

Product datasheet for **SC335399**

LACTB (NM_001288585) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_001288585) Human Untagged Clone
Tag:	Tag Free
Symbol:	LACTB
Synonyms:	G24; MRPL56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335399 representing NM_001288585. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTACCGGCTCATGTCAGCAGTGACTGCCCGGGCTGCCGCCCGGGGGCTTGGCCTCAAGCTGCGGA
CGACGCGGGTCCATCAGCGCGCCGGGCTGCCGCCTCTCGGCCACGGCTGGGTGGGGGCCCTCGGGCTG
GGGCTGGGGCTGGCGCTCGGGTGAAGCTGGCAGGTGGGCTGAGGGGCGCGGCCCGGCGCAGTCCCC
GCGGCCCGGACCCTGAGGCGTCGCCTTGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCT
CCGCAGACCCCGCGCCCTGCTCCAGGTGCTTCGCCAGGCCATCGAGAGCAGCCGCGACCTGCTG
CACAGGATCAAGGATGAGGTGGGCGCACCGGGCATAAGTGGTTGGAGTTTCTGTAGATGAAAAGAAGTC
TGGTCAGAAGGTTTAGGTTATGCTGATGTTGAGAACCGGTACCATGTAACCAGAGACAGTTATGCGA
ATTGCTAGCATCAGCAAAAGTCTCACCATGTTGCTCTTGCCAAATTGTGGGAAGCAGGAAACTGGAT
CTTGATATTCCAGTACAACATTATGTTCCCGAATTCAGAAAAAGAATATGAAGGTGAAAAGTTTCT
GTCACAACAAGATTACTGATTTCCCATTAAGTGGAAATTCGTCAATATGAAAAGGACATAAAAAAGGTG
AAAGAAGAGAAAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAA
GGCAAAAGTAATGAAAAGAATGATTTTACTAAATTTAAAACAGAGCAGGAGAATGAAGCCAAATGCCGG
AATTCAAAACCTGGCAAGAAAAAGAATGATTTTGAACAAGCGCAATTATATTTGAGAGAAAAGTTTGA
AATTCAATTGAATCCCTAAGATTATTTAAAAATGATCCTTTGTTCTTCAAACCTGTCAGTTTTTGTATT
CAACTTTTGGCTATACCCTACTGGCAGCCATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001288585
Insert Size:	999 bp



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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:	<u>NM_001288585.1</u>
RefSeq Size:	3007 bp
RefSeq ORF:	999 bp
Locus ID:	114294
UniProt ID:	<u>P83111</u>
Cytogenetics:	15q22.2
Protein Families:	Protease
MW:	36.5 kDa
Gene Summary:	<p>This gene encodes a mitochondrially-localized protein that has sequence similarity to prokaryotic beta-lactamases. Many of the residues responsible for beta-lactamase activity are not conserved in this protein, suggesting it may have a different enzymatic function. Increased expression of the related mouse gene was found to be associated with obesity. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Dec 2013]</p> <p>Transcript Variant: This variant (3) contains multiple differences in the 3' coding region and 3' UTR, compared to variant 1, one of which results in a frameshift. The encoded isoform (c) has a distinct C-terminus and is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>