

Product datasheet for MR206119

Galk1 (NM_016905) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galk1 (NM_016905) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galk1
Synonyms:	AA409894; GALK; Gk; Glk; Glk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206119 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTTGGAGACCGCCCGGGTCGAGGAGCTGCTGGCCGAGGCCCGCCGGCCTTCATGGAGGAGT
TTGGAGCCGAGCCGAGCTGGCAGTGTCCGGCGCCGGCCGCTCAACCTCATCGGGGAGCACACGGACTA
CAACCAGGGCCTGGTGTGCCATGGCACTGGAGCTCGTGACCGTGATGGTTGGCAGCCCCGGACAGAT
GGGCTTGTCTCTTCTCACCCTTCAAAGATGCAGACGAGCCCAAAGACTGCAGTCCCCTGCCCCT
CAGCCCAGTGGTCTTGGAGCCTGGAATCCACAGTGGGCAATTATGTCAAGGGAGTGATCAACATTA
CCCAGTTCCTCCGCTCGTTGGCTTCAGTGACGTGGTGGTTCAGCTCAGTCCCTGGGGGGTGGGCTTCC
AGCTCAGCGTCTCTGGAAGTGGCCACGTACACCTTCATCCAGCAGCTCTGCCAGACTCGGGGGCAATAG
CTGCCCGGGCCAGGTGTGTCAACGGGCTGAGCACAGCTTCGCAGGGGTGCCCTGTGGCATCATGGACCA
ACTCATCGCGTCTGGGGCAGAAAGGCTATGCACTACTCATTGACTGCAGGTCCCTGAAAACAAGCCTG
GTGCCACTGTGACACCAAGCTGGCCGTGCTCATCACAACCTCAATGTCCGCCATTCCCTGGGCTCCA
GCGAGTACCCGGTTCGTCCGGCAGAGTGTGAAGAAGTGGCCAGGCCCTGGGCAAGGAGAGCCTTCGAGA
GGTGCGGATGGAGGAGCTTGAGGCGGGCAGGGAGCTAATGAGCAAGGAGGGCTTCGGCGGGCCCCGGCAT
GTGGTAAGCGAGATCCGAGAACAGCCAGGCAGCAGCTGCTATGAGCCGAGGAGACTACAAGCCCTTTG
GGCGTCTCATGGTGGAGAGTCACTACTCACTCAGGGATGACTATGAGGTGAGTGCCTGAGCTGGATCA
ATTGGTTGAGGCCGCGCTCTCTGTGCTGGGTTTATGGCAGTCGCATGACAGGTGGTGGCTTTGGTGGC
TGCACCGTACATTGCTGGAGGCCTCTGTTGCCCTCTTGTGATAGATCATATACAGGAGCAGTACAGTG
GGACAGCCACCTTCTACCTCTCAAGCTGCCGATGGAGCCAGGTGCTGAGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206119 protein sequence
Red=Cloning site Green=Tags(s)

MAAWRPPRVEELLAEARRAFMEEFGAPELAVSAPGRVNLIGEHTDYNQGLVLPMALELVTVMVGSPRTD
 GLVSLLTTSKDADEPQRLQFPLPSAQWLEPGIPQWANYVKGVIQHYPASPLVGFSAVVVSSVPLGGGLS
 SSASLEVATYTFIQQLCPDSGAIARAQVCQRAEHSFAGVPCGIMDQLIALLGQKGYALLIDCRSLETSL
 VPLSDPKLAVLITNSNVRHSLGSSEYPVRRRQCEEVAQALGKESLREVRMEELEAGRELMSEKGFRRARH
 VVSEIRRTAQAAAAMSRGDYKAFGRMLMVESHYSLRDDYEVSCPELDQLVEAALSVPGVYGSRMTGGFGG
 CTVTLLLEASVAPLVIDHIQEYSGTATFYLSQAADGAQVLSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_016905

ORF Size: 1179 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.

RefSeq: [NM_016905.2](#), [NP_058601.2](#)

RefSeq Size: 1506 bp

RefSeq ORF: 1179 bp

Locus ID: 14635

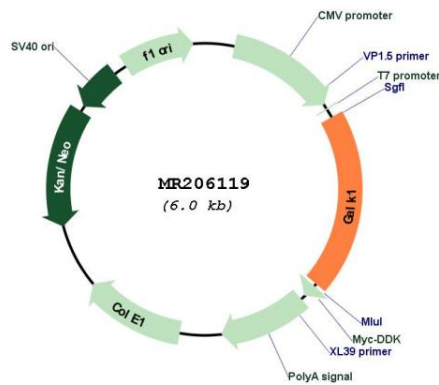
UniProt ID: [Q9R0N0](#)

Cytogenetics: 11 80.91 cM

MW: 42.3 kDa

Gene Summary: Major enzyme for galactose metabolism.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206119