

## Product datasheet for **RG232809**

### **PDLIM5 (NM\_001256428) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_001256428) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG232809 representing NM\_001256428  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTACAATAAGGCACCACGGCCTTTTGGTCTGTGTCTTCACAAAAGTCACATCCATCCCATCAC  
 CATCGTCTGCCTTACCCAGCCATGCGACCCTCATCACATGCTTCCCTTACCCGTGGCTGCCGT  
 CACTCCTCCCCTGTTTCGCTGCATCTGGACTGCATGCTAATGCCAATCTTAGTGCTGACCAGTCTCCATCT  
 GCACTGAGCGCTGGTAAACTGCAGTTAATGTCCACGGCAGCCACAGTCACCAGCGTGTGTTCCGAGA  
 CTTCTCAGGAGCTAGCAGAGGGACAGAGAAGAGGATCCCAGGGTGACAGTAAACAGCAAAATGGCCACC  
 AAGAAAACACATTGTGGAGCGCTATACAGATTTTATCATGTACCACTCACAGTGATGCCAGCAAGAAG  
 AGACTGATTGAGGATACTGAAGACTGGCGTCCAAGGACTGGAACAACCTAGTCTCGCTTTTCCGAATCC  
 TTGCCAGATCACTGGGACTGAACATTTGAAAGAATCTGAAGCCGATAATACAAAGAAGGCAAAATAACTC  
 TCAGGAGCCTTCCGCGAGTTGGCTTCCGCTAGCTTCCACACGGAGCATGCCCGAGAGCTGGACAGC  
 CCAACCTCTGGCAGACCAGGGGTTACCAGCCTCACAACTGCAGCTGCCTTCAAGCCTGTAGGATCCACTG  
 GGTTCATCAAGTCACCAAGCTGGCAACGGCCAAACCAAGGAGTACCTTCCACTGGAGAATCTCAAACAG  
 CGCTACTTACTCAGGATCAGTGGCACCAGCCAACCTCAGCTTTGGGACAAACCCAGCCAAGTGACCAGGAC  
 ACTTTAGTGCAAAGAGCTGAGCATTCCAGCAGGGAACGAACCTCCGATGTGCGCCATTGTAACCAGG  
 TCATCAGAGGACCATTCTTAGTGGCACTGGGAAATCTTGGCACCCAGAAGAATCAACTGCGCTCACTG  
 CAAAAATACAATGGCCTACATTGGATTTGTAGAGGAGAAAGGAGCCCTGTATTGTGAGCTGTGCTATGAG  
 AAATCTTTGCCCTGAATGTGGTCGATGCCAAAGGAAGATCCTTGGAGAAGTCACTAGTGCCTTGAAC  
 AACTTGGCATGTTTCTGTTTGTGTGTAGCCTGTGGAAGCCCATTCGGAACAATGTTTTTCACTT  
 GGAGGATGGTGAACCCTACTGTGAGACTGATTATTATGCCCTCTTTGGTACTATATGCCATGGATGTGAA  
 TTTCCATAGAAGCTGGTACATGTTCTGGAAGCTCTGGCTACACCTGGCATGACACTTGCTTTGTAT  
 GCTCAGTGTGTTGAAAGTTTGAAGGTGAGACCTTTTTCTCCAAGAAGGACAAGCCCTGTGTAAGAA  
 ACATGCTCATTCTGTGAATTTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232809 representing NM\_001256428  
 Red=Cloning site Green=Tags(s)

MAYNKAPRPFVSVSPKVTIPSPSSAFTPAHATTSSHASPSVAAVTPPLFAASGLHANANLSADQSPS  
 ALSAGKTAVNVPRQPTVTSVCSETSQELAEQRRGSQGDSKQQNGPPRKHIVERYTEFYHVPHTSDASKK  
 RLIEDTEDWRPRTGTTQSRFRILAQITGTEHLKESEADNTKKANNSQEPSPQLASSVASTRSMPELSDS  
 PTSGRPGVTSLTTAAAFKPVGSGTGVKSPSWQRPNQVPTGRISNSATYSGSVAPANSALGQTQPSDQD  
 TLVQRAEHIPAGKRTPMCAHCNQVIRGPFLLVALGKSWHPEEFNCAHCKNTMAYIGFVEEKALYCELCYE  
 KFFAPECGRCQRKILGEVISALKQTHVSCFVVCACGKPIRNNVFHLEDGEPYCETDYYALFGTICHGCE  
 FPIEAGDMFLEALGYTWHDTFCVCSVCCESLEGQTFFSKDKPLCKKHAHSVNF

**TRTRPLE** - GFP Tag - V

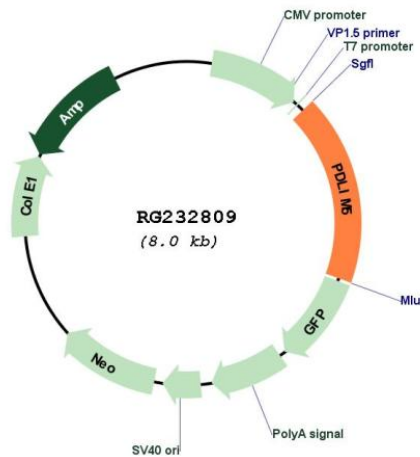
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001256428

ORF Size: 1422 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\\_001256428.1](#), [NP\\_001243357.1](#)

**RefSeq Size:** 5980 bp

**RefSeq ORF:** 1425 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]