

Product datasheet for **MR220245**

Pla2g4f (NM_001024145) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4f (NM_001024145) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g4f
Synonyms:	4732472I07Rik; Gm647; Pla2zeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220245 representing NM_001024145
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGGACTCTCCAGCCAAAGTGGCTGGCAGGCAAGGACTTCCCCTTCTTGGAGCCATACTGTACT
 GGAAGACAGAAAAGAGCGAACCACAATGGAAGCATAGGCCGCGAGGAAACCCACCCATACTACGACCTTCA
 AGTGAAGGTGCTGAGGGCCAGAAACATCCAGCACACAGATAAGTTGTCCAAAGCCGACTGCTATGTTTCA
 CTGTGGCTGCCACGGCTTCTGTAGCCCCAGTCAGACAAGGACAGTGGTTAACAGCAGTGATCCAGAAT
 GGAATGAGACCTTCCCTATCAGATCCACGGCGCTGTGAAGAAGTCTGGAGCTTGCCTTTATGACGA
 GGATGTCTGGACAGTGACAATGTCTTCTCCATTCTGTTTACACGAGTACTCTTCAGCTAGGCCAGCCT
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 AGACGCCTGCATCTGAAGTTGTCACCAATGGTGTCTGGTGGCTCACCCCTGTCTGAGAATTCAGGGCAC
 AGTCACTGGAGACAAGACAGCCTCCCTTGGAGAGTTGGGCTCCAGGCAGATCCAGCTGGCAGTGCCTGGG
 GCCTATGAAAAGCCACAGCCTCTGCAGCCAACCTCGGAGCCAGGCTCCCAAGTAACTTTACCTTCCAGG
 TGAACCCAGTGTCTGAGCCCAAGCTGCACATAAAGCTGCAAGAACAGCTCCAAGTCTTCCATAGTGGCC
 GAGTGTAGAGCTGGAAGCTCAGACCAGCAAGATGGACAAGGCAAGCATCCTGCTCTCCTCTCTGCCCTC
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 CAGGTACCTGTGGTAGCCGTGTTAGGCTCTGGGGTGAACAGAGCCATGACTTCCCTGTACGGCAGCC
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 TCAGAGCGAGTCTGCAGCAGTAAAATTGGGATGTGTCCCAAAGCAGTTTGAATACTACTCCCGGAAAA
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 TCACCCCTATGAGGTCGGTTTTCCCAAGTACGGGGCTTACGTTCCACGGAACCTTTGGCTCTGAATT
 CTTTATGGCCGGCTGTGCATTTCTGGCCAGAGCCCGCATCTGTTACCTGCAGGGTATGTGGGAAGT
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 CAGACTCTTACGCCAATGAGTTCCTTCTCAGGCTGTGCTGGACATATTCACCTCCCGTATTACTTGT
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 TGATCGGCTGGTACCCTGAGCCGATACAACGCTTGAACAACAAGGAGACTATCAGGCATGCCCTCCAG
 CTGGCTCTGGACCGGGCGGCAGGCTGGGGAAAGGTTGGGGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220245 representing NM_001024145
 Red=Cloning site Green=Tags(s)

MPWTLQPKWLAGKGLPLLGAILLRKTEKSEPQWKHRRQETHPYDYDLQVKVLRARNIQHTDKLSKADCYVR
 LWLPTASVSPSQTRTVVNSSDPEWNETFPYQIHGAVKNVLELALYDEDVLDSDNVFSILFDTSTLQLGQP
 CTKNFRQQDPKELEVEFTLEKSQTPASEVVTNGVLVAHPCLRIQGTVTGDKTASLGELGSRQIQLAVPG
 AYEKQPQLQPTSEPLPVNFTFHVNPVLSPKLHIKLEQLQVVFHSGPSDELEAQTSMKMDKASILLSSLPL
 NEELTKLVDLEEGQVSLRMKADMSSGDLDLRLGFDLGDGEQEFLLDKRKQVASKALQRVMGLSEALHCD
 QVPVAVLGSGGGTRAMTSLYGSAGLQELGLLDAVTYLSGVSGSSWCISTLYRDPSSWSQKALQGPICYA
 SERVCSSKIGMLSPKQFEYYSREKRAWESRGHMSFTDLWGLIIIEYFLNQEENPAKLSDQQETVSQGQNP
 YPIYASINVHKNISGDDFAEWCEFTPYEVGFPKYAYVPTELFGSEFFMGRLHFHWEPRICYLQGMWGS
 AFAASLYEIFLKLGLSLSFLDWHRGSVSVTDDWPKLRKQDPTRLPTLFTPMSSFSQAVLDIFTSRITC
 AQTFFNTRGLCMYKDYARKDFVVEDAWHSHNYGYPDACPQLTPMKDFLSLVDGGFAINSPFPLVLPQ
 QRAVDLIVSFDYSLEGPFEVLQVTEKYCRDRGIPFPRIEVDPKDSEDPRECYLFAEAEDPCSPVILHFPL
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 LALDRRRQAGGRVGG

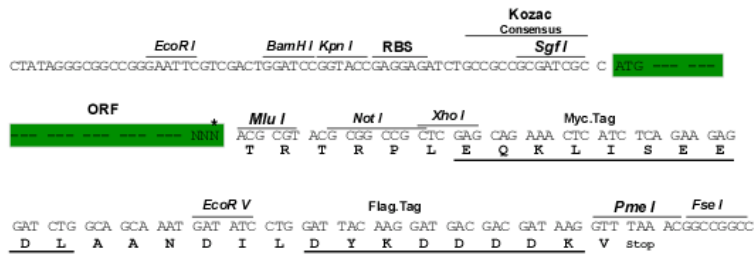
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

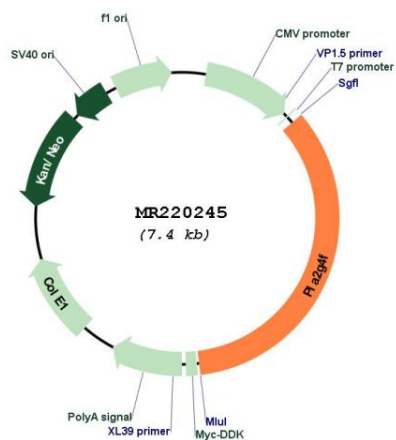
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001024145
ORF Size:	2565 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_001024145.3
RefSeq Size:	3125 bp
RefSeq ORF:	2568 bp
Locus ID:	271844
UniProt ID:	Q50L41
Cytogenetics:	2 E5
MW:	96.4 kDa
Gene Summary:	Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Has higher enzyme activity for phosphatidylethanolamine than phosphatidylcholine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220245