

Product datasheet for **RG210197**

Phospholipase C beta 1 (PLCB1) (NM_015192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phospholipase C beta 1 (PLCB1) (NM_015192) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phospholipase C beta 1
Synonyms:	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210197 representing NM_015192 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGGCTCAACCCGGAGTGCACGCCTTGCAACTCAAGCCCGTGTGCGTGTCCGACAGCCTCAAGA
AGGGCACCAAATTCGTCAAGTGGGATGATGACTCAACTATTGTTACTCCAATTATTTTGAGGACTGACCC
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AGTGACTCCTCCAGCATGTTTCGAGCCCTCATCCCCAGGAGCCGGAGAAGCTGATACGGAAAGTGACGACG
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CTCCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210197 representing NM_015192
 Red=Cloning site Green=Tags(s)

MAGAQPGVHALQLKPVCSDSLKKGTKFVKWDDSTIVTPIILRTDPQGFFFYWTDQNKETELLDLSLVK
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 LLAQNMSRDAFLEKAYTKLKLQVTPGRIPLKNIYRLFADRKRVTALEACSLPSSRND SIPQEDFTPE
 VYRVFLNLCPRPEIDNIFSEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQLIEKYEP
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 QVLLSGCRCVELDCWKGR TAE EEPVITHGFTMTEISFKEVIEAIAECAFKTSPFPILL SFENHVDSPKQ
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

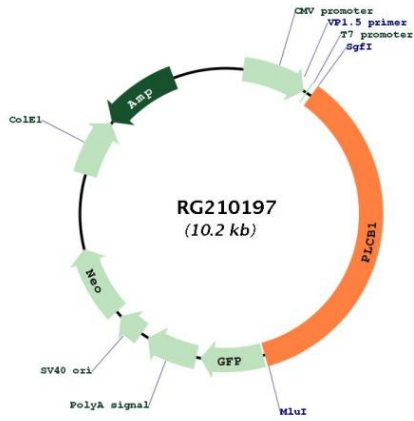


ACCN: NM_015192

ORF Size: 3648 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_015192.2 , NP_056007.1
RefSeq Size:	6705 bp
RefSeq ORF:	3651 bp
Locus ID:	23236
UniProt ID:	Q9NQ66
Cytogenetics:	20p12.3
Domains:	C2, PI-PLC-X, PI-PLC-Y
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:	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. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210197