

Product datasheet for **RG201005**

PDLIM7 (NM_005451) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PDLIM7 (NM_005451) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PDLIM7 |
| Synonyms: | LMP1; LMP3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG201005 representing NM_005451
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACT
 TCAATGTGCCCTCTCCATTTCCCGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGG
 TGAATGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC
 CGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGG
 CCTCCGCCCCCGCGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCCG
 GCCCTTTGGGGCGCCCCGCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGCTCCGACCGCTGGTC
 CCAGATGCCAGCAAGCAGCGGTGATGGAGAACACAGAGGACTGGCGGCCGCGCCGGGACAGGCCAGT
 CGCGTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCT
 GAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCGAGCCCGAGCCTCATCTACACCCAGGAGCCCTGG
 CCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCGCCTGGGGCTGTGGACCTCGCTTTGCCGAGCGCT
 ATGCCCGGACAAAACGAGCACAGTGTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGCAGAG
 CCGCACCTCCATTGTGACGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCC
 GTGTGTACCAAGTGCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGG
 AGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCAT
 CTTCTGCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGAAGAAGAAGATTACAGGC
 GAGATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTACCTGTGCTGCCTGCAAGACGCCCA
 TCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGG
 CACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTCAGC
 TGGCATGACACCTGCTTCGTCTGTGCGATATGTGAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGA
 AGGACAGGCCTCTCTGAAGAGCCATGCCTTCTCATGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201005 representing NM_005451
 Red=Cloning site Green=Tags(s)

MDSFKVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKI
 RACGERLSLGLSRAQPVQSKPQKASAPAADPPRYTFAPSVSLNKTARPFAGPPPADSAPQQNGQPLRPLV
 PDASKQRLMENTEDWRPRPGTGQSRSFRLAHLTGTEFMQDPDEEHLKKSSQVPRTEAPAPASSTPQEPW
 PGPTAPSPTSRRPWAVDPFAERYAPDKTSTVLTRHSQPATPTPLQSRTSIVQAAAGGVPGGGSNNGKTP
 VCHQCHKVIRGRYLVALGHAYHPEEFVCSQCGKVL EEGGFEEKGAI FCPPCYDVRYAPSCAKCKKITG
 EIMHALKMTWHVHCF TCAACKTP IRNRAF YMEEGVPY CERDYEKMF GTKCHG CDFKIDAGDR FLEALGFS
 WHDTCFVCAICQINLEGKTFYSKKDRPLCKSHAFSHV

SGPTRRRLE – GFP Tag – V

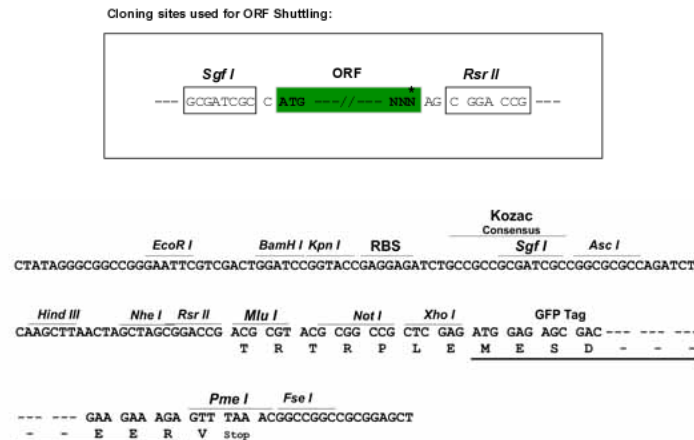
Chromatograms:

https://cdn.origene.com/chromatograms/ja3040_e12.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 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.

RefSeq: [NM_005451.5](#)

RefSeq Size: 1709 bp

RefSeq ORF: 1374 bp

Locus ID: 9260

UniProt ID: [Q9NR12](#)

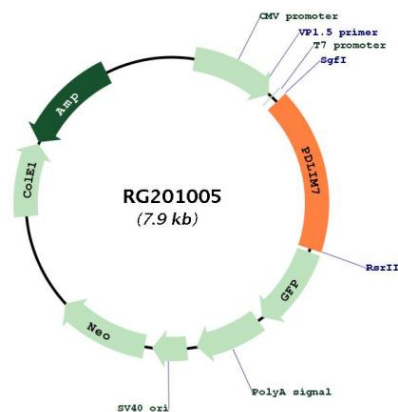
Cytogenetics: 5q35.3

Domains: PDZ, LIM

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 RG201005