

Product datasheet for **SC336734**

CIITA (NM_001286403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CIITA (NM_001286403) 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)



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Fully Sequenced ORF: >SC336734 representing NM_001286403.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

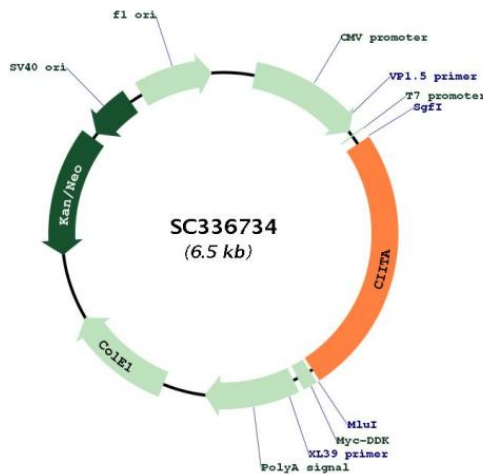
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Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN:	NM_001286403
Insert Size:	1641 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).
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:	NM_001286403.1
RefSeq Size:	2902 bp
RefSeq ORF:	1641 bp
Locus ID:	4261
UniProt ID:	P33076
Cytogenetics:	16p13.13
Protein Pathways:	Antigen processing and presentation, Primary immunodeficiency
MW:	59.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses two alternate splice junctions and lacks two alternate coding exons compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.</p>