

Product datasheet for **RC212760**

PLA2G4F (NM_213600) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4F (NM_213600) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLA2G4F
Synonyms:	PLA2G4FZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212760 representing NM_213600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTGGGCACTCTGGCCAAGGTGGCTGGCAGACAAGATGCTGCCCTCTGGGGCAGTGCTGCTTC
 AGAAGAGAGAGAAGAGGGGCCCTCTGTGGAGGCACTGGCGGCGGAAACCTACCCATACTATGACCTCCA
 GGTGAAGGTGCTGAGGGCCACAAACATCCGGGGCAGACCTGTGTCCAAAGCCGACTGTATGTGCAA
 CTGTGGCTGCCACGGCGTCCCCAAGCCCTGCCAGACTAGGATAGTGGCCAAGTGCAGTGACCCGAGT
 GGAATGAGACCTTCCACTACCAGATCCATGGTGTGTGAAGAAGTCTGGAGCTCACCTCTATGACAA
 GGACATCTGGGACGACAGCTCTCTGCTCTGTTGACCTGAGAAGCCTCAAGTGTGCCAACCT
 CACAAACACACCTTCCACTCAACCACCAGGATCACAAGAGCTGCAGGTGGAATTTGTTCTGGAGAAGA
 GCCAGGTGCTGCATCTGAAGTCATACCAACGGGGTTCTGGTGGCTCACCCCTGTCTGAGAATCCAGGG
 CACGCTCCGGGGAGATGGGACAGCCCCACGGGAAGAGTACGGCTTAGGCAGCTCCAGCTGCCAGTGCCT
 GGAGCCTACGAGAAGCCACAGCTTTGCCCTGCAGCCTCCACAGAGCCAGGCCTCCACCCACCTTTA
 CCTTCCACGTGAACCCAGTGTGAGCTCCAGGCTACACGTGGAGCTGATGGAGCTGCTGGCAGCTGTGCA
 GAGTGGCCCCAGCGCAGAGTTGGAGGCTCAGACCAGCAAGCTGGGCGAGGGGGGCATCTGCTCTCTCT
 CTGCCCTTAGGCCAGGAGAACAGTGTCTGTGGCCCTGGGGGAGGGCCAGGAGTGGCTCTGAGCATGA
 AGGTGGAATGAGCTCCGGGGACCTAGACCTACGCCTTGCTTTGACCTCTCTGACGGGGAGCAGGAGTT
 TCTGGACAGGAGGAAGCAGGTGCTGTCCAAGCCCTGCAGCAAGTGTGGGATTGAGTGAAGGCTCTGGAC
 AGTGGCCAGGTGCCTGTAGTGGCTGTGTTGGGTTCCGGGGTGAACCCGAGCCATGTCTTCTGTACG
 GCAGCCTGGCAGGTTGCAGGAGCTCGGCCTTAGACACTGTGACCTACCTGAGTGGGCTCTGGGTC
 TACCTGGTGCATCTCCACACTCTACAGGGACCCAGCCTGGTCCCAGGTGGCCTGCAGGGCCCCATTGAG
 CGTGCCAGGTTACGTCTGCAGCAGTAAGATGGGAGCTTTGTCCACGGAGCGGTACAGTACTACTC
 AGGAACTGGGGTCCGGGAGCGCAGTGGCCACAGCGTGTCCCTCATCGACCTCTGGGGCCTCCTGTTGA
 GTATCTCTGTACCAGGAGGAGAACCCTGCCAAGCTGTCTGACCAACAGGAGGCGGTCCGCCAGGGTCAG
 AACCTTACCCATTTACACCAGTGTCAACGTCCGCACCAACTTGAAGTGGGAAGATTTTGCAGAGTGGT
 GCGAGTTCACGCCATGAGGTTGGCTTCCCCAAGTACGGGGCTTATGTTCCACCGAGCTCTTCGGCTC
 AGAACTTTCATGGGACGATTGTGCAGCTCCAGCCTGAACCCCGGATCTGTTACCTGCAAGGTATGTGG
 GGCAGCGCCTTTGCCACCAGCCTGGATGAGATCTTCTAAAGACCGCCGGCTCGGGCCTCAGCTTCTGG
 AGTGGTACAGAGGCAAGTGAATATCACAGACGACTGCCAGAAGCCTCAGCTGCACAACCCCTCGAGGCT
 GCGAACGAGGCTCCTCACCCACAGGGGCCCTTCTCCAGGCTGTGCTGGACATATTCACCTCCCGCTTC
 ACTTCCGCCAGAGCTTTAACTTCAACCCGGGCTCTGCTTGCACAAGGACTATGTGGCTGGCAGGGAGT
 TCGTGGCTGGAAAGACACACCCGGACGCCTTCCCCAACAGCTCACCCCATGCGGGACTGCCTGTA
 CCTGGTGGACGGAGGCTTTGCCATCAACTCTCCGTTCCCACTGGCTCTGCTGCCTCAGAGAGCAGTGGAC
 CTCATTCTGTCTTTGACTATTCCTTGGAAAGCCCTTTTGAAGTCTTGAAGATGACAGAGAAGTACTGCC
 TGGACCGAGGAATCCCTTCCCTAGCATCGAGGTGGCCCTGAGGACATGGAGGAGGCCCGTGAAGTACT
 TCTGTTTGCCAAGGCTGAGGACCCCGCTCCCCATTGTGCTGCACTTCCCCTGGTTAACCGTACCTTC
 CGCACACACTGGCCCCAGGTGTGGAGCGACAAACAGCTGAGGAGAAGGCCTTTGGGGACTTTGTCAATCA
 ACAGGCCAGACCCCTATGGCATGATGAACTTACCTATGAGCCCCAGGACTTTTATCGGCTGGTGGC
 CCTCAGTCGATACAACGTCTGAACAACGTGGAGACCTTGAAGTGCGCCCTCCAGCTGGCTCTGGACCG
 CACCAGGCTCGGGAGAGGGCAGGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212760 representing NM_213600
 Red=Cloning site Green=Tags(s)

