

Product datasheet for **RC200592**

PDLIM5 (NM_006457) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_006457) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDLIM5
Synonyms:	ENH; ENH1; L9; LIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200592 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGCTACTGGTTGGCCAGCTCCTTGGGGTTCCGGCTGCAGGGCGGTAAGGATT
 TCAACATGCCTCTGACAATCTCTAGTCTAAAAGATGGCGCAAGGCAGCCAGGCAAATGTAAGAATAGG
 CGATGTGGTTCTCAGCATTGATGGAATAAATGCACAAGGAATGACTCATCTTGAAGCCCAGAATAAGATT
 AAGGGTTGTACAGGCTCTTTGAATAGTACTCTGCAAAGAGCATCTGCTGCACCCAAGCCTGAGCCGGTTC
 CTGTTCAAAGGGGAGAACCTAAAGAAGTAAACCTGTGCCATTACATCTCTGCTGTGTCCAAAGT
 CACTTCCACAACAACATGGCCTACAATAAGGCACCACGGCCTTTTGGTTCTGTGTCTTACCAAAAAGTC
 ACATCCATCCCATCACCATCGTCTGCCTTACCCCAGCCATGCGACCACCTCATCATGCTTCCCCTT
 CACCCGTGGCTGCCGTCCTCCTCCCTGTTTCGCTGCATCTGGACTGCATGCTAATGCCAATCTTAGTGC
 TGACCAGTCTCCATCTGACTGAGCGCTGGTAAACTGCAGTTAATGTCCACGGCAGCCACAGTCACC
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 AGCAAAATGGCCACCAAGAAAACACTTGTGGAGCGCTATACAGAGTTTATCATGTACCCACTCACAG
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 ATGCCATGGATGTGAATTTCCATAGAAGCTGGTGACATGTTCTGGAAGCTCTGGGCTACACCTGGCAT
 GACTTGTCTTGTATGCTCAGTGTGTTGTGAAAGTTTGAAGGTCAGACCTTTTCTCCAAGAAGGACA
 AGCCCTGTGTAAGAAACATGCTCATTCTGTAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200592 protein sequence
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLDGGKAAQANVRIGDVVLSIDGINAQGMTHLEAQNKI
 KGCTGSLNMTLQRASAAPKPEPVVQKGEPEVVKVPVITSPAVSKVTSTNNMAYNKAPRPFGSVSSPKV
 TSIPSPSSAFTPAHATTSSHASPSVAAVTPPLFAASGLHANANLSADQSPSALSAGKTAVNVPRQPTVT
 SVCSETSQELAEQRRGSQGDQSKQNGPPRKHIVERYTEFYHVPTHSDASKKRLIEDTEDWRPRTGTTQS
 RSFRILAQITGTEHLKESEADNTKKANNSQEPSPQLASSVASTRSMPELSDSPTSGRPGVTSLTAAAFK
 PVGSTGVIKSPSWQRPNQVGPSTGRISNSAAYSGSVAPANSALGQTQPSDQDTLVQRAEHIPAGKRTPMC
 AHCNQVIRGPFLLVALGKSWHPEEFNCAHCKNTMAYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEV
 INALKQVHVSFCFVACGKPIRNNVFHLEDGEPYCEDTYALFGTICHGCEFP IEAGDMFLEALGYTWH
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

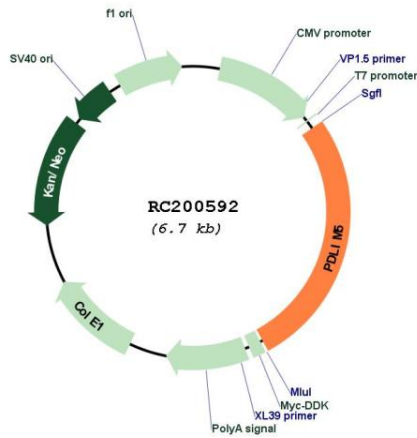
Chromatograms:

https://cdn.origene.com/chromatograms/mk6408_e12.zip

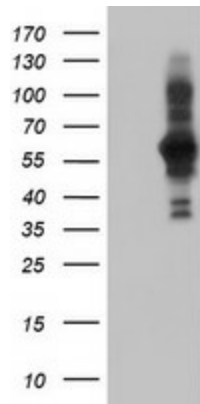
Locus ID: 10611
UniProt ID: [Q96HC4](#)
Cytogenetics: 4q22.3
Domains: PDZ, LIM
Protein Families: Druggable Genome
MW: 64 kDa

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]

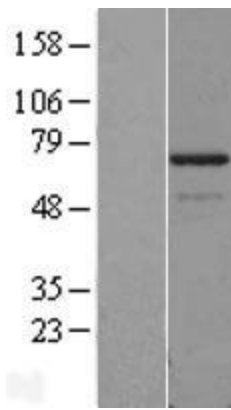
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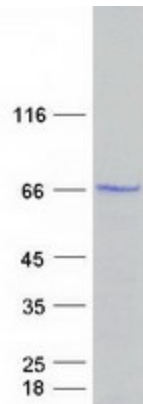
Circular map for RC200592



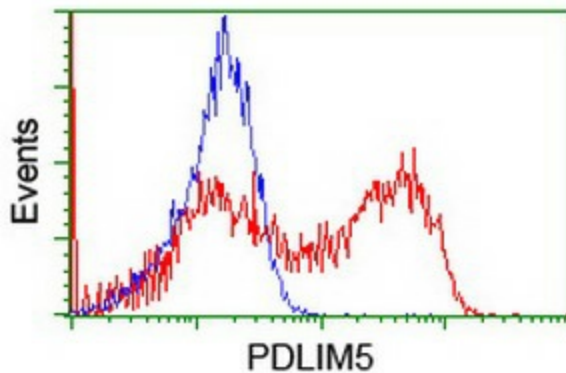
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PDLIM5 (Cat# RC200592, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDLIM5 (Cat# [TA504449]). Positive lysates [LY416641] (100ug) and [LC416641] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416641]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDLIM5 protein (Cat# [TP300592]). The protein was produced from HEK293T cells transfected with PDLIM5 cDNA clone (Cat# RC200592) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells transfected with either RC200592 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDLIM5 antibody ([TA504449]), and then analyzed by flow cytometry.