

## Product datasheet for RN217454

### Ciita (NM\_001270803) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ciita (NM_001270803) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ciita
Synonyms:	C2ta; Mhc2ta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217454 representing NM_001270803 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCTGCCAGGTTCCCGCCCTTCTGGGTCTTACCTGCAAGGCCATACTCTGTGTGCCACCATGGAGC  
TGGGTCTCCAGAGGGCAGCTACCTGGAGCTCCTAACAGTGATGCTGACCCCTACACCTCTACCCT  
CTATGACCAGATGGACCTTGCTGGGAGGAAGAGATCGAACTCAACTCAGAGACAGACATGGACACCATC  
AACTGTGACCAGTTCAGCAAGCTGTTGCAGGATATGGAAATGGATGAAGAGACCCGGGAGGCTATGCCA  
ATATCGCGGAAGTGGATCAGTACGTGTTCCAGGATACCCAGCTGGAGGGCCTGAGCAAGGACCTTTCAT  
ACAGCACATTGGACCAGAGGAAGGCTTTGGTGAGAACGTAGAGGGCCCTGCAGAATCAGGAGAGAAGCCT  
CAGAAGAGACGCTTCCAGAAGAGCATGCTATGGACTCAAAGCACAGGAAACTAGTGCCTCCCTCTAGGA  
CCTCACTGAACTATTTGGATCTCCCCGCTGGGCATATCCAGATCTTCACCACTCTGCCCCAGGGACTCTG  
GCAAATCTCAGGGGTTGGCACAGGGCTCTCCAGTGTCTAGTCTACCACGGTGAGATGCCCCAGGTCAAC  
CAATTACTCTCTCAAGCAGCCCCACTGTCCCCAGTCTCCCCAGTCCCCAGACCCGGCTGGCTCCACCA  
GCCCCCTTCGCGCCATCCACAGCTGACCTGCCCGCATGCCTGAACCTGCTGACCTCCCGTGTAAATGA  
GACAGAGGACACAACACCCCTCCCATGCCAAGAGGATCCCGAGCCTTCCATCAAGCTTCCAAAATGG  
CCAGAGTCCGTGGAGCGTTCCAGCACTCCCTACAGGACAAGTACCAAGCACTGCCCGGGAGCCCAAGTG  
GTCCTCTGGTAGCCATGGAGCTGGTGCGGGCCAGGTTGGAAGAGGTAGCAACAAGAGTCAAGAAAGGGA  
GCTGGCCACTCTGACTGGACAGAGCGCCAGCTAGCCCATGGCGGTCTGGCCGAGGTAATTCGGGTTGTC  
GGCGACTCCAGGAGATCACGAGAGACACAGGTGGTCGCTGTGCTGGCAAGGCTGGTCAGGGCAAGAGCC  
ACTGGGCCAGGACAGTGAACACATTTGGGCACAAGGCCAGTTACCACAATATGACTTTGTCTTCTACGT  
CCCCTGTCAATGCTTGGATCGCCCTGGGACACCTACCACCTGCGGGATCTGCTGTCCCCGAACCTG  
CAGCCACTGGCCATGGATGACGAGTCAATGATCATATTTGTGAGGCAGCCGGACCGTGTCTGCTCATCC  
TAGATGCTTTTGGAGGCTAGAGGCCAAAGACAGCCTCCTGCATGGACCTGTGGACCTCTGTCCCCAGA  
GCCCTGCTCCCTCCGGGACTGTGGCTGGGCTCTCCAGCGTAAGCTGTGCGAGGCTGCACCCTGCTC  
CTCACAGCCCGCCCCGGGGCCGCTGGCTCAGAGCCTGAGCAAGGCAGATGCCATCTTCGAGGTGCCCA



