

Product datasheet for **RG211692**

CIT (NM_007174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIT (NM_007174) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CIT
Synonyms:	CITK; CRIK; MCPH17; STK21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211692 representing NM_007174 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGAAGTTCAAATATGGAGCGCGGAATCCTTTGGATGCTGGTGTCTGAACCCATTGCCAGCCGGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211692 representing NM_007174
 Red=Cloning site Green=Tags(s)

MLKFKYGARNPLDAGAAEPIASRASRLNLFQGGKPPFMTQQQMSPLSREGILDALFVLFEECSQPALMKI
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 SVHLMGYVHRDIKPENILVDRTHGIKLVDFGSAKMNSNMVNAKLPITGPDYMAPEVL TVMNGDGKGT
 GLDCDWWVSVGVIAYEMIYGRSPFAEGTSARTFNNIMNFQFLKFPDDPKVSSDFLDLIQSLLCGQKERLK
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 LYLLAPSFDPKQRWVTALESVAGGRVSRKAEADAKLLGNSLLKLEGGDRLDMNCTLPFSDQVVLVGT
 EGLYALNVLKNLTHVPGIGAVFIYI IKDLEKLLMIAEGERALCLVDVKKVKQSLAQSHLPAQPDISP
 NIFEAVKGCHLFGAGKIENGLCICAAMPSKVILRYNENLSKYCIRKEIETSEPCSCIHFTNYSILIGT
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 RTDDLKWSRLPLAFAYREPYLFVTHFNSLEVIEIQARSSAGTPARAYLDIPNPRYLGPASSGAIYLASSYQ
 DKLRVICCKGNLVKESGTEHHRGPSTSRSSPNKRGPPTYNEHITKRVASSPAPPEGPSHPREPSTPHRYR
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TRTRPLE - GFP Tag - V

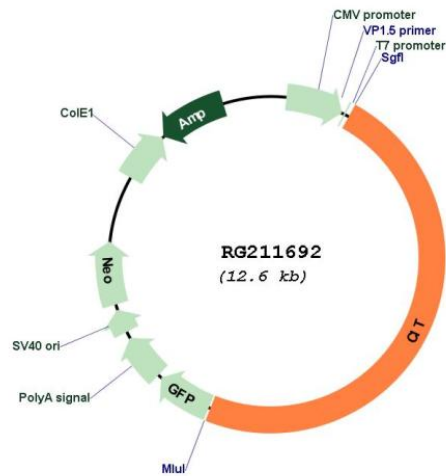
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007174

ORF Size: 6081 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:	NM_007174.3
RefSeq Size:	8576 bp
RefSeq ORF:	6084 bp
Locus ID:	11113
UniProt ID:	Q14578
Cytogenetics:	12q24.23
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a serine/threonine-protein kinase that functions in cell division. Together with the kinesin KIF14, this protein localizes to the central spindle and midbody, and functions to promote efficient cytokinesis. This protein is involved in central nervous system development. Polymorphisms in this gene are associated with bipolar disorder and risk for schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]