

Product datasheet for MR222576

Ciita (NM_007575) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciita (NM_007575) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ciita
Synonyms:	C2t; C2ta; EG669998; Gm9475; Mhc2ta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222576 representing NM_007575 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGCGCTGCCTGGTTCTGGCCCTTCTGGGTCTTACCTGCCGGAGTTGCAAGACCATAGTCTGTGTGCCA
CCATGGATCTGGGATCTCCAGAGGGCAGCTACCTGGAACCTTAAACAGTGATGCCGACCCCTACATCT
CTACCACCTCTATGACCAGATGGACCTGGCTGGGGAGGAGGAGATCGAACTCAGCTCAGAGCCAGACACA
GATACCATCAACTGCGACCAGTTTCAGCAAGCTGTTGCAGGACATGGAACCTGGATGAAGAGACCCGGGAGG
CCTATGCCAACATTGCGGAACTGGATCAGTACGTGTTCCAGGATACCCAGCTCGAGGGCCTGAGCAAGGA
CCTCTTCATAGAGCACATTGGAGCAGAGGAAGGCTTTGGTGAGAACATAGAGATCCCTGTAGAAGCAGGA
CAGAAGCCTCAGAAGAGACGCTTCCCGGAAGAGCATGCTATGGACTCAAAGCACAGGAAGCTAGTGCCCA
CCTCTAGGACCTCACTGAACTATTTGGATCTCCCACTGGGCACATCCAGATCTTACCACCTCTGCCCA
GGGACTCTGGCAAATCTCAGGGGCTGGCACAGGTCTCTCCAGTGTCTAACTACCACGGTGAGATGCC
CAGGTCAACCAAGTGCTCCCTTCAAGCAGCCTCAGTATCCCCAGTCTCCCGAGTCCCAGACCGGCTG
GCTCCACCAGCCCTTACACCATCTGCAGCTGACCTGCCAGCATGCCGAACCTGCGTGACCTCCCG
TGTAATGAGACAGAGGACACATCTCCCTCCCCATGCCAAGAGGGTCCCAGTCTTCCATCAAGCTTCCA
AAATGGCCAGAGGCTGTGGAGCATTCCAGCACTCCCTACAGGACAAATACAAGGCAATGGCCAGAGCC
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CTGCTCCTCACAGCCCGGCCCGGGCCGCTGGCTCAGAGCCTGAGCAAGGCAGATGCCATCTTTGAGG
 TGCCACAGTTCTCTACCAAGCAGGCCAAGACTTACATGAGGCACTACTTTGAGAAGCTCAGGGACAGCGGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR222576 representing NM_007575
 Red=Cloning site Green=Tags(s)

MRCLVPGPSGYSYLPQLDHSKCATMDLGSPEGSYLELLNSDADPLHL YHLYDQMDLAGEEEIELSSEPDT
 DTINCDQFSKLLQDMELDEETREAYANIAELDQYVFDQTLQLEGLSKDLFIEHIGAEFGGENIEIPVEAG
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 QVNQVLPSSSLIPSLPESPDPRGSTSPFTPSAADLPSMPEPALTSRVNETEDTSPSPCQEGPESSIKLP
 KWPEAVERFQHSLQDKYKALPQSPRGPLVAVELVRARLERGSNKSQERELATPDWTERQLAHGGLAEVLQ
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 VCRAVCQLSKALLEQGTEAQLPCTLTGLYVSLGPAQAQNSPPGALVELAKLAWELGRRHQSTLQETRFSS
 VEVKTWAVTQGLMQTLETTEAQLAFSSFLQCFLGAVWLAQCNEIKDKELPQYLALTPRKRKPYDNWLE
 GVPRFLAGLVFQRAHCLGALVEPAVAAVADRKQKVLTRYLKRKLKGLRAGRLLELLHCAHETQQPGIW
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 MALWESLQQGEAQLLQAAEEKFTIEPFKAKSPKDVEDLDRLVQTQRLRNPSEDAAKDLPAIRDLKKLEF
 ALGPILGPQAFPTLAKILPAFSSQLHLDLDSLSENKIGDKGVSKLSATFPQLKALETNLNQNNITDVGA
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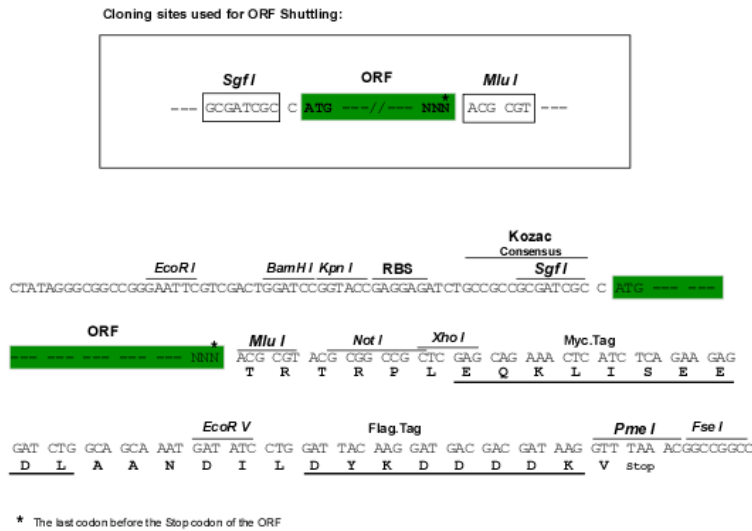
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9094_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007575

ORF Size: 3234 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_007575.4](#), [NP_031601.1](#)

RefSeq Size: 5330 bp

RefSeq ORF: 3237 bp

Locus ID: 12265

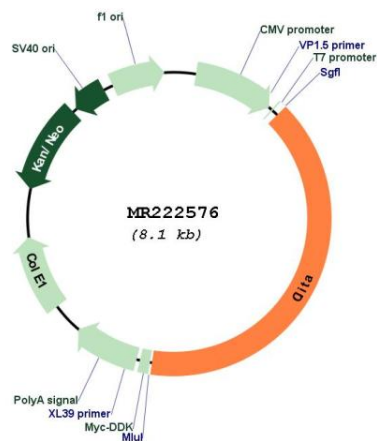
UniProt ID: [P79621](#)

Cytogenetics: 16 A1

MW: 118.8 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]

Product images:



Circular map for MR222576