

## Product datasheet for RC235361

### CIT (NM\_001206999) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CIT (NM\_001206999) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CIT  
**Synonyms:** CITK; CRIK; MCPH17; STK21  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC235361 representing NM\_001206999  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTGAAGTTCAAATATGGAGCGCGGAATCCTTTGGATGCTGGTGTGCTGAACCCATTGCCAGCCGGG  
CCTCCAGGCTGAATCTGTTCTTCCAGGGAAACCACCTTTATGACTCAACAGCAGATGTCTCCTCTTTC  
CCGAGAAGGGATATTAGATGCCCTCTTTGTTCTCTTTGAAGAATGCAGTCAGCCTGCTCTGATGAAGATT  
AAGCACGTGAGCAACTTTGTCCGGAAGTATTCCGACACCATAGCTGAGTTACAGGAGCTCCAGCCTTCGG  
CAAAGGACTTCGAAGTCAGAAGTCTTGTAGGTTGTGGTCACTTTGCTGAAGTGCAGGTGGTAAGAGAGAA  
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GCAGTAGCTTAAAGCGAAGTTTGGAGCAAGCACGGATGGAGGTGTCCCAGGAGGATGACAAAAGCACTGCA  
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**Protein Sequence:** >RC235361 representing NM\_001206999  
 Red=Cloning site Green=Tags(s)

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 DGDVSIHGAVGASELANTAKADVPYILKMESHPTTCWPGR TLYLLAPSFDPKQRWVTALESVVAGGRVS  
 REKAEADAKLLGNL LKLEGGDRLDMNCTLPFSDQVVLVGTEGLYALNVLKN SLTHVPGIGAVFQIYII  
 KDLEKLLMIAGEERALCLVDVKKVKQSLAQSHLPAQPDISPNI FEAVKGCHLFGAGKIENGLCICAAMPS  
 KVVILRYNENLSKYCIRKEIETSEPCSCIHFTNYSILIGTNKFYEIDMKQY TLEEF LDKNDHSLAPAVFA  
 ASSNSFPVSIQVNSAGQREEYLLCFHEFGV FVDSYGRRSRTDDLKWSRLPLAFAYREPYLVTHFNSLE  
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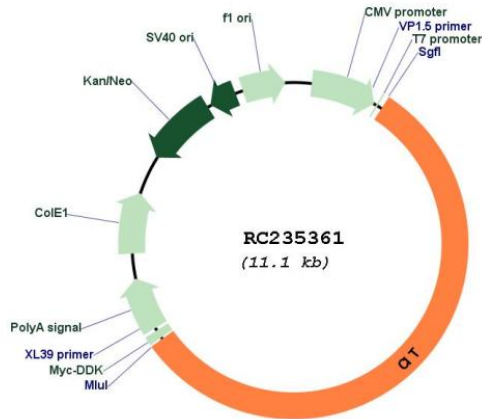
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001206999

ORF Size: 6207 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001206999.2</a>
<b>RefSeq Size:</b>	8708 bp
<b>RefSeq ORF:</b>	6210 bp
<b>Locus ID:</b>	11113
<b>UniProt ID:</b>	<a href="#">O14578</a>
<b>Cytogenetics:</b>	12q24.23
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	237.1 kDa
<b>Gene Summary:</b>	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]