

Product datasheet for **RG237505**

LACTB (NM_001288585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_001288585) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LACTB
Synonyms:	G24; MRPL56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237505 representing NM_001288585. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTACCGGCTCATGTCAGCAGT GACTGCCCGGGCTGCCGCCCGGGGGCTTGGCCTCAAGCTGCGGA
CGACGCGGGTCCATCAGCGCGCCGGGCTGCCGCCTCTCGGCCACGGCTGGGTGGGGGCTCGGGCTG
GGGCTGGGGCTGGCGCTCGGGGTGAAGCTGGCAGGTGGGCTGAGGGGCGCGGCCCGGCGCAGTCCCC
GCGGCCCGGACCCTGAGGCGTCGCCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCT
CCGCAGACCCCGCGCCGCCCTGCTCCAGGTGCTTCGCCAGGCCATCGAGAGCAGCCGCGACCTGCTG
CACAGGATCAAGGATGAGGTGGGCGCACCGGGCATAAGTGGTTGGAGTTTCTGTAGATGAAAAGAAGTC
TGGTCAGAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAACCAGAGACAGTTATGCGA
ATTGCTAGCATCAGCAAAAGTCTCACCATGTTGCTCTTGCCAAATTGTGGGAAGCAGGAAACTGGAT
CTTGATATTCCAGTACAACATTATGTTCCCGAATTCAGAAAAAGAATATGAAGGTGAAAAGGTTTCT
GTCACAACAAGATTACTGATTTCCCATTTAAGTGGAAATTCGTCAATTATGAAAAGGACATAAAAAAGGTG
AAAGAAGAGAAAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAA
GGCAAAAGTAATGAAAAGAATGATTTTACTAAATTTAAAACAGAGCAGGAGAATGAAGCCAAATGCCGG
AATTCAAACCTGGCAAGAAAAAGAATGATTTTGAACAAGGCGAATTATATTTGAGAGAAAAGTTTGA
AATTCAATTGAATCCCTAAGATTATTTAAAAATGATCCTTTGTTCTTCAAACCTGTCAGTTTTTGTATT
CAACTTTTGGCTATACCCTACTGGCAGCCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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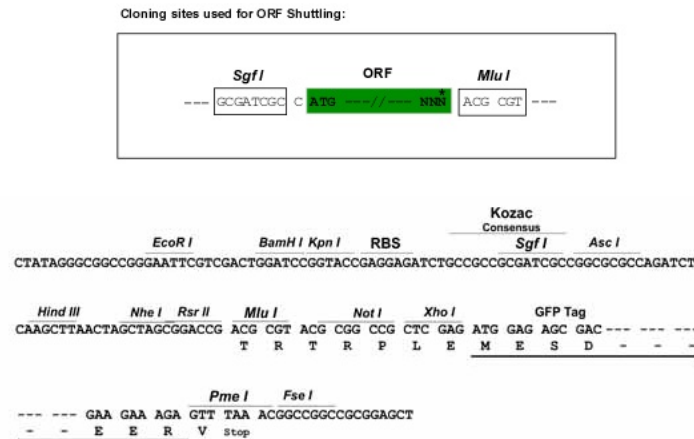


Protein Sequence: >Peptide sequence encoded by RG237505
 Blue=ORF Red=Cloning site Green=Tag(s)

MYRLMSAVTARAAAPGGLASSCGRRGVHQ RAGLPPLGHGWVGGGLGLGLLALGVKLAGGLRGAAPAQSP
 AAPDPEASPLAEPPEQSLAPWSPQTPAPPCSRCFARAIESSRDLLHRIKDEVGAPGIVVGVSDGKEV
 WSEGLGYADVENRVPCPETVMRIASISKSLTMVALAKLWEAGKLDLIPVQHYVPEFPEKEYEYEGKVS
 VTTRLLISHLSGIRHYEKDIKKVKEEKAYKALKMMKENVAFEQEKEGKSNEKNDFTKFKTEQENEAKCR
 NSKPGKKNDFEQELYLREKFENSIESLRLFKNDPLFFKPVSFQIQLLAIPYWQP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001288585.2](#)

RefSeq Size: 3007 bp

RefSeq ORF: 999 bp

Locus ID: 114294

UniProt ID: [P83111](#)

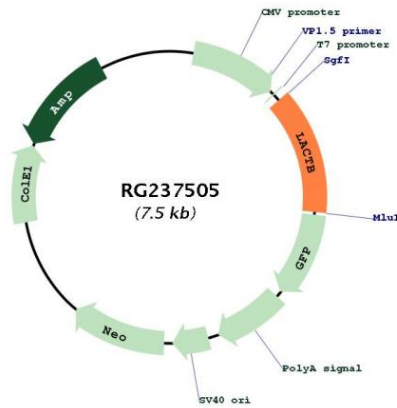
Cytogenetics: 15q22.2

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]

Product images:



Circular map for RG237505