCCCTGCCACACATC
GACAGAGAAGGGTGTGGAAAGGGAAAGCTGGAAGATGGAGATGGTATCAGCCTGAATGACATTGAGAAGG
TCCTCCCGACCTGGCAGGGCTACCATCCGATGCCCCACGAAGCAGAGATTGCACATACCAAGAAGTTGTT
CCGAAGGAGGAGAAATGACCGAAGACGGCAGCAAAGACCTCCAGGAGGGAACAAGCCCCAACAGCATGGT
GACCATCAGCCAGGCAGTGCCAAACACAACAGGGACCACCAGAAATCTTACCAGGGGGGCTCAGGGCCCC
ACCCCTCAGGGAGGCCCACACACCATGGCTACAGCCAGAACCGACGCTGGCATCACGGCAACATGAAACA
TCCACCGGGAGACAAGGGAGAAGCGGGCAGCCACCGCAACGCCAAAGAGACCGTGACCGTTGAGAACCCC
AAACTTGAAGACGGCCCAGGGGACACCGGACACAGTGGCCTTGAGCCCCCCTGCAGCCCTGACACTCTGA
CCCCAGCAGCTTCCGAGAGACCAACCCCTCAGCTGCCAGGGGGGCCGGAGGCTGAGATAAAGCATAAAGA
CACTGTTCTTCCTGAGCGTCTCAGGGAGCGGCCCAAAATCACCCTGCTCCAGTCTTCCAAAGACAGGCTG
AGGCGAAGGCTGAAGGAAAAGGACCGGGACATCCCGAATCCCACTGAGACTTCAGCTCCACTGAGGTGTG
TTTTATGTGTCCCCCATGTCCCCCAGGACGAAGTGGCAGTAGAGACAAGCAGCCCTCAGCCAAGCAAGAT
GGACAGGCTGATGGAAATCCTTAACATCATGAGAAATAACAGCAGCGACGTGGATGCCAAGCTCACCTCC
TTCATGGAGGAGGCGCAGAACTCCACCAACTCTGAGGAGATGCTGGGGGAGATCGTGCGGACCATCTACC
AGAAGGCCGTGTCAGACCGCAGCTTCGCCTTCACGGCCGCCAAGCTCTGCGACAAGATGGCCCTCTTCAT
GGTCGAGGGGACCAAGTTCCGGAGCCTGCTCCTCAACATGCTCCAGAAGGACTTCACTGTGCGGGAGGAG
CTGCAGCAACAGGATGTGGAGCGCTGGCTGGGCTTCATCACCTTCCTGTGTGAGGTGTTCGGCACCATGC
GGAGCAGCACTGGCGAGCCCTTCCGAGTGCTGGTGTGCCCCATCTACACGTGCCTCCGGGAGCTCTTGCA
GTCACAGGATGTGAAGGAAGACGCAGTCCTCTGCTGTTCTATGGAGCTACAAAGCACAGGCCGGCTGCTA
GAGGAGCAGCTGCCAGAGATGATGACGGAGCTCCTAGCCAGCGCAAGAGATAAGATGCTGTGCCCCTCAG
AGTCCATGCTAACCCGGTCCCTGCTCCTGGAGGTCATCGAGCTCCACGCCAACAGCTGGAACCCTCTGAC
GCCCCCCATCACGCAGTACTACAACAGGACCATCCAGAAACTGACAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

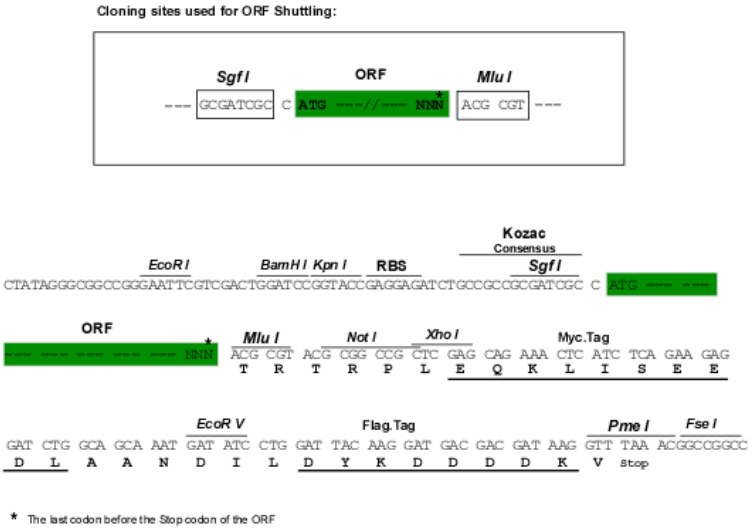
>MR209515 protein sequence
Red=Cloning site Green=Tags(s)

MENSSAASASSEAGSSRSQEIEELERFIDSYVLEYQVQGLLTDKTEGDGESQRTQSHISQWTADCREQLD
GSCSFSRGRAPPQQNGNKDNSLDMLGTDIWAANTFDSFSGATWDLQPEKLDFTQFHRKVRHTPKQPLPHI
DREGCGKGKLEDGDGISLNDIEKVLPTWQGYHPMPHEAEIAHTKKLFRRRRNDRRRQQRPPGGNKPQQHG
DHQPGSAKHNRDHQKSYQGGSGPHPSGRPTHHGYSQNRRWHHGNMKHPPGDKGEAGSHRNAKETVTVENP
KLEDGPGDTGHSGLEPPCSPDTLTPAASERPTPQLPGGPEAEIKHKDTVLPERLRERPKITLLQSSKDRL
RRRLKEKDRDIPNPTETSAPLRCVLCVPHVPQDEVAVETSSPQPSKMDRLMEILNIMRNNSSDVDAKLTS
FMEEAQNSTNSEEMLGEIVRTIYQKAVSDRSFAFTAAKLCDKMALFMVEGTKFRSLLLNMLQKDFTVREE
LQQQDVERWLGFITFLCEVFGTMRSSTGEPFRVLVCPIYTCLRELLQSQDVKEDAVLCCSMELQSTGRLL
EEQLPEMMTELLASARDKMLCPSESMLTRSLLLEVIELHANSWNPLTPPITQYYNRTIQKLTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201354

ORF Size: 1872 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_201354.1, NP_958742.1

RefSeq Size: 6192 bp

RefSeq ORF: 1872 bp

Locus ID: 269037

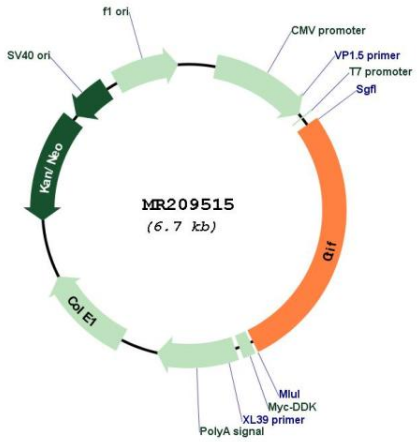
UniProt ID: Q6PEE2

Cytogenetics: 18 E3

MW: 70.3 kDa

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 MR209515