

## Product datasheet for **MR230012**

### Galk2 (NM\_001291002) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galk2 (NM_001291002) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galk2
Synonyms:	2810017M24Rik; AI327030; Gk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>MR230012 representing NM\_001291002  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCGGAGGACCCTGCCACTCGACGAGTCCAGGTGGCAGAACATCCAGATTGCTGAAGCTAAAAG  
 AGATGTTTAACTCTAAATTTGGGTCCACACCCAAGTTTTATGTTTCGAGCCCAGGAAGAGTCAACATAAT  
 AGGTGAGCACATAGATTACTGTGGATATTCCGTTATTCCCATGGCTGTGGAACAAGACATGTTAATAGCT  
 GTGGAACCTGTGAAAACACACTCTCCAAGTGGTAATACAGACCCCTTGATCCAGACTTCAGTACTA  
 CAGCTAATAACATCTGTATCGACAAGACCAAACCTCTATGGCACAACACTTCTTGTGTGGCTTTAAGGG  
 AATTCAGGAACACTTTGGCCTTAGTAAGCTGCCTGGAATGAATTGCCTGGTAGATGAAAATATACCCCCG  
 AGTTCCGGCCTCTCCAGCTCCAGTGTCTGGTTTGTGTGCTGGGTTAGTGACTCTCACGGTGTGGGAC  
 TGAGACTTTCCAAGGTGGAAGTGCAGAAATCTGTGCCAAGAGTGAGCGCTACATAGGCACTGAAGGTGG  
 CGGCATGGACCAGTCCATATCATTCTGCAGAAGAAGGAAGTCCAAGTTAATAGAATTTAGCCCTCTG  
 AGAGCGACTAATGTGAAGCTCCCAAGTGGGGCAGTCTTTGTGATTGCCAACAGCTGCATGGAAATGAACA  
 AGGCGGCCACTTCACATTTCAATGTGAGGGTGTGGAGTGTGACTGGCGGCAAAGGTCCTTGCTAAACA  
 CAAAGGCTTGCAATGGGATAATGTCTGCGGCTAGAGGAAGTGCAAAGCAAACCTCGGGATTAGTCTGGAA  
 GAGATGCTGTTGGTACAGAGGATGCCCTTCATCTGAACCTACAGCCGGGAGGAGATCTGCAGGTGCC  
 TGGGAATTAGCCTCGAGAGACTCCGCACCCAAATCCTGACTCCAAATACTCAAGATGAACACACCTTTAA  
 GCTCTACCAGCGGGCCAAAGCAGTGTACAGTGAAGGCTGCACGCGTGTGCAGTTAAGCAGGTATGTGAA  
 GATGCGCCAGACAACGCAGTCCAGTGTGGGGAGCTAATGAACCAGAGCCACAGAAGTGCCTGGGACA  
 TGTATGAGTGCAGTGCCTGAGCTGGACCAGTGTGGACATCTGCCGGAAGTTGGGGCCAAAGGCTC  
 ACGACTTACTGGAGCAGGATGGGGAGGCTGCAGTGTGTCCCTCGTGCCCGCTGACATGCTGTCCAGCTTT  
 CTCGCCAGTGTGCACGAAGCTTATTACCAGGGGAACACATCCCGCCTGGCTCAGGAGAAGCATAGCTTGT  
 TTGCCACCAAGCCTGGAGGCGGGCCTTGGTTTTCCGTGAGGTC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230012 representing NM\_001291002  
 Red=Cloning site Green=Tags(s)

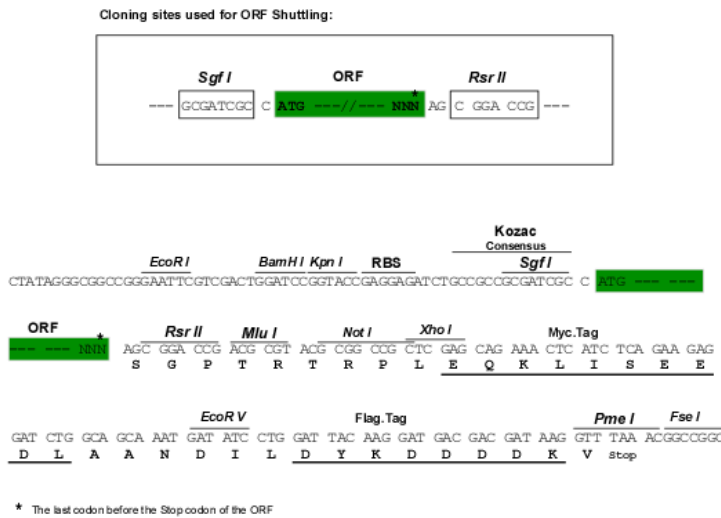
MAAEDPATRRVQVAEHPRLKLEMFNSKFGSTPKFYVRAPGRVNIIGEHIIDYCYGVIPMAVEQDMLIA  
 VEPVKHTLQLANTDPLYPDFSTTANNICIDKTKPLWHNYFLCGFKIQEHFGLSKLPGMNCLVDGNIPP  
 SSSLSSSSALVCCAGLVTLTVLGLRLSKVELAEICAKSERYIGTEGGMDQSI SFLAEEGTAKLIEFSPL  
 RATNVKLPSGAVFVIANSCEMKNKAATSHFNVRVMECRLAAKVLAKHKGLQWDNVLRL EEVQSKLGISLE  
 EMLLVTEALHPEPYSREEICRCLGISLERLRTQILTPNTQDELTFKLYQRAKHVYSEAAARVLQFKQVCE  
 DAPDNAVQLL GELMNQSHRSCRDMYECSCPELDQLVDICRKFAGKGSRLTGAGWGGCTVSLVPADMLSSF  
 LASVHEAYYQGNTRSRLAQEKHSLFATKPGGGALVFREV

**SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

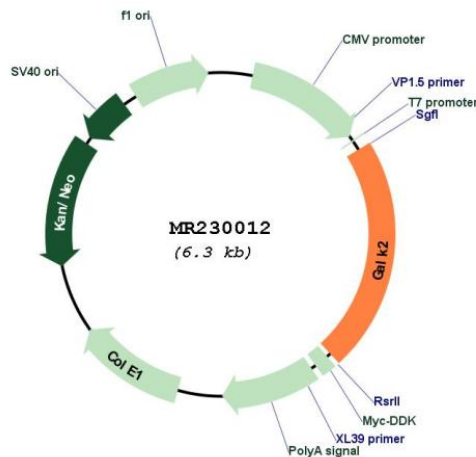
**Restriction Sites:**

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291002

ORF Size: 1374 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\\_001291002.1](#), [NP\\_001277931.1](#)

**RefSeq Size:** 2523 bp

**RefSeq ORF:** 1377 bp

**Locus ID:** 69976

**UniProt ID:** [Q68FH4](#)

**Cytogenetics:** 2 F1

**MW:** 51 kDa

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