

Product datasheet for **SC303887**

CIT (NM_007174) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CIT (NM_007174) Human Untagged Clone
Tag: Tag Free
Symbol: CIT
Synonyms: CITK; CRİK; MCPH17; STK21
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_007174 edited
 ATGTTGAAGTTCAAATATGGAGCGGGAATCCTTTGGATGCTGGTCTGTAACCCATT
 GCCAGCCGGCCCTCCAGGCTGAATCTGTTCTTCCAGGGGAAACCCCTTTATGACTCAA
 CAGCAGATGTCTCCTCTTTCCCGAGAAGGGATATTAGATGCCCTCTTGTCTCTTTGAA
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 GACTTGTGTCACTTTTGAATAGATATGAGGACCAGTTAGATGAAAACCTGATACAGTTT
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 TCCCTCCTGGAGCAGGACCTTGCTACCTACATCACAGAATGCAGTAGCTAAAGCGAAGT



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TTGGAGCAAGCACGGATGGAGGTGTCCCAGGAGGATGACAAAGCACTGCAGCTTCTCCAT
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AATATCCGCCAGGCAAAGGAGCGAGCCGAGAGGGAGCTGGAGAAGCTGCAGAACCGAGAG
GATTCTTCTGAAGGCATCAGAAAGAAGCTGGTGAAGCTGAGGA: :::::::::::::::::::::
: :::::::::::::::::::::
: ::::::::::::::::::::: GCTCGAAGAG
AAACATCGGGAGGCCAAGTCTCAGCCAGCACCTAGAAGTGCACCTGAAACAGAAAGAG
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 GGGACCCCTGCCCGAGCGTACCTGGACATCCCGAACCCGCGCTACCTGGGCCCTGCCATT
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 TACCGCAGGGGGCGGACCGAGTGCAGGAGCAAGTCTCTGGCCGCCCTGGAGCGA
 GAGAAGTCCCCCGCGGATGCTCAGCACGCGGAGAGCGGTCCCCCGGAGGCTGTTT
 GAAGACAGCAGCAGGGGCCGCTGCCTGCGGGAGCCGTGAGGACCCCGCTGTCCAGGTG
 AACAAGTCTGGGACCAGTCTTTCAGTATAA

- Restriction Sites:** Please inquire
- ACCN:** NM_007174
- Insert Size:** 8800 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).
- OTI Annotation:** The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
- 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_007174.1](#), [NP_009105.1](#)

RefSeq Size: 8576 bp

RefSeq ORF: 6084 bp

Locus ID: 11113

UniProt ID: [O14578](#)

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]
Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.