

Product datasheet for MC229420

Ciita (NM_001302618) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciita (NM_001302618) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ciita
Synonyms:	C2t; C2ta; EG669998; Gm9475; Mhc2ta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229420 representing NM_001302618 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAACCACTTCCAGGCCATCCTGGCCCAAGTACAGACTGCTCTCCAGCCAGAAGCCAGGCAGGTGC
GGGCCCTCCTGGATGGCCTGCTGGAAGAAGAGCTGCTCTACGGGAATACCACTGTGCCTTGCTGCATGA
GCCTGATGGTGTATGCCCTGGCCCGAAGATTTCCCTGACCCTGCTGGAGAAAGGGGACTTAGACTTGACT
TTCTTGAGCTGGGTCTGCAACAGTCTGCAGGCTCCACGGTAGAGAGGGGCACCAGCTACAGGGACCATG
GAGACCATAGTCTGTGTGCCACCATGGATCTGGGATCTCCAGAGGGCAGCTACCTGGAACCTTAAACAG
TGATGCCGACCCCTACATCTCTACCACCTCTATGACCAGATGGACCTGGCTGGGAGGAGGAGATCGAA
CTCAGCTCAGAGCCAGACACAGATACCATCAACTGCGACCAAGTTCAGCAAGCTGTTGCAGGACATGGAAC
TGGATGAAGAGACCCGGGAGGCCTATGCCAACATTGCGGAACTGGATCAGTACGTGTTCCAGGATACCCA
GCTCGAGGGCCTGAGCAAGGACCTTTCATAGAGCACATTGGAGCAGAGGAAGGCTTTGGTGAGAACATA
GAGATCCCTGTAGAAGCAGGACAGAAGCCTCAGAAGAGACGCTTCCCAGGAGGAGCATGCTATGGACTCAA
AGCACAGGAAGCTAGTGCCACCTCTAGGACCTCACTGAACTATTTGGATCTCCCCACTGGGCACATCCA
GATCTTACCACCTCTGCCCCAGGGACTCTGGCAAATCTCAGGGGCTGGCACAGGTCTCTCCAGTGTCTTA
ATCTACCACGGTGAGATGCCCGAGTCAACCAAGTCTCCCTTCAAGCAGCCTCAGTATCCCCAGTCTCC
CCGAGTCCCAGACCCGGCTGGCTCCACCAGCCCTTACACCATTCTGCAGCTGACCTGCCAGCATGCC
CGAACCTGCGCTGACCTCCCGTGTAAATGAGACAGAGGACACATCTCCCTCCCCATGCCAAGAGGGTCCC
GAGTCTTCCATCAAGCTTCCAAAATGGCCAGAGGCTGTGGAGCGATTCCAGCACTCCCTACAGGACAAAAT
ACAAGGCATTGCCCCAGAGCCCAAGGGTCTCTGGTGGCCGTGGAGCTGGTACGGGCCAGGCTGGAAAAG
AGGCAGCAACAAGAGCCAGGAAAGGGAGCTGGCCACTCCCGACTGGACAGAGCGCCAGCTAGCCACGGT
GGTCTGGCAGAGGTACTTCAAGTGTGTCAGTACTGCAGGCGACCAGGAGACACAGGTGGTTCGCTGTGC
TGGCAAGGCTGGCCAGGAAAGAGCCACTGGCCAGGACAGTGTGACACCTGGGCATGTGGCCAGTT
GCTACAATATGACTTTGTCTTCTATGTCCCTGTCATTGCTTGGATCGTCCCGGGACACCTACCACCTG



