

Product datasheet for **MG225572**

Pla2g4c (NM_001168504) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4c (NM_001168504) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pla2g4c
Synonyms:	D7Ertd445e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225572 representing NM_001168504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCTGTGCCGAGTCTCCAAATCACTACATAAGCGAAGCTCTGGGGTCTGCCCTGCCACTAGACTCC
 AGGAAGCAGAAAAGGCAGCTGTGCACAAACGCAGTCCCAAGGTTTTGGAGGCTCTACGAAAGCTCAACAT
 CCAAGCTGACCAGGCTCCAGTCATTGCTGTCTTGGGCTCTGGCGGGGGCTGCGGGCCACATCGCTTGT
 CTTGGTGTGCTGAGTGAAGTCTGAAAGAATTGGCCTGTTGGATGCTGTACATACCTCGCAGGGGTCTCTG
 GGTCCACTTGGGCACTGTCTTCACTCTACACCAAGAATGGAAATATGGAAGGGATAGAAGAGGAGCTGAA
 ACATCGGTATGAGAAGAATGAGTGGGACTTTCATGAGAGCCTGGAGAAAGCCATCCAGGCATCAAAGAGG
 GAGAATTACTCCCTGACTGACTTTTGGCCTATTTAATTGTTTCCAGGCAAAATCAGAGAACTTCAGGATT
 CGAATTTGTCCAGTCTAAGAAGCAAGTGAAGAAGGAGTGTGCCCTATCCCATCTTTCAGCCATTGA
 TGAGGACCTTCTGGCTGATTGGAGGGAGAGGAAAACCTCAGAATTCCTGGTTTGAATTCACCTCATCAT
 GCTGGCTACCTGCACCTTGGGGCTTATGTCCCATCACAGAGTTTGAAGCAGATTTGAGAATGGGAAAC
 TGGTTAAATCTGAGCCTGAGAGAGATTTGACTTTCCTGAGAGGTTTATGGGGAAGTGCTTTTGTGATAT
 TAAAGAAATTAAGAATTATTTTGAAGTACTTTCAGGAACCCCTTTGGAAAATTGAAGTTTATAGAAGGA
 CCAGTGACATACTCAGAAGCACAAGGATGAATGTGGATGCAATGCTCTTGGATTTAGTGATGGCTTATT
 TCACAGATATGAATGACCCAGCATCAAGGATAAGCTCTGTGCCCTTTCAGCAGGCTCTGGTACTGAGAC
 AGATGAATTTGGCATAGAGATGGCTGAGATCATCCAGAATTGGAATGAGACCTCCGCAGAGAAGAAGGAG
 CAGTTTCTCGACCATCTGTTGGATCGCTTCAAGAAGACACAAGAAGACACCACCACATACAGTTTGATGA
 ACTGGAACACGGGTCTAGTTTGGGACCGTTGCGTTTTTGTGAATGAAACTCGCAAGTGTGTCTCCAATG
 GCAGTGGGGAAGTGTTCACAACTTCTCTATAAACACCGTAAAAATTCAGATGAGACCATGTGCAGCCGA
 GAGCTTCTCCATCTGGTGGATGCTGTTTTGCCATCAACACTCCCTATCCACTTGTCTGCCTCCTGTGC
 GTGAAACTCACCTCATCTCTCATTGACTTCAGTGTGGGACCCACTAGAGACCATCAGGGCCACAGC
 AGACTACTGCCAACGCCATGAAATCCCCTTTCCTGAGGTGAGCGAGGATCAGCTGAAGGAATGGGCCAAA
 GCCCCAGCAAGCTGCTATGTCTCAGAGGGGAAACAGGACCTGTTGTGCATGCACTTTACTCTGTTCAACA
 AAGACAAGTGTGGAGATGATATTGAGACATGGAGAAAAAATATGGGACAGTAAACTATCTGACTCATA
 CACACCAGACCTGGTGAAGATTTGCTGAGGGTATCCAAGGAGAATGTGAAGAAAAACAAAATTAATATC
 CTCAGTGAGATGAGGAAAGTGGCTGGGAATCCTGGGAACATCCCAAGAGTGAACAAGGAGGCTGCTTGG
 GAGACAGAGTGAAGGATCCCAAGGCTCTCAGACTGTGGAGTTTAAAGAAATCCCAACATATCTAAGGA
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225572 representing NM_001168504
 Red=Cloning site Green=Tags(s)

MSCAESPKSLHKRSSGVCATRLQEAEEAAVHKRSPKVLALRKLNIQADQAPVIAVLGSGGGLRAHIAC
 LGVLSSELKELGLLDAVTYLAGVSGSTWALSSLYTKNGNMEGIEEELKHRYEKNEWDFHESLEKAIQASKR
 ENYSLTDFWAYLIVSRQIRELQDSNLSSLKKQVEEGLPYPIFAAIDEDLLADWRERKTQNSWFEPH
 AGYPALGAYVPITEFGSRFENGKLVKSEPERDLTFLRGLWGSFAADIKEIKNYILNYFRNPFGLKFIG
 PVTYSEAPRMNVDAMLLDLVMAFYFDMNDPSIKDKLCALQALGTETDEFGIEMAEIIQNWNETSAEKKE
 QFLDHLDRFKKTQEDTTTYSLMNWNTGLVWDRCVFVNETRKCYSKWQWGTVYNFLYKHGKIADETMCSR
 ELLHLVDAGFAINTPYPLVLPVRETHLILSFDLSAGDPLETIRATADYQQRHEIPFPEVSEDQLKEWAK
 APASCYVLRGETGPVVMHFTLFNKDNCDDIETWRKKGTVKLSDSYTPDLVRDLLRVSKENVKKNKINI
 LSEMRKVAGNPGNIPRVNKEACLGDRVKDPQGSQTVEFKKSHNISKD

TRTRPLE - GFP Tag - V

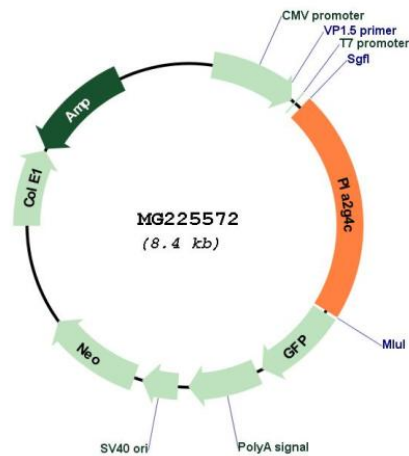
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001168504

ORF Size: 1821 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_001168504.1 , NP_001161976.1
RefSeq Size:	3390 bp
RefSeq ORF:	1824 bp
Locus ID:	232889
UniProt ID:	Q64GA5
Cytogenetics:	7 7.84 cM
Gene Summary:	Has a preference for arachidonic acid at the sn-2 position of phosphatidylcholine as compared with palmitic acid.[UniProtKB/Swiss-Prot Function]