

Product datasheet for **RG202955**

PLA2G12A (NM_030821) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLA2G12A (NM_030821) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PLA2G12A
Synonyms: GXII; PLA2G12; ROSSY
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202955 representing NM_030821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGCTCTCGCGCCCGCGCTCACCTCCTGCTCCTCCTCATGGCCGCTGTTGTCAGGTGCCAGG
 AGCAGGCCAGACCACCGACTGGAGAGCCACCCTGAAGACCATCCGGAACGGCGTTCATAAGATAGACAC
 GTACCTGAACGCCGCTTGGACCTCTGGGAGGCGAGGACGGTCTCTGCCAGTATAAATGCAGTGACGGA
 TCTAAGCCTTTCCACGTTATGGTTATAAACCTCCCCACCGAATGGATGTGGCTCTCCACTGTTTGGTG
 TTCATCTTAACATTGGTATCCCTCCCTGACAAAGTGTGCAACCAACACGACAGGTGCTATGAGACCTG
 TGGCAAAAGCAAGATGACTGTGATGAAGAATTCCAGTATTGCCTCTCCAAGATCTGCCGAGATGTACAG
 AAAAAGCTAGGACTAACTCAGCATGTTCAGGCATGTGAAACAACAGTGGAGCTCTTGTGGACAGTGTTA
 TACATTTAGGTTGTAACCATATCTGGACAGCCAACGAGCCGCATGCAGGTGTCATTATGAAGAAAAAAC
 TGATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202955 representing NM_030821
 Red=Cloning site Green=Tags(s)

MALLSRPALLLLLLMAAVVRCQEQAQTTDWRATLKTIRNGVHKIDTYLNAALDLLGGEDGLCQYKCSDG
 SKPFPRYGKPSPPNGCGSPLFGVHLNIGIPSLTKCCNQHDRCYETCGKSKNDCDEEFQYCLSKICRDVQ
 KTLGLTQHVVQACETTVELLFDVSVIHLGCKPYLDSQRAACRCHYEKTDL

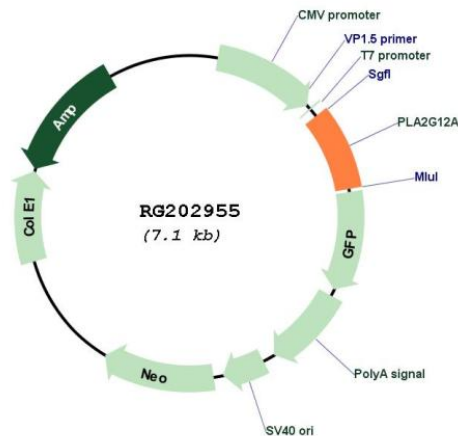
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_030821

ORF Size: 567 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_030821.5
RefSeq Size:	1699 bp
RefSeq ORF:	570 bp
Locus ID:	81579
UniProt ID:	Q9BZM1
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
Gene Summary:	Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from phospholipids for production of eicosanoids and exert a variety of physiologic and pathologic effects. Group XII sPLA2s, such as PLA2G12A, have relatively low specific activity and are structurally and functionally distinct from other sPLA2s (Gelb et al., 2000 [PubMed 11031251]).[supplied by OMIM, Mar 2008]