

Product datasheet for **SC214206**

Phospholamban (PLN) (NM_002667) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Phospholamban (PLN) (NM_002667) Human 3' UTR Clone
Symbol:	Phospholamban
Synonyms:	CMD1P; CMH18; PLB
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002667
Insert Size:	1365 bp



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Insert Sequence: >SC214206 3' UTR clone of NM_002667
 The sequence shown below is from the reference sequence of NM_002667. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site
Blue=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

GTATCATCGTGATGCTTCT**CGA**AGTTCTGCTACAACCTCTAGATCTGCAGCTTGCCACATCAGCTTAAA
 ATCTGTGATCCCATGCAGACAGGAAAACAATATTGTATAACAGACCACTTCTGAGTAGAAGAGTTTCTT
 TGTGAAAAGGTCAAGATTAAGACTAAAACCTTATTGTTACCATATGTATTCATCTGTTGGATCTTGTAAC
 ATGAAAAGGGCTTTATTTTCAAAAATTAACCTCAAAAATAAGTGTATAAAATGCAACTGTTGATTTCTCA
 ACATGGCTCACAATTTCTATCCAAATCTTTTCTGAAGATGAAGAGTTAGTTTTAAACTGCAGCTGCC
 AACCAAGTTCATTCATATATAAAGCATTATTTTACTCTTTTGGAGTGAATATAATTTATATTACAATGT
 AAAAGCTTCTTTAATACTAAGTATTTTTAGGTCTTCACCAAGTATCAAAGTAATAACACAAATGAAGTG
 TCATTATTCAAAATAGTCCACTGACTCCTCACATCTGTTATCTTATTATAAAGAAGTATTGTAGTAACT
 ATCAGAATCTACATTCTAAAACAGAAATTTGATTTTTTCTATGCCACATTAACATCTTTTAAAGTTGATG
 AGAATCAAGTATGAAAAGTAAGGCCACTCTTACATAATAAAATTCCTTTTAAAGTAAATTTTTCAAAG
 AATCACAGAATTCTAGTACATGTAGGTAATCATAAATCTGTTCTAAGACATATGATCAACAGATGAGAA
 CTGGTGGTTAATATGTGACAGTGAGATTAGTCAATATACTAACAACAGAATCTAATCTTCAT
 TTAAGGCACTGTAGTGAATTATCTGAGCTAGAGTTACCTAGCTTACCATACTATATCTTTGGAATCATGA
 AACCTTAAGACTTCAGAATGATTTTGCAGGTTGCTTCCATTCCAGCCTAACATCCAATGCAGGCAAGGA
 AAATAAAAGATTTCCAGTGACAGAAAAATATTATCTCAAGTATTTTTAAAAATATATGAATTTCTCTC
 TCCAAATATTAACATAATTATTAGATTATTTTTGAAATGAAGTGTGGCCCATCTATTACATCTACAGC
 TGACCCTTGAACATGGGGTTAGGGGAGCTGACAATTCGTGGGTCGCAAAAATCTTAACTACCTAATAGC
 CTACTATTGACCATAAACCTTACTGATAACATAAACAGTAAATTAACACATATTTTGCCTGTTATATGTA
 TTATACACTATATTCCTACAATAAAGTAAGCTAGAGAAAATGTTATTTAGAAAATCATAAAGAAAGAGAAA
 ATATATTTACTATTCATTAATGGAAGTGGTCAA

ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_002667.3](#)

Summary:

The protein encoded by this gene is found as a pentamer and is a major substrate for the cAMP-dependent protein kinase in cardiac muscle. The encoded protein is an inhibitor of cardiac muscle sarcoplasmic reticulum Ca(2+)-ATPase in the unphosphorylated state, but inhibition is relieved upon phosphorylation of the protein. The subsequent activation of the Ca(2+) pump leads to enhanced muscle relaxation rates, thereby contributing to the inotropic response elicited in heart by beta-agonists. The encoded protein is a key regulator of cardiac diastolic function. Mutations in this gene are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure, and also familial hypertrophic cardiomyopathy. [provided by RefSeq, Apr 2016]

Locus ID:

5350