

## Product datasheet for **MC212446**

### Pla2g15 (NM\_133792) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Pla2g15 (NM_133792) Mouse Untagged Clone                      |
| Tag:                      | Tag Free  |
| Symbol:                   | Pla2g15   |
| Synonyms:                 | ACS; C87498; LLPL; Lpla2; Lypla3                              |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >MC212446 representing NM_133792<br>Red=Cloning site Blue=ORF |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGATCGCCATCTCTGCACCTGTCGGAGACCCAGCTCCGGAGTGGCCTCCTGTTACCTCTGTTTCTAC  
TAATGATGCTGGCAGACCTGACGCTCCCGGCCAACGTCACCCCGGTGGTGTGGTGCCTGGTGATTT  
GGGTAACCAAGTTGGAAGCAAAGCTGGATAAGCCAAAGTTGTACACTACCTTTGCTCCAAGAAGACGGAC  
AGCTACTTCACACTCTGGCTGAATCTGGAAGTCTTCTGCCTGTTATCATTGACTGCTGGATTGACAATA  
TCAGGCTGGTTACAACAGAACATCTCGGGCCACCCAGTTTCCCGATGGTGTGGACGTGCGTGTCCCTGG  
CTTTGGGGAAACATTTTCTATGGAATTCCTAGACCCAGCAAGAGGAATGTGGGTTCCATTTCTACACT  
ATGGTGGAGAGCCTTGTGGGCTGGGGCTACACACGGGGTGAAGACGTTTCGAGGTGCTCCCTATGATTGGC  
GGCGAGCCCAAATGAAAACGGGCCCTACTTCTGGCCCTGCGAGAGATGATCGAGGAGATGTACCAGAT  
GTATGGGGGCCCGTGGTGTGCTGGTCGCCACAGCATGGGCAACGTGTACATGCTCTACTTTCTGCAGCGG  
CAGCCACAAGTCTGGAAGGACAAATATATCCATGCCTTCGTCTCACTGGGGGCCCTGGGGGGCGTGG  
CCAAGACGCTGCGTGTCTGGCCTCAGGAGACAACAATCGCATTCCCGTCATTGGGCCACTGAAGATCCG  
GGAACAGCAGCGATCTGCCGTCTCTACCAGCTGGCTACTGCCATACAACCACACTTGGTCACATGAAAAG  
GTATTTGTATACACCCACGACTAACTACACGCTCCGGGACTACACCGTTCTTCCGGGACATCGGTT  
TCGAAGATGGCTGGTTTCATGCGGCAGGACACAGAAGGGCTGGTTGAAGCCATGACGCCACCCGGGGTGG  
GCTGCACTGCTTGTATGGCACTGGTGTCCACGCCAACTCTTTCTACTACGAGAGCTTTCCTGATCGG  
GACCCCAAATCTGCTTCGGCGATGGTACGGCACGGTGAACCTGGAGAGCGTCTGCAGTGCCAAGCCT  
GGCAGAGCCGCAAGAGCACAGAGTATCATTGCAGGAGCTGCCGGGAAGCGAGCACATTGAGATGCTAGC  
CAATGCCACCACCTTGGCTTATCTGAAACGTGTGCTTCTGGAACCTTGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | NM_133792   |
| <b>Insert Size:</b>           | 1239 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <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="#">BC019373</a> , <a href="#">AAH19373</a>   |
| <b>RefSeq Size:</b>           | 2721 bp   |
| <b>RefSeq ORF:</b>            | 1239 bp   |
| <b>Locus ID:</b>              | 192654  |
| <b>UniProt ID:</b>            | <a href="#">Q8VEB4</a>  |
| <b>Cytogenetics:</b>          | 8 D3  |
| <b>Gene Summary:</b>          | 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] |