

Product datasheet for **RR206485**

Galk2 (NM_001013919) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galk2 (NM_001013919) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Galk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206485 representing NM_001013919 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGGAGGACCCCGCCACGCGCAGTCCAAGTGGCAGAACACCCAGATTGCTGAAGCTAAAAG
AGATGTTCAACTAAGTTTGGGTCCACACCCAAGTTTTATGTTTCGAGCCCCAGGAAGAGTGAACATAAT
AGGTGAGCACATAGATTACTGTGGTACTCTGTTCTCCCATGGCTGTGGAGCAGGACATGCTAATAGCT
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CAGCTAATAACATCTGTATCGACAAGACCAACCTCTATGGCACAACACTTCTATGTGGATTTAAGGG
AATTCAGGAACACTTTGGTCTTACTCAGCTGCCTGGAATGAATTGCCTGGTGGATGGAATATACCCCCG
AGTTCAGGCCTCTCCAGCTCCAGTGTCTGGTTTGTGCGCTGGGTTAGTGACTCTCACAGTGTGGGAA
TGAGACTATCCAAGGTGGAACCTGCAGAAATCTGTGCAAGAGTGAGCGTTACATAGGCACCGAAGGCGG
AGGCATGGACCAGTCCATATCATTCTTGCAAGAAGGAAGTCCCAAGTTAATAGAATTTAGTCTCTG
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AGGCAGCCACTTCACATTTCAACGTCAAGGTGATGGAGTGTGCGCTGGCGCAAAGTCTTGCTAAACA
CAAAGGCTTGCAATGGGATAAAGTCTGAGGCTAGAGGAAGTACAAGCGAACTAGGAATTAGTCTGGAA
GAGATGCTATTGGTCCAGAGGATGCCCTTCATGCAGAACCTACTCAAGGGAGGAGATCTGTAAGTGCC
TGGGAATTAGCCTGGAGGAACTCCGCACCCAAATCCTGAGTCCAATACTCAAGGCGAACTCACCTTCAA
GCTCTACCAGCGGGCCAAGCATGTGTACAGTGAAGCTGCACGTGTGCTGCAGTTCAAGCAGGTGTGCGAA
GCAGCACCAGACAACGCCGTCCAGCTGTGGGCGAGCTGATGAACCAGAGCCACAGAAGCTGCCGGGACA
TGTATGAGTGCAGCTGCCGGAATTGGATCAGCTAGTGGACATCTGCCGGAAGTTGGGGCCAAAGGCTC
ACGACTTACTGGAGCCGGATGGGAGGCTGCACGTGTCCCTCGTGCCTGCTGACACGCTGTCCAGCTTC
CTCGAAGCGTGATGAGGCTTACTACAGGGGAACATGTCCCGCTGGCTCGGGAGAAGCATAGCTTGT
TTGCTACCAAGCCTGGAGGTGGGCCCTTGGTTTTTCCTTGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206485 representing NM_001013919
 Red=Cloning site Green=Tags(s)

MAAEDPATRRVQVAEHPRLKLLKEMFNSKFGSTPKFYVRAPGRVNIIGEHDYCGYSVLPMAVEQDMLIA
 VGPVKQTQLQLANTDPLYPDFSTTANNICIDKTQPLWHNYFLCGFKIQEHFGLTQLPGMNCLVDGNIPP
 SSSLSSSSALVCCAGLVTLLVGMRLSKVELAEICAKSERYIGTEGGMDQSI SFLAEEGTAKLIEFSPL
 RATDVKLPSGAVFVIANSCEVEMNKAATSHFNVRVMECLAAKVLAKHKGLQWDKVLRL EEEVQSELGISLE
 EMLLVTE DALHAEPYSREEICKLGLISLEELRTQILSPNTQEGELTFKLYQRAKHVYSEAARVLQFKQVCE
 AAPDNAVQLLGELMNQSHRSCRDMYECSCPELDQLVDICRKFAGAKSRLTGAGWGGCTVSLVPADTLSSF
 LASVHEAYYQGNMSRLAREKHSLFATKPGGGALVFLEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

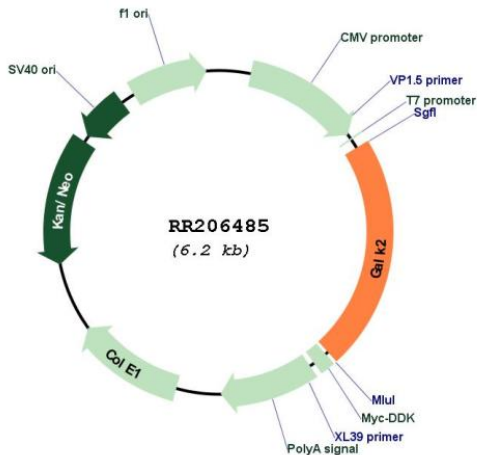
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001013919
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:	<ol style="list-style-type: none">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_001013919.1 , NP_001013941.1
RefSeq Size:	1797 bp
RefSeq ORF:	1377 bp
Locus ID:	296117
UniProt ID:	Q5XIG6
Cytogenetics:	3q36
MW:	50.2 kDa
Gene Summary:	Acts on GalNAc. Also acts as a galactokinase when galactose is present at high concentrations (By similarity).[UniProtKB/Swiss-Prot Function]