

## Product datasheet for **RR204145**

### Ciita (NM\_053529) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Ciita (NM\_053529) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Ciita  
 Synonyms: C2ta; Mhc2ta  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR204145 representing NM\_053529  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACCACTTCCAGGCCATCCTGGCCCAGGTGCAGACACTGCTGTCCAGTCAGCAGCCCAGGCAGGTGC  
 GGGCCCTCCTGGATGGCTTGCTGGAAGAAGAGCTGCTCTCACGGGAATACCATTGTGCCCTGCTTACATGA  
 GCCTGATGGTGAAGCTCTGGCCCAGGATTTCCCTCACCTTGCTGGAGAAAGGGGACCTGGACTTGGCG  
 TTTGTGAGCTGGGTTTGCAACAGGCTGCAGTCCCTGAGGTAGAGAGGGGCCCAACTGCAGGGACCATG  
 GAGGCCATACTCTGTGTGCCACCATGGAGCTGGGGTCTCCAGAGGGCAGCTACCTGGAGCTCCTTAACAG  
 TGATGCTGACCCCTACACCTCTACCACCTCTATGACCAGATGGACCTTGTGGGGAGGAAGAGATCGAA  
 CTCAACTCAGAGACAGACATGGACACCATCAACTGTGACCAGTTCAGCAAGCTGTTGCAGGATATGGAAA  
 TGGATGAAGAGACCCGGGAGGCCATGCCAATATCGCGGAACTGGATCAGTACGTGTTCCAGGATACCCA  
 GCTGGAGGGCTGAGCAAGGACCTTTCATACAGCACATTGGACCAGAGGAAGGCTTTGGTGAGAACGTA  
 GAGGGCCCTGCAGAATCAGGAGAGAAGCCTCAGAAGAGACGCTTCCAGAAGAGCATGCTATGGACTCAA  
 AGCACAGGAAACTAGTGCCTCCCTTAGGACCTCACTGAACTATTGGATCTCCCGCTGGGCATATCCA  
 GATCTTACCACCTCTGCCCCAGGACTCTGGCAAATCTCAGGGTTGGCACAGGGCTCTCCAGTGTCTTA  
 GTCTACCACGGTGAGATGCCCCAGGTCAACCAATTACTCTTCAAGCAGCCCCACTGTCCCCAGTCTCC  
 CCGAGTCCCAGACCGGCTGGCTCCACCAGCCCTTCGCGCCATCCACAGCTGACCTGCCCGGCATGCC  
 TGAACCTGCTCTGACCTCCCGTGTAAATGAGACAGAGGACACAACACCCCTCCCATGCCAAGAGGAT  
 CCCGAGCCTTCCATCAAGCTTCCAAAATGGCCAGAGTCCGTGGAGCGGTTCCAGCACTCCCTACAGGACA  
 AGTACCAAGCACTGCCCGGAGCCCAAGTGGTCTCTGGTAGCCATGGAGCTGGTGGCGCCAGGTGGA  
 AAGAGGTAGCAACAAGAGTCAGGAAAGGGAGCTGGCCACTCCTGACTGGACAGAGCGCCAGCTAGCCCAT  
 GCGGCTCTGGCCGAGTACTTCGGGTTGTGGCGACTCCAGGAGATCACGAGAGACAGGTGGTCTGCTG  
 TGCTGGGCAAGGCTGGTCAAGGCAAGAGCCACTGGCCAGGACAGTGGCCACATTTGGGACAAGGCCA  
 GTTACCACAATATGACTTTGTCTTCTACGTCCCTGTCAATGCTTGGATCGCCCTGGGGACACCTACCAC  
 CTGCGGGATCTGCTGTCCCCGAACCTGCAGCCACTGGCCATGGATGACGAGGTCATTGATCATATTG



[View online »](#)

