

Product datasheet for MC229319

Ciita (NM_001302619) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciita (NM_001302619) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ciita
Synonyms:	C2t; C2ta; EG669998; Gm9475; Mhc2ta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229319 representing NM_001302619 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCTGGGATCTCCAGAGGGCAGCTACCTGGAACCTTAAACAGTGATGCCGACCCCTACATCTCT
ACCACCTCTATGACCAGATGGACCTGGCTGGGGAGGAGGATCGAACTCAGCTCAGAGCCAGACACAGA
TACCATCAACTGCGACCAGTTCAGCAAGCTGTTGCAGGACATGGAACCTGGATGAAGAGACCCGGGAGGCC
TATGCCAACATTGCGGAACTGGATCAGTACGTGTTCCAGGATACCCAGCTCGAGGGCCTGAGCAAGGACC
TCTTCATAGAGCACATTGGAGCAGAGGAAGGCTTTGGTGAGAACATAGAGATCCCTGTAGAAGCAGGACA
GAAGCCTCAGAAGAGACGCTTCCCGAAGAGCATGCTATGGACTCAAAGCACAGGAAGCTAGTGCCACC
TCTAGGACCTCACTGAACTATTTGGATCTCCCACTGGGCACATCCAGATCTTCACCACTCTGCCCCAGG
GACTCTGGCAAATCTCAGGGGCTGGCACAGGTCTCTCCAGTGTCTAATCTACCACGGTGAGATGCCCA
GGTCAACCAAGTGCTCCCTTCAAGCAGCCTCAGTATCCCCAGTCTCCCCGAGTCCCAGACCCGCTGGC
TCCACCAGCCCCTTACACCATCTGCAGCTGACCTGCCAGCATGCCGAACTGCGCTGACCTCCCGTG
TAAATGAGACAGAGGACACATCTCCCTCCCCATGCCAAGAGGGTCCCAGTCTTCCATCAAGCTTCCAAA
ATGGCCAGAGGCTGTGGAGCGATTCCAGCACTCCCTACAGGACAAATACAAGGCATTGCCCCAGAGCCCA
AGGGGTCTCTGGTGGCCGTGGAGCTGGTACGGGCCAGGCTGAAAAGAGGAGCAACAAGAGCCAGGAAA
GGGAGCTGGCCACTCCCGACTGGACAGAGCGCCAGCTAGCCACGGTGGTCTGGCAGAGGTACTTCAGGT
TGTCAAGTACTGCAGGCGACCAGGAGAGACACAGGTGGTCTGCTGTGGCAAGGCTGGCCAGGAAAAG
AGCCACTGGGCCAGGACAGTGAGTCACACCTGGGCATGTGGCCAGTTGCTACAATATGACTTTGTCTTCT
ATGTCCCCTGTCATTGCTTGGATCGTCCCGGGACACCTACCACCTGCGGGATCTGCTCTGTCCCCGAG
CCTGCAGCCACTGGCCATGGATGACGAGGTCTTGATTATATCGTGAGGCAGCCAGACCGTGTCTGCTC
ATCCTAGATGCTTTCGAGGAGCTAGAGGCCAAGATGGCCTCCTGCACGGACCCTGTGGATCTCTGTCCC
CAGAGCCCTGCTCCCTCCGAGGACTGCTGGCTGGGATCTTCCAGCGGAAGCTACTGCGAGGCTGCACACT
GCTCCTCACAGCCCGGCCCGGGCCGCTGGCTCAGAGCCTGAGCAAGGAGATGCCATCTTTGAGGTG
CCCAGTCTCTACCAAGCAGGCCAAGACTTACATGAGGCACTACTTTGAGAAGCTCAGGGACAGCGGGGA



