

Product datasheet for **RG223366**

PDLIM5 (NM_001011516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDLIM5 (NM_001011516) 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)
ORF Nucleotide Sequence:	>RG223366 representing NM_001011516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAACTACAGTGTGTCCTGGTTGGCCAGCTCCTTGGGGTTCCGGCTGCAGGGCGGTAAGGATT
TCAACATGCCTCTGACAATCTCTAGTCTAAAAGATGGCGGCAAGGCAGCCAGGCAAATGTAAGAATAGG
CGATGTGGTTCTCAGCATTGATGGAATAAATGCACAAGGAATGACTCATCTTGAAGCCAGAATAAGATT
AAGGGTTGTACAGGCTCTTTGAATATGACTCTGCAAAGAGCATCTGCTGCACCCAAGCCTGAGCCGGTTC
CTGTTCAAAGAAAACACAAGTGACAAATAACCCTGGCACTGTGAAAATCCACCTAAACGCCACCAAG
AAAACACATTGTGGAGCGCTATACAGAGTTTTATCATGTACCCACTCACAGTGATGCCAGCAAGAAGAGA
CTGATTGAGGATACTGAAGACTGGCGTCCAAGGACTGGAACAACCTCAGTCTCGCTCTTCCGAATCCTTG
CCCAGATCACTGGGACTGAACATTTGAAAGAATCTGAAGCCGATAATACAAAGAAGGCAAAGGAAAAGAT
ACCCCTTCACGTCTTTAGTCCCAAATACAAAAATTACGTGACTGGCACCATGAAGTTTCAGCACGTGCT
CTTAACGTACAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223366 representing NM_001011516
 Red=Cloning site Green=Tags(s)

MSNYSVSLVGPAPWGFRLQGGKDFNMPLTISSLKDGKAAQANVRIGDVVLSIDGINAQQGMTHLEAQNKI
 KGCTGSLNMTLQRASAAPKPEPVVQKKTQVTNNPGTVKIPPKRPPRKHIVERYTEFYHVPTHSDASKKR
 LIEDTEDWRPRTGTTQSRSFRI LAQITGTEHLKESEADNTKKAKEKIPLHVFSPKYTKLRDWHHEVSARA
 LNVQ

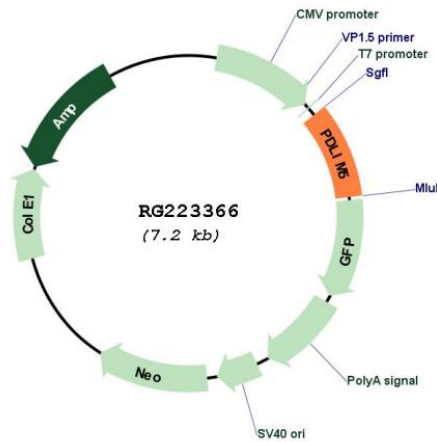
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011516

ORF Size: 642 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:	NM_001011516.2 , NP_001011516.1
RefSeq Size:	1971 bp
RefSeq ORF:	645 bp
Locus ID:	10611
UniProt ID:	Q96HC4
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]