TGAGGCAGCCGGACCGTGTCTGCTCATCCTAGATGCTTTTGGAGAGCTAGAGGCCCAAGACAGCCTCCT  
GCATGGACCTGTGGACCTCTGTCCCCAGAGCCCTGCTCCCTCCGGGGACTGCTGGCTGGGCTCTTCCAG  
CGTAAGCTGCTGCGAGGCTGCACCCTGCTCTCACAGCCCGGCCCGGGCCGCTGGCTCAGAGCCTGA  
GCAAGGCAGATGCCATCTTCGAGGTGCCAGCTTCTCTACGAAACAGGCCAGATCTATATGAGGCACTA  
CTTTGAGAAGCTCAGGGACAGCAGGGAGTACGACAAGGCCCTGGGCTCCTGGAGGGCCAGCCTTTTCTC  
CTCACCCACAGTACAGCCCTGTTCTGTGCAGTGCCGTGTGTAGCTCTCCAAGGCCCTGGATCAGG  
GCGCAGAGGCCAGCTACCTTGACACTCACAGGACTCTATGTTGGCTGCTAGGCCCTGCAGCTCAGAA  
CAGTCCTCCTGGAGCCTTAGTTGAGTTGGCCAAGCTAGCCTGGGAGCTGGGACGGAGGCACCAAAGCACC  
TTGCAGGAAACCCAGTTTCCATCCGTGGAAGTGAAGACCTGGGCTGTGGCCCAAGGCTTGATGCAGCAGA  
CCACAGAGGCCCAACTGGCTTTCTCAGTTTTCTGCTACAGTGTCTTCTGGGTGTGTGTGGCTGGCACA  
GTGCAATGAGATGAAAGACAAGGAGCTGCCACAGTACCTGGCCTTGACCCCGAGGAAGAAGCACCCTAT  
GACAACTGGCTGGAGGGCGTACCACGCTTTCTGGCTGGCTTAGTTTTCCAGCCTCGAGCCCACTGCCTGG  
GAGCTCTGGTGGAGCCTGCAATGGCTGCAGTGGCAGATAGGAAACGGAAGTTTACCAGGTACCTGAA  
GCGCTTGAAGCTGGGACACTTCGGGCCGGGAGTTGCTGGAGCTGCTACACTGTGCCACGAAACACAG  
GAACTGGTATTTGGAAGCATGTTTACACCAGCTCCCAGGGCACCTCTCCTTCTGGGCACACGGCTCA  
CAGCCCCAGATGTGTATGTTCTGGGCAGGGCCTTGAGACAGCCAGCCAGGACTTCTCCTTGGACCTTCG  
TCAGACTGGCATCGAGCCCTCCAGACTGGGAGACCTCGTGGGACTCAGCTGTGTACCAGTTTCAGGGCC  
TCCTTGAGTGACACAATGGCATTATGGGAGTCCCTACAGCATCAGGGAGAAAACCCAGCTACTCCAGGCGG  
CAGAGGAGAAGTTCACCATTTAGCCATTTAAGGCCAAATCCCCAAAGGATGTGGAAGACCTGGACAGCCT  
TGTGCAGACCCAGAGGCTGAGAAACCCCTCAGCGGATGCAGCCAAGGATCTTCTGCCATCCGGGACCTT  
AGAAGCTAGAGTTTGCATTGGGCCCGTCTTGGGCCCGCAGGCTTTCCCACACTGGCCAAGATCCTTC  
CAGCATTCTCTCCCTGCAGCACCTGGACCTGGACTCACTTAGCGAGAACAAGATCGGGGACAAGGGTGT  
GTCGAAGCTCTCAGCCACCTTCCCTCAGCTGAAGGCCCTGGAGACGCTCAACCTGTCCAGAATAGCATC  
ACCGATGTGGGAGCTTGCAAGCTTGCAAGCCCTGCCGGCCCTGGCCAAGTCCCTCCTAAGGCTGAGCT  
TGTACAACAACCTGCATCTGTGACGAAGGGGCAAGAGCCTGGCACGAGTGCTTCCAGACATGGTGTCCCT  
CCGGGTGATGGATGTCCAGTTCAACAAGTTCACGGCTGTCCGGGCCAGCAGCTGACCTCCAGCCTTCAG  
AAGTGCCCTCAGGTGGAGACACTGGCAATGTGGACACCCACTATCCCCTTGGGGTCCAGGAACACCTGC  
AGCAGCTGGATGCCCGGATTAGCCTGAGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204145 representing NM\_053529  
 Red=Cloning site Green=Tags(s)

