

## Product datasheet for **MG208201**

### Lipc (NM\_008280) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipc (NM_008280) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lipc
Synonyms:	A1256194; HL; Hpl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208201 representing NM\_008280  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAAATCCCCTCAAATCTCCATTTCTGGTGTCTGCATCTTTATCCAATCAAGTCTTGTGGAC  
 AAGGCGTGGGAACAGAGCCCTTTGGGAGAAGCCTTGGAGCTACTGAAGCTAGCAAGCATTAAAGAAGCC  
 AGAGACCAGATTCTGCTCTTCCAAGATGAAAACGATCGCCTGGGCTGTCGTCTCAGACCTCAGACCCCG  
 GAAACACTGCAGGAGTGTGGCTTCAACAGCTCTCAGCCGTTATCATGATCATCCACGGGTGGTCGGTGG  
 ATGGCTTGTAGAAAAGTGGATCTGGAAGATAGTGAGTGCCTGAAGTCCCAGAGTCCCAACCTGTGAA  
 TGTGGGTTAGTGGACTGGATCTCCCTGGCATAACCAGCACTACACCATTGCTGTTCAAAACACCCGTATT  
 GTGGGCCAGGACGTGGCTGCTCTTCTCCTATGGCTGGAGGAATCTGCGAAGTTTTCTCGGAGCAAAGTTC  
 ACCTAATTGGGTACAGCCTGGGAGCGCAGTCTCAGGGTTCGAGGCAGTCCATGGACGGGAAGAACA  
 GATTGGAAGAATCACAGGCTGGACCCTCGGGCCCTATGTTTGAGGGAACGTCCCCAACGAGCGCCTT  
 TCTCCTGATGATGCCAATTTTGTGGACGCCATTACACCTTTACCAGGGAGCACATGGGCTTGAGTGTGG  
 GCATCAAGCAGCCATTGCCACTATGACTTCTACCCCAATGGGGCTCCTTCCAGCCTGGCTGCCACTT  
 CCTGGAATCTACAAACACATTGCAGAGCATGGCTTAAACGCCATAACCCAGACCATCAAATGTGCCAT  
 GAGCGCTCCGTGCACCTTTCATTGACTCCTTGAACACAGTGACCTGCAGAGCATCGGCTTCCAGTGCA  
 GCGACATGGGCAGCTTACAGCAAGGTCTATGCCTGAGCTGCAAGAAGGGCCGTTGCAACACTCTGGGTTA  
 TGACATCCGCAAGGACCGGTGAGCAAGAGCAAGAGGCTCTTCTCATCACGCGAGCCAGTCTCCCTTC  
 AAAGTTTATCATTACCAGTTCAGATCCAGTTCATCAATCAAATGAGAAGCCGGTAGAGCCTACTTTTA  
 CCATGTCGCTGCTGGGAACAAAAGAAGAAATAAGAGAATTCCCATCACCTGGGCGAAGGAATTACCAG  
 CAATAAAACCTATTCTTCTTATCACACTGGACAAGACATCGGCGAGTTGATCCTGCTCAAGTTCAG  
 TGGGAAAACAGTGCAGTGTGGGCAATGTGTGGAACACAGTGCAGACCATCATGCTATGGGCATAGAAC  
 CTCACCACTCTGGCCTATTCTGAAGACCATCTGGGTCAAAGCTGGAGAGACGCAGCAAAGAATGACATT  
 TTGCCCGAAAACTGGATGACCTCCAGCTTACCAGGAGCCAGGAGAAAGTCTTTGTGAAGTGTGAAGT  
 AAGTCAAAAAGACTGACTGAATCGAAAGAGCAGATGAGTCAAGAGACCCATGCAAAAAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208201 representing NM\_008280  
 Red=Cloning site Green=Tags(s)

MGNPLQISIFLVFCIFIQSSACQGVGTEPFGRSLGATEASKPLKKPETRFLLFQDENDRLGCLRPPQHP  
 ETLQECGFNSSQPLIMI IHGWSVDGLLENWIWKIVSALKSRQSQPVNVGLVDWISLAYQHYTIAVQNTRI  
 VGQDVAALLLWLEESAKFSRSKVHLIGYSLGAHVSGFAGSSMDGKNKIGRITGLDPAGPMFEGTSPNERL  
 SPDDANFVDAIHTFTREHMGLSVGIKQPIAHYDFYPNGGSFQPGCHFLELYKHIAEHGLNAITQTIKCAH  
 ERSVHLFIDSLQHSDLQSIGFQCSDMGFSFQGLCLSCKKGRCNTLGYDIRKDRSGSKRFLITRAQSPF  
 KVVYHYQFKIQFINQIEKPVEPTFTMSLLGTKEEIKRIPITLGEIGTISNKTYSFLITLTKDIDIGELILLKFK  
 WENSAVWVWNTVQTIMLWGIEPHHSLILKTIWVKAGETQQRMTFCPENLDDLQLHPSQEKVFNCEV  
 KSKRLTESKEQMSQETHAKK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

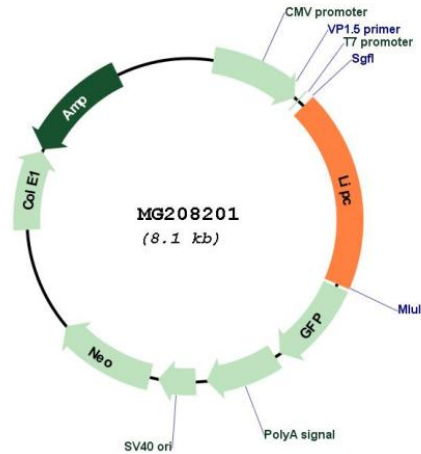
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008280

ORF Size: 1530 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\\_008280.2](#), [NP\\_032306.2](#)

**RefSeq Size:** 1934 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 15450

**UniProt ID:** [P27656](#)

**Cytogenetics:** 9 39.57 cM

**Gene Summary:** Hepatic lipase has the capacity to catalyze hydrolysis of phospholipids, mono-, di-, and triglycerides, and acyl-CoA thioesters. It is an important enzyme in HDL metabolism. Hepatic lipase binds heparin.[UniProtKB/Swiss-Prot Function]