

Product datasheet for **MG217443**

Pla2g4e (NM_177845) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Pla2g4e (NM_177845) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Pla2g4e |
| Synonyms: | 2310026J01Rik; C230096D22; Pla2epsilon |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG217443 representing NM_177845
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGTCTATTCCACACTCCGATGAAGCAGACGTGGCTGGGATGACCCACGCCTCAGAAGCCACCATG
 GCCTAGGGACCAGCATGCTTGTCCACAGAACCCACAAGGGTCAGAAGACAGCAAGCCAGCAAGAACTG
 CAGTGGATTTGAAGATGCACAGGACCCACAGACTGCTGTGCCCTCACCTTTACTTCCCATGGCTTCTTGC
 AGCTCTCAGGAGGGGTACTCTCCATGCCATCTGTTGACAGTGAGGATCATTGGCATGAAAAACGTCCGGC
 AGGCTGATATACTGAGTCAGACAGACTGCTTTGTGACCTCTGGCTGCCTACTGCCTCTCAGAAGAAGCT
 GAAGACCAGAACCATCTCCAACCTGCCTACACCCAGAGTGGGACGAAAGCTTCACCTTTCAGATCCAGACT
 CAAGTAAAGAATGTGCTAGAGCTGAGCGTCTGTGACGAAGACACCCTGACACAAAATGACCATCTCTTGA
 CAGTCTCTATGACCTCTCTAAGCTCTGCCTCCGGAATAAAACCCATGTGAAGTCCCACTCAACCCAGA
 GGCATGGAAGAACTGGAGGTGGAGTTCCTACTCGAAGAGAATTTCTCCTCATCAGAGACCTCATCACC
 AACGGCGTGTGGTGTCTCGCCAAGTCTCTTGCCTGGAGGTTTCATGCAGAATCCAGGAGGCCGAGGAAGA
 GGAAGAAAAACAAGACCTTCTGGTGATGGTGACAGACTCCTTCGAGAACACCCAGCGTGTCCCGCCTTG
 CCGGGAGCCCTGCTACCCCAATTCTGCCTGCTTCCACTACCCCAAGTACTCCAGCCACAGCTTTACGCA
 GAGGCGCTAAGAGCCACTGTAACCTTAGGCTTTGCTGTGCGGAACACACAGGAATGACCTGTCTGCC
 AGCCCCCAATTGCCTTCTGATGGCCAGGTGACAACCTGCCTGTGGGAGAGAAGTATGAGCTACACAT
 GAAGTCTCACCTGTCTGACACACTGGATGTGCGGCTTGGATCAACCTGTGCCAGGAAGAGGTGGAG
 TTTGTGCAGAAGCGGAAGATGGTGGTGGCAAGACACTAAGTCAGATGCTGCAGCTGGAGGAAGCCCTGC
 ATGAGGATGAGGTACCGATAATAGCCATCATGCCACAGGAGGTGGCACAAGTCTATGGTCTCCTTGTG
 TGCCACCTGCTGGGGTTGCAGAAGCTGAACCTTCTGGACACTTCTACTTACATCACCGCTTGTCAAGT
 GCAACCTGGACTATGGCTACCTGTACAGTGATCCTGAGTGGTCTCCTCAAAAACCTGGAGACTGTTGCT
 TTGAGGCCCGGAGACATGTTGTCAAAGACAAGATGCCTGCCCTGTTCCAGATCAGCTCTACAAATGGCG
 AGAGGACCTCCAAAAGCATAGCCAGGAGGGCTATAAGACCACGTTTACAGACTTTTGGGGCAAGCTGATC
 GAGTACAGTCTGGGAGATAAAAAAACGAATGCAAGCTGTGAGTACAGGAGCTGCTCTGTGCCGGGAC
 AGAACCTCTGCCATCTACCTCACCATCAATGTCAAGGATGATGAAGCAACCAGGATTCAGAGAATG
 GTTCGAGTCTCCCCCTACGAGGTGGGCATGCAGAAGTACGGAGCCTTCATCCCCAGCGAGTTATTTGGC
 TCCGAGTCTTTCATGGGGCGGCTGATGAAGAGGATTCCTGAGCCGAGATGTGCTACATGCTAGGTTGT
 GGAGTAGCATCTTTCCCTGAACCTGCTTGTGCTGGAATTTGTCTCACACCTCAGAGGAGTTTTTCTA
 TAGGTGGACAAGGGAGAGACTGCATGACATCGAAGATGATCCCATCCTGCCTGAAATCCCTAGGTGTGAC
 GATAACCCCTAGAGACCACAGTGTGATCCCAACGACATGGCTGTCCAACACCTTCCGAGAAATCCTCA
 CACGAGGCCCTTCGTGTCTGAGTTCACAACCTCCTGTACGGGATGCAGCTGCATACTGACTACTTACA
 GAACAGACAGTCTCTATGTGGAAAGACACAGTACTGGACACCTTCCAAAACAGCTGACACAGTTTGA
 AAACACCTGAACCTGTGGACTGCGTCTTTGTCAACTCCAGTACGCACCCCTCCTCAGGCCAGAGA
 GAAAAGTCGACCTTATCATCCACCTCAATTACTGCGCAGGATCCAGACAAAAGCCCTGAAACAAACCTG
 TGAGTACTGTACCGAGCAGAAGATCCCTTCCAGCTTCTCCATCCTGGAAGATGACAACAGTCTCAAG
 GAGTGTACGTGATGGAGAATCCCGAGGACCCGACGCCCCATCGTGGCTTACTTCCCACTCATCAGTG
 ACACCTTCCAGAAGTACAAGGCTCCAGGTGTAGAGCGAAGTCTGACGAGCTGGAAGTGGGCCAGCTGAA
 CATCTATGGACCAAAGTCTCCCTATGCCACCAAGGAGCTGACGTACACAGAGGCCGCTTCGACAAGCTG
 GTGAAGCTCTCAGAATATAATATCCTCAATAACAGAGATAAGCTCATTACGGCCTTGAGACTAGCAATGG
 AGAAGAAACGCATGAGGAGCCAGTGTCCCTCC

