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Product datasheet for SC308668

PLA2G4F (NM_213600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4F (NM_213600) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLA2G4F
Synonyms:	PLA2G4FZ
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_213600 edited
AGCAGTTTGTGCAACCAGAGGAGCGCAGGCAGGGTTCCCTGCTGGGGCCCGGGCTGCCCA
GCCATGCTTTGGGCACTCTGGCCAAGGTGGCTGGCAGACAAGATGCTGCCCCTCCTGGGG
GCAGTGCTGCTTCAGAAGAGAGAGAAGAGGGGCCCTCTGTGGAGGCACTGGCGGCGGGAA
ACCTACCCATACTATGACCTCCAGGTGAAGGTGCTGAGGGCCACAAACATCCGGGGCACA
GACCTGCTGTCCAAAGCCGACTGCTATGTGCAACTGTGGCTGCCCACGGCGTCCCCAAGC
CCTGCCCAGACTAGGATAGTGGCCAACTGCAGTGACCCCGAGTGGAATGAGACCTTCCAC
TACCAGATCCATGGTGCTGTGAAGAACGTCCTGGAGCTCACCCTCTATGACAAGGACATC
CTGGGCAGCGACCAGCTCTCTCTGCTCCTGTTTGACCTGAGAAGCCTCAAGTGTGGCCAA
CCTCACAAACACACCTTCCCACTCAACCACCAGGATTCACAAGAGCTGCAGGTGGAATTT
GTTCTGGAGAAGAGCCAGGTGCCTGCATCTGAAGTCATCACCAACGGGGTTCTGGTGGCT
CACCCCTGTCTGAGAATCCAGGGCACGCTCCGGGGAGATGGGACAGCCCCACGGGAAGAG
TACGGCTCTAGGCAGCTCCAGCTGGCAGTGCCTGGAGCCTACGAGAAGCCACAGCTCTTG
CCCCTGCAGCCTCCCACAGAGCCAGGCCTCCCACCCACCTTTACCTTCCACGTGAACCCA
GTGCTGAGCTCCAGGCTACACGTGGAGCTGATGGAGCTGCTGGCAGCTGTGCAGAGTGGC
CCCAGCGCAGAGTTGGAGGCTCAGACCAGCAAGCTGGGCGAGGGGGGCATCCTGCTCTCC
TCTCTGCCCCTAGGCCAGGAGGAACAGTGTTCTGTGGCCCTGGGGGAGGGCCAGGAGGTG
GCTCTGAGCATGAAGGTGGAAATGAGCTCCGGGGACCTAGACCTACGCCTTGGCTTTGAC
CTCTCTGACGGGGAGCAGGAGTTTCTGGACAGGAGGAAGCAGGTCGTGTCCAAGGCCCTG
CAGCAAGTGCTGGGATTGAGTGAGGCTCTGGACAGTGGCCAGGTGCCTGTAGTGGCTGTG
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CAGGAGCTCGGCCTTCTAGACACTGTGACCTACCTGAGTGGGGTCTCTGGGTCTACCTGG
TGCATCTCCACACTCTACAGGGACCCAGCCTGGTCCCAGGTGGCCTTGCAGGGCCCCATT
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CAGTACTACACTCAGGAACTGGGGGTCCGGGAGCGCAGTGGCCACAGCGTGTCCCTCATC
GACCTCTGGGGCCTCCTTGTTGAGTATCTCCTGTACCAGGAGGAGAACCCTGCCAAGCTG
TCTGACCAACAGGAGGCGGTCCGCCAGGGTCAGAACCCTTACCCCATTTACACCAGTGTC

