

Product datasheet for MC229417

Ciita (NM_001243760) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ciita (NM_001243760) 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: >MC229417 representing NM_001243760
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCACTTCCAGGCCATCTGGCCCAAGTACAGACTGCTCTCCAGCCAGAAGCCAGGCAGGTGC
GGCCCTCCTGGATGGCCTGCTGGAAGAAGAGCTGCTCTCACGGGAATACCACTGTGCCTTGTGCATGA
GCCTGATGGTGTATGCCCTGGCCCGAAGATTTCCCTGACCCTGCTGGAGAAAGGGGACTTAGACTTGACT
TTCTTGAGCTGGGTCTGCAACAGTCTGCAGGCTCCACGGTAGAGAGGGGCACCAGCTACAGGGACCATG
GAGACCATAGTCTGTGTGCCACCATGGATCTGGGATCTCCAGAGGGCAGTACCTGGAACCTCTAACAG
TGATGCCGACCCCTACATCTCTACCACCTCTATGACCAGATGGACCTGGCTGGGAGGAGGAGATCGAA
CTCAGCTCAGAGCCAGACACAGATACCACTCAACTGCGACCAAGTTCAGCAAGCTGTTGCAGGACATGGAAC
TGGATGAAGAGACCCGGGAGGCCATGCCAACATTGCGGAAGTGGATCAGTACGTGTTCCAGGATACCCA
GCTCGAGGGCTGAGCAAGGACCTCTTCAAGCACATTGGAGCAGAGGAAGGCTTTGGTGAGAACATAGAG
ATCCCTGTAGAAGCAGGACAGAAGCCTCAGAAGAGACGCTTCCCGAAGAGCATGCTATGGACTCAAAGC
ACAGGAAGCTAGTGCCACCTCTAGGACCTCACTGAACATTTGGATCTCCCACTGGGCACATCCAGAT
CTTCACCACTCTGCCCCAGGGACTCTGGCAAATCTCAGGGGCTGGCACAGGTCTCTCCAGTGTCTAATC
TACCACGGTGAGATGCCCCAGGTCAACCAAGTGCTCCCTTCAAGCAGCCTCAGTATCCCCAGTCTCCCCG
AGTCCCCAGACCGCCTGGCTCCACCAGCCCTTACACCATCTGCAGCTGACCTGCCAGCATGCCCGA
ACCTGCGCTGACCTCCCGTGTAAATGAGACAGAGGACACATCTCCCTCCCAGTCCCAAGAGGGTCCCGAG
TCTTCCATCAAGCTTCCAAAATGGCCAGAGGCTGTGGAGCGATTCCAGCACTCCCTACAGGACAAATACA
AGGCATTGCCCCAGAGCCCAAGGGTCTCTGGTGGCCGTGGAGCTGGTACGGGCCAGGTGAAAGAGG
CAGCAACAAGAGCCAGGAAAGGGAGCTGGCCACTCCCAGTGGACAGAGCGCCAGCTAGCCACGGTGGT
CTGGCAGAGGTAATTCAGGTTGTCAGTACTGCAGGCGACCAGGAGAGACACAGGTGGTCTGCTGTGCTGG
GCAAGGCTGGCCAGGAAAGAGCCACTGGGCCAGGACAGTGAAGTACACCTGGGCATGTGGCCAGTTGCT
ACAATATGACTTTGTCTTCTATGTCCTTGTCTTGTGCTTGGATCGTCCCGGGGACACCTACCACCTGCGG
GATCTGCTCTGTCCCCGAGCCTGCAGCCACTGGCCATGGATGACGAGGTCTTGATTATATCGTGAGGC



