

Product datasheet for **MR227659**

Pdlim5 (NM_001190855) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_001190855) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdlim5
Synonyms:	1110001A05Rik; AI987914; C87059; Enh; Enh1; Enh2; Enh3; LIM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR227659 representing NM_001190855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTCCGGCTCCAAGGTGGCAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG
 GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT
 AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTACAGTGCAGCCAAGAGTGAAGCCGTTT
 CCGTCCAGAAGCCACAGTACCAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG
 AGGATCCCAGGGTGACATTAAGCAGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAG
 TTTTATCACATACCCACTCACAGTATGCCAGCAAGAACGGCTGATTGAGGACTGAGGACTGGCGCC
 CCCGGACTGGAACGACTCAGTCTCGTTCTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGAC
 AGAATCTGAAAAAGACAATACGAAGAAGCAAAGCTCTTCCGGCCCTGAAAACCTCCAGTCTCTTCTGGAT
 GCACTGTGCATCAGCACTGTCCCAAGCCTCTAGCTCTTCTGTCTTCACTGCTCTGAGGAGTCCGAGTG
 GCTCTGTCCACGTTAAGAAGAGCAGTAGCACCCAGGAGCCTTCTCAGCAACCGGCGTCATCTGGAGCTTC
 ACCTCTGAGCGCTGTGAGGGCCCCGAGAGCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCTCCGCTCC
 GCTGCTGCTTCAAGCCTGTAGGATCCACCAGCGTCAAGTCACTAGCTGGCAGCGTCCAAACCAAGCAG
 CACCTTCTACTGGGAGAAATTTCAAACAATGCACGTTCTTCAAGGTACAGGGGCGTCTGTGGGGCTCCCA
 GCCAAGTGACCAAGACACTTGTGCAGAGAGCGGAACACATTCAGCGGGCAAGCGGACCCCATGTGT
 GCCCACTGCAACCAAGTTATCAGGGGACCTTTTCTGTGGCTCTGGGGAAGTCTGGCATCCAGAAGAAT
 TTAAGTGTGCTCATTGCAAAAACACAATGGCTACATAGGCTTTGTAGAGGAGAAGGGGAGCTGTACTG
 TGAGCTATGCTATGAGAAGTTCTTTGCTCTGAATGTGGCCGGTGCCAAAGGAAGATCCTTGGAGAAGTC
 ATCAATGCTTTGAAGCAGACCTGGCATGTGCCTGTTTTGTGTGTGGCCTGTGAAAACCCATTCGTA
 ATAATGTTTTCCACTTGGAAAGTGGCGAGCCCTACTGTGAGACAGACTACTACGCCCTTTTTGGAACAAT
 ATGTCGTGGATGTGAATCCCATAGAGGCTGGTACATGTTCTGGAAGCTCTGGGATACACTTGGCAT
 GATACTTGCTTTGTGTCTGTGTGTTGTGAAAGTTTGGAAAGGCGAGACATTTTCTCCAAGAAGGACA
 AGCCACTTTGCAAAAACATGCTCATTCTGTGAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227659 representing NM_001190855
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI
 KACTGSLNMTLQRASAAKSEPVSVQKPTVTSVCSESAQELAEQRRGSQDQIKQNGPPRKHIVERNTE
 FYHIPHSDASKKRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLTESENDNTKKAKLFGPENSQSLLD
 ALCISTVPKPLALSCLQSSEESSGVHVKKSSSTQEPSQPPASSGASPLSASEGPESPGSSRPSVAGLRS
 AAFAKPVGSTSVKSPSWQRPNQAAPSTGRISNNARSSGTGASVGGPPQPSDQDTLVQRAEHIPAGKRTPMC
 AHCNQVIRGPFVALGKSWHPEEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEV
 INALKQTVHVSFCFVACGKPIRNNVFHLEDGEPYCETDYALFGTICRGCEFPFIEAGDMFLEALGYTWH
 DTCFVCSVCCESLEGQTFFSKKDKPLCKKHAHSVNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

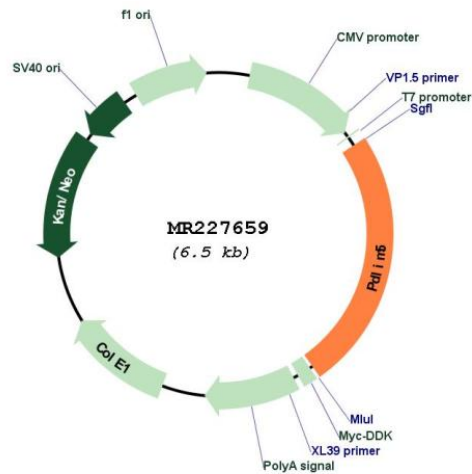
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001190855
ORF Size:	1578 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:	<ol style="list-style-type: none">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_001190855.1 , NP_001177784.1
RefSeq Size:	4844 bp
RefSeq ORF:	1581 bp
Locus ID:	56376
UniProt ID:	Q8CI51
Cytogenetics:	3 H1
MW:	57.4 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]