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG217443 representing NM_177845
 Red=Cloning site Green=Tags(s)

MQSIPIHSDEADVAGMTHASEGHHGLGTSMLVPQNPQGSSEDSKPARNCSGFEDAQDPQTAVPSPLLPMASC
 SSQEGSSPCHLLTVRIIGMKNVRQADILSQTDCFVTLWLPTASQKCLKTRTISNCLHPWEDESFTFQIQT
 QVKNVLELSVCEDETLTQNDHLLTVLYDL SKLCLRNKTHVKFPLNPEGMEELEVEFLLEENFSSSETLIT
 NGVLVSRQVSCLEVHAESRRPRKRKKNKDLLVMVTDSEFENTQRVPPCREPCYPNSACFHYPKYSQPQLYA
 EAPKSHCNFRLCCGTHRNDPVCQPLNCLSDGQVTTLPVGENYELHMKSSPCSDTLDVRLGFNLCEEEVE
 FVQKRKMVVAKTLSQLQLEEGLHEDEVPIIAIMATGGGTRSMVSLYGHLLGLQKLNFLDTSTYITGLSG
 ATWTMATLYSDPEWSSKNLETVVFEARRHVVKDKMPALFPDQLYKWREDLQKHSQEGYKTTFTDFWGKLI
 EYSLGDKKNECKLSDQRAALCRGQNPLPIYL TINVKDDVSNQDFREWFESPYEVMQKYGAFIPSEIFG
 SEFFMGRMLMKRIPEPEMCMYMLGLWSSIFSLNLLDAWNLSHTSEFFYRWTRERLHDIEDDPIPEIPRCD
 DNPLETTVVIPPTWLSNTFREILTRRPVSEFHNFLYGMQLHTDYLQNRQFSMWKDTVLDTFPNQLTQFA
 KHLNLLDTAFFVNSSYAPLLRPERKVDLIIHLNYCAGSQTKPLKQTCEYCTEQKIPFSPFSILEDDNSLK
 ECYVMENPQEPDAPIVAYFPLISDTFQKYKAPGVERSPELELQQLNIYGPKSPYATKELTYTEAAFDKL
 VKLSEYNILNNRDKLIQALRLAMEKMRMSQCPS

TRTRPLE - GFP Tag - V

Restriction Sites:

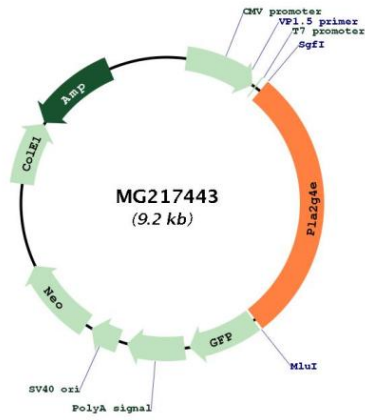
Sgfl-MluI

Cloning Scheme:



| | |
|-------------------------------|--|
| ACCN: | NM_177845 |
| ORF Size: | 2625 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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_177845.4 , NP_808513.2 |
| RefSeq Size: | 4477 bp |
| RefSeq ORF: | 2628 bp |
| Locus ID: | 329502 |
| UniProt ID: | Q50L42 |
| Cytogenetics: | 2 E5 |
| Gene Summary: | Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position.[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MG217443