

Product datasheet for **RG233152**

PLA2G4E (NM_001206670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4E (NM_001206670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLA2G4E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG233152 representing NM_001206670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTCTCCAGGCCTCGGAAGGCTGTCTTGGCCTGGAACTAATGTGTTTGTCCCACAGAGCCACAAA
 CGGATGAAGAAGGCAGCAGGTCAGGAAGAAGTTTCAGTGAGTTTCGAGGATACACAGGACCTGGACTCC
 TGGTCTCCACCTTTCTGTCTATGGCTCCTTGGGGCTCTGAGGAGGGGCTGTCTCCATGCCACCTGTTG
 ACAGTGAGGGTCAATCCGGATGAAAAATGTCGGCAGGCTGATATGCTGAGCCAGACAGACTGTTTTGTGA
 GCCTCTGGCTGCCACCGCCTCTCAGAAGAAGCTGAGGACAAGGACCATCTCCAAGTCCCAAAATCCAGA
 GTGGAATGAAAGCTTCAACTTCCAGATCCAGAGCCGAGTGAAGAAGCTGCTAGAGTTGAGTGTCTGTGAT
 GAAGACACAGTGACACCAGATGACCATCTCCTGACAGTTCTCTATGACCTACCAAGCTCTGTTCCGAA
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 GGAGAGTCCCTCTCCACCTGAGACCCTCGTCACCAATGGCGTGTGGTGTCTCGACAAGTCTCCTGCCTG
 GAGGTTTATGCACAATCCAGGAGCGGAGGAAGAGGGAGAAAATGAAGGACCTCCTGGTGTGGTGAACG
 AATCCTTTGAGAACCCAGCGTGTCCGGCCCTGCTTGGAAACCCTGCTGCCAACCTCTGCCTGCTTCCA
 AACCGCTGCCTGCTTCCACTACCCCAAGTACTTCCAGTCCAGGTGCACGTGGAAGTGCCAAGAGTCA
 TGGAGCTGTGGGCTTTGCTGCCGCTCTCGCAAGAAGGGCCCCATCAGCCAGCCCCGACTGCCTTTCCG
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 GACTGGACGTGCGGCTGGGCTTACGCTGTGCCAGCAGAGCTGGAGTTTCTGCAGAAGCGGAAGGTC
 GTGGTGGCCAAGGCCCTGAAGCAGGTGCTGCAGCTGGAGGAAGACCTGCAGGAGGACGAGGTGCCGCTGA
 TAGCCATCATGGCCACTGGGGTGGAAACAAGATCCATGACCTCCATGTATGGCCACCTGTGGGGCTGCA
 GAAGCTGAACCTCCTGGACTGTGCCAGTACATCACCAGTCTATCAGGGGCCACCTGGACCATGGCTACC
 TTGTACCGTGACCTGACTGGTCTCCAAAAAATTGGAGCCTGCTATCTTTGAGGCTCGGAGACATGTGG
 TAAAGGACAAGCTACCCTCCCTGTTCCAGACCAGCTCCGCAAATTCAGGAGGAGCTCCGGCAGCGCAG
 CCAGGAAGGCTACAGGTCACCTTTACAGACTTCTGGGGCTGCTGATAGAGACCTGCCTGGGGACGAG
 AGAAATGAATGCAAACTGTCAGATCAGCGTGTCTTTGAGTGCAGCCAGAACCCCTGCCCATCTACC
 TCACCATCAATGTCAAGGATGATGTAAGCAACCAGGACTTCAGAGAGTGGTTCGAGTTCTCCCCCTACGA
 GGTGGGCTCAGAAAGTATGGGGCTTCCATCCCCTCCGAGCTCTTCGGCTCCGAGTCTTCATGGGGCGG
 CTGGTGAAGAGGATCCCGGAGTCTCGAATCTGCTACATGCTAGGCTGTGGAGCAGCATCTTCTCCCTGA
 ACCTGCTGGATGCCTGGAACCTGTCACACACCTCGGAGGAGTTTTTCCACAGGTGGACAAGGAGAAAGT
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 GTAGTGATCCCAGGGTCAATGGCTGTCCAATTTTCCGAGAAATCCTTACCCATCGGTCCTTCGTGTCTG
 AGTTTCACAACTTCTGTCTGGGCTGCAGCTGCACACCAACTACCTCCAGAAATGGCCAGTTCTCTAGGTG
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 ACTGCGTTCTTTGTCAACTCCAGCTACCCGCCCCCTCCTCAGGCCAGAGCGAAAAGCCGACCTCATATCC
 ACCTCAACTACTGTGCTGGTCCCAGACAAAGCCCCTGAAACAACTGTGAGTACTGACTGTGCAGAA
 CATCCCCTTCCCCAAATACGAGCTGCCAGATGAGAATGAAAATCTCAAGGAATGCTACCTGATGGAGA
 CCCCAGGAACCCGATGCCCCATCGTGACTTTCTTCCACTCATCAATGACACTTCCGAAAATACAAGG
 CACCAGGTGTAGAGCGAAGCCCTGAGGAGCTGGAGCAGGGCCAGGTGGACATTTATGGTCCCAAACTCC
 CTATGCCACCAAGGAGCTGACATACACAGAGGCCACCTTTGACAAGCTGGTGAAGTCTCAGAGTATAAC
 ATCCTGAATAATAAGGACACTCTCTCCAGGCTCTGCGGCTCGCAGTGGAGAAGAAGAAGCGCTGAAGG
 GCCAGTGTCCCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233152 representing NM_001206670
Red=Cloning site Green=Tags(s)