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AGCCAGACCGTGTCTGCTCATCCTAGATGCTTTCGAGGAGCTAGAGGCCAAGATGGCCTCCTGCACGG
ACCCTGTGGATCTCTGTCCCGAGAGCCCTGCTCCCTCCGAGGACTGCTGGCTGGGATCTTCCAGCGGAAG
CTACTGCGAGGCTGCACACTGCTCCTCACAGCCCGGCCCGGGCCGCTGGCTCAGAGCCTGAGCAAGG
CAGATGCCATCTTTGAGGTGCCAGCTTCTCTACCAAGCAGGCCAAGACTTACATGAGGCACTACTTTGA
GAACTCAGGGACAGCGGGGAACCAAGACAAGGCCCTGGCCTCCTGGAGGGCCAGCCTCTTCTGCAGC
TATAGTCACAGCCCTGTGTGTGCAGGGCTGTGTGCCAGCTCTCCAAGGCCCTGTAGAACAGAGGCACAG
AGGCCAGCTACCTTGTACACTTACAGGACTCTATGTCAGCCTGCTAGGCTCCTGCAGCTCAGAACAGTCC
TCCCGGAGCCTTAGTCGAGCTGGCCAAGCTGGCCTGGGAGCTGGGACGAAGACACCAAGCACCTTGCAA
GAAACCCGGTTTTTCATCCGTGGAGGTGAAAACCTGGGCAGTGACCCAAGGCTTGATGCAGCAGACCTGG
AGACCACGGAGGCTCAACTGGCCTTCTCCAGTTTTCTGCTACAGTGTTTCTGGGTGCTGTGTGGCTGGC
ACAGTGAATGAAATCAAAGACAAGGAGCTGCCACAGTACCTGGCCTTGACTCCGAGGAAGAAGAGACCC
TATGACAACTGGCTGGAGGGTGTACCACGCTTCTGGCTGGATTAGTTTTCCAGCCTCGAGCCACTGCC
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GAAGCGCCTGAAGCTGGGACACTCCGGCAGGGAGGCTGCTGGAGCTGCTCCACTGTGCCACGAGACA
CAGCAACCTGGGATATGGGAGCATGTTGCACACCAGCTCCCTGGCCACCTCTCCTTCTGGGCACCCGGC
TCACACCCAGATGTGTATGTGCTGGGAGGGCCTTGGAGACAGCCAGCCAGGACTTCTCCTTGGACCT
TCGTGAGACTGGCGTTGAGCCTTCTGGACTGGGAAACCTCGTGGGACTCAGCTGTGTACCAGTTTCAGG
GCCTCCTTGAGTGATAACAATGGCATTATGGGAGTCCCTTCAGCAGCAGGGAGAAGCCAGCTACTCCAGG
CGGCAGAGGAGAAGTTCACCATTTAGGCCATTTAAAGCCAAATCCCAAAGGATGTGGAAGACCTGGATCG
TCTCGTGCAGACCAGAGGCTGAGAAACCCCTCAGAAGATGCAGCCAAGGATCTTCTGCCATCCGGGAC
CTTAAGAAGCTAGAGTTTGCCTTGGGCCCATCTTGGGCCCCAGGCTTCCCACTGGCAAAGATCC
TTCCAGCCTTCTCTCTGCAACACCTGGACCTGGACTCACTTAGTGAGAACAAGATCGGAGACAAGGG
TGTGTCGAAGCTCTCAGCACCTTCCCTCAGTGAAGGCCCTGGAGACGCTCAACTGTCCAAAACAAC
ATCACTGATGTGGGTGCCTGCAAGCTTGCAGAAGCTCTGCCAGCCCTAGCCAAGTCCCTAAGGCTGA
GCTTGTACAATAACTGCATCTGTGACAAAAGGAGCCAAGAGCCTGGCACAAGTACTTCCGGACATGGTGTG
CCTGCGTGTGATGGATGTCCAGTTCAACAAGTTCACGGCTGCCGGTGGCCAGCAACTGGCCTCCAGCCTT
CAGAAGTGCCCTCAGGTGGAAACACTGGCAATGTGGACACCCACTATCCCCTTTGGGGTTTCCAGAACACC
TGCAGCAGCTGGATGCCAGGATCAGTCTGAGATGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001243760
- Insert Size:** 3465 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_001243760.2](#), [NP_001230689.1](#)

RefSeq Size: 5435 bp

RefSeq ORF: 3465 bp

Locus ID: 12265

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 (1) uses an alternate in-frame splice site in the 5' coding region, compared to variant 4. It encodes isoform 1, which is shorter than isoform 4.