

Product datasheet for MC225148

Cit (NM_007708) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cit (NM_007708) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cit
Synonyms: C030025P15Rik; Cit-k; CRIK; CRIK-SK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225148 representing NM_007708
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGC

ATGTTGAAGTTCAAGTATGGTGTGCGGAACCCGCCGGAGGCCAGTGCCTCCGAGCCCATTGCCAGTCGGG
 CCTCCAGGCTAAATCTCTTCTCCAGGGGAAACCGCCCTCATGACTCAACAGCAGATGTCTGCTCTTTCC
 CCGGGAAGGGATGCTAGACGCCCTTCTGCTCTCTTTGAAGAGTGCAGCCAACCCGCCCTGATGAAGATG
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GTAGCTTAAAGCGAAGTTTGGAGCAAGCGCGGATGGAGGTGTCCAGGAGGATGACAAAGCTCTGCAGCT
TCTCCACGACATCCGAGAGCAGAGCCGGAAGCTCCAGGAGATCAAGGAGCAGGAGTACCAGGCTCAGGTG
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CACCTGGAAGGGTGGATGAAAGTGCCAGAAAATAACAAACGGGGACAGCAAGGCTGGACAGGAAGTACA
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CGTCGAGGTGGGAGAGTTTCTAGGGAAAAGGCCGAGCCGATGCTAAATTAATTGGAACTCTCTGCTG
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CATCTGCGCCGCTATGCCAAGCAAAGTCGTATCCTCCGCTACAATGACAACTCAGCAAGTACTGCATC
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 CCAACAAATTCTATGAGATCGACATGAAGCAGTACACGCTTGACGAGTTCCTGGACAAGAACGACCATTC
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 GGGCAGCGAGAAGAATACCTGCTGTGCTTCCACGAATTTGGGGTGTTCGTGGATTCTTACGGAAGACGTA
 GCCGCACAGATGATCTCAAGTGGAGTCGTTACCTCTGGCCTTCGCTACAGAGAACCTTATCTGTTTGT
 GACTCACTTCACTCCCTGGAAGTCATTGAGATCCAGGCCAGATCCTCACTGGGAGCCCTGCCGAGCA
 TATCTGGAATTCCAAACCTCGCTACCTGGGCCCGGATTTCTCCGGAGCGATTTACCTGGCCTCCT
 CATACCAGGACAAGTTAAGGGTCATATGCTGCAAAGGAAACCTCGTGAAGGAGTCAGGCACTGAGCAGCA
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 AAACGCGTGGCTCCAGCCCGGCCACCAGGAGGCCACCCCGAGAGCAAGCACACCCGACC
 GCTACCAGACAGAGAGGGTCGGACAGAGCTGCGCAGGGACAAGTCTCCAGGCCCTCTGGAGCGGA
 GAAGTCCCAGGCCAATGCTCAGCACTAGGAGAGAGCGGTCCCAGGGAGACTGTTGAAGACAGCAGC
 AGGGCCGGCTGCCTGCAGGAGCAGTGAGGACCCCACTGTCCCAGTTAAACAAGTCTGGGACCAGTCTT
 CAGTAA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_007708
- Insert Size:** 6168 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_007708.3](#), [NP_031734.3](#)
- RefSeq Size:** 6898 bp
- RefSeq ORF:** 6168 bp
- Locus ID:** 12704
- Cytogenetics:** 5 F

Gene Summary:

Plays a role in cytokinesis. Required for KIF14 localization to the central spindle and midbody. Probable RHO/RAC effector that binds to the GTP-bound forms of RHO and RAC1. It probably binds p21 with a tighter specificity in vivo. Displays serine/threonine protein kinase activity. Plays an important role in the regulation of cytokinesis and the development of the central nervous system. Phosphorylates MYL9/MLC2.[UniProtKB/Swiss-Prot Function]