

Product datasheet for **RG228430**

PLA2G4C (NM_001159323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4C (NM_001159323) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLA2G4C
Synonyms:	CPLA2-gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228430 representing NM_001159323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAGCTCTGAAGTTCCATAATTCCTGGGCTCCAGAAAAGAAAAGGCGGCCGTGGAGAGACGAA
 GACTTCATGTGCTGAAAAGCTCTGAAGAAGCTAAGGATTGAGGCTGATGAGGCCCAAGTTGTTGCTGTGCT
 GGGCTCAGGCGGAGGACTGCGGGCTCACATTGCCTGCCTTGGGGTCTGAGTGAGATGAAAGAACAGGGC
 CTGTTGGATGCCGTCACGTACCTCGCAGGGTCTCTGGATCCACTTGGGCAATATCTTCTCTACACCA
 ATGATGGTGACATGGAAGCTCTCGAGGCTGACCTGAAACATCGATTTACCCGACAGGAGTGGGACTTGGC
 TAAGAGCCTACAGAAAACCATCCAAGCAGCGAGGTCTGAGAATTACTCTCTGACCGACTTCTGGGCTAC
 ATGTTTATCTTAAGCAAACCAGAGAACTGCCGGAGTCTCATTTGTCCAATATGAAGAAGCCCGTGAAG
 AAGGGACTACTACCAATATTTGCAGCCATTGACAATGACCTGCAACCTTCTGGCAGGAGGCAAG
 AGCACCAGAGACTGGTTCGAGTTCACCCCTCACCACGCTGGCTTCTCTGCACTGGGGCCTTTGTTTCC
 ATAACCCACTTCGGAAGCAAATCAAGAAGGGAAGACTGGTCAGAACTCACCTGAGAGAGACTGACTT
 TCCTGAGAGGTTTATGGGGAAGTCTTGGTAACACTGAAGTCATTAGGGAATACATTTTTGACCAGTT
 AAGGAATCTGACCCTGAAAGTTTATGGAGAAGGGCTGTTGCTAATGCTAAAAGCATTGGACACCTTATT
 TTTGCCGATTACTGAGGCTGCAAGAAAGTTCACAAGGGGAACATCCTCCCCAGAAGATGAAGGCGGTG
 AGCCTGAACACACTGGCTGACTGAGATGCTCGAGAATTGGACCAGGACTCCCTGGAAAAGCAGGAGCA
 GCCCATGAGGACCCGAAAGGAAAGGCTCACTCAGTAAGTTGATGGATTTGTGAAGAAAACAGGCATT
 TGCCTTCAAAGTGGGAATGGGGGACCCTCACAACTTCTGTACAAACCGGTGGCATCCGGGACAAGA
 TAATGAGCAGCCGGAAGCACCTCCACTGGTGGATGCTGGTTTAGCCATCAACACTCCCTCCCACTCGT
 GCTGCCCCGACGCGGGAGGTTACCTCATCTCTCTCGACTTCAGTGCCGGAGATCCTTTGAGAGAC
 ATCCGGGCTACCACTGACTACTGCCGCCCAAGATCCCTTTCCCAAGTAGAAGAGGCTGAGCTGG
 ATTTGTGGTCCAAGGCCCGCCAGCTGCTACATCCTGAAAGGAGAACTGGACCAGTGGTATGCAATTT
 TCCCCTGTTCAACATAGATGCCTGTGGAGGTGATATTGAGGCATGGAGTGACACATACGACACATTCAG
 CTTGCTGACACTACTCTAGATGTGGTGGTCTACTCTTGGCATTAGCCAAGAAGAATGTCAGGGAAA
 ACAAGAAGAAGATCCTTAGAGAGTTGATGAACGTGGCCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228430 representing NM_001159323
 Red=Cloning site Green=Tags(s)

MGSSEVSIIPGLQKEEKAVERRRRLHVLKALKKLRIEADAPVAVLGSGGGLRAHIACLGVLSEMKEQG
 LLDVAVTYLAGVSGSTWAISSLYTNDGDMEALEADLKHRFTRQEWDLAKSLQKTIQAARSENYSLTDFWAY
 MVISKQTRPELPEHLSNMKKPVVEEGLPYPIFAAIDNDLQPSWQEARAPETWFEFPHHAGFSALGAFVS
 ITHFGSKFKKGRLLVRTHPERDLTFLRGLWGSALGNTEVIREYIFDQLRNLTKGLWRRAVANAKSIGHLI
 FARLLRLQESSQGEHPPPEDEGGEPEHTWLTEMLNWRTRTSLKQEQPHEDPERKGSLSNLMDFVKKGTGI
 CASKWEWGTTHNFLYKHGGIRDKIMSSRKHLHLVDAGLAINTPFPLVLPPTREVHLILSDFDSAGDPFET
 IRATTDYCRRHKIPFPQVEEAELDLWSKAPASYILKGETGPVVMHFPLFNIDACGGDIEAWSDTYDTFK
 LADTYTLDVVVLLLLALAKKNVRENKKKILRELMNVAG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001159323

ORF Size: 1581 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:

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_001159323.1](#), [NP_001152795.1](#)

RefSeq Size: 2567 bp

RefSeq ORF: 1584 bp

Locus ID: 8605

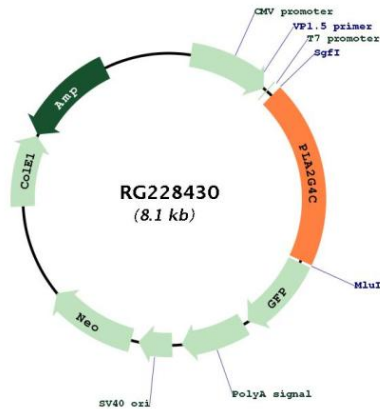
UniProt ID: [Q9UP65](#)

Cytogenetics: 19q13.33

Gene Summary:

This gene encodes a protein which is a member of the phospholipase A2 enzyme family which hydrolyzes glycerophospholipids to produce free fatty acids and lysophospholipids, both of which serve as precursors in the production of signaling molecules. The encoded protein has been shown to be a calcium-independent and membrane bound enzyme. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RG228430