

Product datasheet for **MG227623**

Pdlim5 (NM_001190852) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_001190852) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdlim5
Synonyms:	1110001A05Rik; AI987914; C87059; Enh; Enh1; Enh2; Enh3; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227623 representing NM_001190852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG
 GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT
 AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGCTGCAGCCAAGAGTGAAGCCGGTTT
 CCGTCCAGAAGCCACAGTCAACAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG
 AGGATCCCAGGGTGACATTAAGCAGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAG
 TTTTATCACATACCCACTCACAGTATGCCAGCAAGAAACGGCTGATTGAGGACACTGAGGACTGGCGCC
 CCCGGACTGGAACGACTCAGTCTCGTTCCTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGAC
 AGAATCTGAAAAATGACAATACGAAGAAGCAAAGTTTTACAGTCTCTGGAAGACCCCTTAAGAACGGA
 CCACACCCACCTGCAGCTCCCCAGCTGTTAAAAGTTCATAGTCAAGTAGCCATAGTTTCTAAGGAAGCAG
 CCACTTACTCTAGTGTAAGCAGGTCTACAAGAACTGTAGAAGGTGCTTTGGAAGGCTTTGAAAACCTTCC
 TGCCCTTCCCCTCCTACTAGATACAGTGTGTAGTCTGTCAGTGTGCGGCTGCCACTGTGTCTGTCTGCT
 CTCGCTGCGAAAACAGGCTCTTCGGCCCTGAAAACCTCCAGTCTCTTCTGGATGCACTGTGCATCAGCA
 CTGTCCCCAAGCCTCTAGCTCTTTCCTGTCTTCAGTCTCTGAGGAGTCGAGTGGCTCTGTCCACGTTAA
 GAAGAGCAGTAGCACCCAGGAGCCTTCTCAGCAACCGCGTCACTGGAGCTTCACTCTGAGCGCGTCT
 GAGGGCCCGAGAGCCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCCTCCGCTCCGCTGCTGCTTTCAAGC
 CTGTAGGATCCACCAGCGTCAAGTCACTAGTGGCAGCGTCCAACCAAGCAGCACCTTACTGGGAG
 AATTTCAAACAATGCACGTTCTTCAGGTACAGGGCGTCTGTGGGGCCTCCCAGCCAAGTGACCAAGAC
 ACACTTGTGCAGAGAGCGGAACACATTCACAGCGGCAAGCGGACCCCATGTGTGCCACTGCAACCAAG
 TTATCAGGGGACCTTTTCTGTGGCTCTGGGGAAGTCTGGCATCCAGAAGAATTTAACTGTGCTCATTG
 CAAAAACACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGAGCACTGTACTGTGAGCTATGCTATGAG
 AAGTCTTTGCTCCTGAATGTGGCCGTGCCAAAGGAAGATCCTTGGAGAAGTCAATGCTTTGAAGC
 AGACCTGGCATGTGCTCTGTTTTGTGTGTGGCCTGTGAAAACCCATTGTAATAATGTTTTCCACTT
 GGAAGATGGCAGCCCTACTGTGAGACAGACTACTACGCCTTTTTGGACAATATGTCGTGGATGTGAA
 TTCCCATAGAGGCTGGTACATGTTCTGGAAGCTCTGGGATACACTTGGCATGATACTTGCTTTGTGT
 GCTCTGTGTGTTGAAAGTTTGAAGGCAGACATTTTTCTCCAAGAAGGACAAGCCACTTTGCAAAAA
 ACATGCTCATTCTGTGAATTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227623 representing NM_001190852
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI
 KACTGSLNMTLQRASAAKSEPVSVQKPTVTSVCSESAQELAEGQRRGSQGDIKQNGPPRKHIVERNTE
 FYHIPTSDASKRLLIEDTEDWRPRTGTTQSRFRILAQITGTEHLTESENDNTKKAFYSSLEDPLKNG
 PHPPAAPQLLKVHSQVAIVSKEAATYSSVSRSTRTEVEGALEGFNFPAFSPPTRYSAVVVSDAAATVSAA
 LAAKTRLFGPENSQSLLDALCISTVPKPLALSCLQSSEESSGSHVHKSSSTQEPSQQPASSGASPLSAS
 EGPESPGSSRPSVAGLRSAAFKPVGSTSVKSPSWQRPNQAAPSTGRISNNARSSGTGASVGPQPSPDQD
 TLVQRAEHIPAGKRTPMCAHCNQVIRGPFLLVALGKSWHPPEFNCAHCKNTMAYIGFVEEKGALYCELCYE
 KFFAPECGRCQRKILGEVINALKQTHVSCFVVCACGKPIRNNVFHLEDGEPYCETDYYALFGTICRGCE
 FPIEAGDMFLEALGYTWHDTCFVCSVCCESLEGQTFFSKDKPLCKKHAHSVNF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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 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.

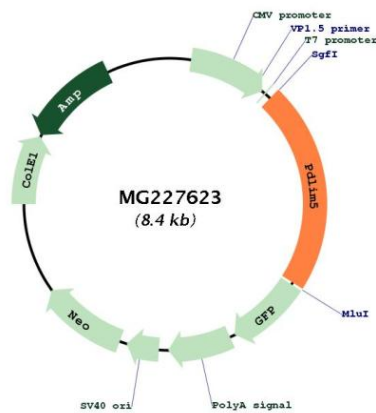
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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
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 MG227623