

Product datasheet for **SC305564**

PLCZ1 (NM_033123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCZ1 (NM_033123) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLCZ1
Synonyms:	NYD-SP27; PLC-zeta-1; PLCzeta; SPGF17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC305564 representing NM_033123.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAAATGAGATGGTTTTGTCAAAGATTCAGGATGACTTCAGAGGTGGAAAAATTAACCTAGAAAA
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AGAGAAGAAATTATTGAGATTTTCAACACATATTCTGAAAACCGAAAAATCTTTTAGCAAGTAATCTG
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CAAAATGAACCTGTTGTATATCATGGCTACACACTCACAAGCAAATCTGTTTAAAAGTGTATCCAA
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ACTGCCCAACAAGAAGTAATGGCAGACAATTTGCAGGCTACTTTTGGAGAGTCCCTTGCTTTCTGATATG
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CGTTTTGTTGTTGAAGGTCAAGGTTAATAGCAGGAAATGAATTTCTGGGCAATATACTTTGCCACTT
CTATGCATGAACAAAGGTTATCGTCGATTCCTCTGTTTTCCAGAATGGGTGAGAGCCTTGAGCCTGCT
TCACTGTTTGTATGTTTGGTACGTCAGATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_033123

Insert Size: 1827 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_033123.3
RefSeq Size:	2156 bp
RefSeq ORF:	1827 bp
Locus ID:	89869
UniProt ID:	Q86YW0
Cytogenetics:	12p12.3
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Oocyte meiosis, Phosphatidylinositol signaling system
MW:	70.4 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the phosphoinositide-specific phospholipase C family. Members in this family, classified into six isotypes that are tissue- and organ-specific, hydrolyze phosphatidylinositol 4,5-bisphosphate just before the phosphate group to yield diacylglycerol and inositol 1,4,5-trisphosphate. This protein localizes to the acrosome in spermatozoa and elicits Ca(2+) oscillations and egg activation during fertilization that leads to early embryonic development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>