

## Product datasheet for **MR210507**

### Lipe (NM\_001039507) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipe (NM_001039507) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lipe
Synonyms:	4933403G17Rik; HSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210507 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTTACGCACGATGACACAGTCGCTGGTGACACTCGCAGAAGACAATATGGCCTTCTCTCAAGCC  
AGGGCCAGGAGAGACAGCACGGCGGCTGTCTAATGTCTTTGCAGGTGTTGCGGAACAGGCACTGGGGCT  
GGAACCAACCCTAGGCCAACTGTTGGGTGTGGCACACCATTTTGACCTGGACACAGAGACACCAGCCAAC  
GGATACCGTAGTTTGGTGACACAGCCCGATGCTGCCTGGCACACCTACTACACAAATCCCGCTATGTGG  
CTTCTAACCGCAAAGTATCTTCTTCCGTGCCAGCCACAACCTAGCAGAGCTGGAGGCTACCTGGCCGC  
CCTCACCCAGCTCCGTGCTATGGCTACTATGCCAGCGCTGCTGACCATCAACCGACCAGGAGTGCTC  
TTCTTCGAGGGTGATGAAGGACTCACCGCTGACTTCTGCAAGAGTATGTCACGTACACAAAGGCTGCT  
TCTACGGCCGCTGCTGGGCTTCCAGTTACACCTGCCATCCGGCCGTTCTGCAGACTCTCTCCATCGG  
GCTGGTGTCTTCGGGGAGCACTACAAACGCAACGAGACAGGCCCTCAGTGTGACCGCCAGTTCCTCTTT  
ACCGGTGGCCGATTTCGCCATAGACCCAGAGTTGCGTGGGGCTGAATTTGAACGCATCATACAGAACCTGG  
ATGTGCACTTCTGGAAAGCCTTCTGGAACATCACTGAGATTGAGGTGCTGTGCTCTCTGGCAACATGGC  
ATCAACCACTGTGAGGGTAAGCCGCTGCTCAGCTTGCCACCTGAGGCCTTTGAGATGCCACTCACCTCT  
GATCCCAGGCTCACAGTTACCATCTCACCTCCCTTGGCACACACGGGACCAGCTCCTGTGCTAGCCAGGC  
TCATCTCCTATGACCTACGGGAAGGACAGGACAGCAAGGTAACAGCCTGGCAAAATCTGAGGGCCC  
ACGCCTGGAGCTGCGCCACGGCCTCACAAGCACCCCGTTACGGGCCCTGGTTGTTACATCCACGGA  
GGCGGCTTTGTGGCACAGACCTCTAAATCCCACGAGCCCTACCTCAAGAAGCTGGGCCAGGAGCTAGGAG  
TCCCTATCTTCTCCATCGACTACTCCCTGGCCCGAGGCTCCCTTTCCCGAGCGCTGGAGGAGTGT  
TTTTGCCTACTGCTGGGCTGTCAAGCACTGTGACCTGTTGGTTCAACTGGAGAGCGGATATGCCTTGCA  
GGGGACAGTGCAGGTGGGAATCTCTGCATCACTGTGTCCCTTCGGGCAGCAGCCTATGGAGTGAGGGTGC  
CAGATGGCATCATGGCAGCCTACCCAGTTACCACCCTGCAGTCTCTGCTTCTCCCTCTCGTCTGCTGAG  
CCTCATGGACCCTCTTCTACCACTGAGCGTACTCTCTAAGTGTGTCAGTGCCTATTCAGGGACAGAGGCA  
GAGGACCATTTTGACTCAGACCAGAAGGCACTAGGCGTGATGGGGCTGGTGCAGAGAGACTTCGCTGT  
TCCTCAGAGACCTCCGACTGGGTGCTCCTCATGGCTCAACTCCTTCTGGAACAAAGTGGACGCAAGCC  
CCAAAAGACCACATCGCCACAGCAGAGTCTGTGCGCCACGGAGTCTATGCGCAGGAGTGTGTCTGAG  
GCAGCCCTGGCCAGCCTGAGGGCTTACTGGGCACAGATACCTTGAAGAAGCTGACAATAAAGGACTTGA  
GCAACTCAGAGCCTTCAGACAGCCCGAGATGTCACAGTCAATGGAGACTTGGCCCTCCACACCCTC  
TGATGTCAACTTTTTTCTGCGGCCTGGGAATCCAGGAAGAGGCTGAAGCCAAAGATGAAGTGAGACC  
ATGGACGGAGTCCCCCGGTGCGCGCTGCTTCCCTGAGGGGTTTACCCCCGGCGCTCAAGCCAAGGTG  
TCCTCCACATGCCCTCTACACGTACCCATAGTCAAGAACCCTTCATGTCTCCTCTGCTGGCCCTGA  
CAGCATGCTGAAGACCTTGCAGCCTGTGCACCTTGTGGCTTGCCTCTGGACCCATGCTAGATGACTCG  
GTCATGTTGCGCGGCGACTGCGCGACCTGGGCCAGCCGGTGACGCTGAAAGTGGTAGAAGATCTGCCGC  
ATGGCTTCTGAGCCTGGCGCACTGTGTCGCGAGACCCGGCAGGCCACGGAGTTCTGCGTGCAGCGCAT  
CCGGCTGATCTACCCCGCCTGCTGCACCACTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210507 protein sequence  
 Red=Cloning site Green=Tags(s)