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CGGGATCTGCTCTGTCCCCGAGCCTGCAGCCACTGGCCATGGATGACGAGGTCCTTGATTATATCGTGA
 GGCAGCCAGACCGTGTCTGCTCATCTAGATGCTTTCGAGGAGCTAGAGGCCAAGATGGCCTCCTGCA
 CGGACCTGTGGATCTCTGTCCCAGAGCCCTGCTCCCTCCGAGGACTGCTGGCTGGGATCTTCCAGCGG
 AAGCTACTGCGAGGCTGCACACTGCTCCTCACAGCCCGGGCCCGGGCCCTGGCTCAGAGCCTGAGCA
 AGGCAGATGCCATCTTTGAGGTGCCAGCTTCTACCAAGCAGGCCAAGACTTACATGAGGCACTACTT
 TGAGAAGCTCAGGGACAGCGGGGAACCAAGACAAGGCCCTGGGCCCTCTGGAGGGCCAGCCTTCTCTGC
 AGCTATAGTCACAGCCCTGTTGTGTGCAGGGCTGTGTGCCAGCTCCTCAAGGCCCTGCTAGAACAGGGCA
 CAGAGGCCAGCTACCTTGTACACTTACAGGACTCTATGTCAGCCTGCTAGGTCCTGCAGCTCAGAACAG
 TCCTCCCGGAGCCTTAGTCGAGCTGGCCAAGCTGGCCTGGGAGCTGGGACGAAGACACCAAGCACCTTG
 CAAGAAACCCGGTTTTTCATCCGTGGAGGTGAAACCTGGGCAGTGACCCAAGGCTTGATGCAGCAGACCC
 TGGAGACCACGGAGGCTCAACTGGCCTTCTCCAGTTTTCTGCTACAGTGTTCCTGGGTGCTGTGTGGCT
 GGCACAGTGAATGAAATCAAAGACAAGGAGCTGCCACAGTACCTGGCCTTGACTCCGAGGAAGAAGAGA
 CCCTATGACAACCTGGCTGGAGGGTGTACCACGCTTCTGGCTGGATTAGTTTTCCAGCCTCGAGCCACT
 GCCTGGGAGCTCTGGTGGAGCCTGCAGTGGCTGCAGTGGCGGATAGGAAACAGAAGGTTCTTACCAGGTA
 CCTGAAGCGCCTGAAGCTGGGGACACTCCGGCCAGGGAGGCTGCTGGAGCTGCTCCACTGTGCCACGAG
 ACACAGCAACCTGGGATATGGGAGCATGTTGCACACCAGCTCCCTGGCCACTCTCTTCCCTGGGACCC
 GGCTCACACCCCCAGATGTGTATGTGCTGGGCAGGGCCTTGGAGACAGCCAGCCAGGACTTCTCCTTGGA
 CCTTCGTGAGACTGGCGTTGAGCCTTCTGGACTGGGAAACCTCGTGGGACTCAGCTGTGTACCAGTTTC
 AGGGCCTCCTTGAGTGATACAATGGCATTATGGGAGTCCCTTCAGCAGCAGGGAGAAGCCAGCTACTCC
 AGGCGGCAGAGGAGAAGTTCACCATTGAGCCATTTAAAGCCAAATCCCCAAGGATGTGGAAGACCTGGA
 TCGTCTCGTGCAGACCCAGAGGCTGAGAAACCCCTCAGAAGATGCAGCCAAGGATCTTCTGCCATCCGG
 GACCTTAAAGAAGCTAGAGTTTGCCTGGGCCCATCTTGGGCCCCAGGCTTCCCCACACTGGCAAAGA
 TCCTTCCAGCCTTCTCTCTGCAACACTGGACCTGGACTCACTTAGTGAGAACAAGATCGGAGACAA
 GGGTGTGTCGAAGCTCTCAGCCACCTCCCTCAGCTGAAGGCCCTGGAGAGCCTCAACTGTCCCAAAAC
 AACATCACTGATGTGGTGCCTGCAAGCTTGCAGAAGCTCTGCCAGCCCTAGCCAAGTCCCTCCTAAGGC
 TGAGCTTGTACAATAACTGCATCTGTGACAAAGGAGCCAAGAGCCTGGCACAAGTACTTCCGGACATGGT
 GTCCCTGCGTGTGATGGATGTCCAGTTCAACAAGTTCACGGCTGCCGGTGGCCAGCAACTGGCCTCCAGC
 CTTCAGAAGTCCCTCAGGTGGAACACTGGCAATGTGGACACCCACTATCCCCTTGGGGTTCCAGGAAC
 ACCTGCAGCAGCTGGATGCCAGGATCAGTCTGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302618
- Insert Size:** 3468 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_001302618.1](#), [NP_001289547.1](#)

RefSeq Size: 5438 bp

RefSeq ORF: 3468 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 (4) represents the longest transcript and encodes the longest isoform (4).