

## Product datasheet for **MC223050**

### Cit (BC023775) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cit (BC023775) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cit
Synonyms:	CRIK, CRIK-SK, citron-N, Cit-k
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC023775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGGCTCTGAAGACGACATGCACCATGTTGGAGGAGCAGGTCCTGGACCTGGAGGCCCTGAACGACG  
AGCTGCTGGAGAAGGAGCGCCAGTGGGAGGCCCTGGCGGAGCGTCCTTGGCGACGAGAAGTCCCAGTTCGA  
GTGTGCGAGTTCGAGAGCTACAGAGGATGCTGGACACCGAGAAGCAGAGCAGGGCTAGGGCCGATCAGCGG  
ATCACCGAGTCGCGCCAGGTGGTGGAGTTGGCGGTGAAGGAACACAAGGCCGAGATTCTTGTCTGACGC  
AGGCTCTCAAGGAGCAGAAGCTCAAAGCCGAGAGCCTGTGCGACAAGCTCAACGACCTGGAGAAGAAGCA  
CGCCATGCTGGAGATGAACGCCCGGAGCTTACAGCAGAACTAGAGACAGAGCGGGAGCTCAAACAGAGG  
CTTCTGGAGGAGCAAGCCAAATTGCAGCAGCAGATGGACCTGCAGAAGAACCACATCTTCAGACTGACGC  
AAGGGCTGCAGGAGGCGCTGGACCGGGCGGATCTGCTGAAGACAGAAAGGAGCGACCTGGAGTACCAGCT  
GGAAAACATTGAGTTCTCTACTCTCACGAGAAAGTAAAATGGAAGGCACAATCTCTCAGCAAACAAA  
CTCATTGATTTCTGCAAGCCAAAATGGACCAGCCTGCTAAAAAGAAAAGGGTTATTTAGTCGACGGA  
AAGAGGACCCCTGCTTTGCCACACAGTTCCTCTGCAGTACAATGAGCTGAAGCTAGCCCTGGAAAAGGA  
GAAAGCCCGATGCGCGGAGCTGGAGGAGGCCCTCAGAAGACCCGCATCGAACTCCGCTCTGCGCGGGAG  
GAAGCTGCCACCGCAAAGCCACGGACCACCCGCACCCGCTCTACGCCAGCCACTGCGAGGACGAGATCG  
CCATGTCTGCCATTGTGCGGTGCGCCGAGCACCAGCCAGTCCATGAGCCTGCTTGCCCCACCATCCAG  
CCGCAGAAAGGAGTCGTCAACTCCAGAGGAATTCAGCCGCGCTGAAAGAGCGCATGCACCACAACATC  
CCTCACCGGTTTAAATGTGGGCTGAACATGAGAGCCACCAAGTGCGCCGTGTGTCTGGATACTGTGCACT  
TTGGACGCCAGGCATCCAAATGCCTCGAATGTCAAGTGTGTCACCCAAATGCTCCACCTGCTTGCC  
CGCTACCTGTGGCTGCCAGCTGAATATGCCACACACTTCACTGAGGCCCTTCTGCCGGGACAAAATGAAC  
TCCCCGGGCTCCAGAGCAAGGAGCCTGGCAGCAGCTTGACCTGGAAGGTTGGATGAAAGTGCCAGAA  
ATAACAAACGGGGACAGCAAGGCTGGGACAGGAAGTACATTGTTCTGGAGGGGTCAAAGTCCCTCATCTA  
TGACAATGAAGCCAGAGAAGCTGGACAGAGGCCGTTGGAAGAATTTGAGCTGTGCCTTCTGACGGGGAC  
GTATCTATTATGGTGCCGTTGGTGCTTCAGAACTTGCAATACCGCAAAGCAGATGTCCCATACATCC