MNHFQAILAQVQTLLSSQQPRQVRALLDGLLEEELL SREYHCALLHEPDGEALARKISLTLLEKGDLDLA  
 FVSWVCNRLQVPEVERGPNCRDHGGHTLCATMELGSPGSEYELLLNSDADPLHL YHL YDQMDLAGEEIE  
 LNSETDMDTINCDQF SKLLQDMEMDEETREAYANIAELDQYVFQDTQLEGLSKDLFIQHIGPEEGFGENV  
 EGPAESGEKPKQRRFP EEHAMDSKHKRLVPPSRTSLNYLDLPAGHIQIFFTL PQGLWQISGVGTGLSSVL  
 VYHGEMPQYNQLLSSSSPTVPSLPESDRPGSTSPFAPSTADLPGMPEPALTSRVNETEDTTPPSPCQED  
 PPSIKLKPWPESVERFQHS LQDKYQALPGSPSGPLVAMELVRARLERGSNKSQERELATPDWTERQLAH  
 GGLAEVLRVVGDSRRSRETQVAVL GKAGQKSHWARTVSHIWAQGQLPQYDFVYVPCQCLDRPGDTYH  
 LRDLLCPPNLQPLAMDDEVIDHIVRQPDRVLLILDAFEEL EAQDSL LHGPGGPLSPEPCSLRGLLAGLFQ  
 RKLLRGCTLLL TARPRGLAQSLSKADAI FEVPSFSTKQAQIYMRHYFENSGTAGSHDKALGLEGPFL  
 LTHSHSPVLSAVCQLSKALLDQGAEAQLPCTLTGLYVGLLGPAAQNSPPGALVELAKLAWELGRRHQST  
 LQETQFPSVEVKTWAVAQGLMQTTEAQLAFSSFL LQCFLGAVWLAQC NEMKDKELPQYLALTPRKKRPY  
 DNWLEGVPRFLAGLVFQ PRAHCLGALVEPAMA VADRKRKVLTRYLKRKLKGLTRAGRLLELLHCAHETQ  
 EPGIWKHVSHQLPGHLSFLGTRLTAPDYYVLGRALETASQDFSLDLRQTGIEPSRLGDLVGLSCVTSFRA  
 SLSDTMALWESLQHGETQLLQAAEEKFTIEPFKAKSPKDVEDLSLVQTQRLRNP SADA AKDLPAIRDL  
 KKLEFALGPVLPQAFPTLAKILPAFSSLQHLDLDSLSENKIGDKGVSKLSATFPQLKALETNLNSQNSI  
 TDVGACKLAEALPALAKSLLRRLSLYNNICDEGAKSLARVLPDMVSLRVM DVQFNKFTAVGAQQLTSSLQ  
 KCPQVETLAMWPTTIPFGVQEHLQQLDARISLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

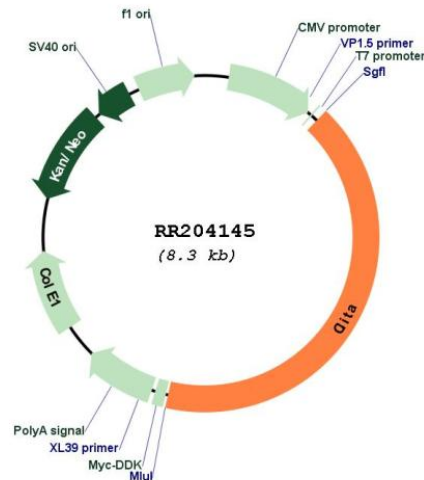
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_053529

ORF Size: 3459 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_053529.2](#), [NP\\_445981.2](#)

RefSeq Size: 5295 bp

RefSeq ORF: 3462 bp

Locus ID: 85483

Cytogenetics: 10q11

MW: 127.4 kDa

**Gene Summary:**                    may play a role in transcriptional activation of MHC class II genes [RGD, Feb 2006]