

Product datasheet for **RG224931**

LACTB (NM_171846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LACTB (NM_171846) 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:	>RG224931 representing NM_171846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCGGCTCATGTCAGCAGTGACTGCCCGGGCTGCCCCCCGGGGCTTGGCCTCAAGCTGCGGAC
GACGCGGGTCCATCAGCGCGCCGGGCTGCCGCCTCTCGCCACGGTGGGTGGGGGCCCGGGCTGGG
GCTGGGGTGGCGCTCGGGTGAAGCTGGCAGTGGGCTGAGGGCGCGGCCCGCGCAGTCCCCCGG
GCCCGACCCCTGAGGCGTCGCCTCTGGCCGAGCCGCCACAGGAGCAGTCCCTCGCCCCGTGGTCTCCG
AGACCCCGCGCGCCCTGCTCCAGGTGCTTCGCCAGAGCCATCGAGAGCAGCCGCGACCTGCTGCACAG
GATCAAGGATGAGGTGGGCGCACCGGCATAGTGGTTGGAGTTTCTGTAGATGGAAAAGAAGTCTGGTCA
GAAGGTTTAGGTTATGCTGATGTTGAGAACCGTGTACCATGTAAACCAGAGACAGTTATGCGAATTGCTA
GCATCAGCAAAAGTCTCACCATGGTTGCTCTTGCCAAATTGTGGGAAGCAGGAAACTGGATCTTGATAT
TCCAGTACAACATTATGTTCCCGAATCCAGAAAAAGAATATGAAGGTGAAAAGTTTCTGTCACAACA
AGATTACTGATTTCCATTTAAGTGAATTCGTCATTATGAAAAGGACATAAAAAAGGTGAAAGAAGAGA
AAGCTTATAAAGCCTTGAAGATGATGAAAGAGAATGTTGCATTTGAGCAAGAAAAAGAAGGCAAAAGTAA
TGAAAAGAATGATTTACTAAATTTAAACAGAGCAGGAGAATGAAGCCAAATGCCGGAATTCAAAACCT
GGCAAGAAAAAGAATGATTTTGAACAAGGCGAATTATATTTGAGAGAAAAGTTTAAAATCAATTGAAT
CCCTAAGATTATTTAAAAATGATCCTTTGTTCTTCAAACCTGGTAGTCAGTTTTTGTATTCAACTTTTGG
CTATACCTACTGGCAGCCATAGTAGAGAGAGTTCAGGATGTAATATTTGGACTATATGCAGAAAATA
TTCCATGACTTGGATATGCTGACGACTGTGCAGGAAGAAAACGAGCCAGTGATTTACAATAGAGCAAGG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224931 representing NM_171846
 Red=Cloning site Green=Tags(s)

MYRLMSAVTARAAAPGGLASSCGRRGVHQ RAGLPPLGHGWVGG LGLGLLALGVKLAGL RGAAPAQSPA
 APDPEASPLAEPPEQSLAPWSPQTPAPPCSRCFARAIESRDL LHRIDKDEVGAPGIVVGVSVDGKEVWS
 EGLGYADVENRVPCKPETVMRIASISKSLTMVALAKLWEAGKLDLDIPVQH YVPEFPEKEYEKEKVSVTT
 RLLISHLSGIRHYEKDIKKVKEEKAYKALKMMKENVAFEQEKEGKSNEKNDFTKFKTEQENEAKCRNSKP
 GKKNDFEQGELYLREKFENSIESLRLFKNDPLFFKPGSQFLYSTFGYTL LAAIVERASGCKYLDYMQKI
 FHDLDM LTTVQEENEPVIYNRAR

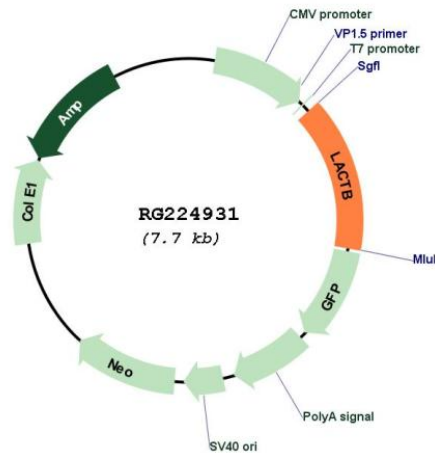
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_171846

ORF Size:	1119 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_171846.4
RefSeq Size:	1388 bp
RefSeq ORF:	1122 bp
Locus ID:	114294
UniProt ID:	P83111
Cytogenetics:	15q22.2
Protein Families:	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]