

Product datasheet for **MR225571**

Pla2g4c (NM_001004762) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4c (NM_001004762) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g4c
Synonyms:	D7Ertd445e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225571 representing NM_001004762
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGA**ACT**AA**GC**TCTGGG**CT**GC**CT**GCC**ACT**AG**ACT**CCAG**GA**AGCAGAAAAGGCAGCTGTGCACA**AA**C
 GCAGTCCCAAGGTTTTGGAGGCTCTACGAAAGCTCAACATCCAAGCTGACCAGGCTCCAGTCATTGCTGT
 CTTGGGCTCTGGCGGGGGCTGCGGGCCACATCGCTTGTCTTGGTGTGCTGAGTGAGCTGAAAGAACTT
 GGCCTGTTGGATGCTGTACATACCTCGCAGGGGTCTCTGGTCCACTTGGGCACTGTCTTCACTCTACA
 CCAAGAA**T**GGAA**T**AGGAAGGGATAGAAAGAGGAGCTGAAACATCGGTATGAGAAGAA**T**GAGTGGGACTT
 TCATGAGAGCCTGGAGAAAGCCATCCAGGCATCAAAGAGGGAGA**TT**ACTCCCTGACTGACTTTTGGGCC
 TATTTAAT**T**GTTCCAGG**CAA**ATCAGAGAACTCAGGATTCGAATTTGCCAGTCTAAAGAAGCAAGTGG
 AAGAAGGAGTGTGCC**AT**CC**AT**CTTGCAGCCATTGATGAGGACCTTCTGGCTGATTGGAGGGAGAG
 GAAA**ACT**CAGAA**TT**CCTGGTTTGAAT**CT**CTCCTCATCATGCTGGCTACCTGC**ACT**TGGGCTTATGTC
 CCCATCACAGAGTTTGGAAAGCAGATTTGAGAATGGGAA**ACT**GGTTAAATCTGAGCCTGAGAGAGATTTGA
 CTTTCTGAGAGGTTTATGGGGAAGTGGTTTCTGATATTAAGAAATTAAGAATTATATTTTGA**ACT**A
 CTT**CAG**GAACCCCTTTGGAAAT**T**GAAGTTTATAGAAGGACCA**GT**GACATACTCAGAAGCACCAAGGATG
 AATG**T**GGATGCAATGCTCTTGGATTTAGTATGGCTTATTT**C**ACAGATATGAATGACCCAGCATCAAGG
 ATAAGCTCTGTGCCCTT**C**AGCAGGCTCTGGTACTGAGACAGATGAATTTGGCATAGAGATGGCTGAGAT
 CATCCAGAA**TT**GGAA**T**GAGACCTCCGCAGAGAAGAGGAGCAGTTTCTCGACCATCTGTTGGATCGCTT**C**
 AAGAAGACACAAGAAGACACCACCACATACAGTTT**G**ATGA**ACT**GGAACACGGGTCTAGTTTGGACCGTT
 GCGTTTTT**T**GAA**T**GAA**CT**CGCAAGTGTCTC**CAA**ATGGCAGTGGGAA**CT**GTTTACA**CT**CTCCTTA
 TAAACACGGTAA**AA**TTGCAGATGAGACCATGTGCAGCCGAGAGCTTCTCCATCTGGTGGATGCTGGTTTT
 GCCATCAACACTCC**CT**ATCCACTT**GT**CTGCTCCTGTGCGTGA**AA**CTCACCTCATCCTCTCATTGACT
 TCAGTGTGGGGACCCACTAGAGACCATCAGGGCCACAGCAGACTACTGCCAACGCCATGA**AT**CC**CT**T
 TCCTGAGGTGAGCGAGGATCAGCTGAAGGAATGGGCCAAAGCC**CA**AGCTGCTATGCTCAGAGGG
 GAAACAGGACCTGTTGTCATGC**ACT**TTACTCTGTTCAACAAGACA**ACT**GTGGAGATGATTTGAGACAT
 GGAGAAAA**AA**TATGGGACAGTAA**AA**CTATCTGACTCATACACCAGACCTGGT**G**AGAGATTTGCTGAG
 GGTATCCAAGGAGAA**T**GTAAGAAAA**CA**AAATTAATATCCTCAGT**G**AGATGAGGAAAGTGGCTGGGA**T**
 CCTGGGAACATCCAAGAGTGAACAAGGAGGCCTGCTTGGGAGACAGAGTGAAGGATCCCAAGGCTCT**C**
 AGACTGTGGAGTTAAGAAATCCCAACATATCTAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAA**ACT**CATCTCAGAAAGAGGATCTGGCAGCAA**T**GATATCCTGGAT**T**
 ACAAGGATGACGACGATAAGGTT**AA**

