

Product datasheet for **SC304136**

PLA2G2E (NM_014589) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PLA2G2E (NM_014589) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PLA2G2E |
| Synonyms: | GIIE sPLA2; sPLA2-IIIE |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC304136 representing NM_014589. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

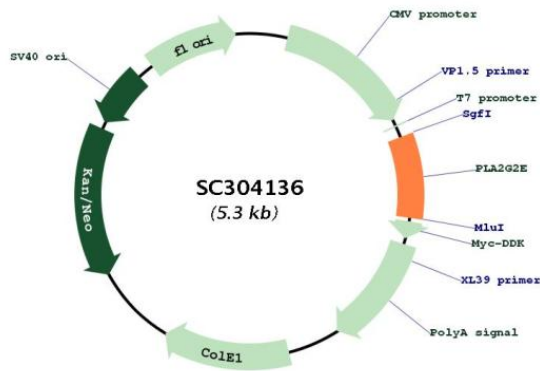
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAATCTCCCCACGTGCTGGTTCCTTTGCCCTCCTGGTGGCTCTGGTCACCGGGAACCTGGTTCAG
TTTGGGGTGATGATCGAGAAGATGACAGGCAAGTCCGCCCTGCAGTACAACGACTATGGCTGTTACTGC
GGCATCGGTGGCTCCCACTGGCCGGTGGACCAGACTGACTGGTGTGCCACGCCACGACTGCTGTAC
GGGCGTCTGGAGAAGCTGGGCTGTGAGCCAAACTGGAAAAGTATCTTTCTCTGTGCAGGAACGTGGC
ATTTTCTGCGCCGGCAGGACCACCTGCCAGCGGCTGACCTGCGAGTGTGACAAGAGGGCTGCCCTCTGC
TTTCGCCCAACCTGGGCACCTACAACCGCAAATATGCCATTATCCCAACAAGCTGTGCACCGGGCC
ACCCCGCCCTGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_014589

Insert Size: 429 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014589.2 |
| RefSeq Size: | 487 bp |
| RefSeq ORF: | 429 bp |
| Locus ID: | 30814 |
| UniProt ID: | Q9NZK7 |
| Cytogenetics: | 1p36.13 |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| 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: | 16 kDa |
| Gene Summary: | PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Has a preference for arachidonic-containing phospholipids. [UniProtKB/Swiss-Prot Function] |