

## Product datasheet for **MR227623**

### **Pdlim5 (NM\_001190852) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_001190852) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdlim5
Synonyms:	1110001A05Rik; AI987914; C87059; Enh; Enh1; Enh2; Enh3; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227623 representing NM\_001190852  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT  
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG  
 GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT  
 AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGTGCAGCCAAGAGTGAAGCCGGTTT  
 CCGTCCAGAAGCCACAGTACCAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG  
 AGGATCCCAGGGTGACATTAAGCAGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAG  
 TTTTATCACATACCCACTCACAGTATGCCAGCAAGAAACGGCTGATTGAGGACACTGAGGACTGGCGCC  
 CCCGGACTGGAACGACTCAGTCTCGTTCCTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGAC  
 AGAATCTGAAAAATGACAATACGAAGAAGCAAAGTTTTACAGTTCCTGGAAGACCCCTTAAGAACGGA  
 CCACACCCACCTGCAGCTCCCCAGCTGTTAAAAGTTCATAGTCAAGTAGCCATAGTTTCTAAGGAAGCAG  
 CCACTTACTCTAGTGTAAAGCAGGTCTACAAGAACTGTAGAAGGTGCTTTGGAAGGCTTTGAAAACCTTCC  
 TGCCCTTCCCCTCTACTAGATACAGTGTGTAGTCTGTCAGTGTGCGGCTGCCACTGTGTCTGTCTGTCT  
 CTCGCTGCGAAAACAGGCTCTTCGGCCCTGAAAACCTCCAGTCTCTTCTGGATGCACTGTGCATCAGCA  
 CTGTCCCCAAGCCTCTAGCTCTTTCCTGTCTTCAGTCTCTGAGGAGTCGAGTGGCTCTGTCCACGTTAA  
 GAAGAGCAGTAGCACCCAGGAGCCTTCCAGCAACCGCGTCACTGGAGCTTACCTCTGAGCGCGTCT  
 GAGGGCCCCGAGAGCCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCCTCCGCTCCGCTGCTGCTTTCAAGC  
 CTGTAGGATCCACCAGCGTCAAGTCACTAGTGGCAGCGTCAAACCAAGCAGCAGCCTTCTACTGGGAG  
 AATTTCAAACAATGCACGTTCTTCAAGTACAGGGCGTCTGTGGGGCCTCCCAGCCAAGTGAACCAAGAC  
 ACACTTGTGCAGAGAGCGGAACACATTCACAGCGGCAAGCGGACCCCATGTGTGCCACTGCAACCAAG  
 TTATCAGGGGACCTTTTCTGTGGCTCTGGGGAAGTCTGGCATCCAGAAGAATTTAACTGTGCTCATTG  
 CAAAAACACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGAGCACTGTACTGTGAGCTATGCTATGAG  
 AAGTCTTTGCTCCTGAATGTGGCCGTGCCAAAGGAAGATCCTTGGAGAAGTCAATGCTTTGAAGC  
 AGACCTGGCATGTGCTCTGTTTTGTGTGTGGCCTGTGAAAACCCATTGTAATAATGTTTTCCACTT  
 GGAAGATGGCAGCCCTACTGTGAGACAGACTACTACGCCCTTTTGGACAATATGTCGTGGATGTGAA  
 TTCCCATAGAGGCTGGTACATGTTCTGGAAGCTCTGGGATACACTTGGCATGATACTGCTTTGTGT  
 GCTCTGTGTGTTGTGAAAGTTTGAAGGGCAGACATTTTTCTCCAAGAAGGACAAGCCACTTTGCAAAA  
 ACATGCTCATTCTGTGAATTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227623 representing NM\_001190852  
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI  
 KACTGSLNMTLQRASAAKSEPVSVQKPTVTSVCSESAQELAEQRRGSQGDIIKQNGPPRKHIVERNTE  
 FYHIPHSDASKRRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLTESENDNTKAKFYSSLEDPLKNG  
 PHPPAAPQLLKVHSQVAIVSKEAATYSSVSRSTRTEVEGALEGFNFPAFSPPTRYSAVVSDAAATVSAA  
 LAAKTRLFGPENSQSLLDALCISTVPKPLALSCLQSSEESSGSHVHKSSSTQEPSQQPASSGASPLSAS  
 EGPESPGSSRPSVAGLRSAAFKPVGSTSVKSPSWQRPNQAAPSTGRISNNARSSGTGASVGPQPQSDQD  
 TLVQRAEHIPAGKRTPMCAHCNQVIRGPFVVALGKSWHPEEFNCAHCKNTMAYIGFVEEKGALYCELCYE  
 KFFAPECGRCQRKILGEVINALKQTWHVSCFVACGKPIRNNVFHLEDGEPYCETDYYALFGTICRGCE  
 FPIEAGDMFLEALGYTWHDTCFVCSVCCESLEGQTFFSKKDKPLCKKHAHSVNF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001190852

**ORF Size:** 1842 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](mailto: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).

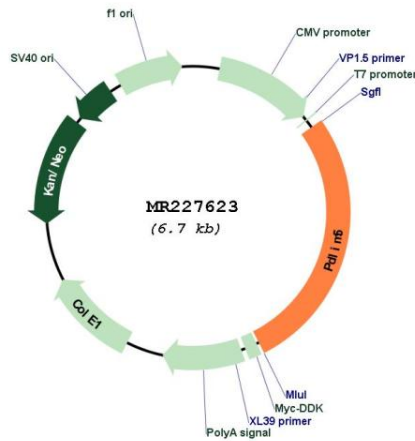
**Reconstitution Method:**

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\\_001190852.1](#), [NP\\_001177781.1](#)  
 RefSeq Size: 5108 bp  
 RefSeq ORF: 1845 bp  
 Locus ID: 56376  
 UniProt ID: [Q8CI51](#)  
 Cytogenetics: 3 H1  
 MW: 66.5 kDa

**Gene Summary:** May play an important role in the heart development by scaffolding PKC to the Z-disk region. Isoform 2 and isoform 3 may negatively modulate the scaffolding activity of isoform 1. May play a role in the regulation of cardiomyocyte expansion. Overexpression promotes the development of heart hypertrophy. Contributes to the regulation of dendritic spine morphogenesis in neurons. May restrain postsynaptic growth of excitatory synapses (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR227623