TGAAGATGGAGTCTACCCACACACCACCTGCTGGCCTGGGAGAACCCTCTACTTGCTAGCACCCAGCTT  
 CCCCACAAAGCAGCGCTGGGTACCCGCCTTAGAATCTGTGTCGTCAGGTGGGAGAGTTTCTAGGGAAAAG  
 GCCGAAGCCGATGCTGCACGTGACCATACTTCGAGTGAGCATCAGCCAGTGTGGGTTGAGAAATTACTTG  
 GAAACTCTCTGCTGAAACTGGAGGGCGATGACCGGCTTGACATGAACTGCACCCTGCCCTCAGTGACCA  
 GGTGGTCTGGTGGGCACGGAGGAAGCCCTACGCCCTGAATGTCTTAAAACTCCTTAACCCACATC  
 CCAGGGATTGGCGAGTCTTCAAATTTACATCATCAAGGACCTGGAGAAGCTGCTCATGATAGCAGGGG  
 AAGAGCGGGCTCTGTGCCTGGTGGACGTGAAGAAGGTGAAGCAGTCCCTGGCGCAGTCACACCTGCCTGC  
 CCAGCCCGACGTCTCCCAACATATTCGAAGCCGTCAAAGGCTGCCACTTGTTGCTGCTGGCAAGATC  
 GAGAACAGCCTGTGCATCTGCGCCGCTATGCCAAGCAAAGTCGTATCCTCCGCTACAATGACAACCTCA  
 GCAAGTACTGCATCCGCAAGGAGATCGAGACCTCAGAGCCCTGCAGCTGTATCCACTTCACCAACTACAG  
 CATCCTCATTGGGACCAACAAATTTCTATGAGATCGACATGAAGCAGTACACGCTTGATGAGTTCTGGAC  
 AAGAACGACCATTCTTGGCACCTGCTGTGTTGCGCTCCTCGTCCAACAGCTTCCCTGTCTCATTGTGC  
 AGGCGAACAGCGCCGGCAGCGAGAAGAATACCTGCTGTGCTTCCACGAATTTGGGGTGTCTGGATTG  
 TTACGGAAGAGCTAGCCGCACAGATGATCTTAAGTGGAGTCGCTTACCTCTGGCCTTCGCTACAGAGAA  
 CCTTATCTGTTTGTGACTCACTCAACTCCCTGGAAGTCATTGAGATCCAGGCCAGATCCTCACTGGGGA  
 GCCTGCCGAGCATATCTGGAAATCCAAACCCTCGCTACCTGGGCCCGCGATTTCCTCCGGAGCGAT  
 TTACCTGGCCTCCTCATACCAGGACAAGTTAAGGGTCATATGCTGCAAAGGAAACCTCGTGAAGGAGTCA  
 GGCAGTGAAGCAGCACCAGGTCGCCCTCCACTCCCGCAGCCCAACAAGCGAGGCCACCAACATACAACG  
 AGCACATACCAAACGCGTGGCCTCCAGCCCGGCCACCAGGAGGCCAGCCACCCCGAGAGCCAAG  
 CACACCGCACCCTACCAGACAGAGAGGGTCGGACAGAGCTGCCAGGGACAAGTCTCCAGGCCGCCCT  
 CTGGAGCGGGAGAAGTCCCAGGCCGAATGCTCAGCACTAGGAGAGAGCGGTCCCAGGGAGACTGTTTG  
 AAGACAGCAGCAGGGGCCGCTGCCTGCAGGAGCAGTGAAGACCCCACTGTCAGGTTAACAAAGTCTG  
 GGACCAGTCTTCAGTATAA

AGCGGACCGACGCTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATA  
 TCCTGGATTACAAGGATGACGACGATAAGGTTAA

**Restriction Sites:**

Sgfl-RsrII

**ACCN:**

BC023775

**Insert Size:**

3099 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:**

[BC023775](#), [AAH23775](#)

**RefSeq Size:**

3506 bp

**RefSeq ORF:**

3098 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]