

Product datasheet for **SC337888**

CIITA (NM_001286402) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIITA (NM_001286402) Human Untagged Clone
Tag:	Tag Free
Symbol:	CIITA
Synonyms:	C2TA; CIITAIV; MHC2TA; NLRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286402, the custom clone sequence may differ by one or more nucleotides

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ATGCGTTGCCTGGCTCCACGCCCTGCTGGGTCCCTACCTGTCAGAGCCCCAAGGCAGCTCACAGTGTGCCA
CCATGGAGTTGGGGCCCCAGAAGTGGCTACCTGGAGCTTCTTAACAGCGATGCTGACCCCTGTGCCT
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GCTGCTCCGAGGTTGCACCCTCCTCCTCACAGCCCGGCCCGGGCCGCCTGGTCCAGAGCCTGAGCAAG
 GCCGACGCCCTATTTGAGCTGTCCGGCTTCTCCATGGAGCAGGCCAGGCATACGTGATGCGCTACTTTG
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 TCGGAGGTGCTCCTCATGTGGAGACGCTGGCGATGTGGACGCCACCATCCATTAGTGTCCAGGAACAC
 CTGCAACAACAGGATTCACGGATCAGCCTGAGATGA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001286402

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).

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_001286402.1, NP_001273331.1
RefSeq Size:

4657 bp

RefSeq ORF:

3396 bp

Locus ID: 4261

Cytogenetics: 16p13.13

Protein Pathways: Antigen processing and presentation, Primary immunodeficiency

Gene Summary: This gene encodes a protein with an acidic transcriptional activation domain, 4 LRRs (leucine-rich repeats) and a GTP binding domain. The protein is located in the nucleus and acts as a positive regulator of class II major histocompatibility complex gene transcription, and is referred to as the "master control factor" for the expression of these genes. The protein also binds GTP and uses GTP binding to facilitate its own transport into the nucleus. Once in the nucleus it does not bind DNA but rather uses an intrinsic acetyltransferase (AT) activity to act in a coactivator-like fashion. Mutations in this gene have been associated with bare lymphocyte syndrome type II (also known as hereditary MHC class II deficiency or HLA class II-deficient combined immunodeficiency), increased susceptibility to rheumatoid arthritis, multiple sclerosis, and possibly myocardial infarction. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).