

Product datasheet for **MG214267**

Lacc1 (NM_172488) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lacc1 (NM_172488) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lacc1
Synonyms:	9030625A04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214267 representing NM_172488 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCAGTCTTGATTGATCTCTCTGGTTACAATTGAATGCACAGAAAACTGCCATGAGACCT
TACTGGAGACACTGGATGGTATTCCTACCACCACGCTCCCAAGGCCAAGTTCCTTTGCATAATATGTTG
CAGAAATGCCAGCAAGGAAAAGGATGGGGAGTATGGCCTCTGTGAATTGGAAGCAGGAAATGGCTTTTCA
CGTCTCGCGGGAAAATTCGAGACTGTTAGCCATCCCTGCCTGGCTGCCTCTTTGTATAACAATTAACAAA
AAATTGATGAAGAAAATCTGAGCTGCATTAAGGTGATTGTCCCGAGCACAGGAACTGTTAATGAAGGC
TTACGTTGGTCAACTCTTCACCGAGGTGTATGAGTTTGAGTTTGAAGATCTACAGGGAGCTTGGAGGGAT
AGCCTTTTGAAACCATCCACTGGAATAAACGTGACCACAACCTCAAGAACTAGAAGACATCCAGCATGAAA
TAGAAACATACTTGAGAAGCCTGCCAGCGCTGAAAGGGGACCTAACTATTGTCACATCTCCTCTGATCCC
AGACAACCTTCTGCATGGATTTACCACACGGACAGGGGGCATATCTTCCGTACCCACTCTCAGCTCCCTC
AATCTTTTCAGTAGTTCCAAAAGGAGAGATCCCAAAGTGGTTGTTCAAGAAAATGTTTCGACAGTTGGCAA
ATGCTGCCGATTTAACGCAGAGAAATTTACCGAATAAAGACTGATCACGCCAGTGAAGTGTGGTTAT
GGGGAAGAAGGAGCCTGAATCTTACGATGGGATCGTCACAAATCAGAGAGGAGTCACAATCACTGCTCTT
GGCCTGACTGTATACCCATCGTCTTCGAGATCCTGTGAAAAGGCATGTGGGTTGCTCACTCCGGCT
GGAAAGGTACATTGTTGGGTGTGGCTATGGCTACTGTGAATGCTATGATAGCAGAATATGGCTGTGATGT
GGAAGACATTATTGTTGTTCTGGGACCGTCAGTGGTTCTTGTGCTTCACTCTTCCCAAAGAATCAGCA
GTCTCCTTTACAGTCTTCATCCTTCATGTGTGAGACACTTTGACTCACCGAGACCCCTACGTTGACATCC
GAAAAGCCACCAGGATTCTTAGAAAAGAGGAGGAATCTTCCACAGAACATTCAAGACCAGAAGGAAGA
TCTTGACCTCTGCACGCTCCTGCCATCCTGAGAAGTTTTCTCCCATGTCCGCGATGGCCTTAACCTCGGT
ACACAGATTGGCTTCATATCCCTTAGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214267 representing NM_172488
 Red=Cloning site Green=Tags(s)

MAEAVLIDL SGLQLNAQKNCHETLLETLDGIHYHHAPKAKFLCICCRNASKEKDGEYGLCELEAGNGFS
 RLAGKFETVSHPCAASLYTIKQKIDEENL SCIKVIVPEHRKLLMKAYVGLFTEVYEFEDLQGAWRD
 SLLKPSTGINVTTTQELEDIQHEIETYLRSLPALKGDLTIVTSPLIPDNFLHGFTTRTGGISSVPTLSSL
 NLFSSSKRRDPKVVVQENVRRLANAAGFNAEKFYRIKTDHASEVWVMGKKEPESYDGIVTNQRGVTITAL
 GADCIPIVFADPVKKACGVVAHSGWKGLLGVAMATVNMIAEYGCDDVEDIIVVLGPSVSGCFTLPKESA
 VSFHSLHPSCVRHFDSRPYVDIRKATRILLERGGILPQNIQDQKEDLDLCTSCHPEKFFSHVRDGLNFG
 TQIGFISLRE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172488

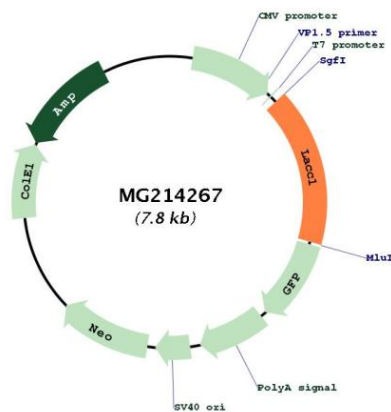
ORF Size: 1290 bp

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:	<ol style="list-style-type: none">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
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 MG214267