

Product datasheet for **RC209605**

LACTB (NM_032857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_032857) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LACTB
Synonyms:	G24; MRPL56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209605 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACCGGCTCATGTCAGCAGTACTGCCCGGGTCCGCCCCCGGGGCTTGGCCTCAAGCTGCGGAC
 GACGCGGGTCCATCAGCGCGCCGGGTGCCGCCTCTCGGCCACGGCTGGGTGCGGGGCCTCGGGCTGGG
 GCTGGGGCTGGCGCTCGGGTGAAGCTGTCAGGTGGGCTGAGGGGCGCGGCCCGCGCAGTCCCCCGCG
 GCCCCGACCCTGAGGCGTCGCCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCGC
 AGACCCCGGCGCCCTGCTCCAGGTGCTTCGCCAGAGCCATCGAGAGCAGCCGACCTGCTGCACAG
 GATCAAGGATGAGGTGGGCGCACCGGCATAGTGGTTGGAGTTTCTGTAGATGAAAAGAAGTCTGGTCA
 GAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAACCAGAGACAGTTATGCGAATTGCTA
 GCATCAGCAAAAGTCTACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGGAAACTGGATCTTGATAT
 TCCAGTACAACATTATGTTCCCGAATCCAGAAAAAGAATATGAAGGTAAAAGTTTCTGTCACAACA
 AGATTACTGATTTCCATTAAAGTGAATTCGTCATTATGAAAAGGACATAAAAAAGGTGAAAGAAGAGA
 AAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAAAAAGAAGCAAAAAGTAA
 TGAAGAAGATGATTTACTAAATTTAAACAGAGCAGGAGAATGAAGCCAAATGCCGGAATTCAAAACT
 GGCAAGAAAAAGAATGATTTGAACAAGGCAATTATATTTGAGAGAAAAGTTTAAAAATCAATTGAAT
 CCCTAAGATTATTTAAAAATGATCCTTTGTTCTTCAAACCTGGTAGTCAGTTTTTGTATTCAACTTTTGG
 CTATACCTACTGGCAGCCATAGTAGAGAGGCTCAGGATGTAATATTTGGACTATATGCAGAAAATA
 TTCCATGACTTGGATATGCTGACGACTGTGCAGGAAGAAAACGAGCCAGTGATTTACAATAGAGCAAGAT
 TTTATGTTTACAATAAAAAGAAACGCTTGTCAACACACCTTACGTGGATAAECTCTATAAATGGGCTGG
 TGGTGGATTTCTGTCTACAGTGGGTGACCTTCTGAAATTTGGGAATGCAATGCTTTATGGTTACCAAGTT
 GGGCTGTTAAGAACTCAAATGAAAATCTTTTACCTGGATACCTCAAACAGAAAACAATGGTTATGATGT
 GGACCCAGTCCCTAACACAGAGATGTCTTGGGATAAAGAGGGTAAATATGCAATGGCGTGGGGTGTGT
 GGAAAGGAAACAACGATGTTTCGTGTAGAAAGCAACGGCATTATGCTTACATACTGGAGGGCAGTG
 GGTGCCAGTAGTGTCTGCTGCTTCTTCTGAAGAACTGGATACAGAGACTATAAATAACAAGGTTCCCC
 CAAGAGGAATCATTGTTTCTATCATATGAACATGCAATCTGTTGGCCTCAATAGCACCGCTTTGAAGAT
 TGCCCTTGAATTTGATAAAGACAGATCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209605 protein sequence
 Red=Cloning site Green=Tags(s)

MYRLMSAVTARAAAPGGLASSGRRGVHQRAGLPPLGHGWVGGGLGLGLLALGVKLAGGLRGAAPAQSPA
 APDPEASPLAEPPEQSLAPWSPQTPAPPCSRCFARAIESSRDLLHRIKDEVGAPGIVVGVSVGKEVWS
 EGLGYADVENRVPCKPETVMRIASISKSLTMVALAKLWEAGKLDLDIPVQHYPPEFPEKEYEGEKVSVTT
 RLLISHLSGIRHYEKDIKKVKEEKAYKALKMMKENVAFEQEKEGKSNEKNDFTKFKTEQENEAKCRNSKP
 GKKNDFEQGELYLREKFENSIESLRLFKNDPLFFKPGSQFLYSTFGYTLAAIVERASGCKYLDYMQKI
 FHDLMLTTVQEENEPVIYNRARFYVYNKKRLLVNTPTVDNSYKWAGGGFLSTVGDLLKFGNAML YGYQV
 GLFKNSNENLLPGYLKPETMVMWTPVPNTEMSWDKEGKYAMAWGVVERKQTYGSCRQRHYASHTGGAV
 GASSVLLVPEELDTETINNKVPPRGIIVSIICNMQSVGLNSTALKIALEFDKDRSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6833_b02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_032857

ORF Size: 1641 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_032857.5](#)
RefSeq Size: 1976 bp

RefSeq ORF: 1644 bp

Locus ID: 114294

UniProt ID: [P83111](#)

Cytogenetics: 15q22.2

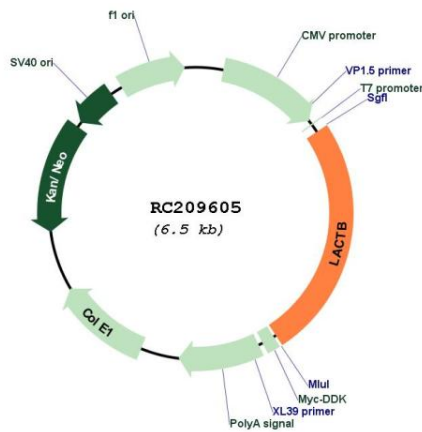
Domains: beta-lactamase

Protein Families: Protease

MW: 60.7 kDa

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]

Product images:



Circular map for RC209605