

Product datasheet for **SC321417**

PDLIM5 (NM_006457) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_006457) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDLIM5
Synonyms:	ENH; ENH1; L9; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006457.2
GGGACGGCGCCCTCACC GCGAGTCACTTGT CAGCCCTTGTCTGAGCGGAGGCAGCCCCG
CGCCGCGCCGAGCCCGAGCATATTTTCATTTTCTGT CATTGGACTTTGAGCCATTAGAACC
ATGAGCAACTACAGTGTGTCACTGGTTGGCCAGCTCCTTGGGGTTTCCGGCTGCAGGGC
GGTAAGGATTTCAACATGCCTCTGACAATCTCTAGTCTAAAAGATGGCGCAAGGCAGCC
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CTGCAAAGAGCATCTGCTGCACCAAGCCTGAGCCGGTTCTGTTCAAAAGGGAGAACCT
AAAGAAGTAGTTAAACCTGTGCCATTACATCTCCTGCTGTGTCCAAAGTCACTCCACA
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ACATCCATCCCATCACCATCGTCTGCCTTACCCAGCCCATGCGACCACCTCATCAT
GCTTCCCCTTACCCGTGGCTGCCGTCACTCCTCCCCTGTTTCGCTGCATCTGGACTGCAT
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CCAGAAGAATTCAACTGCCTCACTGCAAAAATACAATGGCCTACATTGGATTTGTAGAG
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CGATGCCAAAGGAAGATCCTTGGAGAAGTCATCAATGCGTTGAAACAACTTGGCATGTT
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GATGGTGAACCCTACTGTGAGACTGATTATTATGCCCTCTTTGGTACTATATGCCATGGA
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CGTGCCTGTAGTCCCATGTACTTGGGAGGCTGAGGCAGGAAAAATCTTGAACCCAGGAGA
CGGAAGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGTGACAGAGCAAGAC
TCCGGCTCTTAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_006457
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_006457.2](#), [NP_006448.2](#)

RefSeq Size: 6101 bp

RefSeq ORF: 1791 bp

Locus ID: 10611

UniProt ID: [Q96HC4](#)

Cytogenetics: 4q22.3

Domains: PDZ, LIM

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of a family of proteins that possess a 100-amino acid PDZ domain at the N terminus and one to three LIM domains at the C-terminus. This family member functions as a scaffold protein that tethers protein kinases to the Z-disk in striated muscles. It is thought to function in cardiomyocyte expansion and in restraining postsynaptic growth of excitatory synapses. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (1) encodes isoform a (also known as ENH1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.