

## Product datasheet for **MG207283**

### Pla1a (NM\_134102) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pla1a (NM_134102) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pla1a
Synonyms:	AA986889; Ps-pla1; Pspla1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207283 representing NM\_134102  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGTCTGGCCTCTGGGAGACATGCTTCTGGTTGTGGGACCCTTTTATGGCTCAGCATTGGAAGTT  
 CAGGGAACGTACCCCTACCACCAACCAAGTGCACGGACTTTCAGAGTGCCAACCTCCTCCGAGGCAC  
 CAACCTCAAGGTGCAGTTTCTCCTCTTTACCCCTCGGACCCAGCTGTGGGAGCTAGTAGAAGAAGGC  
 AGTGACATCCGGAGCTCTGAGTTCAACGCCAGTCTGAGAACAAAGTAATTATTCATGGATTCAGGGCGC  
 TCGGAACAAAGCCTTCTGGATCGACAAGTTTATCAGCGCTGTCTGCGGGCTGCGGATGCTAATGTAAT  
 CGCGGTGGACTGGGTTTATGGTTCTACGGGCGTACTACTCAGCAGTGGAGAATGTGGTCAAGCTGAGC  
 CTGGAGATCTCCGTTTCTCAGCAAATTTGGAGCTGGGCGTGTGAGTCTCAATCCACATCATTG  
 GTGTCAGTCTGGGGCTCATGTTGGAGGCATGGTGGGACATTTCTACAAAGGCCAGTTGGGACAGATCAC  
 AGGTCTGGATCCTGCTGGACCAGAGTACACCAGAGCCAGCTGGAGGAACGCTTGGATGCTGGAGACGCC  
 CTGTTTGTAGAAGCCATCCACACAGACACGGACAATTTGGGTATCCGGATTCCTGTTGGACATGTGGACT  
 ACTTTGTCAATGGAGGCCAAGACCAGCCTGGATGCCCTGCCTTCTTTCACGCAGGTTACAATTACTTGAT  
 CTGTGATCACATGAGGGCAGTACACCTCTACATCAGTGCCTGGAGAACCTGCCACTGATGGCCTTC  
 CCCTGTGCCAGCTACAAGGCCTTCTCGCAGGAGACTGTCTGGATTGCTTTAACCCCTTCTGCTCTCCT  
 GTCCGAGGATTGGACTGGTGAACGAGGTGGTGTGATGATTGAGCCGCTCCCAAGGAAGTGAAGGTTTA  
 TCTCCTGACTACATCCAGTGCCCGTACTGTGTGCCACACAGCCTTGTGGAGTTTATTTGAAGGAGAAG  
 AGAAAAAGGATACCAGCATCGAGGTACGTTTCTTAGCAACAACGTAACTCCTCGGTCAAGATCACCA  
 TACCTAACACGCAACTGGAAGGGAGAGGGGTGATGGCTCATCTAACCCACAGTGCCAGATAACCAAGT  
 GAAGCTCAAGTTCCAAGTTTCTAGCCGGTGGGAGAAAAGACAGAACTCCTGTTGTTGGGACTTCTGT  
 ACTGCCCTCTGCCGCTCAATGACAGCAAGAAGACGGTCTGCATACCTGAGCCAGTGCCTGCAAGCAG  
 GCGTGCCTGCTTCCAGGACCTGAAAATAGCCTGCGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207283 representing NM\_134102  
 Red=Cloning site Green=Tags(s)

MRPGLWETCFWLWGPLLWLSIGSSGNVPPTTQPKCTDFQSANLLRGTNLKVQFLLFTSPDPSGQLVEEG  
 SDIRSSEFNASLRKVIHGFALGKPSWIDKFI SAVLRAADANVIAVDWVYGSTGVVYSAVENNVKLS  
 LEISRFLSKLLELGVSESSIHIIGVSLGAHVGGMVGHFYKQQLGQITGLDPAGPEYTRASLEERLDAGDA  
 LFVEAIHTDNDLIRIPVGHVDYFVNGGQDQPGCPAFFHAGYNYLICDHMRVHLYISALENTCPLMAF  
 PCASYKAFLAGDCLDFNPFLSCPRIGLVERGGVMIIEPLPKEVKVYLLTSSAPYCVHHSLEVFYLKEK  
 RKKDTSIEVTFLSNNVTSSVKITIPKQLEGRGVMHPNPQCQINQVKLKFQVSSRWKDRTPVVGTF  
 TAPLPVNDSSKKTVCIEPEPVRVLRQAGVPAFQDLKIACV

**TRTRPLE** - GFP Tag - V

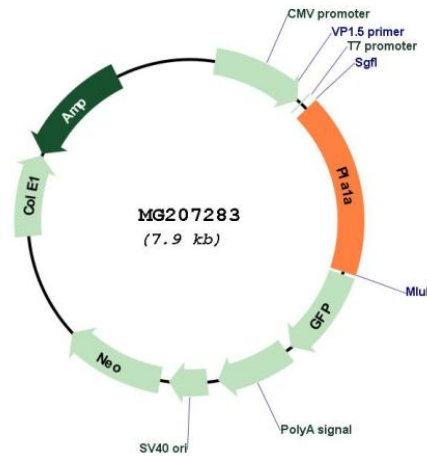
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_134102

ORF Size:

1368 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134102.1</a>
<b>RefSeq Size:</b>	1995 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	85031
<b>UniProt ID:</b>	<a href="#">Q8VI78</a>
<b>Cytogenetics:</b>	16 26.83 cM
<b>Gene Summary:</b>	Hydrolyzes the ester bond at the sn-1 position of glycerophospholipids and produces 2-acyl lysophospholipids. Hydrolyzes phosphatidylserine (PS) in the form of liposomes and 1-acyl-2 lysophosphatidylserine (lyso-PS), but not triolein, phosphatidylcholine (PC), phosphatidylethanolamine (PE), phosphatidic acid (PA) or phosphatidylinositol (PI). Hydrolysis of lyso-PS in peritoneal mast cells activated by receptors for IgE leads to stimulate histamine production (By similarity).[UniProtKB/Swiss-Prot Function]