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Product datasheet for MR217443

Pla2g4e (NM_177845) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4e (NM_177845) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g4e
Synonyms:	2310026J01Rik; C230096D22; Pla2epsilon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR217443 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGTCTATTCCACACTCCGATGAAGCAGACGTGGCTGGGATGACCCACGCCTCAGAAGGCCACCATG
GCCTAGGGACCAGCATGCTTGTCCCACAGAACCCACAAGGGTCAGAAGACAGCAAGCCAGCAAGAAACTG
CAGTGGATTTGAAGATGCACAGGACCCACAGACTGCTGTGCCCTCACCTTTACTTCCCATGGCTTCTTGC
AGCTCTCAGGAGGGGTCATCTCCATGCCATCTGTTGACAGTGAGGATCATTGGCATGAAAAACGTCCGGC
AGGCTGATATACTGAGTCAGACAGACTGCTTTGTGACCCTCTGGCTGCCTACTGCCTCTCAGAAGAAGCT
GAAGACCAGAACCATCTCCAACTGCCTACACCCAGAGTGGGACGAAAGCTTCACCTTTCAGATCCAGACT
CAAGTAAAGAATGTGCTAGAGCTGAGCGTCTGTGACGAAGACACCCTGACACAAAATGACCATCTCTTGA
CAGTCCTCTATGACCTCTCTAAGCTCTGCCTCCGGAATAAAACCCATGTGAAGTTCCCACTCAACCCAGA
GGGCATGGAAGAACTGGAGGTGGAGTTCCTACTCGAAGAGAATTTCTCCTCATCAGAGACCCTCATCACC
AACGGCGTGCTGGTGTCTCGCCAAGTCTCTTGCCTGGAGGTTCATGCAGAATCCAGGAGGCCGAGGAAGA
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GGAGTAGCATCTTTTCCCTGAACCTGCTTGATGCCTGGAATTTGTCTCACACCTCAGAGGAGTTTTTCTA
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GATAACCCCCTAGAGACCACAGTAGTGATCCCAACGACATGGCTGTCCAACACCTTCCGAGAAATCCTCA
CACGCAGGCCCTTCGTGTCTGAGTTCCACAACTTCCTGTACGGGATGCAGCTGCATACTGACTACTTACA
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ACACCTTCCAGAAGTACAAGGCTCCAGGTGTAGAGCGAAGTCCTGACGAGCTGGAACTGGGCCAGCTGAA
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GTGAAGCTCTCAGAATATAATATCCTCAATAACAGAGATAAGCTCATTCAGGCCTTGAGACTAGCAATGG
AGAAGAAACGCATGAGGAGCCAGTGTCCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

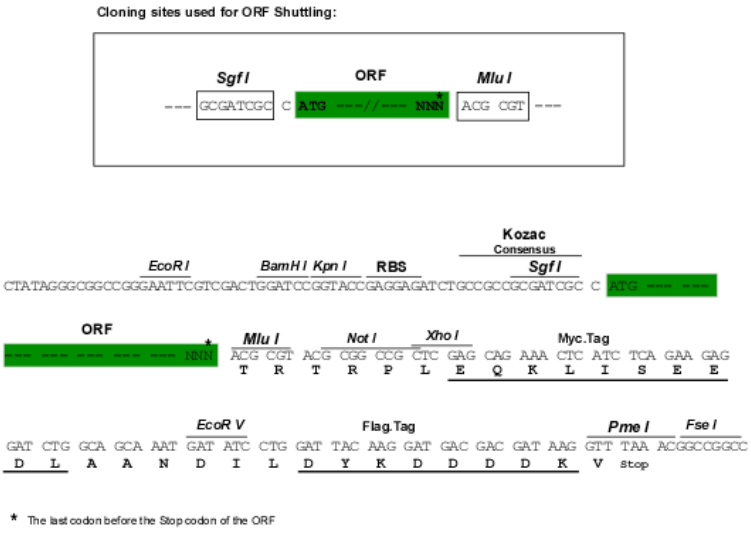
>MR217443 protein sequence
Red=Cloning site Green=Tags(s)

MQSIPHSDEADVAGMTHASEGHHGLGTSMLVPQNPQGSEDSKPARNCSGFEDAQDPQTAVPSPLLPMASC
SSQEGSSPCHLLTVRIIGMKNVRQADILSQTDCFVTLWLPTASQKKLKTRTISNCLHPEWDESFTFQIQT
QVKNVLELSVCDEDTLTQNDHLLTVLYDLSKLCLRNKTHVKFPLNPEGMEELEVEFLLEENFSSSETLIT
NGVLVSRQVSCLEVHAESRRPRKRKKNKDLLVMVTDSFENTQRVPPCREPCYPNSACFHYPKYSQPQLYA
EAPKSHCNFRLCCCGTHRNDPVCQPLNCLSDGQVTTLPVGENYELHMKSSPCSDTLDVRLGFNLCQEEVE
FVQKRKMVVAKTLSQMLQLEEGLHEDEVPIIAIMATGGGTRSMVSLYGHLLGLQKLNFLDTSTYITGLSG
ATWTMATLYSDPEWSSKNLETVVFEARRHVVKDKMPALFPDQLYKWREDLQKHSQEGYKTTFTDFWGKLI
EYSLGDKKNECKLSDQRAALCRGQNPLPIYLTINVKDDVSNQDFREWFEFSPYEVGMQKYGAFIPSELFG
SEFFMGRLMKRIPEPEMCYMLGLWSSIFSLNLLDAWNLSHTSEEFFYRWTRERLHDIEDDPILPEIPRCD
DNPLETTVVIPTTWLSNTFREILTRRPFVSEFHNFLYGMQLHTDYLQNRQFSMWKDTVLDTFPNQLTQFA
KHLNLLDTAFFVNSSYAPLLRPERKVDLIIHLNYCAGSQTKPLKQTCEYCTEQKIPFPSFSILEDDNSLK
ECYVMENPQEPDAPIVAYFPLISDTFQKYKAPGVERSPDELELGQLNIYGPKSPYATKELTYTEAAFDKL
VKLSEYNILNNRDKLIQALRLAMEKKRMRSQCPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

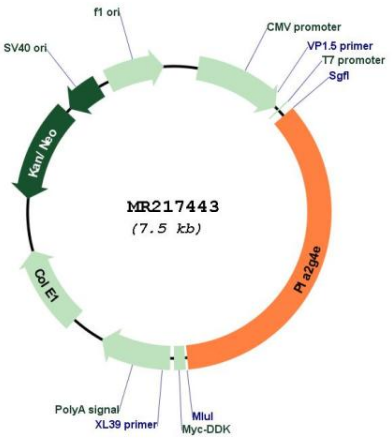
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_177845
ORF Size:	2625 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_177845.3, NM_177845.4, NP_808513.2
RefSeq Size:	4477 bp
RefSeq ORF:	2628 bp
Locus ID:	329502
UniProt ID:	Q50L42
Cytogenetics:	2 E5
MW:	100.1 kDa
Gene Summary:	Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217443