

Product datasheet for **MR216381**

Galk2 (NM_175154) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galk2 (NM_175154) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galk2
Synonyms:	2810017M24Rik; AI327030; Gk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216381 representing NM_175154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGACCTATCTGAAAGATTGCTGAAGCTAAAAGAGATGTTAACTCTAAATTTGGGTCCACACCCA
 AGTTTTATGTTTCGAGCCCAGGAAGAGTCAACATAATAGGTGAGCACATAGATTACTGTGGATATTCCTG
 TATTCATGGCTGTGGAACAAGACATGTTAATAGCTGTGGAACCTGTGAAAACACACACTCTCCAACCTG
 GCTAATACAGACCCCTTGTATCCAGACTTCAGTACTACAGCTAATAACATCTGTATCGACAAGACCAAAAC
 CTCTATGGCACAACACTACTTCTTGTGTGGCTTAAAGGGAATTCAGGAACACTTTGGCCTTAGTAAGCTGCC
 TGGAAATGAATTGCCTGGTAGATGGAATATACCCCGAGTTCGGGCTCTCCAGCTCCAGTGTCTGTGTT
 TGCTGTGTGGTTAGTGACTCTCACGGTGTGGGACTGAGACTTCCAAGGTGGAACCTGCAGAAATCT
 GTGCCAAGAGTGAGCGCTACATAGGCACTGAAGGTGGCGGCATGGACCAGTCCATATCATTCTTGCAGA
 AGAAGGAACTGCCAAGTTAATAGAATTTAGCCCTCTGAGAGCGACTAATGTGAAGCTCCCAGTGGGGCA
 GCTTTTGTGATTGCCAACAGCTGCATGGAATGAACAAGGCGGCCACTTCACATTTCAATGTCAGGGTGA
 TGGAGTGTGACTGGCGCAAAGGTCCTTGCTAAACACAAGGCTTGCAATGGGATAATGTCCTGCGGCT
 AGAGGAAGTGCAAGCAAACCTCGGGATTAGTCTGGAAGAGATGCTGTTGGTACAGAGGATGCCCTTCAT
 CCTGAACCCTACAGCCGGGAGGAGATCTGCAGGTGCCTGGGAATAGCCTCGAGAGACTCCGCACCCAAA
 TCCTGACTCCAAATACTCAAGATGAACTCACCTTAAAGCTCTACCAGCGGGCCAAGCAGTGTACAGTGA
 GGCTGCACGCGTGTGCAGTTAAGCAGGTATGTGAAGATGCCAGACAACGCAGTCCAGCTGTGGGG
 GAGCTAATGAACCAGAGCCACAGAAGCTGCCGGGACATGTATGAGTGCAGCTGCCCTGAGCTGGACCAGC
 TAGTGGACATCTGCCGGAAGTTTGGGGCAAAGGCTCACGACTTACTGGAGCAGGATGGGAGGCTGCAC
 TGTGTCCCTCGTCCCGCTGACATGCTGTCCAGCTTCTCGCCAGTGTGCACGAAGCTTATTACCAGGGG
 AACACATCCCGCTGGCTCAGGAGAAGCATAGCTTGTGGCCACCAAGCCTGGAGCGGGGCTTGGTTT
 TCCGTGAGGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR216381 representing NM_175154
 Red=Cloning site Green=Tags(s)

MPDLSERLLKLFKEMFNSKFGSTPKFYVRAPGRVNIIGEHIIDYCGYSVIPMAVEQDMLIAVEPVKHTLQL
 ANTDPLYPDFSTANNICIDKTKPLWHNYFLCGFKGIQEHFGLSKLPGMNCLVDGNIPSSGLSSSSALV
 CCAGLVTLTVLGLRLSKVELAEICAKSERYIGTEGGMDQSI SFLAEEGTAKLIEF SPLRATNVKLP SGA
 VFVIANSCEMKNKAATSHFNVRVMECLAAKVLAKHKGLQWDNVLRL EEVQSKLGI SLEEMLLVTE DALH
 PEPYSREEICRCLGISLERLRTQILTPNTQDELTFKLYQRAKHVYSEAARVLQFKQVCEADAPDNAVQLLG
 ELMNQSHRSCRDMYECSPELDQLVDICRKF GAKGSRLTGAGWGGCTVSLVPADMLSSFLASVHEAYYQG
 NTSRLAQEKHSLFATKPGGGALVFREV

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_b11.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_175154

ORF Size: 1341 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_175154.3](#), [NP_780363.1](#)

RefSeq Size: 2520 bp

RefSeq ORF: 1344 bp

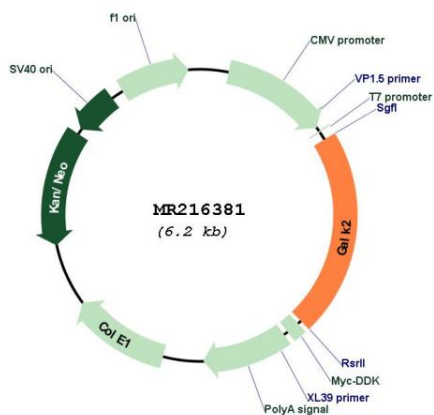
Locus ID: 69976

Cytogenetics: 2 F1

MW: 49.8 kDa

Gene Summary: Acts on GalNAc. Also acts as a galactokinase when galactose is present at high concentrations (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216381