

Product datasheet for **MR214267**

Lacc1 (NM_172488) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lacc1 (NM_172488) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lacc1
Synonyms:	9030625A04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR214267 representing NM_172488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAAGCAGTCTTGATTGATCTCTCTGGTTACAATTGAATGCACAGAAAACTGCCATGAGACCT
 TACTGGAGACACTGGATGGTATTCACTACCACCACGCTCCAAGGCCAAGTTCCTTGCATAATATGTTG
 CAGAAATGCCAGCAAGGAAAAGGATGGGGAGTATGGCCTCTGTGAATTGGAAGCAGGAAATGGCTTTTCA
 CGTCTCGCGGAAAATTCGAGACTGTTAGCCATCCCTGCCTGGCTGCCTCTTTGTATAACAATTAACAAA
 AAATTGATGAAGAAAATCTGAGCTGCATTAAGGTGATTGTCCCCGAGCACAGGAACTGTTAATGAAGGC
 TTACGTTGGTCAACTCTCACCGAGGTGTATGAGTTTGTAGTTTGAAGATCTACAGGGAGCTTGGAGGGAT
 AGCCTTTTGAACCATCCACTGGAATAACGTGACCACAACCTCAAGAAGTACAAGACATCCAGCATGAAA
 TAGAAACATACTTGAGAAGCCTGCCAGCGCTGAAAGGGGACCTAACTATTGTCACATCTCCTCTGATCCC
 AGACAACCTCCTGCATGGATTTACCACACGGACAGGGGGCATATCTTCCGTACCCACTCTCAGCTCCCTC
 AATCTTTTCAGTAGTTCCAAAAGGAGAGATCCCAAAGTGGTTGTTCAAGAAAATGTTTCGACAGTTGGCAA
 ATGCTGCCGGATTTAACGCAGAGAAATTTACCGAATAAAGACTGATCACGCCAGTGAAGTGTGGGTTAT
 GGGGAAGAAGGAGCCTGAATCTTACGATGGGATCGTCACAAAACAGAGAGGAGTCAATCACTGCTCTT
 GGCGCCGACTGTATACCCATCGTCTTCGAGATCCTGTGAAAAAGGCATGTGGGTTGCTCACTCCGGCT
 GGAAAGGTACATTGTTGGGTGTGGCTATGGCTACTGTGAATGCTATGATAGCAGAATATGGCTGTGATGT
 GGAAGACATTATTGTTGTTCTGGGACCGTCAGTGGGTTCTTGCTGCTTCACTCTTCCAAAGAATCAGCA
 GTCTCCTTTCACAGTCTTCATCCTTCATGTGTGAGACACTTTGACTCACCGAGACCCTACGTTGACATCC
 GAAAAGCCACCAGGATTTCTAGAAAAGAGGGAATTTCCACAGAACATTCAAGACCAGAAGGAAGA
 TCTTGACCTCTGCACGTCTGCCATCCTGAGAAGTTTTTCTCCCATGTCCGCGATGGCCTAACTTCGGT
 ACACAGATTGGCTTCATATCCCTTAGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214267 representing NM_172488
 Red=Cloning site Green=Tags(s)

MAEAVLIDLSGLQLNAQKNCHETLLETLDGIHYHHAPKAKFLCIICCRNASKEKDGEYGLCELEAGNGFS
 RLAGKFETVSHPCAASLYTIKQKIDEENLSCIKVIVPEHRKLLMKAYVQQLFTEVYEFEFEDLQGAWRD
 SLLKPSTGINVTTTQELEDIQHEIETYLRSLPALKGDLTIVTSPLIPDNFLHGFTRTGGISSVPTLSSL
 NLFSSSKRRDPKVVVQENVRRLANAAGFNAEKFYRIKTDHASEVWVMGKKEPESYDGIVTNQRGVTITAL
 GADCIPIVFADPVKKACGVHSGWKGTL LGVAMATVNAMIAEYGCDEVEDIIVVLGPSVSGSCCFTLPKESA
 VSFHSLHPSCVRHFDSPRPYVDIRKATRILLERGGILPQNIQDQKEDLDLCTSCHPEKFFSHVRDGLNFG
 TQIGFISLRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_b02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172488

ORF Size: 1290 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 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).

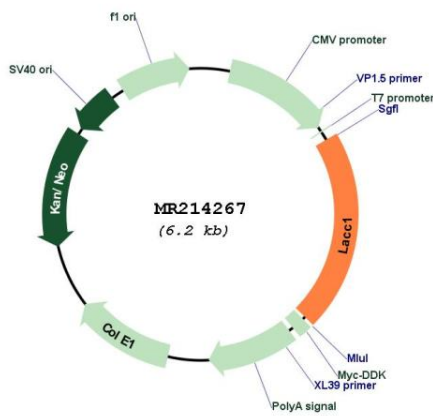
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_172488.2](#), [NP_766076.1](#)

RefSeq Size: 2419 bp
 RefSeq ORF: 1293 bp
 Locus ID: 210808
 UniProt ID: [Q8BZT9](#)
 Cytogenetics: 14 D3
 MW: 48 kDa

Gene Summary: Central regulator of the metabolic function and bioenergetic state of macrophages. In macrophages, promotes flux through de novo lipogenesis to concomitantly drive high levels of both fatty-acid oxidation and glycolysis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214267