

## Product datasheet for MR216404

### Cit (NM\_007708) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cit (NM\_007708) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cit  
**Synonyms:** C030025P15Rik; Cit-k; CRIK; CRIK-SK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216404 representing NM\_007708  
Red=Cloning site Blue=ORF Green=Tags(s)

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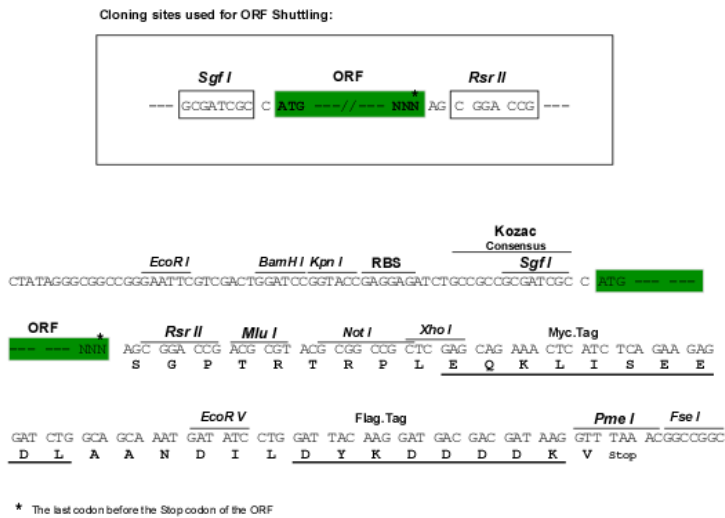
**Protein Sequence:** >MR216404 representing NM\_007708  
 Red=Cloning site Green=Tags(s)

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 HLEGWMKVP RNKRGGQGWDRKYIVLEGSKVL IYDNEAREAGQRPVEEFELCLPDGDVSIHGAVGASELA  
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 RKEIETSEPCSCIHFTNYSILIGTNKFYEIDMKQYTLDEFDLDKNDHSLAPAVF ASSSNSFPVSIVQANSA  
 GQREEYLLCFHEFGVFVDSYGRSRTDDLKWSRLPLAFAYREPYLVVTHFNSLEVIEIQARSSLGSPARA  
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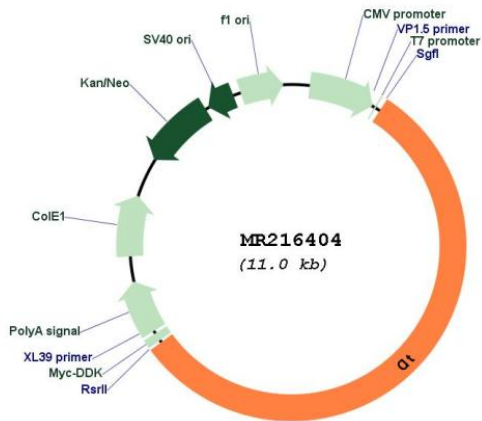
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_007708

ORF Size: 6165 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\\_007708.3](#), [NP\\_031734.3](#)

**RefSeq Size:** 6898 bp

**RefSeq ORF:** 6168 bp

**Locus ID:** 12704

**Cytogenetics:** 5 F

**MW:** 235.8 kDa

**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]