

## Product datasheet for **MC203785**

### Lpgat1 (NM\_172266) Mouse Untagged Clone

#### Product data:

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| Product Type:             | Expression Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Name:             | Lpgat1 (NM_172266) Mouse Untagged Clone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tag:                      | Tag Free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Symbol:                   | Lpgat1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Synonyms:                 | AI649174; AW112037; BC013667                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mammalian Cell Selection: | Neomycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Fully Sequenced ORF:      | <p>&gt;BC013667</p> <p>CGGACGCGTGGGCGGACGCGTGGGCCGGGCCAGGGACTCCCGCCGCCGCCGCCCGCCCTCGGCCCTGTCCG<br/>         CCGCTCGCCGCTCGCGCCCACTGAGACAGGACCGACGCCAATGTAAGAATGGCCGTGACCGTGGAAGAAG<br/>         CTCCGTGGCTGGGCTGGATTGTAGCGAAAGCCCTGATGAGATTTGCCTTCATGGTCGCCAACAACCTGGT<br/>         CGCTATTCCATCTACATCTGCTATGTAATTATACTGCAGCCACTCCGAGTGCTGGACAGTAAGCGCTTC<br/>         TGGTATATCGAAGGACTCATGTACAAATGGCTTTTAGGAATGGTGGCTTCCTGGGCTGGTATGCTGGAT<br/>         ACACAGTGATGGAATGGGGGAAGATATTAAGCAATCGCTAAAGATGAAGCAGTGATGTTGGTGAACCA<br/>         CCAGGCAACTGGAGATGTGTGTACATTGATGATGTGCCTACAGGATAAAGGACCGTTGTCGCTCAGATG<br/>         ATGTGGCTGATGGATCATATTTCAAGTATACAACTTTGGAATTGTTTCTTATTTCATGGAGACTTCT<br/>         TTATAAGACAGGGAAGAGCCTACCGCGACCAACAGCTGCTGGTTCTCAAGAAGCACCTTGAACATAATTA<br/>         CAGGAGCAGAGATCGAAAATGGATCGTTTTGTTTCCTGAAGGGGCTTCCTCAGGAAGAGGCGAGAAACA<br/>         AGCCAGGCATTTGCCAAGAAAAATAACTTGCCATTTCTTACACATGTCACCTTGCCAAGGTTTGGGGCAA<br/>         CAAACATTATTTTGAAGGCACTTGTAGCACGGCAGGAAAAATGGAAGCCAGCAGGAGGAGACGCTAGAGG<br/>         CTTAGAATGCAAAATCAAGAGGCCTCCAGTGGATAATAGATACAACCATAGCTTATCCCAAAGCTGAACCA<br/>         ATAGACATTACAGCTGGATCCTGGGTACAGGAAACCAACAGTCACTCATGTCCATTACAGGATTTTCC<br/>         CAATTGGAGATGTGCCCTTGGAGACCGAGGACCTCACCAGCTGGCTCTATCAGCGCTTTATTGAGAAGGA<br/>         GGACCTCCTGTCCATTTTATAAGACAGGAGCCTTTCCTCCTCCCAGGGCCAGAAGGAAGCTGTGTGC<br/>         AGAGAGATGACCTCAGCAACATGTGGATATTCCTCATCCAGTCCTTTGCGTTTTTGTGAGGCTATCTGT<br/>         GGTACCACATCATTGATATTTTACCATTGTCTATTTTAGGAATTGACTTGGACTTGCTACATAGGAGT<br/>         TCAGACTTCTTCATACATGTGCATTATTTTACATGTGCAAAATCAAAATATATAAAAAAGAAAGAAAAA<br/>         AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAA</p> |
| Restriction Sites:        | RsrII-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ACCN:                     | NM_172266                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Insert Size:              | 1113 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <u><a href="#">BC013667</a></u> , <u><a href="#">AAH13667</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 1406 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 1113 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 226856                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID:</b>            | <u><a href="#">Q91YX5</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cytogenetics:</b>          | 1 H6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Summary:</b>          | <p>Lysophosphatidylglycerol (LPG) specific acyltransferase that recognizes various acyl-CoAs and LPGs as substrates but demonstrates a clear preference for long chain saturated fatty acyl-CoAs and oleoyl-CoA as acyl donors. Prefers oleoyl-LPG over palmitoyl-LPG as an acyl receptor and oleoyl-CoA over lauroyl-CoA as an acyl donor (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR, which results in a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1.</p> |