

Product datasheet for MC202400

Ctif (NM_201354) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Ctif (NM_201354) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ctif |
| Synonyms: | Gm672 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |

Fully Sequenced ORF: >BC058104 sequence for NM_201354
CGACTGGGTCGGTCCGCTGAGGTGCCGGATCCCCCTCACGGCTGGGACGCGCCGAACCTCCAGCAGGAGT
CGGCTCTTTGCAGCCTGGTCCCTCCCTTCCCCTCCCTGCCCCCTCCCCACCCCGACGCGGGCTCCGC
GCGGCAGCCAGAGAACCCCGAGCCGGCCCGGTCCCTGAGCCGAGGAATGGAGAAGCTCCTCAGCAGCT
TCAGCCTCCTCTGAGGCAGGAAGCAGCCCTCCAGGAGATCGAGGAGCTGGAGCGCTTCATTGACAGCT
ACGTGCTGGAGTACCAGGTGCAGGGGCTGCTGACCGACAAGACAGAGGGTACGCGCAGAGCCAGAGGAC
ACAGTCCCATATCTCCAGTGGACGGCTGACTGCAGAGAGCAGCTGGATGGTAGCTGTTCCCTTCCAGA
GGGCGAGCCCGCCACAGCAGAATGGCAACAAGGACAACCTCCCTGGACATGCTGGGCACAGATATCTGGG
CCGCCAATACCTTTGATTCCTTCAGTGGTCCACCTGGGACCTGCAGCCTGAAAAGCTGGACTTCAACCA
GTTCCATCGGAAGTCCGCCACACACCAAGCAGCCCTGCCACACATCGACAGAGAAGGGTGTGGAAGG
GAAAAGCTGGAAGATGGAGATGGTATCAGCCTGAATGACATTGAGAAGGTCTCCCGACCTGGCAGGGCT
ACCATCCGATGCCCCACGAAGCAGAGATTGCACATACCAAGAAGTTGTTCCGAAGGAGGAGAAATGACCG
AAGACGGCAGCAAAGACCTCCAGGAGGGAACAAGCCCCAACAGCATGGTGACCATCAGCCAGGCAGTGCC
AAACACAACAGGGACCACCAGAAATCTTACCAGGGGGGCTCAGGGCCCCACCCCTCAGGGAGGCCACAC
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CAACCCCTCAGCTGCCAGGGGGCCGGAGGCTGAGATAAAGCATAAAGACACTGTTCTTCTGAGCGTCT
CAGGGAGCGGCCAAAATCACCTGCTCCAGTCTTCAAAGCAGGCTGAGGCGAAGGCTGAAGGAAAAG
GACCGGGACATCCCGAATCCCACTGAGACTTCAGCTCCACTGAGGTGTGTTTTATGTGTCCCCCATGTCC
CCCAGGACGAAGTGGCAGTAGAGACAAGCAGCCCTCAGCCAAGCAAGATGGACAGGCTGATGGAATCCT
TAACATCATGAGAAATAACAGCAGCGACGTGGATGCCAAGCTCACCTCCTTCATGGAGGAGGCGCAGAAC
TCCACCAACTCTGAGGAGATGCTGGGGAGATCGTGCGGACCATCTACCAGAAGGCCGTGTGACACCGCA
GCTTCGCCTTACGCGCCCAAGCTCTGCGACAAGATGGCCCTTTCATGGTTCGAGGGGACCAAGTTCGG
GAGCCTGCTCCTCAACATGCTCCAGAAGGACTTACTGTGCGGGAGGAGCTGCAGCAACAGGATGTGGAG
CGCTGGCTGGGCTTCATACCTTCTGTGTGAGGTGTTCCGGACCATGCGGAGCAGCACTGGCGAGCCCT
TCCGAGTGTGGTGTGCCCATCTACACGTGCCTCCGGGAGCTCTTGAGTCCACAGGATGTGAAGGAAGA



