

## Product datasheet for **SC125024**

### LACTB (NM\_171846) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_171846) Human Untagged Clone
Tag:	Tag Free
Symbol:	LACTB
Synonyms:	G24; MRPL56
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_171846, the custom clone sequence may differ by one or more nucleotides

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ATGTACCGGCTCATGTCAGCAGTGACTGCCCGGGCTGCCGCCCCGGGGCTTGGCCTCAAGCTGCGGAC
GACGCGGGGTCCATCAGCGCGCCGGGCTGCCGCTCTCGGCCACGGCTGGGTCGGGGCCTCGGGCTGGG
GCTGGGGCTGGCGCTCGGGGTGAAGCTGGCAGGTGGGCTGAGGGGCGGGCCCCGGCGCAGTCCCCCGCG
GCCCCGACCCTGAGGCGTCGCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCGC
AGACCCCGCGCCGCCCTGCTCCAGGTGCTTCGCCAGAGCCATCGAGAGCAGCCGCGACCTGCTGCACAG
GATCAAGGATGAGGTGGGCGCACCGGGCATAAGTGGTTGGAGTTTCTGTAGATGAAAAGAAGTCTGGTCA
GAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAACCAGAGACAGTTATGCGAATTGCTA
GCATCAGCAAAAGTCTCACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGGAACTGGATCTTGATAT
TCCAGTACAACATTATGTTCCCGAATCCAGAAAAAGAATATGAAGGTGAAAAGTTTCTGTCAACAACA
AGATTACTGATTTCCCATTTAAGTGAATTTCGTCATTATGAAAAGGACATAAAAAAGGTGAAAGAAGAGA
AAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAAGGCAAAAGTAA
TGAAAAGAATGATTTTACTAAATTTAAACAGAGCAGGAGAATGAAGCCAAATGCCGGAATTCAAAACCT
GGCAAGAAAAAGAATGATTTTGAACAAGGCAATTATATTTGAGAGAAAAGTTTGAATTCAAATGAAT
CCCTAAGATTATTTAAAAATGATCCTTTGTTCTTCAAACCTGGTAGTCAGTTTTTGTATTCAACTTTGG
CTATACCTACTGGCAGCCATAGTAGAGAGAGCTTCAGGATGTAATATTTGGACTATATGCAGAAAATA
TTCCATGACTTGGATATGCTGACGACTGTGCAGGAAGAAAACGAGCCAGTGATTTACAATAGAGCAAGGT
AA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_171846 unedited CCAAGTCAGAAATTTGTATACGATCATATAGGCGGCCGCGCCGGCTGTGCAGNAACGCCATG TACCGGCTCCTGTGACGAGTACTGCCCGGGCTGCCGCCCGGGGGCTTGGCCTCAAGC TGGCGACGACGCGGGTCCATCAGCGCGCCGGCTGCCGCCTCTCGGCCACGGCTGGGTC GGGGGCTCGGGCTGGGGCTGGGCTGGCGCTCGGGTGAAGCTGGCAGGTGGGCTGAGG GCGCGGGCCCCGGCGAGTCCCCCGGGCCCCGACCTGAGGCGTCGCCTCTGGCCGAG CCGCCACAGGAGCAGTCCCTCGCCCGTGGTCTCCGACAGACCCCGGGCGCCCTGCTCC AGGTGCTTCGCCAGAGCCATTGAGAGCAGCCGCGACCTGCTGCACAGGATCCAGGATGAG GTGGGCGCACCGGCATAGTGGTTGGAGTTTCTGTCAATGGACAAGAAGCTCTGGTCCGAA GGCTCAAGCTATGCTGATGTTGAGACCCCTGTCCCTGTAAACCACAGACCGTTATGCTA ATTGTTAGCTCCGCCAAAGCCTACCCATGGTGTCTTGCCAACATGTGGGCAACCGGGA CACTGCACTTTGATATCCACATCCCCCTTATGTTCCCTGATCCCCACAAAAGAAATG AACGGGAAAAGCCCTCTGTTCCCCAGCACACCGGATTCCCATTCAGCGGCACCTCCGCC TTACAAACGGCCCTCAAAGTCTGCCCCGAAACCAAGCCCTTACGCCCTTACCACAGCAA ACACAACGCTCTCCCCCATAAACACCAGCCCCCGCTGACACCACGAATTCCTAA CTCTACCGCCCCGCGCATGGCCCAAGCCCCAATCACACCTGTCGCACACCACAACC CCCCCGGCCCCACTTCCGCCG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_171846
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_171846.1</a> , <a href="#">NP_741982.1</a>
<b>RefSeq Size:</b>	1388 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	114294
<b>UniProt ID:</b>	<a href="#">P83111</a>
<b>Cytogenetics:</b>	15q22.2
<b>Protein Families:</b>	Protease

**Gene Summary:**

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]

Transcript Variant: This variant (2) lacks a 3' coding exon and its 3' terminal exon extends past a splice site that it used in variant 1, resulting in a distinct 3' UTR. The encoded isoform (b) has a shorter C-terminus 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.