

Product datasheet for **MG227645**

Pdlim5 (NM_019809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_019809) 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:	>MG227645 representing NM_019809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTCCGGCTCCAAGGTGGCAAGGATT
TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG
GGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGAATGACGCATCTTGAAGCCAGAACAAAGATT
AAGGCTTGTACGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGCTGCAGCCAAGAGTGAGCCGGTTT
CCGTCCAGAAGGGTGAACCTAAGGAAGTAGTTAAGCCTGTGCCATTACATCTCCTGCTGTATCCAAAGT
CACTTCCACTACCAACATGGCCTACAATAAAGCACCACGGCCCTTGGTTCTGTGTCTTACCAAAAAGTC
ACATCCATCCCATCACCATCGTCTGCGTTCACCCAGCCCATGCCGCACTTCATCACATGCTTCCCCCA
CACCTGTGGCCGCTGCCACTCCCCTCCACCTCTCTGCATCCGGACTGCATGTTAGTGCCAATCTTAGTGC
TGACCAGTGTTCATCTCCACCGAACACTGGTAAACCTGCAGTTAATGTCCACGGCAGCCACAGTCACC
AGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAGAGGATCCCAGGGTGACATTAAGC
AGCAAAATGGCCCAAGAAAACACATTGTGGAGCGAACACGGAGTTTATCATATCCCACTCACAG
TGATGCCAGCAAGAAACGGCTGATTGAGGACACTGAGGACTGGCGCCCCGGACTGGAACGACTCAGTCT
CGTTCTTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGACAGAATCTGAAAATGACAATACGA
AGAAGGCAAGGAAAAGATACCCCTTACGCTCTTAGTCCCAAATACACAAAATTACGTGACTGGCACCA
TGAAGTTTCAGCACGTGCTCTTAATGTACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227645 representing NM_019809
Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKASQAHVRIGDVVLSIDGISAQGMTHLEAQNKI
 KACTGSLNMTLQRASAAAKSEPVSVQKGEPEVVKPVPITSPAVSKVTSTTNMAYNKAPRPFGSVSSPKV
 TSIPSPSSAFTPAHAATSSHASPTPVAATPLHLASAGLHVSANLSADQCSSPNTGKPAVNVPRQPTVT
 SVCSESAQELAEQRRGSQGDIKQQNGPPRKHIVERNTEFYHIPTSDASKKRLIEDTEDWRPRTGTTQS
 RSFRILAQITGTEHLTESENDNTKKAKEKIPLHVFSPKYTKLRDWHHEVSARALNVQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019809

ORF Size: 1011 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_019809.3](#), [NP_062783.2](#)

RefSeq Size: 2415 bp

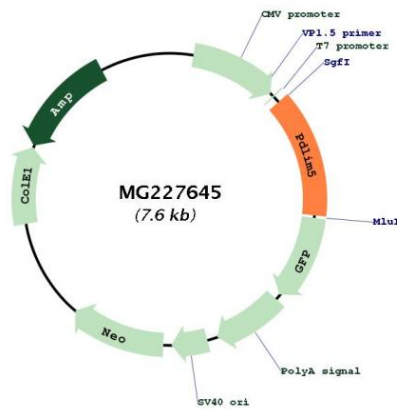
RefSeq ORF: 1014 bp

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 MG227645