

Product datasheet for **MG201021**

Lage3 (NM_025410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lage3 (NM_025410) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lage3
Synonyms: 1110049G11Rik; Eso3; Itba2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201021 representing NM_025410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCAGACAGCACACAGGTTTAAGCCACACTGCAGATGGCGCCGATGGTCAGACTAGCCGCTGTTGTC
CTGGTAATGCAGGCACAAAGGCAGTTATCCCAGTGAGCGCACCTGTTGGAAGAGCACTGGAAGCCTC
CCGAAATCCAGCAAACGCATCGTGCTTTAACCCAAAGGCCTGGAAGCCGACATCACAGATTCGCCCTC
TTCGTGCCTTTCCCGACCTCTTTGGAGGCAGAAATCGCCTGTGGTCCCTAGTTCAGATGTGAACCCAC
ATCGAGGACTGGTAGGGAAGGAGCTTAAAGTGAGCGGCTGCATGCTGGAGGTACGCTGGATCTCGGAAGA
TTCTCGCCTCCTCCGACTTTCATCATCACTTTCTTGACCAGCTTCCCTAGTGGTGAACACCATACAG
CTCTTTGGGCCCCGATTTCTCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201021 representing NM_025410
Red=Cloning site Green=Tags(s)

MQTAHTGLSHTADGADGQTSRCCPGNAGTKAVIPSGAHPVGRALEASRNPSKRIVPLTQRPGRHRHFAL
 FVPFPTSLEAEIACGSLVPDVEPHRGLVGKELKVS GCMLVWRWISEDRLRLSIINFLDQLSLVNTIQ
 LFGPPVSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_025410

ORF Size: 444 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

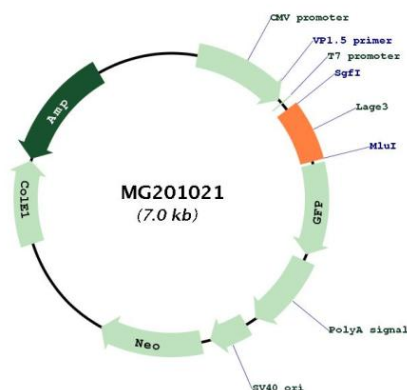
RefSeq: [NM_025410.1](#), [NP_079686.1](#)

RefSeq Size: 761 bp

RefSeq ORF: 447 bp

Locus ID:	66192
UniProt ID:	Q9CR70
Cytogenetics:	X A7.3
Gene Summary:	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. LAGE3 functions as a dimerization module for the complex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201021