

Product datasheet for RC237505

LACTB (NM_001288585) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LACTB (NM_001288585) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LACTB
Synonyms: G24; MRPL56
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237505 representing NM_001288585
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTACCGGCTCATGTCAGCAGTGACTGCCCGGGCTGCCGCCCGGGGGCTTGGCCTCAAGCTGCGGAC
GACGCGGGGTCCATCAGCGCGCCGGGCTGCCGCTCTCGGCCACGGCTGGTTCGGGGCCCTCGGGCTGGG
GCTGGGGCTGGCGCTCGGGGTGAAGCTGGCAGGTGGGCTGAGGGGCGCGCCCGCGCAGTCCCCCGCG
GCCCCGACCCTGAGGCGTCGCCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCGC
AGACCCCGGCGCCGCCCTGCTCCAGGTGCTTCGCCAGAGCCATCGAGAGCAGCCGCGACCTGCTGCACAG
GATCAAGGATGAGGTGGGCGCACCGGCCATAGTGGTTGGAGTTTCTGTAGATGAAAAAGAAGTCTGGTCA
GAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAACCAGAGACAGTTATGCGAATTGCTA
GCATCAGCAAAAGTCTCACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGAAACTGGATCTTGATAT
TCCAGTACAACATTATGTTCCCGAATCCAGAAAAAGAATATGAAGGTGAAAAGTTTCTGTCAACA
AGATTACTGATTTCCCATTTAAGTGGAAATCGTCATTATGAAAAGGACATAAAAAAGGTGAAAAGAGA
AAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAAGCAAAAGTAA
TGAAGAAGATGATTTTACTAAATTTAAACAGAGCAGGAGAATGAAGCCAAATGCCGGAATTCAAAACCT
GGCAAGAAAAAGAATGATTTTGAACAAGCGAATTATATTTGAGAGAAAAGTTTGAATAATCAATTGAAT
CCCTAAGATTATTTAAAATGATCCTTTGTTCTTCAAACCTGTCAGTTTTTGTATTCAACTTTTGCTAT
ACCCTACTGGCAGCCA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

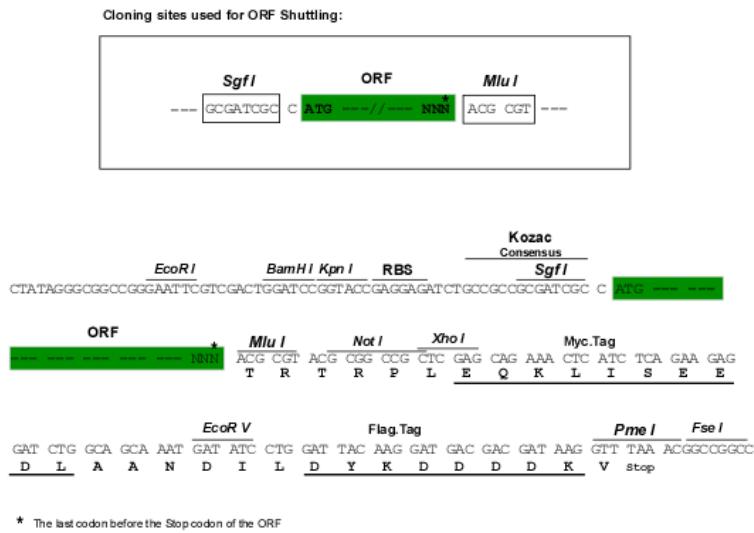
Protein Sequence: >RC237505 representing NM_001288585
 Red=Cloning site Green=Tags(s)

MYRLMSAVTARAAAPGGLASSCGRRGVHQ RAGLPPLGHGWVGGGLGLGLLALGVKLAGGLRGAAPAQSPA
 APDPEASPLAEPPEQSLAPWSPQTPAPPCSRCFARAIESSRDLLHRIKDEVEGAPGIVVGVSVDGKEVWS
 EGLGYADVENRVPCKPETVMRIASISKSLTMVALAKLWEAGKLDLDIPVQHVVPEFPEKEYEGEKVSVTT
 RLLISHLSGIRHYEKDIKKVKEEKAYKALKMMKENVAFEQEKEGKSNEKNDFTKFKTEQENEAKCRNSKP
 GKKNDFEQGELYLREKFENSIESLRLFKNDPLFFKPVSFCIQLLAIPYWQP

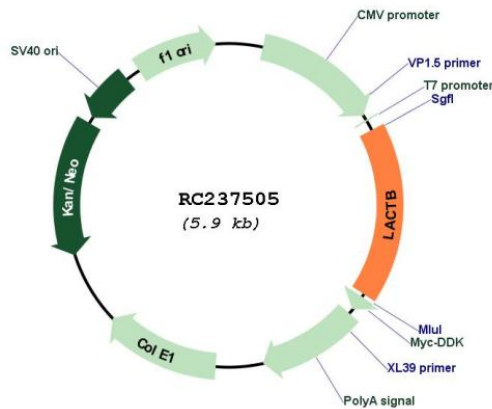
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288585

ORF Size: 996 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:	<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_001288585.2
RefSeq Size:	3007 bp
RefSeq ORF:	999 bp
Locus ID:	114294
UniProt ID:	P83111
Cytogenetics:	15q22.2
Protein Families:	Protease
MW:	37 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]