

## Product datasheet for **RG234232**

### **PDLIM5 (NM\_001256427) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_001256427) 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:**

>RG234232 representing NM\_001256427  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAACTACAGTGTGCTACTGGTTGGCCAGCTCCTTGGGGTTCCGGCTGCAGGGCGGTAAGGATT  
 TCAACATGCCTCTGACAATCTCTAGTCTAAAAGATGGCGCAAGGCAGCCAGGCAAATGTAAGAATAGG  
 CGATGTGGTTCTCAGCATTGATGGAATAAATGCACAAGGAATGACTCATCTTGAAGCCAGAATAAGATT  
 AAGGGTTGTACAGGCTCTTTGAATAGTCTGCAAAGAGCATCTGCTGCACCCAAGCCTGAGCCGGTTC  
 CTGTTCAAAGGCCACAGTACCAGCGTGTGTTCCGAGACTTCTCAGGAGCTAGCAGAGGGACAGAGAAG  
 AGGATCCCAGGGTGACAGTAAACAGCAAATGGGAAAATCCACCTAAACGCCACCAAGAAAACACATT  
 GTGGAGCGCTATACAGAGTTTTATCATGTACCCACTCACAGTGATGCCAGCAAGAAGAGACTGATTGAGG  
 ATACTGAAGACTGGCGTCCAAGGACTGGAACAACCTCAGTCTCGCTCTTTCCGAATCCTTGCCAGATCAC  
 TGGGACTGAACATTTGAAAGAATCTGAAGCCGATAATACAAAGAAGGCAAATAACTCTCAGGAGCCTTCT  
 CCGCAGTTGGCTTCTCGGTAGCTTCCACACGGAGCATGCCCGAGAGCCTGGACAGCCCAACCTCTGGCA  
 GACCAGGGGTTACCAGCCTCACAACCTGCAGCTGCCTTCAAGCCTGTAGGATCCACTGGCGTCATCAAGTC  
 ACCAAGCTGGCAACGGCCAAACCAAGGAGTACCTTCCACTGGAAGAATCTCAAACAGCGCTACTTACTCA  
 GGATCAGTGGCACCAGCCAACCTCAGCTTTGGGACAAACCCAGCCAAGTGACCAGGACACTTTAGTGCAAA  
 GAGCTGAGCACATTCCAGCAGGGAAACGAACTCCGATGTGCGCCATTGTAACCAGGTATCAGAGGACC  
 ATCTTAGTGGCACTGGGAAAATCTTGGCACCCAGAAGAATCAACTGCGCTCACTGCAAAAATACAATG  
 GCCTACATTGGATTTGTAGAGGAGAAAGGAGCCCTGTATTGTGAGCTGTGCTATGAGAAAATCTTTGCC  
 CTGAATGTGGTCGATGCCAAAGGAAGATCCTTGGAGAAGTCATCAGTGCCTTGAACAAACTGGCATGT  
 TTCTGTTTTGTGTGTAGCCTGTGAAAGCCATTCCGAACAATGTTTTTCACTTGGAGGATGGTGAA  
 CCTACTGTGAGACTGATTATTATGCCCTCTTTGGTACTATATGCCATGGATGTGAATTTCCCATAGAAG  
 CTGGTGACATGTTCTGGAAAGCTCTGGGCTACACCTGGCATGACACTTGTGTTGTATGCTCAGTGTGTTG  
 TGAAGTTTGAAGGTCAGACCTTTTTCTCCAAGAAGGACAAGCCCTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG234232 representing NM\_001256427  
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKAAQANVRIGDVVLSIDGINAQGMTHLEAQNKI  
 KGCTGSLNMTLQRASAAPKPEPVPVQKPTVTSVCSETSQELAEGQRRGSQGDSKQNGKIPPKRPPRKHI  
 VERYTEFYHVPHSDASKKRLIEDTEDWRPRTGTTQSRFRILAQITGTEHLKESEADNTKKANNSQEPS  
 PQLASSVASTRSMPELDSPTSGRPGVTSLTAAAFKPVGSTGVIKSPSWQRPNQVGPSTGRISNSATYS  
 GSVAPANSALGQTQPSDQDTLVQRAEHIPAGKRTPMCAHCNQVIRGPFLVALGKSWHPPEEFNCAHCKNTM  
 AYIGFVEEKGALYCELCYEKFFAPECGRCQRKILGEVISALKQTWVHVSFCVACGKPIRNNVFHLEDGE  
 PYCETDYALFGTICHGCEFPFIEAGDMFLEALGYTWHDTCFVCSVCCESLEGQTFKSKDKPL

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001256427

ORF Size: 1449 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\\_001256427.1](#), [NP\\_001243356.1](#)

RefSeq Size: 3834 bp

RefSeq ORF: 1452 bp

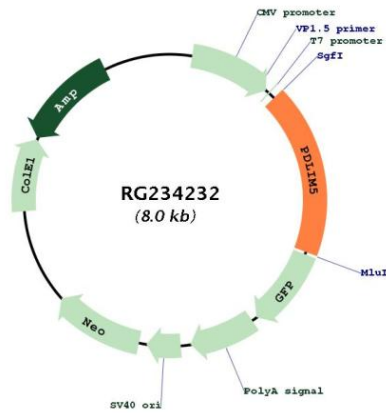
Locus ID: 10611

Cytogenetics: 4q22.3

**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 RG234232