

## Product datasheet for **MG210507**

### Lipe (BC021642) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipe (BC021642) 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)



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**ORF Nucleotide Sequence:**

>MG210507 representing BC021642  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATTTACGCACGATGACACAGTCGCTGGTGACACTCGCAGAAGACAATATGGCCTTCTCTCAAGCC  
 AGGGCCAGGAGAGACAGCACGGCGGCTGTCTAATGTCTTTGCAGGTGTTGCGGAACAGGCACTGGGGCT  
 GGAACCAACCCTAGGCCAACTGTTGGGTGTGGCACACCATTTTGACCTGGACACAGAGACACCAGCCAAC  
 GGATACCGTAGTTTGGTGCACACAGCCCGATGCTGCCTGGCACACCTACTACACAAATCCCGCTATGTGG  
 CTTCTAACCGCAAAGTATCTTCTTCCGTGCCAGCCACAACCTAGCAGAGCTGGAGGCTACCTGGCCGC  
 CCTCACCCAGCTCCGTGCTATGGCTACTATGCCAGCGCTGCTGACCATCAACCGACCAGGAGTGCTC  
 TTCTTCGAGGGTGATGAAGGACTCACCGCTGACTTCTGCAAGAGTATGTCACGCTACACAAAGGCTGCT  
 TCTACGGCCGCTGCTGGGCTTCCAGTTACACCTGCCATCCGGCCGTTCTGCAGACTCTCTCCATCGG  
 GCTGGTGTCTTCGGGGAGCACTACAAACGCAACGAGACAGGCCCTCAGTGTGACCGCCAGTTCCTCTTT  
 ACCGGTGGCCGATTTCGCCATAGACCCAGAGTTGCGTGGGGCTGAATTTGAACGCATCATACAGAACCTGG  
 ATGTGCACCTTCTGAAAGCCTTCTGGAACATCACTGAGATTGAGGTGCTGTGCTCTCTGGCAACATGGC  
 ATCAACCACTGTGAGGGTAAGCCGCTGCTCAGCTTGCCACCTGAGGCCTTTGAGATGCCACTCACCTCT  
 GATCCCAGGCTCACAGTTACCATCTCACCTCCCTTGGCACACACGGGACCAGCTCCTGTGCTAGCCAGGC  
 TCATCTCTATGACCTACGGGAAGGACAGGACAGCAAGGTACTCAACAGCCTGGCAAAATCTGAGGGCC  
 ACGCCTGGAGCTGCGCCACGGCCTCACAAGCACCCCGTTACGGGCCCTGGTTGTTACATCCACGGA  
 GCGGCTTTGTGGCACAGACCTTAAATCCCACGAGCCCTACCTCAAGAACTGGGCCAGGAGCTAGGAG  
 TCCCTATCTTCTCCATCGACTACTCCCTGGCCCGAGGCTCCCTTTCCCGAGCGCTGGAGGAGTGT  
 TTTTGCCTACTGCTGGGCTGTCAAGCACTGTGACCTGTTGTTCAACTGGAGAGCGGATATGCCTTGCA  
 GGGGACAGTGCAGGTGGGAATCTCTGCATCACTGTGTCCCTTCGGGCAGCAGCCTATGGAGTGAGGGTGC  
 CAGATGGCATCATGGCAGCCTACCCAGTTACCACCCTGCAGTCTCTGCTTCTCCCTCTCGTCTGCTGAG  
 CCTCATGGACCCTCTTCTACCACTGAGCGTACTCTCTAAGTGTGTGAGTGCCTATTACGGGACAGAGGCA  
 GAGGACCATTTTACTCAGACCAGAAGGCACTAGGCGTGATGGGGCTGGTGCAGAGAGACTTCTGCTGT  
 TCCTCAGAGACCTCCGACTGGGTGCTCCTCATGGCTCAACTCCTTCTGGAACAAAGTGGACGCAAGCC  
 CAAAAGACCACATCGCCACAGCAGAGTCTGTGCGCCACGGAGTCTATGCGCAGGAGTGTGTCTGAG  
 GCAGCCCTGGCCAGCCTGAGGGCTTACTGGGCACAGATACCTTGAAGAAGCTGACAATAAAGGACTTGA  
 GCAACTCAGAGCCTTACAGACAGCCCGAGATGTCACAGTCAATGGAGACTTGGCCCTCCACACCCTC  
 TGATGTCAACTTTTTTCTGCGGCCTGGGAATCCAGGAAGAGGCTGAAGCCAAAGATGAAGTGAGACC  
 ATGGACGGAGTCCCCCGGTGCGCGCTGCTTCCCTGAGGGGTTTACCCCCGGCGCTCAAGCCAAGGTG  
 TCCTCCACATGCCCTCTACACGTACCCATAGTCAAGAACCCTTATGTCTCTCTGCTGGCCCTGA  
 CAGCATGCTGAAGACCTTGCCTGCTGTGCACCTTGTGGCTTGGCTCTGGACCCATGCTAGATGACTCG  
 GTCATGTTGCGCGGCGACTGCGCGACCTGGGCCAGCCGGTGACGCTGAAAGTGGTAGAAGATCTGCCGC  
 ATGGCTTCTGAGCCTGGCGCACTGTGTCGCGAGACCCGGCAGGCCACGGAGTTCTGCTGCAGCGCAT  
 CCGGCTGATCTACCCCGCCTGCTGCACCACTGAAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** BC021642

**ORF Size:** 2277 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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: BC021642, AAH21642

RefSeq Size: 2678 bp

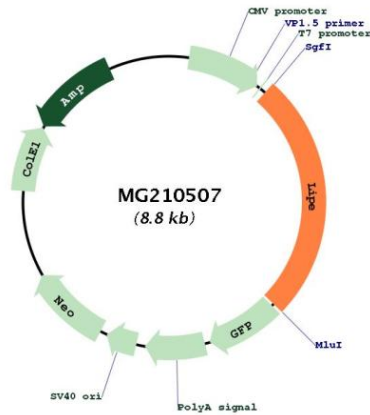
RefSeq ORF: 2279 bp

Locus ID: 16890

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]

**Product images:**



Circular map for MG210507