

Product datasheet for **RG223167**

LDB3 (NM_001080116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDB3 (NM_001080116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LDB3
Synonyms:	CMD1C; CMH24; CMPD3; CYPHER; LDB3Z1; LDB3Z4; LVNC3; MFM4; ORACLE; PDLIM6; ZASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223167 representing NM_001080116 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTACAGTGTGACCCTGACTGGGCCCGGCCCTGGGGTTCGGTCTGCAGGGGGCAAGGACTTCA
ACATGCCCTCACTATCTCCGGATCACACCAGGCAGCAAGGCAGCCAGTCCCAGCTCAGCCAGGGTGA
CCTCGTGGTGGCCATTGACGGCGTCAACACAGACACCATGACCCACCTGGAAGCCAGAACAAGATCAAG
TCTGCCAGCTACAATTGAGCCTCACCTGCAGAAATCAAAGCGTCCCATTCCCATCTCCACGACAGCAC
CTCCAGTCCAGACCCCTCTGCCGGTATCCCTACCAGAAGGTGGTAGTCAACTCTCCAGCCAACGCCGA
CTACCAGGAACGCTTCAACCCAGTGCCTGAAGGACTCGGCCCTGTCCACCACAAGCCATCGAGGTG
AAGGGGCTGGGGCGCAAGGCCACCATCATCCATGCGCAGTACAACACGCCCATCAGCATGTATTCCAGG
ATGCCATCATGGATGCCATCGCTGGGCAGGCCAAGCCAAGGCAGTGAATTCAGTGGGAGCCTCCCTAT
TAAGGACCTTGCCGTAGACAGCGCTCTCCCGTCTACCAGGCTGTGATTAAGAGCCAGAACAAGCCAGAA
GATGAGGCTGACGAGTGGGCACGCCGTTCTCCAACCTGCAGTCTCGCTCCTCCGCATCCTGGCCAGA
TGACGGGGACAGAATTCATGCAAGACCCTGATGAAGAAGCTCTGCGAAGGTCAAGGGAAAGTTTGAAC
GGAACGTAACAGCCCACGTTTTGCCAAATTGCGCAACTGGCACCATGGCCTTTACGCCAAATCCTTAAT
GTTAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223167 representing NM_001080116
 Red=Cloning site Green=Tags(s)

MSYSVTLTGPWPWFRLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEAQNKIK
 SASYNLSLTLQSKRPIPISTTAPPVQTPLPVIPHQKVVVNSPANADYQERFNPSALKDSALSTHKPIEV
 KGLGGKATIIHAQYNTPI SMYSQDAIMDAIAGQAQAQGSDFSGSLPIKDLAVDSASPVYQAVIKSQNKPE
 DEADEWARRSSNLQSRFRILAQMTGTEFMQDPDEEALRRSRERFETERNSPRFAKLRNWHHGLSAQILN
 VKS

TRTRPLE - GFP Tag - V

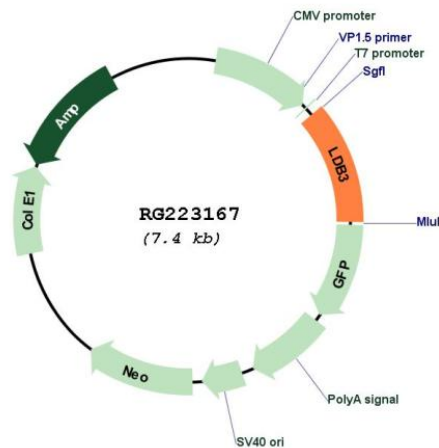
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001080116

ORF Size: 849 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_001080116.1 , NP_001073585.1
RefSeq Size:	1659 bp
RefSeq ORF:	852 bp
Locus ID:	11155
UniProt ID:	Q75112
Cytogenetics:	10q23.2
Gene Summary:	This gene encodes a PDZ domain-containing protein. PDZ motifs are modular protein-protein interaction domains consisting of 80-120 amino acid residues. PDZ domain-containing proteins interact with each other in cytoskeletal assembly or with other proteins involved in targeting and clustering of membrane proteins. The protein encoded by this gene interacts with alpha-actinin-2 through its N-terminal PDZ domain and with protein kinase C via its C-terminal LIM domains. The LIM domain is a cysteine-rich motif defined by 50-60 amino acids containing two zinc-binding modules. This protein also interacts with all three members of the myozenin family. Mutations in this gene have been associated with myofibrillar myopathy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been identified; all isoforms have N-terminal PDZ domains while only longer isoforms (1, 2 and 5) have C-terminal LIM domains. [provided by RefSeq, Jan 2010]