

## Product datasheet for **SC112905**

### **PDLIM2 (NM\_021630) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDLIM2 (NM_021630) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDLIM2
Synonyms:	MYSTIQUE; SLIM
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_021630, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGGCGGGAGAGCGCGGCCGGCTGGGAGAGCTTTATGGGGCTGCCCCCTCGATCGTCTGCGAAGT
GGGGCGGGGCGAGTCCCTGGACCGGCTCTGCTGTGCTCCGGGCAGTCGGGGGCTTGGGGCGCTCCGGG
GAGGATGCGGGCACCACCGGCTGGACGGTGCAGCCTGCAGGGGGCCCTGGGGACAGCTGCCTCATCCC
CCCGCGGGCTCGGGCCAGGTGGCAGCGCTGGGCTCGCCGCGGAGGGCGGGCTTCTCGGGCTAGGG
GCGGCGGAGGGGCGCCCGGGATCACATGGGCGGAGGCAGGTCGGGAGCCCCGGGCGGGCTCTCCCC
AGAGTCGGGTAGACGGCAGCGGGAGCGGTGGCGTCTCCCCGCTTCCCTCCCTCCCGGGCTGGGCGCC
AGCCGGACAGGTGAGCGGCAGCCAGGTGAGCGCGCCACCTGCGCCTCTCCGCGGGCCCGCCCTCCCCG
GCGCCGGGCTCCTCTCCGCGCCCTGTGGGCGGGAACCCTGGCCTCGTCCGCGGGCCAGCTCCCTGGAG
CCTCGCATCAGCGGGGGCCCCCGGAGCTGCGCTCTCCCCGGCGGAGCGCTCCTCTCCAGCCCCCA
GCCCGCAGGGTACTTTGCCCTCGGAGCGAAGGAGGCTCCAGAAGTGGTAGAGCCGGGCCATCGGGCTGG
CACCTCCCGCGGGCGCCCGCAGCGCGGAGTCCACTGACCGGCTCAAAGGTATGGCGTTGACGGTGGATGT
GGCCGGGCGCAGCGCCCTGGGGCTTCCGTATCACAGGGGGCAGGGATTTCCACACGCCCATCATGGTGACT
AAGGTGGCCGAGCGGGGCAAAGCAAGGACGCTGACCTCCGGCCTGGAGACATAATCGTGCCATCAACG
GGGAAAGCGCGGAGGGCATGCTGCATGCCGAGGCCAGAGCAAGATCCGCCAGAGCCCTCGCCCTGCG
GCTGCAGCTGGACCGGTCTCAGGCTACGCTCCAGGGCAGACCAATGGGACAGCTCCTTGAAGTGCTG
GCGACTCGCTCCAGGGCTCCGTGAGGACATACTGAGAGTCAGTCTCCTTAAGTCTCCTACTCCA
GCCAACCTCCCTCAGCCGAGGGCCGGCAGCCCTTCTACCACCACCTTAGCAGCTCCCTACTGG
AGAGGCAGCCATCAGCCGAGCTTCCAGAGTCTGGCATGTTCCCGGGCCTCCCGCTGCTGACCGCCTG
TCCTACTCAGCCGCCCTGGAAGCCGACAGGCCGGCCTCGGCCGCGCTGGCGACTGGCGGTGCTGGTGC
TGCCGCCTTCCCGGGCCCTCGTTCCTCCAGGCCAGCATGGACTCGGAAGGGGGAAGCCTCCTCTGGA
CGAGGACTCGGAAGTCTTCAAGATGCTGCAGGAAAATCGCGAGGACGGGCGGCCCCCGACAGTCCAGC
TCTTTTCGGCTCTTGAGGAAGCCCTGGAGGCTGAGGAGAGAGGTGGCACGCCAGCCTTCTTGCCAGCT
CACTGAGCCCCAGTCTCCTGCCCGCTCCAGGGCCCTGGCCACCCCTCCCAAGCTCCACACTTGTGA
GAAGTGCAGTACCAGCATCGGAACCAGGCTGTGCGCATCCAGGAGGGCCGGTACCGCCACCCCGGCTGC
TACACCTGTGCCGACTGTGGCTGAACCTGAAGATGCGCGGGCACTTCTGGGTGGTGACGAGCTGACT
GTGAGAAGCATGCCCGCCAGCGTACTCCGCACCTGCCACCTCAGCTCTCGGGCCTGA
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021630 unedited

