

## Product datasheet for **MG226805**

### Lipe (NM\_010719) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipe (NM_010719) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lipe
Synonyms:	4933403G17Rik; HSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG226805 representing NM\_010719  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCGGCCGTGGAATCGGCGCCCGTGGGGGCCAGGCCCTCAAGCAGGGCAAAGAAGGATCGAAGA  
 ACCGCAGTCGCAGGCGGTGGCGAAAAGGCAAGATCAAAGCCTCAGCGTTCTCACACAGCATGGATTTACG  
 CACGATGACACAGTCGCTGGTGACACTCGCAGAAGACAATATGGCCTTCTTCTCAAGCCAGGGCCAGGA  
 GAGACAGCACGGCGGCTGTCTAATGTCTTTGCAGGTGTTCCGGAACAGGCACTGGGGCTGGAACCAACC  
 TAGGCCAACTGTTGGGTGTGGCACACCATTTTACCTGGACACAGAGACACCAGCCAACGGATACCGTAG  
 TTTGGTGACACAGCCCGATGCTGCCTGGCACACCTACTACACAATCCCCTATGTGGCTTCTAACCGC  
 AAAAGTATCTTCTCCGTGCCAGCCACAACCTAGCAGAGCTGGAGGCTACCTGGCCGCCCTCACCCAGC  
 TCCGTGCTATGGCTACTATGCCAGCGCTGCTGACCATCAACCGACCAGGAGTGTCTTCTTCGAGGG  
 TGATGAAGGACTCACCGTACTTCTGCAAGAGTATGTCAGCTACACAAGGCTGCTTCTACGGCCGC  
 TGCTGGGCTTCCAGTTCACACCTGCCATCCGGCCGTTCTGACACTCTCTCCATCGGGCTGGTGTCT  
 TCGGGGAGCACTACAAACGCAACGAGACAGGCCTCAGTGTGACCGCCAGTTCCTCTTTACCGGTGGCCG  
 ATTCGCCATAGACCCAGAGTTGCGTGGGGCTGAATTTGAACGCATCATACAGAACCTGGATGTGCACTTC  
 TGGAAAGCCTTCTGGAACATCACTGAGATTGAGGTGCTGTGCTCTGGCCAACATGGCATCAACCACTG  
 TGAGGGTAAGCCGCTGCTCAGCTTGGCACCTGAGGCCTTTGAGATGCCACTCACCTCTGATCCCAGGCT  
 CACAGTTACCATCTCACCTCCCTGGCACACACGGGACCAGCTCCTGTGCTAGCCAGGCTCATCTCCTAT  
 GACCTACGGGAAGGACAGGACAGCAAGGTAACAACAGCCTGGCAAATCTGAGGGCCACGCCTGGAGC  
 CGCCCCACGGCCTCACCAAGCACCCCGTTACGGGCCCTGGTTGTTACATCCACGGAGCGGCTTTGT  
 GGCACAGACCTCTAAATCCCACGAGCCCTACCTCAAGAAGTGGGCCAGGAGCTAGGAGTCCCTATCTTC  
 TCCATCGACTACTCCCTGGCCCCGAGGCTCCCTTTCCCGAGCGCTGGAGGAGTGTTTTTTGCCTACT  
 GCTGGGCTGTCAAGCACTGTGACCTGCTTGGTTCAACTGGAGAGCGGATATGCCTTGACGGGACAGTGC  
 AGGTGGGAATCTCTGCATCACTGTGTCCCTTCGGGCAGCAGCCTATGGAGTGAGGGTGCCAGATGGCATC  
 ATGGCAGCCTACCCAGTTACCACCCTGCAGTCTCTGCTTCTCCCTCTCGTCTGCTGAGCCTCATGGACC  
 CTCTTCTACCACTGAGCGTACTCTAAGTGTGTGAGTGCCTATTCAGGGACAGAGGCAGAGGACCATT  
 TGACTCAGACCAGAAGGCACTAGGCGTGTGGGCTGGTGCAGAGAGACACTTCGCTGTTCTCAGAGAC  
 CTCGACTGGGTGCTCCTCATGGCTCACTCCTTCTGGAAGTAAAGTGGACGCAAGCCCCAAAAGACCA  
 CATCGCCACAGCAGAGTCTGTGCGCCCCACGGAGTCTATGCGCAGGAGTGTGCTGAGGACGCCCTGGC  
 CCAGCCTGAGGGCTTACTGGGCACAGATACCTGAAGAAGCTGACAATAAAGGACTTGAGCAACTCAGAG  
 CCTTCAGACAGCCCCGAGATGTCACAGTCAATGGAGACTTGGCCCTCCACACCTCTGATGTCAACT  
 TTTTCTGCGGCTGGGAATTCAGGAAGAGGCTGAAGCCAAAGATGAAGTGAAGCCATGGACGGAGT  
 CCCCCGCTGCGCGCTGCTTCCCTGAGGGGTTTACCCCCGGCGCTCAAGCCAAGGTGTCTCCACATG  
 CCCCTACACGTACCCATAGTCAAGAACCCCTCATGTCTCCTCTGCTGGCCCTGACAGCATGCTGA  
 AGACCTTGCCGCTGTGCACCTTGTGGCTTGCCTCTGGACCCATGCTAGATGACTCGGTATGTTTCG  
 GCGGCACTGCGGACCTGGGCCAGCCGTTGACGCTGAAAGTGGTGAAGATCTGCCGATGGCTTCTCTG  
 AGCCTGGCGGCACTGTGTCGCGAGACCCGGCAGGCCACGGAGTTCTGCGTGCAGCCATCCGGCTGATCC  
 TCACCCCGCTGTGCACCACTGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226805 representing NM\_010719  
Red=Cloning site Green=Tags(s)

