

## Product datasheet for **MR208018**

### Lipg (NM\_010720) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipg (NM_010720) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lipg
Synonyms:	3110013K01Rik; EL; lipase; mEDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208018 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCGAAACACGGTTTTCTGCTCGGCTTTTGGAGCGTCTATTGTACTTCCCGCGGGAAGTATCACAA  
 CCTTGGCTCCCGAGGGTTCGCTGCGAGATGAGCATCATAAACCCACTGGAGTACCAGCTACGCCAGACC  
 CTCTGTGGCTTTTAAACATCCGCCTTCTAAGGACCCAGAGCAGGAAGGGTGAATCTCTCCCTTGGTGAC  
 AGCAAACCTTTAGAAAACGTGGCTTCAACATGACAGCCAAAACCTTCTTCATCATTTCATGGATGGACGA  
 TGAGTGGCATGTTTGGAGCTGGCTGCATAAACTTGATCAGCCCTGCAGATGAGAGAGAAAAGTGTAA  
 CGTCGTGGTGGTTGACTGGCTGCCCTGGCTCATCAGCTGTACACGGATGCAGTCAATAACACCAGGGTG  
 GTGGGACAGAGTAGCTGGGATGCTTGGCTGGCTGCAGGAGAAGGAAGATTCTCTTGGGAACGTTT  
 ACTTGATTGGCTACAGCCTTGGAGCACAGTGGCTGGATACGCTGGCAACTTTGTAAAGGAACAGTGGG  
 CAGGATCACTGGTCTGGATCCCGCGGGTCCCATGTTTGAAGGGTGGACATCAACAGAAGGCTGTCCCG  
 GACGATGCAGACTTTGTGGATGTCTGCATACCTACACGCTGTCTTTGGCTTGGCATTGGGATTCCGGA  
 TGCTGTGGGTACATTGACATCTATCCAATGGCGGTGACTTCCAGCCAGGCTGTGGATTCAATGATGT  
 CATCGGATCTTTTGCATATGGAACAATCTCAGAGATGGTAAATGCGAGCACGAGCGAGCCGTACACCTC  
 TTTGTCGACTCTCTGGTGAATCAGGACAAGCCAGCTTTGCCCTCCAGTGCACAGACTCCAGCCGTTCA  
 AAAGGGGAATCTGCCTCAGCTGCCGGAAGAACCCTTGTAAATAACATTGGCTACAACGCCAAGAAAATGAG  
 AAAGAAGAGGAATAGCAAAATGTATTTAAAAACCCGGGCTGGCATGCCTTTCAAAGTTTACCATTACCAG  
 CTGAAAGTTCACATGTTCTTTACAATAACAGTGGGGACACCCAGCCACCCTTACATTACCCTGTATG  
 TAGCAACGCAGACTCCAGAACCTGCCCTTGGAAATAGTGGAGAAGATTGAGCTGAATGCCACAACAC  
 CTTCCTTGTCTACTAGGAGGACTTGGGCGATCTCTTGAAGATGCGACTTACCTGGGAGGGGGTAGCC  
 CATTCTGGTACAACTGTGGAATGAGTTTCGCAACTACCTGTCTCAACCCAGCAACCCCTCGAGGGAGC  
 TGTACATCCGGCGAATTCGTGTCAAATCTGGGAAAACCCAGCGCAAAGTACATTTTGCCTCAAGACCC  
 AACGAAGAGTAGCATCTCCCTGGCCAGGAGCTGTGGTTTACAAGTGTGAGGATGGCTGGAAAATGAAA  
 AACAAAACCAAGTCCCTTTGTGAACCTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208018 protein sequence  
 Red=Cloning site Green=Tags(s)

MRNTVFLLGFWVYCYFPAGSITTLRPEGLRDEHHKPTGVPATARPSVAFNIRTSKDPEQEGCNLSLGD  
 SKLLENGCFNMTAKTFFIIHGWTMSGMFESWLHKLVSALQMREKDVVVVDWLPLAHQLYTDVNNTRV  
 VGQRVAGMLDWLQEEFSLGNVHLIGYSLGAHVAGYAGNFVKGTVGRITGLDPAGPMFEGVDINRRLSP  
 DDADFVDVLHTYTLFGLSIGIRMPVGHIDIYPNGGDFQPGCGFNDVIGSFAYGTISEMVKCEHERAVHL  
 FVDSL VNQDKPSFAFQCTDSSRFKRGICLSRKNRCNNIGYNAKMRKKRNSKMYLKTRAGMPFKVYHYQ  
 LKVHMFSYNNSGDTQPTLYITLYGSNADSNLPLEIVEKIELNATNTFLVYTEEDLDLLKMRLTWEVGA  
 HSWYNLWNEFRNYLSQPSNPSRELYIRIRVKSGETQRKVTFCTQDPTKSSI SPGQELWFHKCQDGWKMK  
 NKTSPFVNLA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_010720

**ORF Size:** 1503 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\\_010720.2](#), [NP\\_034850.2](#)
**RefSeq Size:** 3787 bp

**RefSeq ORF:** 1503 bp

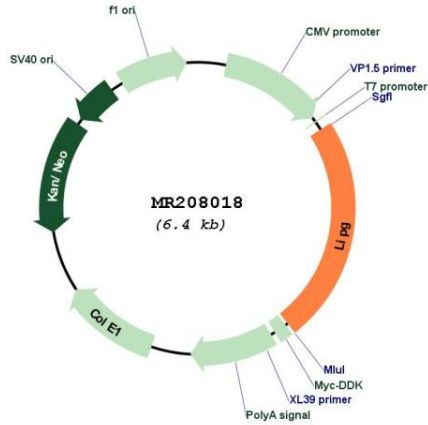
**Locus ID:** 16891

**UniProt ID:** [Q9WVG5](#)
**Cytogenetics:** 18 E2

**MW:** 56.6 kDa

**Gene Summary:** Has phospholipase and triglyceride lipase activities. Hydrolyzes high density lipoproteins (HDL) more efficiently than other lipoproteins. Binds heparin (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208018