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NGGTTCAAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCAGAGGGCAGCGGG
AGCGGTGGCGTCTCCCCGCTTCCCTCCCTCCCGGGCCTGGGCGCCAGCCGGACAGGTA
TGGCGTTGACGGTGGATGTGGCCGGGCCAGCGCCCTGGGGCTTCCGTATCACAGGGGCA
GGGATTTCCACACGCCCATCATGGTGACTAAGGTGGCCGAGCGGGGCAAAGCCAAGGACG
CTGACCTCCGGCCTGGAGACATAATCGTGCCATCAACGGGAAAGCGCGGAGGGCATGC
TGATGCCGAGGCCAGAGCAAGATCCGCCAGAGCCCTCGCCCTGCGGCTGCAGCTGG
ACCGGTCTCAGGCTACGCTCCAGGGCAGACCAATGGGACAGCTCCTTGAAGTGCTGG
CGACTCGTTCAGGGCTCCGTGAGGACATACTGAGAGTCAGTCTCCTTAAGTCTCCT
CCTACTCCAGCCAACTCCCTCAGCCGAGGGCCGGCAGCCCTTCTACCACCACCT
CTAGCAGTCCCTCACTGGAGAGGCAGCCATCAGCCGAGCTTCCAGAGTCTGGCATGTT
CCCCGGGCTCCCGCTGCTGACCGCTGTCTACTCAGGCCGCCCTGGAAGCCGACAGG
CCGGCCTCGGCCGCGCTGGCGACTCGGGGTGCTGGTGTGCCGCTTCCCGGGCCCTC
GTTCTCCAGGCCAGCATGGACTCGGAAGGGGGAAGCCTCCTCTGGAGGAAGACTCGG
AAGTCTTCAAGATGCTGCAGGAAAATCGCGAGGACGGGCGGCCCCCGACAGTCCAGCT
CCTTTCGCTCTTGCAGGAAGCCCTGNNAGCTGANGAGAGAGGTGGCACGCCAGCCCTTC
TTGCCAG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_021630 unedited GACGCGGCCGCTTTCTANATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTCTGCCCATATTC ATATATTTATAGAGCTAGTATGTCAAAAACCTTTACACAGTGACACCATTAGCCCCCTGGCC CACCCCTCCTTCCCACCTTCTGTGTCGACCCTACTTAGACCCTGGCACACAAAGGTTG ATCAAAGGCAGTGGCCACCTCAGACTAGTGCAATGCCAGTCTGCAGGGGAGAGGCCTGG CAAGGTGAGGGTGAGTCTCCACAGTCCAAGACAGGCCCCAGACCTTGGCCACCAGCG AGGACAAAGGGGCTCAGGTCTCCAACTTAGCTCATGTAAGAGCAACTGCCACCATTG TCCTGCCATGCCAATTATATAGGCATGACCCTGGCCACCAGTGAGGCAGGCTGAGGG CATGGCGGGCTCAGGCCGAGAGCTGAGGGTGGCAGGTGCGGAGTACCGCTGGCGGGCAT GCTTCTCACAGCACAGCTCGTCACCCACCCAGAAGTGCCCGCGCATCTTCAGGTTACGCC CACAGCCGGCACAGGCGTACCAGTCGGGGTGGCGGTACCGGCCCTCTGGATGCGCCAG CCTGGCTCGCGATGCTGGTACTGCACTTGTCAAGTGTGGAGCTTGCAGGGGTGGCCA GCGCCCTGGAAGCGGACAGGGAGGACTGGGGGCTACTGAGCTGGGCAAGAAAGCTGGCG TGCCACCTCTCTCTCAGCCTCCAAGTCTTCTGCAAGAGCCCAAGGACCTGGACTGCC GGGGCCGACCGTCCCTCGNAATNTTCTTGCATCTTGAAGACTTCGAGTCTCGACCAG GAGGAGCTTACCCTACCGAACCCATCTGGGCCCTGGAGAACCAAGGGCCCGGGCAGGC GGAACACCAGACCCGCCGATTGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021630
<b>Insert Size:</b>	1600 bp
<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>OTI Annotation:</b>	A True Clone.
<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_021630.4</a> , <a href="#">NP_067643.2</a>
<b>RefSeq Size:</b>	1857 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	64236
<b>UniProt ID:</b>	<a href="#">Q96JY6</a>
<b>Cytogenetics:</b>	8p21.3
<b>Domains:</b>	PDZ, LIM

**Gene Summary:**

This gene encodes a member of the ALP subfamily of PDZ-LIM domain proteins. The encoded protein suppresses anchorage-dependent growth and promotes cell migration and adhesion through interactions with the actin cytoskeleton via the PDZ domain. The encoded protein is also a putative tumor suppressor protein, and decreased expression of this gene is associated with several malignancies including breast cancer and adult T-cell leukemia.

Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) differs in both UTRs and in the 5' and 3' coding regions, compared to variant 1. The resulting isoform (2) has distinct N- and C-termini and is longer than isoform 1.