

Product datasheet for MR201021

Lage3 (NM_025410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lage3 (NM_025410) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lage3
Synonyms: 1110049G11Rik; Eso3; Itba2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201021 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGACAGCACACAGGTTTAAGCCACACTGCAGATGGCGCCGATGGTCAGACTAGCCGCTGTTGTC
 CTGGTAATGCAGGCACAAAGGCAGTTATCCCAGTGGAGCGCACCTGTTGGAAGAGCACTGGAAGCCTC
 CCGAAATCCCAGCAAACGCATCGTGCCTTTAACCCAAAGGCCTGGAAGCCGACATCACAGATTCGCCCTC
 TTCGTGCCTTTCCCGACCTCTTTGGAGGCAGAAATCGCCTGTGGTCCCTAGTTCAGATGTGAACCCAC
 ATCGAGGACTGGTAGGGAAGGAGCTTAAAGTGAGCGGCTGCATGCTGGAGGTACGCTGGATCTCGGAAGA
 TTCTCGCCTCCTCCGACTTTCCATCATCACTTTCTTGACCAGCTTCCCTAGTGGTGAACACCATACAG
 CTCTTTGGGCCCCAGTTTCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201021 protein sequence
 Red=Cloning site Green=Tags(s)

MQTAHTGLSHTADGADGQTSRCCPGNAGTKAVIPSGAHPVGRALEASRNPSKRIVPLTQRPGRHHRFAL
 FVPFPTSLEAEIACGSLVPDVEPHRGLVGKELKVSQCMLVWRWISDSRLLRLSIINFLDQLSLVNTIQ
 LFGPPVSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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](#), [NM_025410.2](#), [NP_079686.1](#)

RefSeq Size: 760 bp

RefSeq ORF: 447 bp

Locus ID: 66192

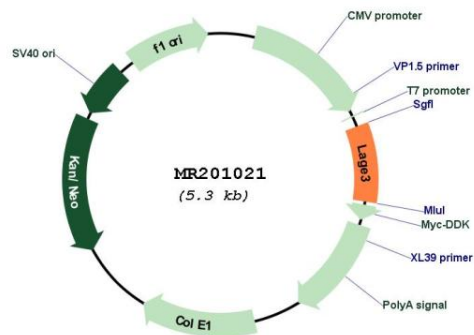
UniProt ID: [Q9CR70](#)

Cytogenetics: X A7.3

MW: 15.9 kDa

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 MR201021