

# **Product datasheet for RC202955**

## PLA2G12A (NM 030821) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: PLA2G12A (NM\_030821) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: PLA2G12A

Synonyms: GXII; PLA2G12; ROSSY

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202955 representing NM\_030821

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGATCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA** 

**Protein Sequence:** >RC202955 representing NM\_030821

Red=Cloning site Green=Tags(s)

MALLSRPALTLLLLLMAAVVRCQEQAQTTDWRATLKTIRNGVHKIDTYLNAALDLLGGEDGLCQYKCSDG SKPFPRYGYKPSPPNGCGSPLFGVHLNIGIPSLTKCCNQHDRCYETCGKSKNDCDEEFQYCLSKICRDVQ

 ${\tt KTLGLTQHVQACETTVELLFDSVIHLGCKPYLDSQRAACRCHYEEKTDL}$ 

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

#### PLA2G12A (NM\_030821) Human Tagged ORF Clone - RC202955

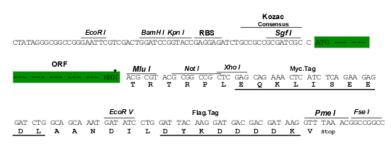
https://cdn.origene.com/chromatograms/mg3524 f03.zip **Chromatograms:** 

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

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.

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube Components:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 030821.5

RefSeq Size: 1699 bp

### PLA2G12A (NM\_030821) Human Tagged ORF Clone - RC202955

 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

MW: 20.9 kDa

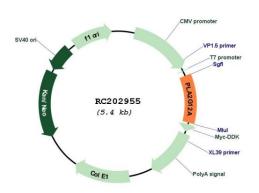
**Gene Summary:** Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from phospholipids for

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

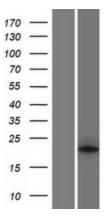
OMIM, Mar 2008]

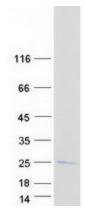
### **Product images:**



Circular map for RC202955







Western blot validation of overexpression lysate (Cat# [LY410681]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202955 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PLA2G12A protein (Cat# [TP302955]). The protein was produced from HEK293T cells transfected with PLA2G12A cDNA clone (Cat# RC202955) using MegaTran 2.0 (Cat# [TT210002]).