MDLRTMTQSLVTLAEDNMAFFSSQGPGETARRLSNVFAGVREQALGLEPTLGQLLGVAAHFDLDTETPAN  
 GYRSLVHTARCCLAHLLHKSRYVASNRKSIFFRASHNLAELEYLAALQLRAMAYYAQRLLTINRPGVL  
 FFEGDEGLTADFLQEYVTLHKGCFYGRCLGFQFPAIRPFLQTLSIGLVSFGEHYKRNETGLSVTASSLF  
 TGGRFAIDPELRGAEFERIIQNLDVHFVKAFWNI TEIEVLSSLANMASTTVRVSRLLSLPPEAFEMPLTS  
 DPRLTVTISPPLAHTGPAPVLARLISYDLREGQDSKVLNSLAKSEGPRLELRPRPHQAPRSRALVVHIG  
 GGFVAQTSKSHEPYLKNWAQELGVPIFSIDYSLAPEAPFPRALEECCFAYCWAVKHCDLLGSTGERICLA  
 GDSAGGNLCITVSLRAAAYGVRVPDGMIAAYPVTTLQSSASPSRLLSLMDPLPLSVLSKCVSAYSGTEA  
 EDHFDSDQKALGVMGLVQRDTSFLRDLRLGASSWLNSEFLELSGRKPQKTTSPPTAESVRPTESMRRSVSE  
 AALAQPEGLLGTDTLKKLTIKDLNSEPSDPEMSQSMETLGPSTPSDVNFFLRPGNSQEEAEAKDEVPRP  
 MDGVPRVRAAFPEGFHPRRSSQGLHMPLYTSPIVKNPFMSPLLAPDSMLKTLPPVHLVACALDPMDDSD  
 VMFARRLRDLGQPVTLKVVEDLPHGFLSLAALCRETRQATEFCVQRIRLILTPPAAPLN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_001039507

ORF Size: 2280 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:** [NM\\_001039507.2](#)

**RefSeq Size:** 2785 bp

**RefSeq ORF:** 2280 bp

**Locus ID:** 16890

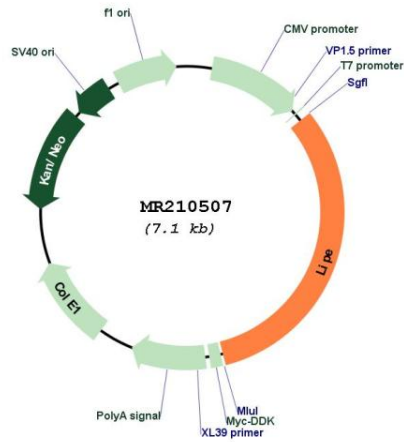
**UniProt ID:** [P54310](#)

**Cytogenetics:** 7 13.78 cM

**MW:** 83.3 kDa

**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 MR210507