

Product datasheet for **MG225901**

Pla2g15 (NM_133792) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g15 (NM_133792) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pla2g15
Synonyms:	ACS; C87498; LLPL; Lpla2; Lypla3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225901 representing NM_133792 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCGCCATCTCTGCACCTGTCGGAGACCCAGCTCCGGAGTGGCCTCCTGTTACCTCTGTTTCTAC
TAATGATGCTGGCAGACCTGACGCTCCCGGCCAACGTCAACCCCGGTGGTGCCTGGTGATTT
GGGTAACCAAGTTGGAAGCAAAGCTGGATAAGCCAAAGTTGTACACTACCTTTGCTCCAAGAAGACGGAC
AGCTACTTCACACTCTGGCTGAATCTGGAAGTCTTCTGCCTGTTATCATTGACTGCTGGATTGACAATA
TCAGGCTGGTTTACAACAGAACATCTCGGGCCACCCAGTTTCCCGATGGTGTGGACGTGCGTGTCCCTGG
CTTTGGGAAACATTTTCTATGGAATTCCTAGACCCAGCAAGAGGAATGTGGGTTCCATTTCTACACT
ATGGTGGAGAGCCTTGTGGGCTGGGGCTACACACGGGGTGAAGACGTTTCGAGGTGCTCCCTATGATTGGC
GGCGAGCCCCAAATGAAAACGGGCCCTACTTCTGGCCCTGCGAGAGATGATCGAGGAGATGACCAGAT
GTATGGGGGCCCGTGGTGTGCTGGTCGCCACAGCATGGGCAACGTGTACATGCTCTACTTTCTGCAGCGG
CAGCCACAAGTCTGGAAGGACAAATATATCCATGCCTTCGTCTCACTGGGGGCCCTGGGGGGCGTGG
CCAAGACGCTGCGTGTCTGGCCTCAGGAGACAACAATCGCATTCCCGTCATTGGGCCACTGAAGATCCG
GGAACAGCAGCGATCTGCCGTCTCTACCAGCTGGCTACTGCCATACAACCACACTTGGTCACATGAAAAG
GTATTTGTATACACCCACGACTAACTACACGCTCCGGGACTACACCGTTTCTCCGGGACATCGGTT
TCGAAGATGGCTGGTTTCATGCGGCAGGACACAGAAGGGCTGGTTGAAGCCATGACGCCACCCGGGGTGG
GCTGCACTGCTTGTATGGCACTGGTGTCCACGCCAAACTCTTTCTACTACGAGAGCTTTCCTGATCGG
GACCCCAAATCTGCTTCGGCGATGGTACGGCACGGTGAACCTGGAGAGCGTCTGCAGTGCCAAGCCT
GGCAGAGCCGCCAAGAGCACAGAGTATCATTGCAGGAGCTGCCGGGAAGCGAGCACATTGAGATGCTAGC
CAATGCCACCACCTTGGCTTATCTGAAACGTGTGCTTCTGGAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225901 representing NM_133792
Red=Cloning site Green=Tags(s)

MDRHLCTCRETQLRSGLLLPLFLLMMLADLTLPQRHPPVVLVPGDLGNQLEAKLDKPKVVHYLCSKKT
 SYFTLWLNLELLLPVIIDCWIDNIRLVYNRTSRATQFPDGVDRVPGGETFSMEFLDPSKRNVGSYFY
 MVESLVGWSYTRGEDVRGAPYDWRRAPNENGPYFLALREMIEMYQMYGGPVVLVAHSMGNVYMLYFLQR
 QPQVWKDKYIHAFVSLGAPWGGVAKTLRVLASGDNNRIPVIGPLKIREQQRSAVSTSWLLPYNHTWSHEK
 VFVYPTTNYTLRDYHRFFRDIGFEDGWFMRQDTEGLVEAMTPPGVELHCLYGTGVPPTNSFYYESFPDR
 DPKICFGDGDGTYNLESVLQCQAWQSRQEHRVSLQELPGSEHIEMLANATTLAYLKRVLLEP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133792

ORF Size: 1236 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_133792.3](#)

RefSeq Size: 2721 bp

RefSeq ORF: 1239 bp

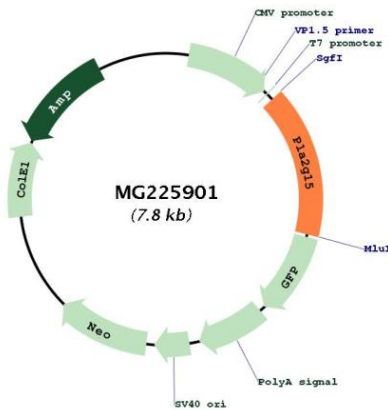
Locus ID: 192654

UniProt ID: [Q8VEB4](#)

Cytogenetics: 8 D3

Gene Summary: Has transacylase and calcium-independent phospholipase A2 activity. Catalyzes the formation of 1-O-acyl-N-acetylsphingosine and the concomitant release of a lyso-phospholipid (PubMed:11790796, PubMed:16106046, PubMed:16880524, PubMed:19017977, PubMed:20410020). Has high activity with 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (POPC) and 1,2-dioleoyl-sn-glycero-3-phosphocholine (DOPC), catalyzing the transfer of oleic acid to N-acetyl-sphingosine (PubMed:16880524). Required for normal phospholipid degradation in alveolar and peritoneal macrophages and in spleen (PubMed:16880524, PubMed:19017977).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225901