

Product datasheet for **SC320348**

PLA2G12A (NM_030821) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PLA2G12A (NM_030821) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PLA2G12A |
| Synonyms: | GXII; PLA2G12; ROSSY |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_030821.3
 GCTGGCCCAGGTGAGCGGGCGCGCTGGTCCAGGTGAGCGGGCGCGTCCCCGCGACGGCGC
 TGCTGCCCGAGGCGGTTACGTAAAGACAGCGAGATCCTGAGGGCCAGCCGGAAGGAG
 GCGTGGATATGGAGCTGGCTGCTGCCAAGTCCGGGGCCCGCGCCGCTGCCTAGCGCGTCC
 TGGGGACTCTGTGGGACGCGCCCCGCGCCGCGCTCGGGGACCCGTAGAGCCCGGCGCT
 GCGCGCATGGCCCTGCTCTCGCGCCCCGCGCTCACCTCCTGCTCCTCATGGCCGCT
 GTTGTCAGGTGCCAGGAGCAGGCCAGCCAGCCAGCTGGAGAGCCACCCTGAAGACCATC
 CGGAACGCGGTTATAAGATAGACACGTACCTGAACGCCGCTTGACCTCCTGGGAGGC
 GAGGACGGTCTCTGCCAGTATAAATGCAGTGACGGATCTAAGCCTTTCCACGTTATGGT
 TATAAACCTCCCCACGAATGGATGTGGCTCTCCACTGTTTGGTGTTTCATCTTAACATT
 GGTATCCCTTCCCTGACAAAGTGTGCAACCAACACGACAGGTGCTATGAGACCTGTGGC
 AAAAGCAAGAATGACTGTGATGAAGAATCCAGTATTGCCTCTCCAAGATCTGCCGAGAT
 GTACAGAAAACACTAGGACTAACTCAGCATGTTCCAGGCATGTGAAACAACAGTGGAGCTC
 TTGTTTGACAGTGTATACATTTAGGTTGTAACCATATCTGGACAGCCAACGAGCCGCA
 TGCAGGTGTCATTATGAAGAAAAAACTGATCTTTAAAGGAGATGCCGACAGCTAGTGACA
 GATGAAGATGGAAGAACAATACCTTTGACAAATAACTAATGTTTTTACAACATAAACTGT
 CTTATTTTTGTGAAAGGATTATTTTGGACCTTAAAATAATTTATATCTTGATGTTAAAA
 CCTCAAAGCAAAAAAGTGAGGGAGATAGTGAGGGGAGGGCAGCCTTGTCTTCTCAGGTA
 TCTTCCCAGCATTGCTCCCTTACTTAGTATGCCAAATGTCTTGACCAATATCAAAAACA
 AGTGCTTGTAGCGGAGAATTTTGAAGAGGAATATAAATCACTATTTTCAACACCACA
 TTTACAAAAAAGAGATCAAAATAAAATTCATCATAATGTCTGTTCAACATTATCTTA
 TTTGGAAAATGGGAAATATCACTTACAAGTATTTGTTTACTATGAAATTTTAAATACA
 CATTATGCCTAGAAGGAACGGACTTTTTTTTTTCTATTTTAAATTACACATAATATGTAA
 TTAAGTACAACATAATATGTTGTTTCTCTGTAGCCGTTGAGCATATGAGTAAGTCACA
 TTTCTATTAGGACTACTTACAAGGACAAGGTTTCCATTTTTCCAGTTGTAATAATTGGAAC
 CATCAGCTGATAACCTCGTAGGGAGCAACCCAGGATAGCTAAGTGTATGTAATATGCC
 TAGAAGGTGATGTGAATGCGATTGAGAAGCATAGCCACTCCCATTTTATGAGCTACTCAC
 ATGACAAATGTCATCTTTTGCTATAACCTTTGCCAAGTTAGAGAAAAGATGGATTTAATG
 AGATAAATGAAAAGATATTTAACCTAATATATCAAGGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_030821

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).

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| 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_030821.3 , NP_110448.2 |
| 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] |