

Product datasheet for **RG200592**

PDLIM5 (NM_006457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_006457) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDLIM5
Synonyms:	ENH; ENH1; L9; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200592 representing NM_006457
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAACTACAGTGTGCTACTGGTTGGCCAGCTCCTTGGGGTTTCCGGCTGCAGGGCGGTAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTAAAAGATGGCGCAAGGCAGCCAGGCAAATGTAAGAATAGG
 CGATGTGGTTCTCAGCATTGATGGAATAAATGCACAAGGAATGACTCATCTTGAAGCCCAGAATAAGATT
 AAGGGTTGTACAGGCTCTTTGAATATGACTCTGCAAAGAGCATCTGCTGCACCCAAGCCTGAGCCGGTTC
 CTGTTCAAAGGGGAGAACCCTAAAGAAGTAAACCTGTGCCATTACATCTCTGCTGTGTCCAAAGT
 CACTTCCACAACAACATGGCCTACAATAAGGCACCACGGCCTTTTGGTTCTGTGTCTTACCAAAAAGTC
 ACATCCATCCCATCACCATCGTCTGCCTTACCCCAGCCCATGCGACCACCTCATCATGCTTCCCCTT
 CACCCGTGGCTGCCGTACTCCTCCCCTGTTTCGCTGCATCTGGACTGCATGCTAATGCCAATCTTAGTGC
 TGACCAGTCTCCATCTGCACTGAGCGCTGGTAAAAGTGCAGTTAATGTCCACGGCAGCCACAGTCACC
 AGCGTGTGTTCCGAGACTTCTCAGGAGCTAGCAGAGGGACAGAGAAGAGGATCCCAGGGTACAGTAAAC
 AGCAAAATGGCCACCAAGAAAACACATTGTGGAGCGCTATACAGAGTTTATCATGTACCCACTCACAG
 TGATGCCAGCAAGAAGAGACTGATTGAGGATACTGAAGACTGGCGTCCAAGGACTGGAACAACTCAGTCT
 CGCTCTTCCGAATCCTTGGCCAGATCACTGGGACTGAACATTTGAAAGAATCTGAAGCCGATAATACAA
 AGAAGGCAAAATACTCTCAGGAGCCTTCTCCGAGTTGGCTTCTCGGTAGCTTCCACACGGAGCATGCC
 CGAGAGCCTGGACAGCCCAACCTCTGGCAGACCAGGGTTACCAGCCTCACAAGTGCAGCTGCCTTCAAG
 CCTGTAGGATCCACTGGCGTCACTAAGTCAACAAGCTGGCAACGGCCAAACCAAGGAGTACCTTCCACTG
 GAAGAATCTCAAACAGCGCTGCTTACTCAGGATCAGTGGCACCAGCCAACCTCAGCTTTGGGACAAACCA
 GCCAAGTGACCAGGACACTTTAGTGCAAAGAGCTGAGCACATTCAGCAGGGAAAACGAACTCCGATGTGC
 GCCATTGTAACCAAGTCACTCAGAGGACATTCTTAGTGGCACTGGGAAAATCTTGGCACCCAGAAGAAT
 TCAACTGCGCTCACTGCAAAAATACAATGGCCTACATTGGATTTGTAGAGGAGAAAGGAGCCCTGTATTG
 TGAGCTGTGCTATGAGAAATTCTTGGCCCTGAATGTGGTTCGATGCCAAAGGAAGATCCTTGGAGAAGTC
 ATCAATGCGTTGAAACAAACTTGGCATGTTTCTGTTTTGTGTGTAGCCTGTGGAAAGCCATTCCGA
 ACAATGTTTTTCACTTGGAGGATGGTGAACCCTACTGTGAGACTGATTATTATGCCCTCTTGGTACTAT
 ATGCCATGGATGTGAATTTCCATAGAAGCTGGTACATGTTCCCTGGAAGCTCTGGGCTACACCTGGCAT
 GACTTGTCTTGTATGCTCAGTGTGTTGTGAAAGTTTGAAGGTCAGACCTTTTCTCCAAGAAGGACA
 AGCCCTGTGTAAGAAACATGCTCATTCTGTGAATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200592 representing NM_006457
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLDGKAAQANVRIGDVVLSIDGINAQGMTHLEAQNKI
 KGCTGSLNMTLQRASAAPKPEPVQKGEPEVVKPVPITSPAVSKVTSTNNMAYNKAPRPFVSVSSPKV
 TSIPSPSSAFTPAHATTSSHASPSVAAVTPPLFAASGLHANANLSADQSPSALSAGKTAVNVPRQPTVT
 SVCSETSQELAEQRRGSQGDQKQNGPPRKHIVERYTEFYHVPHTSDASKKRLIEDTEDWRPRTGTTQS
 RSFRILAQITGTEHLKESEADNTKKANNSQEPSPQLASSVASTRSMPELSDSPTSGRPGVTSLTAAAFK
 PVGSTGVIKSPSWQRPNQVGPSTGRISNSAAYSQSVAPANSALGQTQPSDQDTLVQRAEHIPAGKRTPMC
 AHCNQVIRGPFLLVALGKSWHPPEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEV
 INALKQTHVWSCFVACGKPIRNNVFHLEDGEPYCETDYALFGTICHGCEFPPIEAGDMFLEALGYTWH
 DTCFVCSVCCESLEGQTFKSKDKPLCKKHAHSVNF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_006457

ORF Size: 1788 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_006457.2](#), [NP_006448.2](#)

RefSeq Size: 6101 bp

RefSeq ORF: 1791 bp

Locus ID: 10611

UniProt ID: [Q96HC4](#)

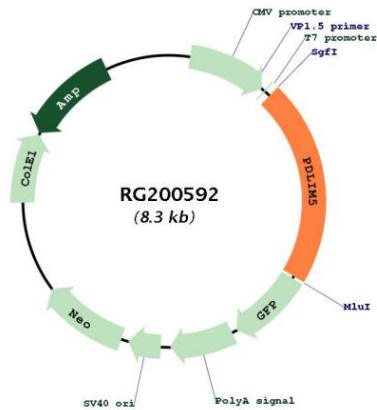
Cytogenetics: 4q22.3

Domains: PDZ, LIM

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of a family of proteins that possess a 100-amino acid PDZ domain at the N terminus and one to three LIM domains at the C-terminus. This family member functions as a scaffold protein that tethers protein kinases to the Z-disk in striated muscles. It is thought to function in cardiomyocyte expansion and in restraining postsynaptic growth of excitatory synapses. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG200592