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GCTTCTCTACGAAACAGGCCAGATCTATATGAGGCACTACTTTGAGAACTCAGGGACAGCAGGGAGTCA  
 CGACAAGGCCCTGGGCTCCTGGAGGGCCAGCCTTTTCTCCTCACCCACAGTCACAGCCCTGTTCTGTGC  
 AGTGCCGTGTGTAGCTCTCAAGGCCCTGCTGGATCAGGGCGCAGAGGCCAGCTACCTTGCACACTCA  
 CAGGACTCTATGTTGGCCTGCTAGGCCCTGCAGCTCAGAACAGTCCTCCTGGAGCCTTAGTTGAGTTGGC  
 CAAGCTAGCCTGGGAGCTGGGACGGAGGCCAAAGCACCTTGCAGGAAACCCAGTTTCCATCCGTGGAA  
 GTGAAGACCTGGGCTGTGGCCAAAGCTTGATGCAGCAGACCACAGGCCCAACTGGCTTTCTCCAGTT  
 TTCTGTACAGTCTTCTGGTGTGTGGCTGGCACAGTGAATGAGATGAAAGACAAGGAGCTGCC  
 ACAGTACCTGGCCTTGACCCCGAGGAAGAAGCGACCCTATGACAACCTGGCTGGAGGGCGTACCACGCTTT  
 CTGGCTGGCTTAGTTTTCCAGCCTCGAGCCCACTGCCTGGGAGCTCTGGTGGAGCCTGCAATGGCTGCAG  
 TGGCAGATAGGAAACGGAAGTTCTTACCAGGTACCTGAAGCGCTTGAAGCTGGGGACACTTCGGGCCGG  
 GAGGTTGTGGAGCTGCTACACTGTGCCACGAAACACAGGAACCTGGTATTTGGAAGCATGTTTACAC  
 CAGCTCCCAGGGCACCTCTCCTTCTGGGCACACGGCTCACAGCCCAGATGTGTATGTTCTGGGCAGGG  
 CCTTGGAGACAGCCAGCCAGGACTTCTCCTTGGACCTTCGTGAGCTGGCATCGAGCCCTCCAGACTGGG  
 AGACCTCGTGGGACTCAGCTGTGTACCAGTTTTCAGGGCCTCCTTGAGTGACACAATGGCATTATGGGAG  
 TCCCTACAGCATCAGGGAGAAACCCAGCTACTCCAGGCGCAGAGGAGAAGTTTACCATTGAGCCATTTA  
 AGGCCAAATCCCCAAAGGATGTGGAAGACTGGACAGCCTTGTGCAGACCAGAGGCTGAGAAACCCCTC  
 AGCGGATGCAGCAAGGATCTTCTGCCATCCGGGACCTTAAGAAGCTAGAGTTTGCATTGGGCCCCGTC  
 TTGGGCCCGCAGGCTTTCCACACTGGCCAAGATCCTTCCAGCATTCTTCCCTGCAGCACCTGGACC  
 TGGACTCACTTAGCGAGAACAAGATCGGGGACAAGGGTGTGTGCAAGCTCTCAGCCACCTTCCCTCAGCT  
 GAAGGCCCTGGAGACGCTCAACCTGTCCAGAATAGCATCACCGATGTGGGAGCTTGAAGCTTGCAGAA  
 GCCCTGCCGGCCCTGGCCAAGTCCCTCCTAAGGCTGAGCTTGTACAACAACCTGCATCTGTGACGAAGGG  
 CCAAGAGCCTGGCAGAGTGTTCAGACATGGTGTCCCTCCGGTGATGGATGTCCAGTTCAACAAGTT  
 CACGGCTGTGGGGCCCAGCAGCTGACCTCCAGCCTTCAAGAGTCCCTCAGTGGAGACTGGCAATG  
 TGGACACCCACTATCCCCTTTGGGGTCCAGGAACACCTGCAGCAGCTGGATGCCCGGATTAGCCTGAGAT  
 GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001270803
- Insert Size:** 3222 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\\_001270803.1](#), [NP\\_001257732.1](#)

**RefSeq Size:** 5076 bp

**RefSeq ORF:** 3222 bp

**Locus ID:** 85483

**Cytogenetics:** 10q11

**Gene Summary:** may play a role in transcriptional activation of MHC class II genes [RGD, Feb 2006]  
Transcript Variant: This variant (2) has an alternate first exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.