

Product datasheet for **MG227659**

Pdlim5 (NM_001190855) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_001190855) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG227659 representing NM_001190855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTGAGAATAGG
 GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT
 AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGTGCAGCCAAGAGTGAAGCCGGTTT
 CCGTCCAGAAGCCACAGTCAACAGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAG
 AGGATCCAGGGTGACATTAAGCAGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAG
 TTTTATCACATACCCACTCACAGTATGCCAGCAAGAACGGCTGATTGAGGACTGAGGACTGGCGCC
 CCCGGACTGGAACGACTCAGTCTCGTTCTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGAC
 AGAATCTGAAAAATGACAATACGAAGAAGCAAAGCTCTTCGGCCCTGAAAACCTCCAGTCTTTCTGGAT
 GCACTGTGCATCAGCACTGTCCCAAGCCTCTAGCTCTTTCTGTCTTCACTGCTCTGAGGAGTCCAGTG
 GCTCTGTCCACGTTAAGAAGAGCAGTAGCACCCAGGAGCCTTCTCAGCAACCGGCGTCATCTGGAGCTTC
 ACCTCTGAGCGCTGTGAGGGCCCCGAGAGCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCTCCGCTCC
 GCTGCTGCTTCAAGCCTGTAGGATCCACCAGCGTCAAGTCACTAGCTGGCAGCGTCCAAACCAAGCAG
 CACCTTCTACTGGGAGAAATTTCAAACAATGCACGTTCTTCAGGTACAGGGGCGTCTGTGGGGCTCCCCA
 GCCAAGTGACCAAGACACTTGTGCAGAGAGCGGAACACATTCAGCGGGCAAGCGGACCCCATGTGT
 GCCACTGCAACCAAGTTATCAGGGGACCTTTTCTGTGGCTCTGGGGAAGTCTGGCATCCAGAAGAAT
 TTAAGTGTGCTCATTGCAAAAAACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGGACTGACTGTG
 TGAGCTATGCTATGAGAAGTTCTTTGCTCCTGAATGTGGCCGGTGCCAAAGGAAGATCCTTGGAGAAGTC
 ATCAATGCTTTGAAGCAGACCTGGCATGTGCTGCTTTTGTGTGTGGCCTGTGAAAACCCATTTCGTA
 ATAATGTTTTCCACTTGGAAAGTGGCGAGCCCTACTGTGAGACAGACTACTACGCCCTTTTTGGAACAAT
 ATGTCGTGGATGTGAATCCCATAGAGGCTGGTACATGTTCTGGAAGCTCTGGGATACACTTGGCAT
 GATACTTGCTTTGTGTGCTCTGTGTGTTGTGAAAGTTTGGAAAGGCGAGACATTTTCTCCAAGAAGGACA
 AGCCACTTTGCAAAAAACATGCTCATTCTGTAATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227659 representing NM_001190855
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI
 KACTGSLNMTLQRASAAKSEPVSVQKPTVTSVCSESAQELAEQRRGSQGDIIKQNGPPRKHIVERNTE
 FYHIPHSDASKRRLIEDTEDWRPRTGTTQSRSFRLAQITGTEHLTESENDNTKKAKLFGPENSQSLLD
 ALCISTVPKPLALSCLQSSEESSGSVHVKKSSSTQEPSQQPASSGASPLSASEGPESPGSSRPSVAGLRS
 AAFAKPVGSTSVKSPSWQRPNQAAPSTGRISNNARSSGTGASVGPQPSPDQDTLVQRAEHIPAGKRTPMC
 AHCNQVIRGPFVALGKSWHPPEEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEV
 INALKQTHVHSCFVACGKPIRNNVFHLEDGEPYCETDYALFGTICRGCEFPFIEAGDMFLEALGYTWH
 DTCFVCSVCCESLEGQTFFSKKDKPLCKKHAHSVNF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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:

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

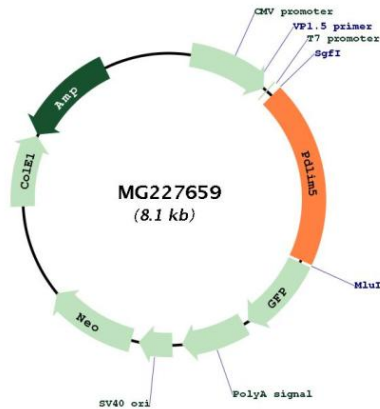
UniProt ID: [Q8CI51](#)

Cytogenetics: 3 H1

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 MG227659