

Product datasheet for **RG214482**

PDLIM7 (NM_213636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PDLIM7
Synonyms:	LMPI; LMP3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214482 representing NM_213636
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACT
TCAATGTGCCCTCTCCATTTCCCGGCTCACTCTGGGGGCAAGCGCGCAGGCCGGAGTGGCCGTGGG
TGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAGATC
CGGGCTGCGGGGAGCGCCTCAGCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGG
CCTCCGCCCGCCGCGGACCCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCG
GCCCTTTGGGGCGCCCCGCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGCTCCGACCGCTGGTC
CCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGCCGGGACAGGCCAGT
CGCGTTCCTTCGCATCCTTGCCACCTCACAGGCACCGAGTTCATGCAAGACCCGGATGAGGAGCACCT
GAAGAAATCAAGGGAAAAGTATGTCTGGAGCTGCAGAGCCACGCTACACCCGCTCCGGGACTGGCAC
CACCAGCGCTCTGCCACGTGCTCAACGTGCACTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214482 representing NM_213636
Red=Cloning site Green=Tags(s)

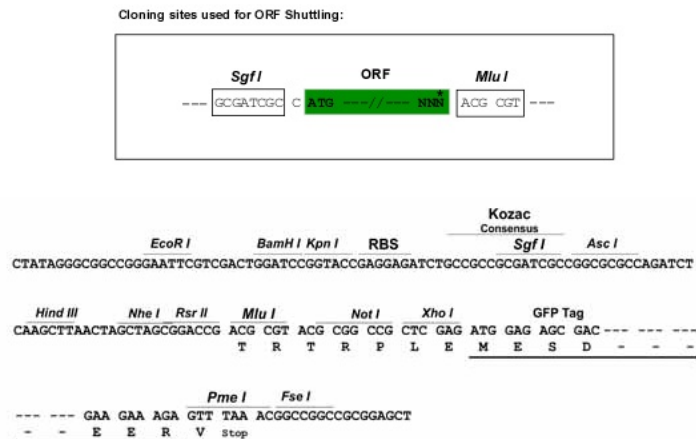
MDSFKVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKI
RACGERLSLGLSRAQPVQSKPQKASAPADPPRYTFAPSVSLNKTARPFGAPPPADSAPQQNGQLRPLV
PDASKQRLMENTEDWRPRPGTQSRSFRIHLAHLTGTEFMQDPDEEHLKKSREKYVLELQSPRYTRLRDWH
HQRSAHVNLNVQS

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213636

ORF Size: 666 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

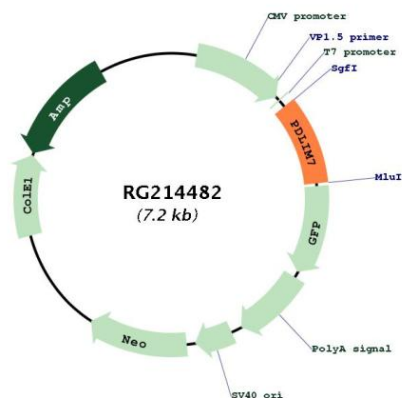
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_213636.2</u>
RefSeq Size:	1005 bp
RefSeq ORF:	669 bp
Locus ID:	9260
UniProt ID:	<u>Q9NR12</u>
Cytogenetics:	5q35.3
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is representative of a family of proteins composed of conserved PDZ and LIM domains. LIM domains are proposed to function in protein-protein recognition in a variety of contexts including gene transcription and development and in cytoskeletal interaction. The LIM domains of this protein bind to protein kinases, whereas the PDZ domain binds to actin filaments. The gene product is involved in the assembly of an actin filament-associated complex essential for transmission of ret/ptc2 mitogenic signaling. The biological function is likely to be that of an adapter, with the PDZ domain localizing the LIM-binding proteins to actin filaments of both skeletal muscle and nonmuscle tissues. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214482