MLWALWPRWLADKMLPLLGA VLLQKREKRGPLWRHWRRETYPPYDLQVKVLRATNIRGTDLLSKADCYVQ
 LWLPTASPSPAQTRIVANCSDPEWNETFHYQIHGAVKNVLELTL YDKDILGSDQLSLLLFDLRSKCGQP
 HKHTFPLNHQDSQELQVEFVLEKSQVPASEVITNGVLVAHPCLRIQGTLRGDGTAPREYGSRQLQLAVP
 GAYEKPQLLPLQPPTPEGLPPTFFHVNPVLSRRLHVELMELLA AVQSGPSAELEAQT SKLGEGGILLSS
 LPLGQEEQCSVALGEGQEV ALSMKVEMSSGDLRLGFDLSDGEQEFDRRKQV VSKALQQV LGLSEALD
 SGQVPVVAVLGS GGGTRAMSSLYGSLAGLQELGLLDVTYLSGVSGSTWCISTLYRDPAWSQVALQGP
 IE RAQVHVCSKMGALSTERLQYYTQELGVRERSGHSVSLIDLWGLLVEYLLYQEEENPAKLS DQQA
 EAVRQGGQ NPYPYIYTSVNVRTNLSGEDFAEWCEFTPYEVGFPKYGAYVPTELFGSELMGRLLQLQ
 PEPRICYLQGMW GSAFATSLDEIFLKTAGSGLS FLEWYRGSVNITDDCQK PQLHNPSRLRTRLLTPQ
 GPFSSQAVLDIFTSRF TSAQSFNFRGLCHKDYVAGREFVAWKDTHPDAFPNQLTPMRDCLYLVDGG
 FAINSPP LALLPQRAVD LILSFDYSLEAPFEVLKMT EKYCLDRGIPFPSIEVGPEDMEEARECYLF
 AKAEDPRSP IVLHFPLVNRTF RTHLAPGVERQTAE EKAFGDFVINRPDTPYGMNFTYEPQDFYRL
 VALSRYNV LNNVETLKCALQLALDR HQARERAGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

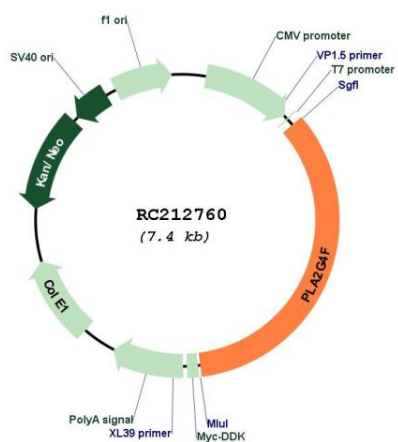
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_213600
ORF Size:	2547 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.
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_213600.4
RefSeq Size:	3492 bp
RefSeq ORF:	2550 bp
Locus ID:	255189
UniProt ID:	Q68DD2
Cytogenetics:	15q15.1
Protein Pathways:	Fc gamma R-mediated phagocytosis
MW:	95.1 kDa
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]

Product images:



Circular map for RC212760