

Product datasheet for **MG216070**

Pdlim7 (NM_001114088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim7 (NM_001114088) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdlim7
Synonyms:	LMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG216070 representing NM_001114088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGATTCCTTCAAGGTGGTCTGGAAGGGCCAGCCCCTTGGGGCTTCCGTCTGCAAGGGGGCAAGGACT
 TCAATGTGCCCTCTCTATCTCTCGGCTCACGCCGGAGGCAAAGCTGCACAGGCCGGTGTGGCTGTGGG
 AGACTGGTACTGAATATTGACGGTGAGAACGCGGGCAGCCTCACGCACATCGAAGCCCAGAACAGATC
 CGCGCCTGTGGGAGCGCCTCAGCCTGGGTCTTAGCAGAGCCAGCCTGTTAGAGCAAACACAGAAGG
 CCCTGACCCCTCCCGCCAGCCCCGAGGTACACTTTTGACCAAGCGCCTCCCTCAACAAGACGGCCCCG
 GCCCTTCGGGGCACCCACCTACTGACAGCACCTGCGGCAGAAATGGACAGTTGCTCAGACAGCCGGTC
 CCCGATGCCAGCAAGCAGCGGTGATGGAGGATACCGAAGACTGGCGGCCGCGCCGGGACAGGCCAGT
 CCCGCTCCTTCCGCATCCTTGCCACCTCACGGGCACAGAGTTTATGCAAGACCCGGATGAGGAATTCAT
 GAAGAAGTCAAGCCAGGTGCCCAGGACAGAAGCCCAGCCCCAGCCTCAACTATACCCAGGAATCTTGG
 CCTGGCCCCACCACTCCAGCCCCACCAGCCGCCACCTTGGGCTGTGGATCCTGCATTTGCTGAGCGCT
 ATGCCCCAGACAAAACAGCACAGTGTGACCCGGCACAGCCAGCCAGCCACCCACGCCTCTGCAGAA
 CCGCACCTCCATAGTGCAGGCCGAGCTGGAGGGGGCACAGGAGGGGGCAGCAACAACGGCAAGACTCCT
 GTATGCCACCACTGCCACAAGATCATCCGCGCCGCTACCTGGTAGCACTGGGCCACGCATACCATCCCCG
 AGGAGTTTGTGTGCAGCCAGTGTGGAAGGTCTGGAAGAGGGTGGCTTCTTCGAGGAGAAGGGAGCTAT
 CTTTGGCCCTCCTGCTATGATGTGCGCTATGCACCCAACTGTGCCAAATGCAAGAAGAAGATCACTGGA
 GAGATCATGCATGCTCTGAAGATGACCTGGCACGTCCATTGCTTACCTGTGCTGCCTGCAAAACGCCAA
 TTCGCAACAGAGCCTTTTACATGGAAGAAGGGGGCCCCCTACTGCGAGCGAGACTATGAGAAGATGTTTGG
 CACAAAATGTCGAGGCTGTGACTTCAAGATTGATGCTGGAGACCGCTTCTTGGAAAGCGCTGGGCTTCAGC
 TGGCATGACACATGCTTTGTTTGCGAATATGTCAGATCAACTTGAAGGAAAGACCTTCTACTCCAAGA
 AGGACAAGCCCCTCTGCAAGAGCCACGCCTTCTCTCACGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216070 representing NM_001114088
 Red=Cloning site Green=Tags(s)

MDSFKVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLNIDGENAGSLTHIEAQNKI
 RACGERLSLGLSRAQPVQSKPQKALTPPADPPRYTFAPSASLNKTARPFAGPPPTDSTLRQNGQLLRQPV
 PDASKQRLMEDTEDWRPRPGTGQSRSFRLAHLTGTEFMQDPDEEFMKSSQVPRTEAPAPASTIPQESW
 PGPTTPSPTSRPPWAVDPFAERYAPDKTSTVLTRHSQPATPTPLQNRSTIVQAAAGGGTGGGSNNGKTP
 VCHQCHKIIRGRYLVALGHAYHPEEFVCSQCGKVL EEGGFEEKGAIFCPSYDVRYAPNCAKCKKITG
 EIMHALKMTWHVHCFCTCAACKTPIRNRAFYMEEGAPYCERDYEKMFGTKRCGDFKIDAGDRFLEALGFS
 WHDTCFVCAICQINLEGKTFYSKKDKPLCKSHAFSHV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001114088

ORF Size: 1371 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:

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: [NM_001114088.2](#), [NP_001107560.1](#)

RefSeq Size: 2636 bp

RefSeq ORF: 1374 bp

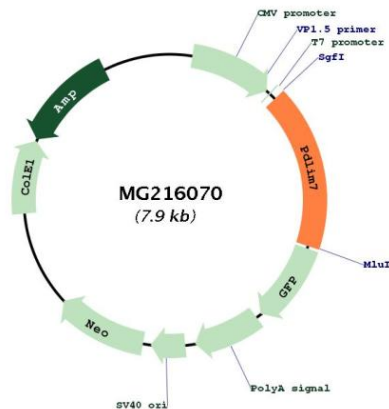
Locus ID: 67399

UniProt ID: [Q3TJD7](#)

Cytogenetics: 13 B1

Gene Summary: May function as a scaffold on which the coordinated assembly of proteins can occur. May play a role as an adapter that, via its PDZ domain, localizes LIM-binding proteins to actin filaments of both skeletal muscle and nonmuscle tissues. Involved in both of the two fundamental mechanisms of bone formation, direct bone formation (e.g. embryonic flat bones mandible and cranium), and endochondral bone formation (e.g. embryonic long bone development). Plays a role during fracture repair. Involved in BMP6 signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216070