

Product datasheet for **SC107552**

Phospholipase C beta 4 (PLCB4) (NM_182797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 4 (PLCB4) (NM_182797) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phospholipase C beta 4
Synonyms:	ARCND2; PI-PLC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107552 sequence for NM_182797 edited (data generated by NextGen Sequencing)

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ATGGCCAAACCTTATGAATTTAACTGGCAGAAGGAAGTTCCTCCTTTTTGCAAGAAGGA
GCAGTTTTTGACAGATACGAGGAGGAATCCTTTGTGTTTGAACCAACTGCCTCTTCAAA
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ATCGAAAGTGCTGACCAAGAGGAGGAAGCTCACCCGAATTCAAATTTGAAATGAACTT
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GTGAAATTTGGAAGCCGAGATGGACCGCAGACCAGCAACAGTAGTATGA

Clone variation with respect to NM_182797.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_182797 unedited</p> <pre> AAAAACCTCTAACCCCGCCCTTGCCGCAATGGGCGTAGGCGGTACGGTGGGAGGT CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGG GCGGCCGCGAATTCGGCACGAGGCGGAGACCCCGCCCTCAACTGAGGAAAAGACGATTT CTCTCTGATTGAGAATCCTGAAATGTGATCTCCCTTAAAAAGAGGACAGTGCTGCTGTGA GTTTGACGAAGTGGACATCACCTGCAGTCAGTCCAGAGCTGCCAGTCTTGAATAAATC ATGGCCAAACCTTATGAATTTAACTGGCAGAAGGAAGTTCCCTCCTTTTTGCAAGAAGGA GCAGTTTTTGACAGATACGATGAGGAATCCTTTGTGTTTGAACCAACTGCCTCTTCAA GTGGATGAGTTTGGCTTCTTTCTGACATGGAGAAGTGAAGGCAAGGAAGGACAGGTGCTA GAATGGCTCCTCATCAACAGTATTCGGTCGGGAGCCATACCANNAGATCCCAAAATCTAG GCTGCTNNCTGAGCCTGTGAAATCANAAATGATCTGGAAGGNCGATAGTTTGTGTCTGC AGTGGCACAGATCTAGTGAACANTAGTTTTACCTACCTGGTGGGCTGAAATCCACGAGGT ACTAACCAATGGGTATGAAGGCCTGAGATCAATCCTACACAACTTCAGGCCCAACAACG TCAGTTCAATGACCTGCCTCAAGAAACTGGATTGAAATGGGCATTTATGACCCACACA AATGGTAAAATCCAGTAAGGAATTTACCTAGAATTTGCCTCGGAAAAACAGAAAAG GGGTCTTTTCAGCCCTTAAAGGAGTTAAGTCTCCCATGGGAAAGATGATGAATTTGAACC ACAAGCTTTTCTT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_182797 unedited</p> <pre> NNAACGTATACTATGNACCGCGCCGAATCTATGATCGATTTTTTTTTTTTTTTTTTGGC TGTTTTAATTTTTATAGAGAATTGGAAGTTAATTTCAATATTGATGGTATCATCATTT TCTCCGCTTTGTTTCCAGAGGAACACAGAAATCAATTTTACAAGCATATACAACAATTCA TCTGGTGTGTGCCCTAAATCAGTAATCTGATTAGTTCTAGACTACCGGTTTCCATGC GCTCCTCTTGGCTTTGGTGGCATGGCTCAATCCCAGCGGAATACTTTTTCATGCACTGT CTGCAACTCAACTACAGCAGGCTTAAAGACCATGCAGATTAACACTGTAGCAAATGTTT TGATATTTAACAGACATAAAAAGGCATTTCTGATATGAAATTTCTGAAAATCTGCATAA ATATTTTTGTGGAAAAATAAATAGTTATGTATTTTTTTCAAACCTAGAAGTTGAAGTATC AAGAAATGCCACATAAATCATATACACATATATATAGAGAGAGGGGTTTTTCATTATGC TAAAAGTCTTGATAGTCAAATTATATTCTGTGCCATACATTTATTTAACCAGTATTTATT TGGCATTANGTTAACTGTGTATGGATTAGTCTTTATTGGTGTGTGTATCATGCANACA TAGTTCTAGTATTCCTGTTTACTAATCTTGTGCATGTGGCAATACTTAAATGATTTTGCTC TCCTACAGTGTGAATTTAAAGAGTATAATACTTTATACATGGGCACATTTACAAAACGTT GCCAATAACCCACTCCACAATCTTTATGGGNGGGAATTATAATAATCCGGAAATCGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_182797
Insert Size:	4700 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).
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_182797.1 , NP_877949.1
RefSeq Size:	5509 bp
RefSeq ORF:	3528 bp
Locus ID:	5332
UniProt ID:	Q15147
Cytogenetics:	20p12.3-p12.2
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway
Gene Summary:	<p>The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals in the retina. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 3. The complete exon combination of the 5' UTR for this variant has not been determined. The resulting isoform (b) lacks an internal segment, compared to isoform c.</p>