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ACCAAGACAAGGCCCTGGGCCTCTGGAGGGCCAGCCTCTTCTCTGCAGCTATAGTCACAGCCCTGTTGT
 GTGCAGGGCTGTGTGCCAGCTCTCCAAGGCCCTGCTAGAACAGGGCACAGAGGCCAGCTACCTGTACA
 CTTACAGGACTCTATGTCAGCCTGCTAGGTCTGCAGCTCAGAACAGTCTCCCGGAGCCTTAGTCGAGC
 TGGCCAAGCTGGCCTGGGAGCTGGGACGAAGACACCAAAGCACCTTGAAGAAACCCGGTTTTATCCGT
 GGAGGTGAAAACCTGGGCAGTGACCCAAGGCTTGATGCAGCAGACCCTGGAGACCACGGAGGCTCAACTG
 GCCTTCTCCAGTTTTCTGCTACAGTGTTCCTGGGTGCTGTGTGGCTGGCACAGTGAATGAAATCAAAG
 ACAAGGAGCTGCCACAGTACCTGGCCTTGACTCCGAGGAAGAAGAGACCCTATGACAACCTGGCTGGAGGG
 TGTACCACGCTTTCTGGCTGGATTAGTTTTCCAGCCTCGAGCCCACTGCCTGGGAGCTCTGGTGGACCT
 GCAGTGGCTGCAGTGGCGGATAGGAAACAGAAGGTTCTTACCAGGTACCTGAAGCGCCTGAAGCTGGGGA
 CACTCCGGGCAGGGAGGCTGCTGGAGCTGCTCCACTGTGCCACGAGACACAGCAACCTGGGATATGGGA
 GCATGTTGCACACCAGCTCCCTGGCCACCTCTCCTTCTGGGCACCCGGCTCACACCCCAGATGTGTAT
 GTGCTGGGCAGGGCCTTGGAGACAGCCAGCCAGGACTTCTCCTTGGACCTTCGTGAGACTGGCGTTGAGC
 CTTCTGGACTGGAAACCTCGTGGGACTCAGCTGTGTACCAGTTTCAGGGCCTCCTTGAGTGATACAAT
 GGCATTATGGGAGTCCCTCAGCAGCAGGGAGAAGCCAGCTACTCCAGGCGGCAGAGGAGAAGTTCACC
 ATTGAGCCATTTAAAGCCAAATCCCAAAGGATGTGGAAGACCTGGATCGTCTCGTGCAGACCCAGAGGC
 TGAGAAACCCCTCAGAAGATGCAGCCAAGGATCTTCTGCCATCCGGGACCTTAAGAAGCTAGAGTTTGC
 GTTGGGCCCATCTTGGGCCCCAGGCTTTCACACACTGGCAAAGATCCTTCCAGCCTTCTTCTCTG
 CAACACCTGGACCTGGACTCACTTAGTGAGAACAAGATCGGAGACAAGGGTGTGTCGAAGCTCTCAGCCA
 CCTTCCCTCAGCTGAAGGCCCTGGAGACGCTCAACTTGTCCAAAACAACATCACTGATGTGGGTGCCTG
 CAAGCTTGAGAAGCTCTGCCAGCCCTAGCCAAGTCCCTCCTAAGGCTGAGCTTGTACAATAACTGCATC
 TGTGACAAAGGAGCCAAGAGCCTGGCACAAGTACTCCGGACATGGTGTCCCTGCGTGTGATGGATGTCC
 AGTTCAACAAGTTCACGGCTGCCGGTGGCCAGCAACTGGCCTCCAGCCTCAGAAGTGCCTCAGGTGGA
 AACACTGGCAATGTGGACACCCACTATCCCTTTGGGGTTCAGGAACACCTGCAGCAGCTGGATGCCAGG
 ATCAGTCTGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302619
- Insert Size:** 3165 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302619.1](#), [NP_001289548.1](#)

RefSeq Size: 5666 bp

RefSeq ORF: 3165 bp

Locus ID: 12265

UniProt ID: [P79621](#)

Cytogenetics: 16 A1

Gene Summary: This gene encodes a member of the NOD-like receptor protein family. This protein acts as a transcriptional coactivator and component of the enhanceosome complex to stimulate transcription of MHC class II genes in the adaptive immune response. This protein may also regulate the transcription of MHC class I genes. Mutations in the human gene have been linked to a rare immunodeficiency, bare lymphocyte syndrome, and homozygous knockout mice exhibit many features of this disease. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]
Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region and uses a downstream start codon compared to variant 4. It encodes isoform 5, which is shorter and has a distinct N-terminus, compared to isoform 4.