Protein Sequence:

>MR225571 representing NM_001004762
 Red=Cloning site Green=Tags(s)

MELSSGVC**P**ATRLQEA**E**KA**A**VHKRSPK**V**LEALRKL**N**IQADQ**A**PV**I**AVLGS**G**GLRA**H**IACL**G**VLSEL**K**EL
 GLLDA**V**TYLAGVSG**S**TWAL**S**SLYTK**N**GM**E**IEEELKHRYEK**N**WDFHESLE**K**AIQASKREN**S**Y**L**TDFWA
 YL**I**VS**R**Q**I**RELQDS**N**LSSLK**K**QVEEG**V**LPY**I**FA**A**ID**E**LLADWRER**K**TQNS**W**FE**F**PHHAGYPAL**G**AY**V**
 P**I**TEFGSR**F**ENG**K**L**V**KSEPER**D**L**T**FLR**G**L**W**S**A**FAD**I**E**K**IK**N**Y**I**L**N**YFR**N**PF**G**L**K**FI**E**GP**V**TYSE**A**PR**M**
 N**V**D**A**ML**L**DL**V**MAY**F**TD**M**ND**P**SI**K**DK**L**CA**L**Q**A**LG**T**ET**D**EF**G**IE**M**AE**I**I**Q**N**W**NET**S**A**E**K**K**EQ**F**LD**H**LL**D**RF
 K**K**T**Q**ED**T**TY**S**LM**N**W**N**T**G**L**V**W**D**RC**V**F**V**NE**T**R**K**CV**S**K**W**Q**W**GT**V**Y**N**FL**Y**K**H**G**K**I**A**DE**T**M**C**S**R**ELL**H**L**V**D**A**GF
 A**I**NT**P**Y**L**V**L**PP**V**RE**T**HL**I**LS**F**DF**S**AG**D**PLE**T**IR**A**T**A**D**Y**C**Q**R**H**E**I**PF**P**EV**S**ED**Q**L**K**E**W**A**K**A**P**AS**C**Y**V**LR**G**
 E**T**GP**V**VM**H**FT**L**FN**K**DN**C**GD**I**ET**W**R**K**Y**G**TV**K**LS**D**SY**T**P**D**L**V**RD**L**LR**V**SK**E**N**V**K**N**K**I**N**I**L**S**EM**R**K**V**AG**N**
 P**G**N**I**PR**V**N**K**E**A**CL**G**DR**V**K**D**P**Q**GS**Q**T**V**E**F**K**S**H**N**I**S**K**D**

TRTRPLE**Q**KL**I**SEED**L**A**N**D**I**L**D**Y**K**DDDD**K**V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004762

ORF Size: 1791 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_001004762.3](#), [NP_001004762.1](#)

RefSeq Size: 3374 bp

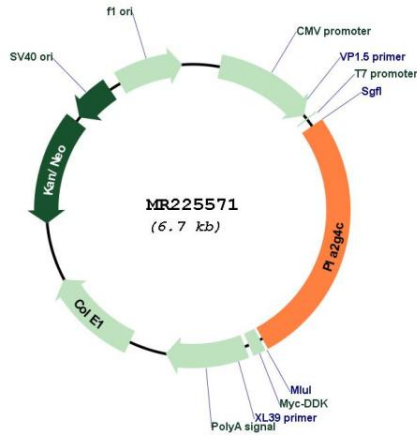
RefSeq ORF: 1794 bp

Locus ID: 232889

UniProt ID: [Q64GA5](#)

Cytogenetics: 7 7.84 cM
MW: 68.3 kDa
Gene Summary: Has a preference for arachidonic acid at the sn-2 position of phosphatidylcholine as compared with palmitic acid.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225571