

Product datasheet for **MG209208**

Pdlim5 (BC037476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim5 (BC037476) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdlim5
Synonyms:	Enh1, LIM, Enh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209208 representing BC037476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAACTACAGTGTGTCATTGGTCGGCCAGCTCCTTGGGGTTTCCGGCTCCAAGTGGAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTGAAGGATGGTGGAAGGCATCTCAGGCACATGTCAGAATAGG
 CGACGTGGTTCTCAGCATCGATGGGATCAGTGCACAGGAATGACGCATCTTGAAGCCCAGAAACAAGATT
 AAGGCTTGATGGGCTCCTTGAATATGACTCTACAAAGAGCTTACAGTGCAGCCAAGAGTGAGCCGGTTT
 CCGTCCAGAAGGGTGAACCTAAGGAAGTGTAAAGCCTGTGCCATTACATCTCCTGCTGTATCCAAAGT
 CACTTCCACTACCAACATGGCCTACAATAAAGCACCACGGCCCTTTGGTTCTGTGTCTTACCAAAAAGTC
 ACATCCATCCCATCACCATCGTCTGCGTTCACCCAGCCCATGCCGCCACTTCATCATAGCTTCCCCCA
 CACCTGTGGCCGCTGCCACTCCCCTCCACCTCTCTGCATCCGGACTGCATGTTAGTGCCAACTTAGTGC
 TGACCAGTGTTCATCTCCACCGAACACTGGTAAACCTGCAGTTAATGTCCACGGCAGCCACAGTCACC
 AGCGTGTGTTCCGAGTCTGCTCAGGAGTAGCAGAGGGACAGAGAAGAGGATCCCAGGGTACATTAAGC
 AGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCAACACGGAGTTTATACATACCCACTCACAG
 TGATGCCAGCAAGAAACGGCTGATTGAGGACACTGAGGACTGGCGCCCCGGACTGGAACGACTCAGTCT
 CGTTCTTTCCGGATCCTTGCCAGATCACTGGGACTGAGCATCTGACAGAATCTGAAAATGACAATACGA
 AGAAGGCAAAATAGCACCAGGAGCCTTCTCAGCAACCGGCGTCACTGGAGCTTACCTCTGAGCGCGTC
 TGAGGGCCCCGAGAGCCAGGTTCCAGCAGGCCCTCGGTGGCTGGCTCCGCTCCGCTGCTGCTTCAAG
 CCTGTAGGATCCACCAGCGTCAAGTACCTAGCTGGCAGCGTCCAACCAAGCAGCACCTTCTACTGGGA
 GAATTTCAAACAATGCACGTTCTTACAGGTACAGGGGCGTCTGTGGGCGCTCCCCAGCCAAGTGACCAAGA
 CACACTTGTGCAGAGAGCGGAACACATTCCAGCGGCAAGCGGACCCCATGTGTGCCCACTGCAACCAA
 GTTATCAGGGACCTTTTCTGTGGCTCTGGGAAGTCTGGCATCCAGAAGAATTTAACTGTGCTCATT
 GCAAAAACACAATGGCCTACATAGGCTTTGTAGAGGAGAAGGGAGCACTGTACTGTGAGCTATGCTATGA
 GAAGTTCTTTGCTCCTGAATGTGGCCGGTGCCAAAGGAAGATCCTTGGAGAAGTCATCAATGCTTTGAAG
 CAGACCTGGCATGTGCTCTGTTTGTGTGTGGCCTGTGAAAACCCATTTCGTAATAATGTTTTCCACT
 TGGAAAGATGGCGAGCCCTACTGTGAGACAGACTACTACGCCCTTTTGGAAACAATATGTCGTGGATGTA
 ATTCCCCATAGAGGCTGGTGACATGTTCTGGAAGCTCTGGGATACACTGGCATGATACTTGTCTTGTG
 TGCTCTGTGTGTTGTAAAGTTTGAAGGGCAGACATTTTCTCCAAGAAGGACAAGCCACTTTGCAAAA
 AACATGCTCATTCTGTGAATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209208 representing BC037476
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLDGGKASQAHVRIQDVVLSIDGISAQGMTHLEAQNKI
 KACMGSLNMLTQRASAAKSEPVSVQKGEPEVVKPVPITSPAVSKVTSTTNMAYNKAPRPFVSVSSPKV
 TSIPSPSSAFTPAHAATSSHASPTVAAAATPLHLASAGLHVSANLSADQCSSPNTGKPAVNVPRQPTVT
 SVCSESAQELAEQRRGSQGDIKQNGPPRKHIVERNTEFYHIPTSDASKKRLIEDTEDWRPRTGTTQS
 RSFRILAQITGTEHLTESENDNTKKANSTQEPSQQPASSGASPLSASEGPESPGSSRPSVAGLRSAAAF
 PVGSTSVMSPSWQRPNQAAAPSTGRISNNARSSGTGASVGPQPSDQDTLVQRAEHIPAGKRTPMCAHCNQ
 VIRGPFLLVALGKSWHPEEFNCAHCKNTMAYIGFVEEKALYCELCYEKFFAPECGRCQRKILGEVINALK
 QTWVHVSFVVCACGKPIRNNVFHLEDGEPYCETDYYALFGTICRGCEFPTEAGDMFLEALGYTWHDTCFV
 CSVCCESLEGQTFFFSKDKPLCKKHAHSVNF

TRTRPLE – GFP Tag – V

Restriction Sites:

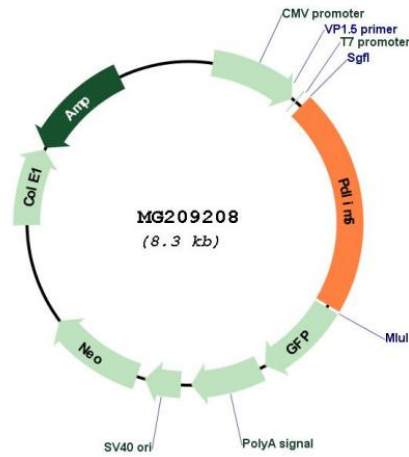
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC037476

ORF Size: 1775 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:	<ol style="list-style-type: none">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:	BC037476 , AAH37476
RefSeq Size:	2382 bp
RefSeq ORF:	1775 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]