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Product datasheet for RR217171

Pla2g6 (NM_001270796) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g6 (NM_001270796) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g6
Synonyms:	iPla2; PNPLA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RR217171 representing NM_001270796
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGTTCTTTGGACGCCTCGTTAACACCCTCAGTAGTGTCACCAACTTGTTCTCAAACCCATTCCGGG
TAAAGGAGGTGTCCTTGGCTGACTATGCCTCAAGTGAACGTGTTCGAGAGGAAGGGCAGCTGATCCTGTT
GCAGAATGCTTCCAATCGTACCTGGGACTGTGTCCTGGTCAGCCCTAGGAACCCACAGAGTGGCTTCCGA
CTCTTCCAACTGGAGTCAGAGGCAGACGCCCTGGTGAACTTCCAGCAGTATTCCTCCCAGCTGCCACCGT
TCTATGAGAGCTCTGTGCAGGTCCTGCATGTGGAGGTGCTGCAGCACCTGACGGACCTCATTCGGAACCA
CCCCAGCTGGACAGTGACGCACCTGGCCGTGGAACTTGGCATTCGGGAGTGTTTCCATCACAGCCGCATC
ATCAGCTGCGCCAACAGCACAGAGAATGAGGAGGGCTGTACCCCACTACATCTGGCCTGCCGCAAGGGTG
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GCCGGCCTGAACCAGGTGAACAACCAAGGGCTGACGCCGCTGCACCTGGCCTGCCAGATGGGGAAGCAGG
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AGCAAGGATCCTCGCTATGGAGCCAGCCCGCTCCACTGGGCCAAGAACGCTGAGATGGCCCGAATGCTTC
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CAACCGCTTTGACTGTGTCATGGTGCTGCTGACCTATGGGGCCAACGCAGGTGCCCGAGGAGAGCATGGG
AACACACCACTGCATCTGGCCATGTCGAAAGATAACATGGAGATGGTCAAAGCCCTCATTGTATTTGGGG
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TCAGGACCTCATGCCCGTCTCCCGAGCCCGGAAGCCAGCGTTCATCCTGAGCTCCATGAGGGATGAGAAG
CGAAGCCATGACCACCTGCTCTGCTTGGATGGAGGGGGCGTGAAGGGCCTGGTCATCATCCAGCTTCTCA
TTGCCATTGAGAAGGCCTCAGGTGTGGCTACCAAGGACCTCTTCGACTGGGTGGCAGGAACCAGCACAGG
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CCAAACATTAACCTGAAGCCGCCCACCCAGCCTGCAGACCAGTTAGTATGGCGGGCAGCCCGGAGCAGTG
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ACTGGATGCCATGACTGAAATCCATGAGTACAATCAGGATATGATCCGCAAGGGCCAGGGCAACAAGGTG
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ATCCAGTACTTCAGGCTGAACCCCCAGCTAGGCTCAGACATCATGCTGGACGAGGTCAGTGATGCAGTGC
TGGTCAACGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGGGAGGAGTTCCAGAAGCTTGTCCA
GCTGCTGCTATCTCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

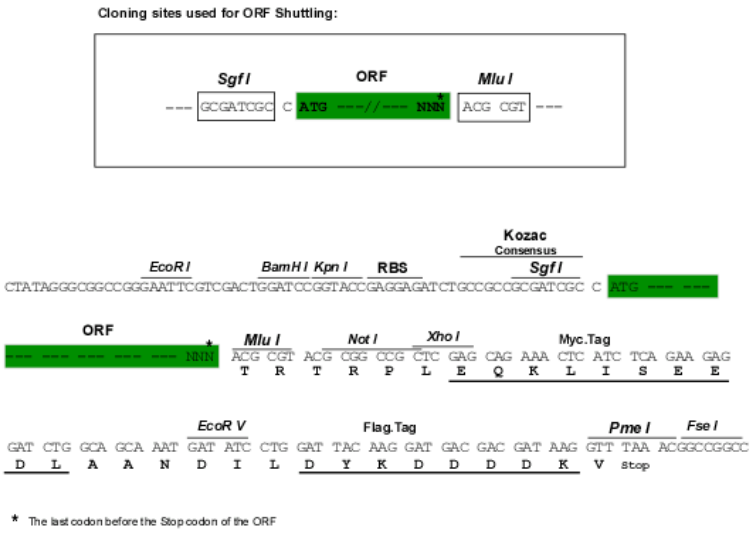
>RR217171 representing NM_001270796
Red=Cloning site Green=Tags(s)

MQFFGRLVNTLSSVTNLFSNPFRVKEVSLADYASSERVREEGQLILLQNASNRTWDCVLVSPRNPQSGFR
LFQLESEADALVNFQQYSSQLPPFYESSVQVLHVEVLQHLTDLIRNHPSWTVTHLAVELGIRECFHHSRI
ISCANSTENEEGCTPLHLACRKGDSEILVELVQYCHAQMDVTDNKGETAFHYAVQGDNPQVLQLLGKNAS
AGLNQVNNQGLTPLHLACQMGKQEMVRVLLLCNARCNIMGPGGFPIHTAMKFSQKGCAEMIISMDSNQIH
SKDPRYGASPLHWAKNAEMARMLLKRGCDVDSTSASGNTALHVAVTRNRFDCVMVLLTYGANAGARGEHG
NTPLHLAMSKDNMEMVKALIVFGAEVDTPNDFGETPAFIASKISKQLQDLMPVSRARKPAFILSSMRDEK
RSHDHLLCLDGGGVKGLVIIQLLIAIEKASGVATKDLFDWVAGTSTGGILALAILHSKSMAYMRGVYFRM
KDEVFRGSRPYESGPLEEFLKREFGEHTKMTDVKKPKVMLTGTLSDRQPAELHLFRNYDAPEAVREPRCT
PNINLKPPTQPADQLVWRAARSSGAAPTYFRPNGRFLDGGLLANNPTLDAMTEIHEYNQDMIRKGQGNKV
KKLSIVVSLGTGKSPQVPVTCVDVFRPSNPWELAKTVFGAKELGKMVVDCCTDPDGRAVDRARAWCEMVG
IQYFRLNPQLGSDIMLDEVSDAVLVNALWETEVYIYEHREEFQKLVQLLLSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270796

ORF Size: 2256 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_001270796.1, NP_001257725.1

RefSeq Size: 2992 bp

RefSeq ORF: 2259 bp

Locus ID: 360426

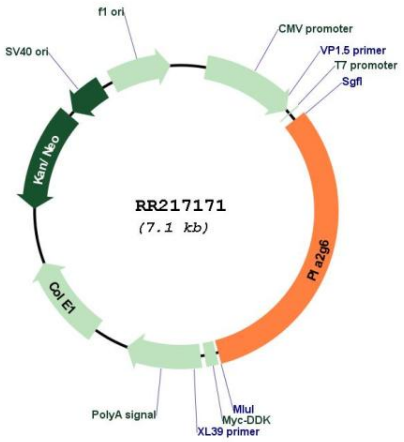
UniProt ID: P97570

Cytogenetics: 7q34

MW: 83.6 kDa

Gene Summary: has Ca2+ independent phospholipase A2 activity; may play a role in regulating transmembrane ionic fluxes in pancreatic beta cells [RGD, Feb 2006]

Product images:



Circular map for RR217171