

Product datasheet for **MG211488**

Cit (BC023775) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cit (BC023775) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cit
Synonyms:	CRIK, CRIK-SK, citron-N, Cit-k
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211488 representing BC023775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGGCTCTGAAGACGACATGCACCATGTTGGAGGAGCAGGTCTGGACCTGGAGGCCCTGAACGACG
AGCTGCTGGAGAAGGAGCGCCAGTGGGAGGCCCTGGCGGAGCGTCTTGGCGACGAGAAGTCCCAGTTCGA
GTGTCGAGTTCGAGAGCTACAGAGGATGCTGGACACCGAGAAGCAGAGCAGGGCTAGGGCCGATCAGCGG
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AGGCTCTCAAGGAGCAGAAGCTCAAAGCCGAGAGCCTGTCGGACAAGCTCAACGACCTGGAGAAGAAGCA
CGCCATGCTGGAGATGAACGCCCGGAGCTTACAGCAGAACTAGAGACAGAGCGGGAGCTCAAACAGAGG
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GTATCTATTCATGGTGCCGTTGGTGCTTCAGAACTTGCAATACCGCCAAAGCAGATGTCCCATACATCC
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 CTGGAGCGGGAGAAGTCCCAGGCCGAATGCTCAGCACTAGGAGAGAGCGGTCCCAGGGAGACTGTTTG
 AAGACAGCAGCAGGGGCCGCTGCTGCAGGAGCAGTGAAGACCCCACTGTCCAGGTTAAACAAGGCTCTG
 GGACCACTTTCAGTA

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211488 representing BC023775
 Red=Cloning site Green=Tags(s)

MEALKTTCTMLEEQVLDLEALNDELLEKERQWEAWRSVLGDEKSQFECRVRELQRM LDTEKQSRARADQR
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 LLEEQAKLQQQMDLQKNHIFRLTQGLQEALDRADLLKTERSDLEYQLENIQVLYSHEKVKMEGTISQQT
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 KNDHSLAPAVFASSNSFPVSI VQANSAGQREEYLLCFHEFGV FVDSYGRRSRTDDLKWSRLPLAFAYRE
 P YL FVTHFNSLEVIEIQARSSLGSPARAYLEIPNPRYLGPATSSGAIYLASSYQDKLRVICCKGNLVKES
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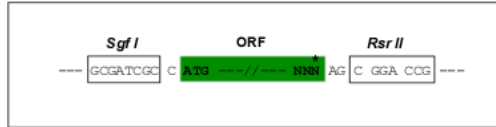
SGPTRRRLE - GFP Tag - V

Restriction Sites:

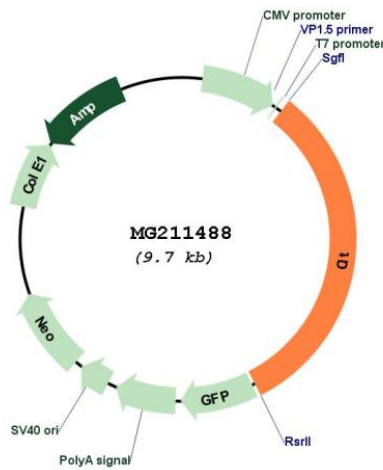
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC023775

ORF Size: 3096 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:	<ol style="list-style-type: none">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:	BC023775.1
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]