

Product datasheet for **SC109014**

PLA2G12A (NM_030821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G12A (NM_030821) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G12A
Synonyms:	GXII; PLA2G12; ROSSY
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109014 sequence for NM_030821 edited (data generated by NextGen Sequencing) ATGGCCCTGCTCTCGCGCCCGCCTCACCTCCTGCTCCTCCTCATGGCCGCTGTTGTC AGGTGCCAGGAGCAGGCCAGACCACCGACTGGAGAGCCACCCTGAAGACCATCCGGAAC GGCGTTCATAAGATAGACACGTACCTGAACGCCCTTGACCTCTGGGAGGCGAGGAC GGTCTCTGCCAGTATAAATGCAAGTACGGATCTAAGCCTTTCCACGTTATGGTTATAAA CCCTCCCCACCGAATGGATGTGGCTCTCCACTGTTTGGTGTTCATCTAACATTGGTATC CCTTCCCTGACAAAGTGTGCAACCAACACGACAGGTGCTATGAAACCTGTGGCAAAGC AAGAATGACTGTGATGAAGAATTCCAGTATTGCCTCTCCAAGATCTGCCGAGATGTACAG AAAACACTAGGACTAACTCAGCATGTTCCAGGCATGTGAAACAACAGTGGAGCTCTTGTTC GACAGTGTATACATTTAGGTTGTAACCATATCTGGACAGCCAACGAGCTGCATGCAGG TGTCATTATGAAGAAAAAAGTATCTTTAA Clone variation with respect to NM_030821.4 345 g=>a;531 c=>t



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_030821 unedited TATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGGCTGGCCAGGTGAGCGGGC GCGCTGGTCCAGGTGAGCGGGCGCGTCCCCGCGACGGCGCTGCCTTCCCGAGGCGGTTCA CGTAAAGACAGCGAGATCCTGAGGGCCAGCCGGAAGGAGGCGTGGATATGGAGCTGGCT GCTGCCAAGTCCGGGGCCCGCGCGCTGCCTAGCGCGTCTGGGGACTCTGTGGGACGC GCCCGCCGCGCGGCTCGGGGACCCGTAGAGCCCGCGCTGCGCGCATGGCCCTGCTCTC GCGCCCGCGCTCACCTCCTGCTCCTCATGGCCGCTGTTGTCAGGTGCCAGGAGCA GGCCAGACACCGACTGGAGAGCCACCCTGAAGACCATCCGGAACGGCGTTCATAAGAT AGACACGTACCTGAACGCCGCTTGGACCTCCTGGGAGGCGAGGACGGTCTCTGCCAGTA TAAATGCAGTGACGGATCTAAGCCTTCCACGTTATGGTTATAAACCTCCCCACCGAA TGGATGTGGCTCTCCACTGTTTGGTGTTTACCTTAACATTGGTATCCCTTCCCTGACAAA GTGTTGCAACCAACGACAGGTGCTATGAAACCTGTGGCAAAGCAAGATGACTGTGAT GAAGAATCCAGTATTGCCTCTCCAAGATCTGCCGAGATGTACAGAAACTANGACTAA CTCAGCATGTTCCAGCATGTGAAACACAGTGGAGCTCTTGTGTTGACAGTGTATCATTTT AGGGNTGTAACCATATCTGGACAGNCAACGAGCTGATGGCAGGTGTCATTATGAGAAAAA ACTGATCTTTAAGGAGATGCGACAGCTAGTGACAGATGAGATAGGAGAACATAACTTGA CAAAACCTATGGTTTTACTACTAACTGTCTAATTTGGGAAGGATATTTTGAACA
Restriction Sites:	NotI-NotI
ACCN:	NM_030821
Insert Size:	4000 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).
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_030821.3 , 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]