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Product datasheet for RC233152

PLA2G4E (NM_001206670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLA2G4E (NM_001206670) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLA2G4E
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC233152 representing NM_001206670
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCTCCAGGCCTCGGAAGGCTGTCCTGGCCTGGGAACTAATGTGTTTGTCCCACAGAGCCCACAAA
CGGATGAAGAAGGCAGCAGGTCAGGAAGAAGTTTCAGTGAGTTCGAGGATACACAGGACCTGGACACTCC
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GCCAGTGTCCCTCC

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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC233152 representing NM_001206670
Red=Cloning site Green=Tags(s)

MSLQASEGCPGLGTNVFVPQSPQTDEEGSRSGRSFSEFEDTQDLDTPGLPPFCPMAPWGSEEGLSPCHLL
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EDTVTPDDHLLTVLYDLTKLCFRKKTHVKFPLNPQGMEELEVEFLLEESPSPPETLVTNGVLVSRQVSCL
EVHAQSRRRRKREKMKDLLVMVNESFENTQRVRPCLEPCCPTSACFQTAACFHYPKYFQSQVHVEVPKSH
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LYRDPDWSSKNLEPAIFEARRHVVKDKLPSLFPDQLRKFQEELRQRSQEGYRVTFTDFWGLLIETCLGDE
RNECKLSDQRAALSCGQNPLPIYLTINVKDDVSNQDFREWFEFSPYEVGLQKYGAFIPSELFGSEFFMGR
LVKRIPESRICYMLGLWSSIFSLNLLDAWNLSHTSEEFFHRWTREKVQDIEDEPILPEIPKCDANILETT
VVIPGSWLSNSFREILTHRSFVSEFHNFLSGLQLHTNYLQNGQFSRWKDTVLDGFPNQLTESANHLCLLD
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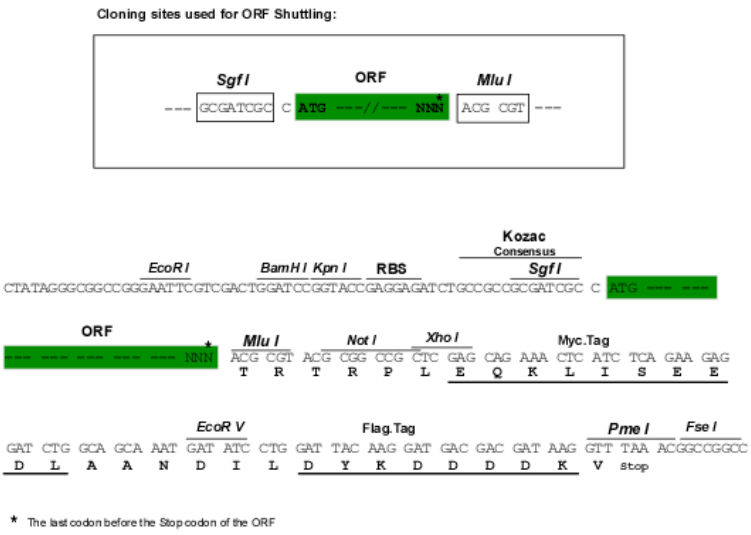
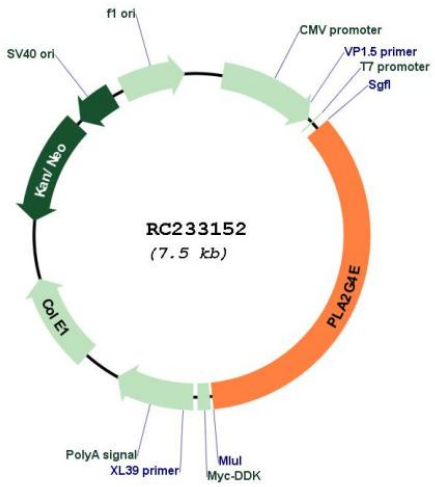
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	99.6 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]