

Product datasheet for **MR225775**

Pln (NM_023129) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pln (NM_023129) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pln
Synonyms: Plb
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225775 representing NM_023129
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAAAGTGCAATACCTCACTCGCTCGGCTATCAGGAGAGCCTCCACTATTGAAATGCCTCAGCAAG
CACGTGAGAACTCCAGAACCTATTTATCAATTTCTGCCTCATCTTGATATGTCTGCTGCTGATCTGCAT
CATTGTGATGCTTCTG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/mm9050_d03.zip

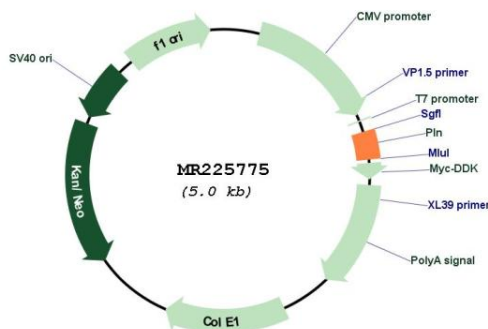
Restriction Sites: Sgfl-Mlul



[View online »](#)

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:	<u>NM_023129.5, NP_075618.1</u>
RefSeq Size:	2353 bp
RefSeq ORF:	159 bp
Locus ID:	18821
UniProt ID:	<u>P61014</u>
Cytogenetics:	10 B3
MW:	6.5 kDa
Gene Summary:	Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca(2+). Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225775