

## Product datasheet for **MG227647**

### **Pdlim5 (NM\_022554) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_022554) 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)
ORF Nucleotide Sequence:	>MG227647 representing NM_022554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT  
TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG  
GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGAATGACGCATCTTGAAGCCAGAACAAGATT  
AAGGCTTGTACGGCTCCTTGAATGACTCTACAAAGAGCTTCAGCTGCAGCCAAGAGTGAGCCGGTTT  
CCGTCCAGAAGCCACAGTCACCAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG  
AGGATCCCAGGGTGACATTAAGCAGCAAAATGGTAACCCTGGCACTGTGAAAATCCACCTAAACGCCCA  
CCAAGAAAACACATTGTGGAGCGCAACACGGAGTTTTATCACATACCCACTCACAGTGATGCCAGCAAGA  
AACGGCTGATTGAGGACACTGAGGACTGGCGCCCCGGACTGGAACGACTCAGTCTCTTTCCGGAT  
CCTTGCCAGATCACTGGGACTGAGCATCTGACAGAATCTGAAAATGACAATACGAAGAAGGCAAGGAA  
AAGATACCCCTTCAGTCTTTAGTCCCAAATACACAAAATTACGTGACTGGCACCATGAAGTTTCAGCAC  
GTGCTCTTAATGTACAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227647 representing NM\_022554  
Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKASQAHVRIGDVVLSIDGISAQGMTHLEAQNKI  
 KACTGSLNMTLQRASAAAKSEPVSVQKPTVTSVCSESAQELAEGQRRGSQGDIKQQNGNPGTVKIPKRP  
 PRKHIVERNTEFYHIPTSDASKRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLTESENDNTKKAKE  
 KIPLHVFSPKYTKLRDWHHEVSARALNVQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022554

**ORF Size:** 717 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\\_022554.3](#), [NP\\_072048.2](#)

**RefSeq Size:** 2010 bp

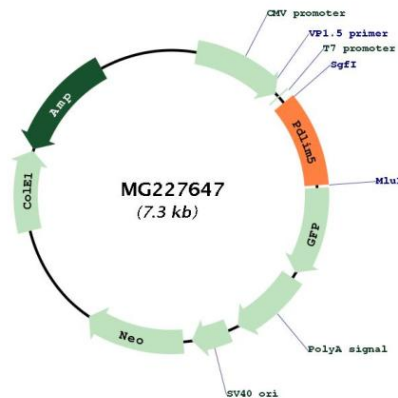
**RefSeq ORF:** 720 bp

**Locus ID:** 56376

**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 MG227647