

Product datasheet for MR231554

Ciita (NM_001243761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciita (NM_001243761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ciita
Synonyms:	C2t; C2ta; EG669998; Gm9475; Mhc2ta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231554 representing NM_001243761 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGCAGGCAGCACTCAGAAGCACGGGGCACAGCCACAGCCGCGACCATAGTCTGTGTGCCACCATGGATC
TGGGATCTCCAGAGGGCAGCTACCTGGAACCTTAACAGTGATGCCGACCCCTACATCTCTACCACCT
CTATGACCAGATGGACCTGGCTGGGAGGAGGAGATCGAACTCAGCTCAGAGCCAGACACAGATACCATC
AACTGCGACCAAGTTCAGCAAGCTGTTGCAGGACATGGAAGTGGATGAAGAGACCCGGGAGGCTATGCCA
ACATTGCGGAAGTGGATCAGTACGTGTTCCAGGATACCCAGCTCGAGGGCCTGAGCAAGGACCTTCTCAT
AGAGCACATTGGAGCAGAGGAAGGCTTTGGTGAGAACATAGAGATCCCTGTAGAAGCAGGACAGAAGCCT
CAGAAGAGACGCTTCCCAGGAGCATGCTATGGACTCAAAGCACAGGAAGCTAGTGCCACCTCTAGGA
CCTCACTGAACTATTTGGATCTCCCCACTGGGCACATCCAGATCTTCACCACTCTGCCCCAGGGACTCTG
GCAAATCTCAGGGGCTGGCACAGGTCTCTCCAGTGTCTAATCTACCACGGTGAGATGCCCCAGGTCAAC
CAAGTGCTCCCTCAAGCAGCTCAGTATCCCCAGTCTCCCCAGTCCCCAGACCCGGCTGGCTCCACCA
GACAGAGGACACATCTCCCTCCCATGCCAAGAGGGTCCCGAGTCTCCATCAAGCTTCCAAAATGGCCA
GAGGCTGTGGAGCGATTCCAGCACTCCCTACAGGACAAAATAAAGGCATTGCCCCAGAGCCAAAGGGGTC
CTCTGGTGGCCGTGGAGCTGGTACGGGCCAGGCTGGAAAGAGGCAGCAACAAGAGCCAGGAAAGGGAGCT
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GACTGCAGGCGACCAGGAGACACAGGTGGTCTGCTGGCAAGGCTGGCCAGGAAAGAGCCACT
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CTGCTCCCTCCGAGGACTGCTGGCTGGGATCTTCCAGCGGAAGCTACTGCGAGGCTGCACACTGCTCCTC
ACAGCCCGGCCCGGGCCGCTGGCTCAGAGCCTGAGCAAGGCAGATGCCATCTTTGAGGTGCCAGCT



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TCTCTACCAAGCAGGCCAAGACTTACATGAGGCACTACTTTGAGAACTCAGGGACAGCGGGGAACCAAGA
 CAAGGCCCTGGGCTCTGGAGGGCCAGCCTCTTCTCTGCAGCTATAGTCACAGCCCTGTTGTGTGCAGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231554 representing NM_001243761
 Red=Cloning site Green=Tags(s)

MQAALRSTGSHSRDHS LCATMDLGSPEGSYLELLNSDADPLHL YHL YDQMDLAGEEEIEI LSSEPDTDTI
 NCDQF SKLLQDMELDEETREAYANIAELDQYVFQDTQLEGLSKDLF IEHIGAE EFGENIEIPVEAGQKP
 QKR RFPEEHAMDSKHRKLVPTSRTSLNYLDLPTGHIQIFTTLPQGLWQISGAGTGLSSVL IYHGEMPQVN
 QVLPSSSLSIPSLPESDRPGSTSPFTPSAADLPSMPEPALTSRVNETEDTSPSPCQEGPESSIKLPKWP
 EAVERFQHS LQDKYKALPQSPRGPLVAVELVRARLERGSNKSQERELATPDWTERQLAHGGLAEVLQVVS
 DCRRPGETQVVAVLGKAGQGKSHWARTVSHTWACGQLLQYDFVFVYPCHCLDRPGDYHLRDL LCPPSLQ
 PLAMDDEVLDYIVRQPDRVLLILD AFEEL EAQDGLLHGPGSLSPEPCSLRGLLAGIFQRKLLRGCTLLL
 TARPRGR LAQSLSKADAI FEVPFSFSTKQAKTYMRHYFENSGTAGNQDKALGLLEGQPLLCSYSHSPVCR
 AVCQLSKALLEQGTEAQLPCTLTGLYV SLLGPAAQNSPPGALVELAKLAWELGRRHQSTLQETRFSSVEV
 KTWAVTQGLMQQTLETT EAQLAFSSFLQCFLGAVWLAQCNEIKDKELPQYLALTPRKKRPYDNWLEGVP
 RFLAGLVFQ PRAHCLGALVEPAVA AVADRKQKVLTRYL KRLKLGTLRAGRLLELLHCAHETQQPGIWEHV
 AHQLPGHLSFLGTRLTPPDVYV LGRALETASQDFSLDLRQTGVVPSGLGNL VGLSCVTSFRASLSDTMAL
 WESLQQQGEAQLLQAAEEKFTIEPFKAKSPKDVEDLDRLVQTQRLRNPSEDAAKDLPAIRDLKLEFALG
 PILGPQAFPTLAKILPAFSS LQHLDLDSLSENIGDKGVSKLSATFPQLKALETNL SQNNITDVGACKL
 AEALPALAKSLRLSLYNNICDKGAKSLAQVLPDMVSLRVMDVQFNKFTAAGAQLASSLQKCPQVETL
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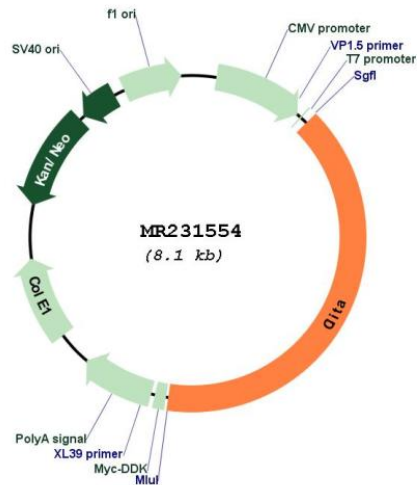
Restriction Sites:

Sgfi-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243761

ORF Size: 3225 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:	<ol style="list-style-type: none">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:	<u>NM_001243761.2, NP_001230690.1</u>
RefSeq Size:	5167 bp
RefSeq ORF:	3228 bp
Locus ID:	12265
UniProt ID:	<u>P79621</u>
Cytogenetics:	16 A1
MW:	118.9 kDa
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]