MSLQASEGCPGLGTNVFVPQSPQTDEEGSRSGRSFSEFEDTQDLDTPLPFCMPAPWGSEEGLSpchll
TVRVIRMKNVRQADMLSQTDCFVSLWLPASQKKLRTRTISNCPNPEWNEsfNFQIQSRVKNVLELSVCD
EDTVTPDDHLLTVLYDLTKLCFRKKTHVKFPLNPQGMEELEVEFLLEESpSPPETLVtNGVLVSRQVSCl
EVHAQSRRRRKRKMKDILLVMVNESFENTQVRPCLEPCCPtSACFQTAACFHYPKYFQSQVHVEVPKSH
WSCGLCCRSRKGPIsQPLDCLSDGQVMtLPVGESYELHMKSTPCPETLDVRLGFSLCPAELEFLQKRKv
VVAKALKQVLQLEEDLQeDEVPLIAIMATGGGTRsMTSMYGHLLGLQKLNLLDCASyITGLSGATWtMAT
LYRDPDWSKNLEPAIFeARRHVVKDKLPSLFPDQLRKFQEELRQRSQEGYRVTFtDFWGLLIETCLGDE
RNECKLSDQRAALSCGQNPLPIYLtINVKDDVSNQDFREWFefSPYEVGLQKYGAFIPSElFGSEFFMGR
LVKRIPESRICYMLGLWSSIFSLNLLDAWNLsHTSEEFFHRWTREKvQDIEDEPIlPEIPKCDANIEtT
VVIPGSWLSNSFREILtHRSFVSEFHNLsGLQLHTNYLQNGQfSRWKDTVLDGFPNQLTESANHLCLLD
TAFfVNSSYPPLLRPERKADLIiHLNYCAGSQtKPLKQtCEYCTVQNIpFPKYELPDENENLKECYLMEN
PQEPDAPIVtFFPLINDtFRKYKAPGVERSPEELEqGQVDIYGPKTPYATKELTYTeATFDKLVKlSEYN
ILNnkDTLLQALRLAVEKKKRLKGQcPS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001206670

ORF Size: 2604 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:

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_001206670.1](#), [NP_001193599.1](#)

RefSeq Size: 4798 bp

RefSeq ORF: 2607 bp

Locus ID: 123745

UniProt ID: [Q3MJ16](#)

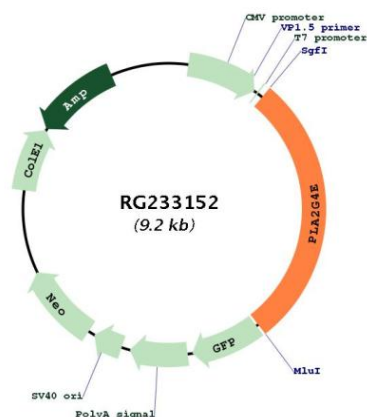
Cytogenetics: 15q15.1

Protein Pathways: alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway

MW: 99.2 kDa

Gene Summary: This gene encodes a member of the cytosolic phospholipase A2 group IV family. Members of this family are involved in regulation of membrane tubule-mediated transport. The enzyme encoded by this member of the family plays a role in trafficking through the clathrin-independent endocytic pathway. The enzyme regulates the recycling process via formation of tubules that transport internalized clathrin-independent cargo proteins back to the cell surface. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG233152

