

Product datasheet for **MG227661**

Pdlim5 (NM_001190856) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_001190856) 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:

>MG227661 representing NM_001190856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG
 GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT
 AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGCTGCAGCCAAGAGTGAAGCCGTTT
 CCGTCCAGAAGCCACAGTACCAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG
 AGGATCCAGGGTGACATTAAGCAGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAG
 TTTTATCACATACCCACTCACAGTATGCCAGCAAGAAACGGCTGATTGAGGACTGAGGACTGGCGCC
 CCCGGACTGGAACGACTCAGTCTCGTTCCTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGAC
 AGAATCTGAAAATGACAATACGAAGAAGGCAAAATGTAAGCAGGTCTACAAGAACTGTAGAAGGTGCTTTG
 GAAGGCTTTGGAACTTTCTGCCTTCTCCCTCTACTAGATACAGTGTGTAGTGTGCTGATGCGG
 CTGCCACTGTGTCTGCTGCTCTCGCTGCGAAAACAGGCTCTTCCGGCCCTGAAAACCTCCAGTCTCTTCT
 GGATGCACTGTGCATCAGCACTGTCCCCAAGCCTCTAGCTCTTTCCTGTCTTCAGTCTCTGAGGAGTCG
 AGTGGCTCTGTCCACGTTAAGAAGAGCAGTAGCACCCAGGAGCCTTCTCAGCAACCGGCGTCATCTGGAG
 CTTACCTCTGAGCGCTCTGAGGGCCCCGAGAGCCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCCTCCG
 CTCGGTCTGCTTTCAAGCCTGTAGGATCCACCAGCGTCAAGTACCTAGCTGGCAGCGTCCAAACCAA
 GCAGCACCTTCTACTGGGAGAATTTCAAACAATGCACGTTCTTCAGGTACAGGGGCGTCTGTGGGCCCTC
 CCCAGCCAAGTGACCAAGACACACTTGTGCAGAGAGCGGAACACATTCCAGCGGGCAAGCGGACCCCAT
 GTGTGCCACTGCAACCAAGTTATCAGGGGACCTTTTCTTGTGGCTCTGGGGAAGTCTGGCATCCAGAA
 GAATTTAACTGTGCTCATTGCAAAAACACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGAGCACTGT
 ACTGTGAGCTATGCTATGAGAAGTTCTTTGCTCCTGAATGTGGCCGGTGCCAAAGGAAGTCTTGGAGA
 AGTCATCAATGCTTTGAAGCAGACCTGGCATGTGCTCTGTTTTGTGTGTGGCCTGTGGAAAACCCATT
 CGTAATAATGTTTTCCACTTGAAGATGGCGAGCCCTACTGTGAGACAGACTACTACGCCCTTTTGGAA
 CAATATGTCGTGGATGTGAATCCCCATAGAGGCTGGTGCATGTTCTGGAAGCTCTGGGATACACTTG
 GCATGATACTTGTGCTCTGTGTGTTGTGAAAGTTTGAAGGGCAGACATTTTTCTCCAAGAAG
 GACAAGCCACTTTGCAAAAACATGCTCATTCTGTGAATTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence:

>MG227661 representing NM_001190856
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLDGKASQAHVRIGDVVLSIDGISAQGMTHLEAQNKI
 KACTGSLNMLTQRASAAAKSEPVSVQKPTVTSVCSESAQELAEGQRRGSQGDIKQNGPPRKHIVERNTE
 FYHIPTSDASKRRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLTESENDNTKKANVSRSTRTEGAL
 EFGNFPAPSPTRYSAVVVSDAAATVSAALAAKTRLFGPENSQSLLDALCISTVPKPLALSCLQSSEES
 SGSVHVKKSSSTQEPSQQPASSGASPLSASEGPESPGSSRPSVAGLRSAAAFKPVGSTSVKSPSQRPNQ
 AAPSTGRISNNARSSGTGASVPPQPSDQDTLVQRAEHIPAGKRTPMCAHCNQVIRGPFLVALGKSWHPE
 EFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEVINALKQTHVSCFVCVACGKPI
 RNNVFHLEDGEPYCETDYALFGTICRGCEFPFIEAGDMFLEALGYTWHDTFCVSCVCCESLEGQTFFSKK
 DKPLCKKHAHSVNF

TRTRPLE – GFP Tag – **V**

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001190856

ORF Size: 1722 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:

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_001190856.1](#), [NP_001177785.1](#)

RefSeq Size: 4988 bp

RefSeq ORF: 1725 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 MG227661