

Product datasheet for **MR209208**

Pdlim5 (NM_019808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (NM_019808) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdlim5
Synonyms:	1110001A05Rik; AI987914; C87059; Enh; Enh1; Enh2; Enh3; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209208 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGGTGGCAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGCAAGGCATCTCAGGCACATGTCAGAATAGG
 CGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGGAATGACGCATCTTGAAGCCCAGAACAAAGATT
 AAGGCTTGTATGGGCTCCTTGAATATGACTCTACAAAGAGCTTCAGTGCAGCCAAGAGTGAGCCGGTTT
 CCGTCCAGAAGGGTGAACCTAAGGAAGTGTAAAGCCTGTGCCATTACATCTCTGCTGTATCCAAAGT
 CACTTCCACTACCAACATGGCCTACAATAAAGCACCACGGCCCTTTGGTTCTGTGTCTTACCAAAAAGTC
 ACATCCATCCCATCACCATCGTCTGCGTTCACCCAGCCCATGCCGCCACTTCATCACATGCTTCCCCCA
 CACCTGTGGCCGCTGCCACTCCCCTCCACCTCTCTGCATCCGGACTGCATGTTAGTGCCAACTTAGTGC
 TGACCAGTGTTCATCTCCACCGAACACTGGTAAACCTGCAGTTAATGTCCACGGCAGCCACAGTCACC
 AGCGTGTGTTCCGAGTCTGCTCAGGAGCTAGCAGAGGGACAGAGAAGAGGATCCCAGGGTACATTAAGC
 AGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAGTTTATCACATACCCACTCACAG
 TGATGCCAGCAAGAAACGGCTGATTGAGGACACTGAGGACTGGCGCCCCGGACTGGAACGACTCAGTCT
 CGTTCTTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGACAGAATCTGAAAATGACAATACGA
 AGAAGGCAAAATAGCACCAGGAGCCTTCTCAGCAACCGGCGTCATCTGGAGCTTACCTCTGAGCGCGTC
 TGAGGGCCCCGAGAGCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCTCCGCTCCGCTGCTGCTTCAAG
 CCTGTAGGATCCACCAGCGTCAAGTCACTAGCTGGCAGCGTCCAACCAAGCAGCACCTTCTACTGGGA
 GAATTTCAAACAATGCACGTTCTTTCAGGTACAGGGCGTCTGTGGGGCCCTCCCAGCCAAGTGACCAAGA
 CACACTTGTGCAGAGAGCGGAACACATTCCAGCGGGCAAGCGGACCCCCATGTGTGCCACTGCAACCAA
 GTTATCAGGGGACCTTTTCTGTGGCTCTGGGAAGTCTGGCATCCAGAAGAATTTAAGTGTGCTCATT
 GCAAAAACACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGAGCACTGTACTGTGAGCTATGCTATGA
 GAAGTTCTTTGCTCCTGAATGTGGCCGGTGCCAAAGGAAGATCCTTGGAGAAGTCATCAATGCTTTGAAG
 CAGACCTGGCATGTGCTGTTTTGTGTGTGGCCTGTGAAAACCCATTGTAATAATGTTTTCCACT
 TGGAAGATGGCGAGCCCTACTGTGAGACAGACTACTACGCCCTTTTGGAAACAATATGTCGTGGATGGA
 ATTCCCCATAGAGGCTGGTGACATGTTCTGGAAGCTCTGGGATACACTGGCATGATACTTGTCTTTGTG
 TGCTCTGTGTGTGTGAAAGTTTGAAGGGCAGACATTTTCTCCAAGAAGGACAAGCCACTTTGCAAAA
 AACATGCTCATTCTGTGAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209208 protein sequence
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLDGGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI
 KACMGSLNMTLQRASAAKSEPVSVQKGEPEVVKVPVITSPAVSKVTSTTNMAYNKAPRPFGSVSSPKV
 TSIPSPSSAFTPAHAATSSHASPTVAAAATPLHLASAGLHVSANLSADQCSSPPNTGKPAVNVPRQPTVT
 SVCSESAQELAEQRRGSQGDIKQNGPPRKHIVERNTEFYHIPHSDASKKRLIEDTEDWRPRTGTTQS
 RSFRILAQITGTEHLTESENDNTKKNSTQEPSQQPASSGASPLSASEGPESPGSSRPSVAGLRSAAAFK
 PVGSTSVKSPSWQRPNQAAPSTGRISNNARSSGTGASVGPQPSPDQDTLVQRAEHIPAGKRTPMCACHCNQ
 VIRGPFVLVALGKSWHPEEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEVINALK
 QTWVHVSFCVACGKPIRNNVFHLEDGEPYCETDYYALFGTICRGCEFPTEAGDMFLEALGYTWHDTCFV
 CSVCCESLEGQTFFSKKDKPLCKKHAHSVNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019808

ORF Size: 1776 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_019808.1](#), [NM_019808.2](#), [NM_019808.3](#), [NP_062782.2](#)

RefSeq Size: 5039 bp

RefSeq ORF: 1776 bp

Locus ID: 56376

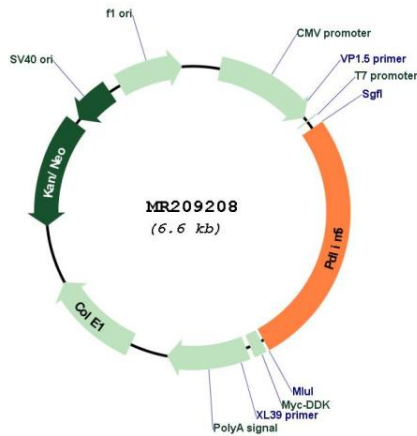
UniProt ID: [Q8CI51](#)

Cytogenetics: 3 H1

MW: 63.3 kDa

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 MR209208