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CGCAGTCTCTGCTGTTCTATGGAGCTACAAAGCACAGGCCGGCTGCTAGAGGAGCAGTGCCAGAGATG
ATGACGGAGTCTTAGCCAGCGCAAGAGATAAGATGCTGTGCCCTCAGAGTCCATGCTAACCCGGTCCC
TGCTCCTGGAGGTCATCGAGCTCCACGCCAACAGCTGGAACCCTCTGACGCCCCCATCACGCAGTACTA
CAACAGGACCATCCAGAAACTGACAGCCTGACAGCCCAGCCGAGGGGGCTGGCAGGCAGCCCGTGGGCA
GCTGGGGCCCTAGTGCACAGGGCCAGATGGACAGGCGCAAGGACAGGGGTGGCCCTGGCGGAAAGAGAA
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AGAAGGGCTCCCCGTGCAGCCCCACCCCAACCCCAAGCCTGCGCATGTGGCAGCTCACACCAAGG
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CCATAATTGATGGCCTTTGTGAGCCCCAGCGGAGCTGGAGAGAGGCTTTTTTTTCTCTTAACCTCCGT
GCTCCACCCTCAACCCTCGGCCTCCAGCCCCAGGGCCACTGCTCCCCCTGGCAGAGAAGGGAGAGCCA
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TAAGACCTGCCCCCTCCCCAAAGAATCTAGCCACTAGCAGCTTGCCAGTAGCCAGCTAGTAATTGGAA
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CTGTCCACTGCTAGTTCCAAAGGGTGGACTGACTGCCTTAGGACCTGCCCTGGCTCCTGTTACTGGCA
AACGGGGCCAGAAACGAGGCTGGCAAATTAACAACCAATGCAGGTCTTGTCCGAGCAACTGTTGAGGGA
AGAGCCCCTGCTGACTCCACAGATCTTGGAGCCTCCTCATGATCCCATGCCGCATCCCAGGCAAGACC
CACAAGCCCTACCTCAAGGCTGCTGGGAGAGGGGAATCATTGGGTCCTGACTGGGACGGTTTGGTAG
GCAGCCAGATAGACAATGAAGTTCTTCAAGGTAGAAACAAGTCTGTTTCTTGGGAGGCTCTGGTCCC
AGGGAGCAACCCTTCTGAATGAACAGGAGGCAAGCCTCTCAAACTTGTTGTCTGCTGCGCCAT
GATGCTCTGATATTGAGCCTTTTAGGCTCCGCCACCTGTGAGGACAAGTTGGTCTTGTCTTCCACTC
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GTCGGGCTCTTGAACCTCCCTGGACAACCAACCCTTCCACCAACCATGGGGAACCTCTTCCCCACCCC
CAAAAAAACCATCTTACCTGGGCATCGTTCTCATCCAGTCTGTAACCTTTACAGTTTGGCGATCAT
CTTGTCCATTTGTGTACATGTAATGTTGACCAATTGGTATTTATTCTAATTTTTATTGTATTTATTT
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GCCAGGAAGCAAGAGAAGCACCTCCCTGGGGCCACTCTAGATGGCAGCCTGTCAGTACCACACCCTGG
GCTGTTATCTGGAATTGGAAGCCGACAGTGTTCGTATCCCATACACACAGGCCTGCCCGTGGCATGAT
GTCCCTCAGCTGCCTGGACCATGTTGGGAAACCTCTGACTGGCTCTCGAGGAGGTGGGTTGGAGAGAC
TAGAATTTCTCTGCTCAGGGCACTGGCCCCAGAAGTCTATCTGGAGCCTCACTGAGCCAGCTGGGAG
CCTGACAACAGGACCTACCTCCCTGGAGCAGGGTCTGGAGATTGCCGCCAAAGCTATGGGCCAACCTGC
TCGCGCCGACCCCTTCCATCTACCCGTATATCTGCTTCCCAGCTGAACCCAAACTACAAGTGGGTTTAA
AAAAATAAATAAACGATACCAAAAAAAAAAAAAAAAAAAAA
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM_201354
- Insert Size:** 1872 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: [BC058104](#), [AAH58104](#)

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]