

## Product datasheet for **RG212656**

### **PDLIM7 (NM\_203352) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | PDLIM7 (NM_203352) 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)                                                      |
| ORF Nucleotide Sequence:  | >RG212656 representing NM_203352<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCGGCTGCAAGGGGGCAAGGACT  
TCAATGTGCCCTCTCCATTTCCCGGCTCACTCCTGGGGCAAAGCGGCGCAGGCCGGAGTGCCGTGGG  
TGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC  
CGGGCCTGCGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGG  
TGCAGACCCCTGACAAACAGCCGCTCCGACCGCTGGTCCAGATGCCAGCAAGCAGCGGCTGATGGAGAA  
CACAGAGGACTGGCGGCCGCGGCCGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACA  
GGCACCAGATTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGACAGAAG  
CCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACAGCCG  
CCCGCCCTGGGCTGTGGACCTGCGTTTGCCGAGCGCTATGCCCGGACAAAACGAGCACAGTGCTGACC  
CGGCACAGCCAGCCGGCCACGCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAG  
GGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACCAAGTGCACAAGGTATCCGGGG  
CCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGTCT  
CTGGAAGAGGGTGGCTTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATG  
CACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACCTGGCA  
CGTGCACTGCTTTACCTGTGCTGCTGCAAGACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGC  
GTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCG  
ACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATG  
TCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGCCTTC  
TCTCATGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >RG212656 representing NM\_203352  
 Red=Cloning site Green=Tags(s)

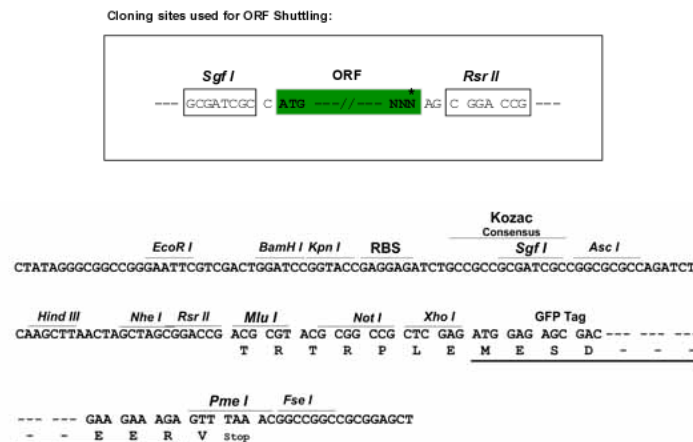
MDSFKVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKI  
 RACGERLSLGLSRAQPVQSKPQKVQTPDKQPLRPLVPDASKQRLMENTEDWRPRPGTGQSRSFRLAHLT  
 GTEFMQDPDEEHLKKSSQVPRTEAPASSTPQEPWPGPTAPSTSRRPPWAVDPFAERYAPDKTSTVLT  
 RHSQPATPTPLQSRSTIVQAAAGGVPGGGSNNGKTPVCHQCHKVIRGRYLVALGHAYHPEEFVCSQCGKV  
 LEEGGFFEEKGAIFCPPCYDVRYAPSCAKCKKKITGEIMHALKMTWHVHCFTCAACKTPIRNRAFYMEEG  
 VPYCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFSWHDTCFVCAICQINLEGKTFYSKKDRPLCKSHAF  
 SHV

SGPTRRRLE – GFP Tag – V

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_203352

**ORF Size:** 1269 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.

**RefSeq:** [NM\\_203352.3](#)

**RefSeq Size:** 1607 bp

**RefSeq ORF:** 1272 bp

**Locus ID:** 9260

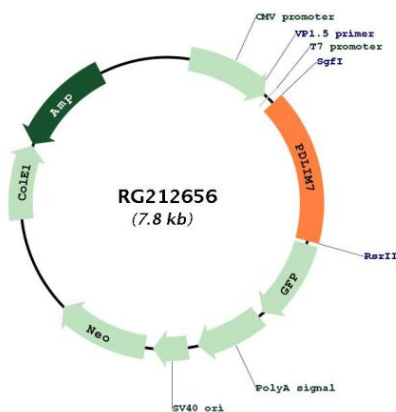
**UniProt ID:** [Q9NR12](#)

**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 RG212656