

Product datasheet for **MG201069**

Pla2g2c (NM_008868) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pla2g2c (NM_008868) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Pla2g2c
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG201069 representing NM_008868
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGCATTGCTGTCTTCTTGTCTTCATCTTCTACTGGACAACCTCCACCCTCAGCAGTTTCTGGC
 AGTTCCAGAGGATGGTCAAACACGTCACAGGGCGCAGCGCCTTCTTCTCTATTACGGATATGGCTGCTA
 CTGTGGGCTTGGGGCAAAGGGCTCCCTGTGGATGCCACAGACAGGTGCTGCTGGGCTCATGACTGCTGC
 TACCACAAGCTTAAGGAATATGGCTGCCAACCCATCTTGAATGCCTACCAGTTACCATTGTCAATGGGA
 CGGTGACCTGTGGATGCACCGTGGCCAGCAGTCGCCTCTGCGGGCAGAAGGCCTGTGAGTGTGACAAACA
 GTCTGTGTACTGCTTCAAGGAGAACCTGGCCACCTACGAGAAGGCCTTCAAGCAGCTCTCCCGACCAGG
 CCTCAGTGTGGCAGGGACAAACTCCAGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201069 representing NM_008868
 Red=Cloning site Green=Tags(s)

MKGIAVFLVIFIFYWTTSTLSSFQFQRMVKHVTGRSAFFSYYGYGICYGLGGKGLPVDATDRCCWAHDCC
 YHKLKEYGCQPILNAYQFTIVNGTVTCGCTVASSCLCGQKACECDKQSVYCFKENLATYEFKQFLFPTR
 PQCGRDKLQC

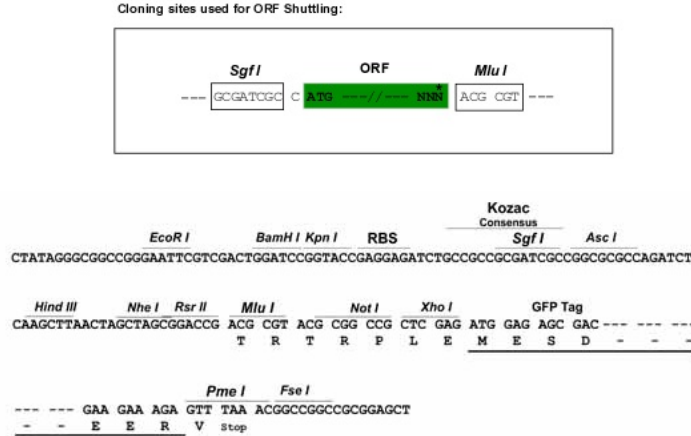
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

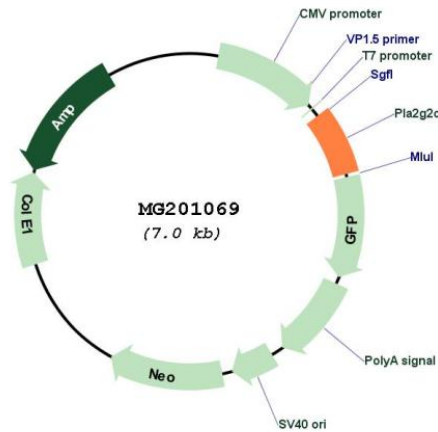


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Cloning Scheme:



Plasmid Map:



ACCN: NM_008868

ORF Size: 450 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_008868.1 , NP_032894.1
RefSeq Size:	1445 bp
RefSeq ORF:	453 bp
Locus ID:	18781
UniProt ID:	P48076
Cytogenetics:	4 70.54 cM
Gene Summary:	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Testis PA2 may be important in the production of prostaglandins, by the release of arachidonic acid, which in turn are necessary for the contractions of the seminiferous tubules and the testicular capsule; they also seem to decrease sperm transit time through the male reproductive tract.[UniProtKB/Swiss-Prot Function]