

## Product datasheet for **SC111943**

### **PDLIM7 (NM\_005451) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDLIM7 (NM_005451) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDLIM7
Synonyms:	LMP1; LMP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005451, the custom clone sequence may differ by one or more nucleotides

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ATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGCAAGGACT
TCAATGTGCCCTCTCCATTTCCCGCTCACTCTGGGGCAAAGCGCGCAGGCCGGAGTGGCCGTGGG
TGACTGGGTGCTGAGCATCGATGGCAGAAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC
CGGGCTCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGG
CCTCCGCCCCCGCGGGACCCTCCGCGGTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCC
GCCCTTTGGGGCGCCCCGCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGCTCCGACCGCTGGTC
CCAGATGCCAGCAAGCAGCGGTGATGGAGAACACAGAGGACTGGCGGCCGCGCCGGGGACAGGCCAGT
CGCGTTCCCTCCGCATCCTTGCCACCTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCT
GAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGG
CCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCT
ATGCCCCGGACAAAACGAGCACAGTGTGACCCGGCACAGCCAGCCGGCCACGCCACGCCGCTGCAGAG
CCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCC
GTGTGTACCAGTGCCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCCGG
AGGAGTTTGTGTAGCCAGTGTGGGAAGTCTTGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCCCAT
CTTCTGCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGAAGAAGAATTACAGGC
GAGATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCTGCAAGACGCCCA
TCCGGAACAGGGCCTTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGG
CACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCTGGAGGCCCTGGGCTTCAGC
TGGCATGACACCTGCTTCGTCTGTGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGA
AGGACAGGCCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005451 unedited GTACGTCAAATTTGTAAACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCTCCCTGGAGCCCAGCGCAGAGCAGCGCCCTGGCCGGGCAAGCAGGAGCCGGCATCATGGATTCC TTCAAAGTAGTGTGGAGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGCAAGGAC TTCAATGTGCCCTCTCCATTTCCCGGCTACTCTGGGGCAAAGCGGCGCAGGCCGA GTGGCCGTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACAC ATCGAAGCTCAGAACAAGATCCGGGCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGG GCCCAGCCGGTTCAGAGCAAACCGCAGAAGGTGCAGACCCTGACAAACAGCCGCTCCGA CCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCG CGGCCGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCACCTCACAGGCACCGAG TTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCAGGACAGAA GCCCAGCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGC CCTACCAGCCGCCCGCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCCCGGAC AAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCAGCCAGCCACGCCCGCTGCAGAGC CGCACCTCCATTGTGCAGGCAGTGCCCGNAGGGTGCCAGGAGGGGGCAGCAACAACGGC AAGACTCCCGTGTGTACCAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGGCGCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005451
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005451.3</a> , <a href="#">NP_005442.2</a>
<b>RefSeq Size:</b>	1709 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

**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]  
Transcript Variant: This variant (1) encodes the longest isoform (1).