

## Product datasheet for **RC201005**

### **PDLIM7 (NM\_005451) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDLIM7 (NM_005451) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDLIM7
Synonyms:	LMP1; LMP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC201005 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGATTCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACT  
 TCAATGTGCCCTCTCCATTTCCCGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGCCGTGGG  
 TGAATGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC  
 CGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGG  
 CCTCCGCCCCCGCGGACCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCCG  
 GCCCTTTGGGGCGCCCCGCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGCTCCGACCGTGGTC  
 CCAGATGCCAGCAAGCAGCGGTGATGGAGAACACAGAGGACTGGCGGCCGCGCCGGGACAGGCCAGT  
 CGCGTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCT  
 GAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCAGCCCGAGCCTCATCTACACCCAGGAGCCCTGG  
 CCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCGCCTGGGCTGTGGACCTGCGTTTGCCGAGCGCT  
 ATGCCCGGACAAAACGAGCACAGTGTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGCAGAG  
 CCGCACCTCCATTGTGACAGGAGCTGCCGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCC  
 GTGTGTACCAAGTGCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGG  
 AGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCAT  
 CTTCTGCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGAAGAAGAAGATTACAGGC  
 GAGATCATGCACGCCCTGAAGATGACCTGGCACGTGACTGCTTACCTGTGCTGCCTGCAAGACGCCCA  
 TCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGG  
 CACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTCAGC  
 TGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGTCAACCTGGAAGGAAAGACCTTCTACTCCAAGA  
 AGGACAGGCCTCTCTGAAGAGCCATGCCTTCTCTCATGTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201005 protein sequence  
 Red=Cloning site Green=Tags(s)

MDSFKVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKI  
 RACGERLSLGLSRAQPVQSKPQKASAPAADPPRYTFAPSVSLNKTARPFAGPPPADSAPQNGQPLRPLV  
 PDASKQRLMENTEDWRPRPGTGQSRFRILAHLTGTEFMQDPDEEHLKKSSQVPRTEAPAPASSTPQEPW  
 PGPTAPSPTSRRPPWAVDPAFAERYAPDKTSTVLTRHSQPATPTPLQSRISIVQAAAGGVPGGSSNNGKTP  
 VCHQCHKVIRGRYLVALGHAYHPEEFVCSQCGKVL EEGGFEEKGAIFCPCYDVRYAPSCAKKKKITG  
 EIMHALKMTWHVHCFTCAACKTPIRNRIFYMEEGVPYCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFS  
 WHDTCFVCAICQINLEGKTFYSKKDRPLCKSHAFSHV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

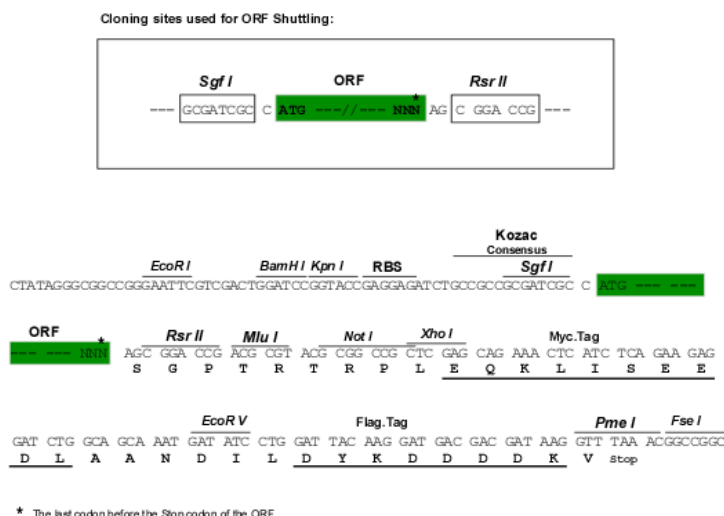
Chromatograms:

[https://cdn.origene.com/chromatograms/mk6809\\_a11.zip](https://cdn.origene.com/chromatograms/mk6809_a11.zip)

Restriction Sites:

Sgfl-RsrII

### Cloning Scheme:



ACCN: NM 005451

ORF Size: 1371 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](mailto: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.

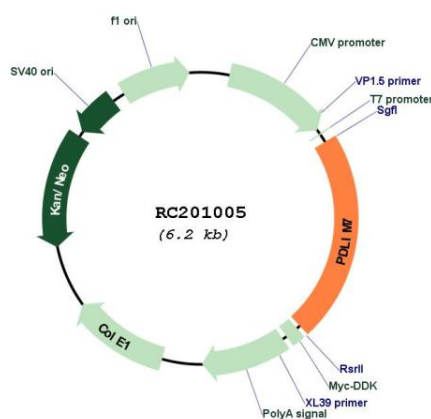
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

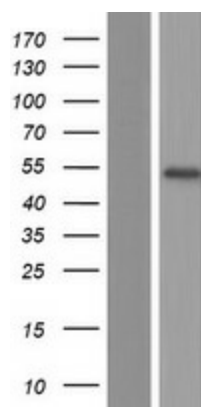
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_005451.5</a>
<b>RefSeq Size:</b>	1770 bp
<b>RefSeq ORF:</b>	1374 bp
<b>Locus ID:</b>	9260
<b>UniProt ID:</b>	<a href="#">Q9NR12</a>
<b>Cytogenetics:</b>	5q35.3
<b>Domains:</b>	PDZ, LIM
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	49.8 kDa
<b>Gene Summary:</b>	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]

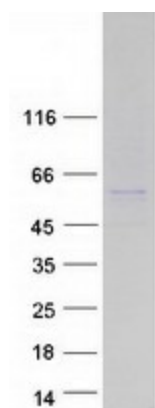
## Product images:



Circular map for RC201005



Western blot validation of overexpression lysate (Cat# [LY417291]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDLIM7 protein (Cat# [TP301005]). The protein was produced from HEK293T cells transfected with PDLIM7 cDNA clone (Cat# RC201005) using MegaTran 2.0 (Cat# [TT210002]).