

Product datasheet for **SC111862**

LACTB (NM_032857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_032857) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_032857, the custom clone sequence may differ by one or more nucleotides

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ATGTACCGGCTCATGTCAGCAGTACTGCCGGGCTGCCGCCCCGGGGCTTGGCCTCAAGCTGCGGAC
GACGCGGGTCCATCAGCGCGCCGGGCTGCCGCTCTCGGCCACGGCTGGGTGCGGGGCTCGGGTGGG
GCTGGGGCTGGCGCTCGGGTGAAGCTGCCAGGTGGGCTGAGGGGCGCGGCCCGCGCAGTCCCCCGCG
GCCCCGACCCTGAGGCGTCGCCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCGC
AGACCCCGGCGCGCCCTGCTCCAGGTGCTTCGCCAGAGCCATCGAGAGCAGCCGCGACCTGCTGCACAG
GATCAAGGATGAGGTGGGCGCACCGGCATAGTGGTTGGAGTTTCTGTAGATGAAAAAGAAGTCTGGTCA
GAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAAACCAGAGACAGTTATGCGAATTGCTA
GCATCAGCAAAAGTCTACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGAAACTGGATCTTGATAT
TCCAGTACAACATTATGTTCCCGAATCCAGAAAAAGAATATGAAGGTGAAAAGGTTTCTGTCACAACA
AGATTACTGATTTCCCATTTAAGTGAATTCGTCATTATGAAAAGGACATAAAAAGGTGAAAGAAGAGA
AAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAAGGCAAAAGTAA
TGAAGAAGATGATTTTACTAAATTTAAAACAGAGCAGGAGAATGAAGCCAAATGCCGGAATTCAAAACCT
GGCAAGAAAAAGAATGATTTTGAACAAGGCAATTATATTTGAGAGAAAAGTTTGAATTTCAATTGAAT
CCCTAAGATTATTTAAAATGATCCTTTGTTCTTCAAACCTGGTAGTCAGTTTTTGTATTCACTTTTGG
CTATACCCCTACTGGCAGCCATAGTAGAGAGAGCTTCCAGGATGTAATATTTGGACTATATGCAGAAAATA
TTCCATGACTTGGATATGCTGACGACTGTGCAGGAAGAAAACGAGCCAGTGATTTACAATAGAGCAAGAT
TTTATGTTTACAATAAAAAGAACGCTTGTCAACACACCTTACGTGGATAACTCCTATAAATGGGCTGG
TGGTGGATTTCTGTCTACAGTGGGTGACCTTCTGAAATTTGGGAATGCAATGCTTTATGGTTACCAAGTT
GGGCTGTTAAGAACTCAAATGAAAATCTTTTACCTGGATACCTCAAACCAGAAAACAATGGTTATGATGT
GGACCCAGTCCCTAACACAGAGATGTCTTGGGATAAAGAGGGTAAATATGCAATGGCGTGGGGTGTGT
GGAAAGGAAACAACGATGTTTCTGTAGAAAGCAACGCAATTATGCTTACATACTGGAGGGGAGTGG
GGTGCCAGTAGTGTCTGCTGCTTCTTCTGAAGAACTGGATACAGAGACTATAAATAACAAGGTTCCCC
CAAGAGGAATCATTGTTTCTATCATATGTAACATGCAATCTGTTGGCCTCAATAGCACCGCTTTGAAGAT
TGCCCTTGAAATTTGATAAAGACAGATCAGACTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032857 unedited

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GATATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGACGCCATGT
ACCGGCTCCTGTGACGAGTACTGCCGGGCTGCCGCCCCGGGGGCTTGGCCTCAAGCT
GCGGACGACGCGGGTCCATCAGCGCGCCGGGCTGCCGCTCTCGGCACGGTGGGTTTCG
GGGCTCGGGCTGGGGCTGGGGCTGGCGCTCGGGTGAAGCTGGCAGGTGGGCTGAGGG
CGCGCCCCGGCGCAGTCCCCCGCGCCCCGACCCTGAGGCGTCGCCTTGCCGAGCC
GCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCGAGACCCCGGCGCCCTGCTCCAG
GTGCTTCGCCAGAGCCATCGAGAGCAGCCGCGACCTGCTGCACAGGATCAAGGATGAGGT
GGGCGCACCGGCATAGTGGTTGGAGTTTCTGTAGATGAAAAAGAAGTCTGGTCAGAAGG
TTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAAACAAAGACAGTTATGCGAAT
TGCTAGCATCAGCAAAAGTCTACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGAA
ACTGGATCTTGATATTTAGTAAAACATTATGTTCCCGAATCCCAAAAAAGAATATGA
AGGTGAAAAGGTTTCTGTAAAACAAGTACTGATTTTTTCAATTAAGGGGAATCTTTC
ATTATGAAAAAGACATAATAAGGTGAAAGAAGAAAAAATTAATAAGCTTTTGAAGG
ATCAAAAAATAATGTTGATTTTGTCTATAAAAAATAACGCCAAATTAAGAAAAAAG
GATTTTATAAATTAACAGAGCAGGATAATGAAGCCAAAAGCCGGAATTAACCTTT
GCAGAAAAAAAAGATTTTAAACAGGCAATTAATTTGAAAGAAAAATCGAAACATCATG
ATCCCCAAAAATATAAAAAATCTTTTTTTTCAACTCGATAAAAT
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_032857

Insert Size:	2000 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_032857.2 , NP_116246.2
RefSeq Size:	1956 bp
RefSeq ORF:	1644 bp
Locus ID:	114294
UniProt ID:	P83111
Cytogenetics:	15q22.2
Domains:	beta-lactamase
Protein Families:	Protease
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 (1) encodes the longest isoform (a).</p>