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AACGTCCGCACCAACTTGAGTGGGGAAGATTTTGCAGAGTGGTGCGAGTTCACGCCCTAT
GAGGTTGGCTTCCCCAAGTACGGGGCTTATGTTCCCACCGAGCTCTTCGGCTCAGAACTC
TTCATGGGACGATTGCTGCAGCTCCAGCCTGAACCCCGGATCTGTTACCTGCAAGGTATG
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TTCTGGTCTCCTCGTGCCTCCTCCCAGATCACCCTTCTCTTCCCAGCGCCCTAAAGCCTG
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TTACCCAGGCTTCACTCTTCGAACCTGGACCACAGTCTCTGGTGATGTGTGTAGTGGCCA
CATCATGCAAATATAGTCTCACCATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_213600 unedited
TGCGACAGGGACACGACCTACCAATGGGGCGGCCGCGAACTCGCCCTCAGCAGTCCGTGC
AACCAGAGGAGCGCAGGCAGGGTCCCCCGCTGGGGCCCGGGCCGCCCAGCCACGCTTTGG
GCACTCTGGCCAAGGTGGCTGGCAGACAAGATGCTGCCCCTCCTGGGGGCAGTGCTGCTT
CAGAAGAGAGAGAAGAGGGGCCCTCTGTGGAGGCACTGGCGGCGGGAAACCTACCCATAC
TATGACCTCCAGGTGAAGGTGCTGAGGGCCACAAACATCCGGGGCACAGACCTGCTGTCC
AAAGCCGACTGCTATGTGCAACTGTGGCTGCCCACGGCGTCCCCAAGCCCTGCCCAGACT
AGGATAGTGGCCAACTGCAGTGACCCCGAGTGGAATGAGACCTTCCACTACCAGATCCAT
GGTGCTGTGAAGAACGTCCTGGAGCTCACCCTCTATGACAAGGACATCCTGGGCAGCGAC
CAGCTCTCTCTGCTCCTGTTTGACCTGAGAAGCCTCAAGTGTGGCCAACCTCACAAACAC
ACCTTCCCACTCAACCACCAGGATTCACAAGAGCTGCAGGTGGAATTTGTTCTGGAGAAG
AGCCAGGTGCCTGCATCTGAAGTCATCACCAACGGGGTTCTGGTGGCTCACCCCTGTCTG
AGAATCCAGGGCACGCTCCGGGGAGATGGGACAGCCCCACGGGAAGAGTACGGCTCTAGG
CAGCTCCAGCTGGCAGTGCCTGGAGCCTACGAGAAGCCACAGCTCTTGCCCCTGCAGCCT
CCCACAGAGCCAGGCCTCCCACCCACCTTTACCTTCCACGTGAACCCAGTGCTGAGCTCC
AGGCTACACGTGGAGCTGATGGAGCTGCTGCAGCTGTGCAGAGTGCCCCAGCGCAGAGTT
GAAGCTCAGACAGCCAGGCTTGGGCGGAGGGGGGCATTCTTGCTCTCCTCTCTGCCCTAG
CCAGGAGGAAACAAGGTGTTCTTGTGTGGCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_213600 unedited
CGCCCCTGAACCTCGAGGCAGGAGAGGCACCGGGGGGGGTCACAGGGAGCCACCCGGGAT
CTGTTCGGAAACAGCTACGACCGCGGCCGCAATCTAGAGTCGAGATTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAATGGTGATTCTTTTTTG
CTTGATGTGGCCCCTACACACATTACCCGAAACTGTGGTCCAAGTTCAAAAAATGAAACC
TGGGTAACTGGCAGGGAAACCCCCCCACATCTCCCACCTGGAGCAGCCAGAATGGGACAT
CACCCCACAGGCTTTAGGGCGCTGGGAAAAAAAGGGTGATCTGGGAGGAGGCACGAGGAG
ACCAAAAGGCAAAAGGAGGGTTAGGATGATGGAGTCAACAACATAGGCTGGCCCTCCCCT
CAGCCCCTCATTGTTTTTGATAACAGTGCATCCAGGAGCTCGAGGGGGGGTTGGGGCTTG
GGCCGCTCTGCAGGAAGTGTGGATGGATGCATTTTTGCTTTCCATCTCAGTGTAAGGAGG
ACAGCTGGCTTCTCGGTGCCCTCAACCCCTGTTTTGTGTGGGTCTGAGGACTTGGGCCCT
CTGAGGTCCTTCTGTGTCTGGGGTGGGCTCTGTGGCTCACCTGATTCTCTCCACCCCCCG
CTGTGAAATGAGTGCTGTTTTTTTTCTGCCCTACATCCCCAAGAGTCCCTGGAGCGATCT
ACTGGCCATCTTCTCCAAAAACACACAAGGAGAGCCCCCGCCCCCACTCCCAAGCTGAAA
TTCTGGCAAGAGCTTTCCGGGGCCTGGGGCACCTCGAGGCCAGGTCCTGGAGAGAAGGGA
AGCAGATCCTGCACCAGAGTCCCCATCGCTCCCTCCCTCTACAGCCCCTGAACATGAGCA
GTGTGTCTCCCTCTCTGTCACAGTCCTCCGCTTCCTGCCCTTGATAAGGCCCTGCCCTTC
CCCAACCCTGGTCGCCGGC

Restriction Sites: Please inquire

ACCN: NM_213600

Insert Size: 3400 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: The open reading frame of this TrueClone was fully sequenced and found to have a single amino acid difference from the protein associated to this reference.

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:
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_213600.2, NP_998765.2

RefSeq Size: 3414 bp

RefSeq ORF: 2550 bp

Locus ID: 255189

UniProt ID: Q68DD2

Cytogenetics:	15q15.1
Protein Pathways:	Fc gamma R-mediated phagocytosis
Gene Summary:	Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Has higher enzyme activity for phosphatidylethanolamine than phosphatidylcholine (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.