MEPAVESAPVGAQASKQGKEGSKNRSRRRWRKGIKASAFSHSMDLRTMTQSLVTLAEDNMAFFSSQGGP  
ETARRLSNVFAGVREQALGLEPTLGQLLGVAHHFDLDTETPANGYRSLVHTARCCLAHLHKSRYVASNR  
KSIFFRASHNLAELEAYLAALTQLRAMAYYAQRLLTINRPGVLFEGDEGLTADFLQEYVTLHKGCFYGR  
CLGFQFTPAIRPFLQTLSIGLVSFGEHYKRNETGLSVTASSLFTGGRFAIDPELRGAEFERIIQNLDVHF  
WKAFWNITEIEVLSSLANMASTTVRVSRLLSLPEAFEMPLTSDPRLTVTISPPLAHTGPAPVLARLISY  
DLREGQDSKVLNSLAKSEGPRLELRPRPHQAPRSRALVVHIHGGGFVAQTSKSHEPYLKNWAQELGVPIF  
SIDYSLAPEAPFPRALEECCFAYCWAVKHCDLLGSTGERICLAGDSAGGNLCITYSLRAAAYGVRVPDGI  
MAAYPVTTLQSSASPSRLLSLMDPLPLSVLSKCVSAYSGTEADHFSDQKALGVMGLVQRDTSFLRD  
LRLGASSWLNSELELGRKPKQKTSPTAESVRPTESMRRSVSEALAQPGLLGTDTLKKLTIKDLNSE  
PSDPEMSQSMETLGPSTPSDVNFFLRPGNSQEEAEAKDEVPRMDGVPRVRAAFPEGFHPRRSSQVLMH  
PLYTSPIVKNPFMSPLLAPDSMLKTLPPVHLVACALDPMLDDSVMFARRLRDLGQPVTLKVVEDLPHGFL  
SLAALCRETRQATEFCVQRIRLILTPPAAPLN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

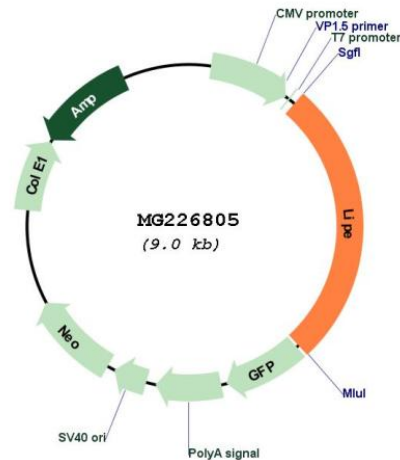


```

                                     Kozac
                                     Consensus
                                     SgfI
                                     AscI
      EcoRI      BamHI KpnI  RBS
CTATAGGGCGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGSAGATCTGCCGCCGCATCGCCGGCGCGCCAGATCT

      HindIII   NheI   RsrII   MluI      NotI   XhoI      GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  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  ACGCGCGCCCGGAGCT
- - -  E  E  R  V  Stop
    
```

Plasmid Map:



ACCN: NM\_010719

ORF Size: 2406 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\\_010719.5](#), [NP\\_034849.2](#)

RefSeq Size: 3221 bp

RefSeq ORF: 2409 bp

Locus ID: 16890

UniProt ID: [P54310](#)

Cytogenetics: 7 13.78 cM

**Gene Summary:**

In adipose tissue and heart, it primarily hydrolyzes stored triglycerides to free fatty acids, while in steroidogenic tissues, it principally converts cholesteryl esters to free cholesterol for steroid hormone production.[UniProtKB/Swiss-Prot Function]