

## Product datasheet for **MG207321**

### **Galk2 (BC079843) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Galk2 (BC079843) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galk2
Synonyms:	2810017M24Rik; AI327030; Gk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207321 representing BC079843  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCGGAGGACCCTGCCACTCGACGAGTCCAGGTGGCAGAACATCCCAGATTGCTGAAGCTAAAAG  
 AGATGTTTAACTCTAAATTTGGGTCCACACCCAAGTTTTATGTTTCGAGCCCAGGAAGAGTCAACATAAT  
 AGGTGAGCACATAGATTACTGTGGATATTCGGTTATTCCCATGGCTGTGGAACAAGACATGTTAATAGCT  
 GTGGAACCTGTGAAAACACACACTCTCCAAGTGGCTAATACAGACCCCTTGATCCAGACTTCAGTACTA  
 CAGCTAATAACATCTGTATCGACAAGACCAACCTCTATGGCACAACACTTCTTGTGTGGCTTTAAGGG  
 AATTCAGGAACACTTTGGCCTTAGTAAGCTGCCTGGAATGAATTGCCTGGTAGATGGAAATATACCCCG  
 AGTTCCGGCCTCTCCAGCTCCAGTGTCTGGTTTGTGTGCTGGTTAGTGACTCTCACGGTGTGGGAC  
 TGAGACTTTCAAGGTGGAACCTGCAGAAATCTGTCCAAGAGTGAGCGTACATAGGCACTGAAGTGG  
 CGGCATGGACCAGTCCATATCATTCTTGCAGAAGAAGGAAGTCCAAGTTAATAGAATTTAGCCCTCTG  
 AGAGCGACTAATGTGAAGCTCCCAAGTGGGGCAGTCTTTGTGATTGCCAACAGCTGCATGGAAATGAACA  
 AGGCGGCCACTTCACATTTCAATGTGAGGTGATGGAGTGTGCTGACTGGCGCAAAGGTCCTTGCTAAACA  
 CAAAGGCTTGAATGGGATAATGTCTGCGGCTAGAGGAAGTCAAAGCAAACCTCGGATTAGTCTGGAA  
 GAGATGCTGTTGGTCACAGAGGATGCCCTTCATCCTGAACCTACAGCCGGGAGGAGATCTGAGGTGCC  
 TGGGAATTAGCCTCGAGAGACTCCGACCCAAATCCTGACTCAAATACTCAAGTGAACACACCTTTAA  
 GCTCTACCAGCGGGCCAAGCAGTGTACAGTGAAGCTGCACGCGTGTGCAGTTTAAAGCAGGTATGTGAA  
 GATGCGCCAGACAACGCAGTCCAGTGTGGGGGAGCTAATGAACCAGAGCCACAGAAGCTGCCGGGACA  
 TGTATGAGTGCAGTCCCTGAGCTGGACCAGTGTGGACATCTGCCGGAAGTTTGGGGCAAAGGCTC  
 ACGACTTACTGGAGCAGGATGGGGAGGCTGCACTGTTCCTCGTGCCCGCTGACATGCTGTCCAGCTTT  
 CTCGCCAGTGTGCACGAAGCTTATTACCAGGGGAACATCCCGCCTGGCTCAGGAGAAGCATAGCTTGT  
 TTGCCACCAAGCCTGGAGGCGGGCCTTGGTTTTCCGTGAGGTC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207321 representing BC079843  
 Red=Cloning site Green=Tags(s)

MAAEDPATRRVQVAEHPRLKELKEMFNSKFGSTPKFYVRAPGRVNIIGEHIIDYCGYSVIPMAVEQDMLIA  
 VEPVKHTLQLANTDPLYPDFSTANNICIDTKPLWHNYFLCGFKGIQEHFGLSKLPGMNCLVDGNIPP  
 SSSLSSSSALVCCAGLVTLVGLRLSKVELAEICAKSERYIGTEGGMDQSI SFLAEEGTAKLIEFSPL  
 RATNVKLP SGAVFVIANSCEMKNKAATSHFNVRVMECRLAAKVLAKHKGLQWQVLRLEEVQSKLGISLE  
 EMLLVTE DALHPEPYSREEICRCLGISLERLRQILTPNTQDELTFKLYQRAKHVYSEAAARVLQFKQVCE  
 DAPDNAVQLLGELMNQSHRSCRDMYECSCPELDQLVDICRKF GAKGSRLTGAGWGGCTVSLVPADMLSSF  
 LASVHEAYYQNTSRLAQEKHSLFATKPGGGALVFREV

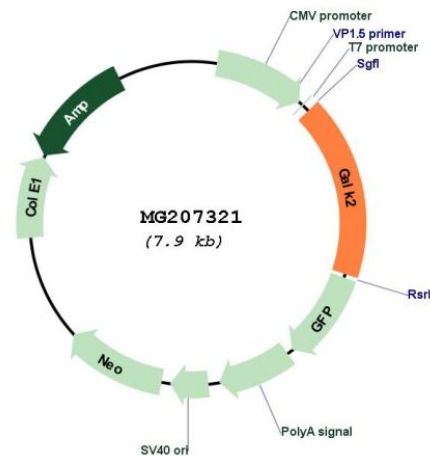
SGP**TRRRLE** - GFP Tag - V

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:


**Plasmid Map:**

**ACCN:** BC079843

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC079843.1</a></u>
<b>RefSeq Size:</b>	1802 bp
<b>RefSeq ORF:</b>	1376 bp
<b>Locus ID:</b>	69976
<b>Cytogenetics:</b>	2 F1
<b>Gene Summary:</b>	Acts on GalNAc. Also acts as a galactokinase when galactose is present at high concentrations (By similarity).[UniProtKB/Swiss-Prot Function]