

Product datasheet for **MG208018**

Lipg (NM_010720) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipg (NM_010720) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lipg
Synonyms:	3110013K01Rik; EL; lipase; mEDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208018 representing NM_010720
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCGAAACACGGTTTTCTGCTCGGCTTTTGGAGCGTCTATTGTACTTCCCGCGGGAAGTATCACAA
 CCTTGGCTCCCGAGGGTTCGCTGCGAGATGAGCATCATAAACCCACTGGAGTACCAGCTACCGCCAGACC
 CTCTGTGGCTTTTAAACATCCGCCTTCTAAGGACCCAGAGCAGGAAGGGTGAATCTCTCCCTTGGTGAC
 AGCAAACCTTTAGAAAACGTGGCTTCAACATGACAGCCAAAACCTTCTTCATCATTTCATGGATGGACGA
 TGAGTGGCATGTTTGGAGCTGGCTGCATAAACTTGTATCAGCCCTGCAGATGAGAGAGAAAAGTGTAA
 CGTCGTGGTGGTTGACTGGCTGCCCTGGCTCATCAGCTGTACACGGATGCAGTCAATAACACCAGGGTG
 GTGGGACAGAGTAGCTGGATGCTTGGCTGGCTGCAGGAGAAGGAAGATTCTCTCTTGGGAACGTTT
 ACTTGATTGGCTACAGCCTTGGAGCACAGTGGCTGGATACGCTGGCACTTTGTAAAGGAACAGTGGG
 CAGGATCACTGGTCTGGATCCCGCGGGTCCCATGTTTGAAGGGTGGACATCAACAGAAGGCTGTCCCCG
 GACGATGCAGACTTTGTGGATGTCTGCATACCTACACGCTGTCTTTGGCTTGGCATTGGGATTCCGGA
 TGCTGTGGGTACATTGACATCTATCCAATGGCGGTGACTTCCAGCCAGGCTGTGGATTCAATGATGT
 CATCGGATCTTTTGCATATGGAACAATCTCAGAGATGGTAAATGCGAGCACGAGCGAGCCGTACACCTC
 TTTGTCGACTCTCTGGTGAATCAGGACAAGCCAGCTTTGCCCTCCAGTGCACAGACTCCAGCCGCTTCA
 AAAGGGGAATCTGCCTCAGCTGCCGGAAGAACCCTTGTAAATAACATTGGCTACAACGCCAAGAAAATGAG
 AAAGAAGAGGAATAGCAAAATGTATTTAAAAACCCGGGCTGGCATGCCTTTCAAAGTTTACCATTACCAG
 CTGAAAGTTACATGTTCTTTACAATAACAGTGGGGACACCCAGCCACCCTTACATTACCCTGTATG
 GTAGCAACGCAGACTCCAGAACCTGCCCTTGGAAATAGTGGAGAAGATTGAGCTGAATGCCACAACAC
 CTTCTCTGTCTACACTGAGGAGGACTTGGGCGATCTCTTGAAGATGCGACTTACCTGGGAGGGGGTAGCC
 CATTCTGGTACAACTGTGGAATGAGTTTCGCAACTACCTGTCTCAACCCAGCAACCCCTCGAGGGAGC
 TGTACATCCGGCGAATTCGTGTCAAATCTGGGAAACCCAGCGCAAAGTACATTTTGCCTCAAGACCC
 AACGAAGAGTAGCATCTCCCTGGCCAGGAGCTGTGGTTTACAAGTGTGAGGATGGCTGGAAAATGAAA
 AACAAAACCAAGTCCCTTTGTGAACCTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208018 representing NM_010720
 Red=Cloning site Green=Tags(s)

MRNTVFLGFWSVYCYFPAGSITTLRPEGLRDEHHKPTGVPATARPSVAFNIRTSKDPEQEGCNLSLGD
 SKLLENCGFNMTAKTFFIIHGWTMSGMFESWLHKLVSALQMREKDNVVDWDLPLAHQLYTDVANNTRV
 VGQRVAGMLDWLQEKEEFSLGNVHLIGYSLGAHVAGYAGNFVKGTVGRITGLDPAGMPFEGVDINRRLSP
 DDADFVDLHTYLSFGLSIGIRMPVGHIDIYPNGGDFQPGCGFNDVIGSFAYGTISEMVKCEHERAVHL
 FVDSL VNQDKPSFAFQCTDSSRFKRGICLSKRNRNNGYNAKMRKRNSKMYLKTRAGMPFKVYHYQ
 LKVHMFSYNNSGDTQPTLYITLYGSNADSNLPLEIVEKIELNATNTFLVYTEEDLDLLKMRLTWEVGA
 HSWYNLWNEFRNYLSQSPNSPRELYIRIRVKSGETQRKVTFCTQDPTKSSISPGQELWFHKCQDQGWKMK
 NKTSPFVNLA

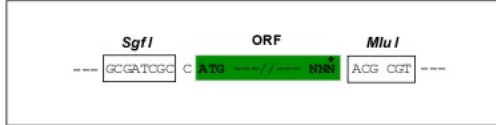
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI
BamHI *KpnI*
RBS
Kozac
Consensus
SgfI
AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

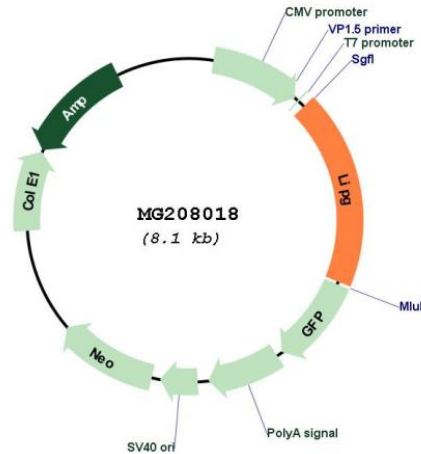
T R T R P L E
M E S D - - -

PmeI
FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_010720

ORF Size: 1500 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: 3610 bp

RefSeq ORF: 1503 bp

Locus ID: 16891

UniProt ID: [Q9WVG5](#)

Cytogenetics: 18 E2

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]