

Product datasheet for **RG200475**

GALK2 (NM_002044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALK2 (NM_002044) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALK2
Synonyms:	GK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200475 representing NM_002044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACAGAGACCCCTGCTACCGCTCGGGTCCAGGTGGCAGAACATCCTAGGTTACTGAAGCTAAAGG
 AGATGTTTAACTCCAAGTTTGGATCTATCCCAAGTTTTATGTTTCGAGCACCAGGAAGAGTCAACATAAT
 AGGAGAGCATATAGATTATTGTGGATATTCTGTTCTTCCTATGGCTGTAGAACAAGATGTGCTAATAGCT
 GTAGAACCTGTGAAAACGTACGCTCTCCAAGTGGCCAATACAAATCCCTTGTATCCGGACTTCAGTACTA
 GTGCTAATAACATCCAGATTGATAAAACCAAGCCTTTGTGGCACAACATTTTCTTATGTGGACTTAAAGG
 AATTCAGGAACACTTTGGTCTTAGTAACCTGACTGGAATGAACCTGCCTGGTAGATGGAAATATCCCACCA
 AGTTCTGGCCTCTCCAGCTCCAGTGCTTTGGTCTGTTGTGCTGGCTTGGTACGCTCACAGTCTGGGAA
 GGAATCTATCCAAGGTGGAACCTGCAGAAATCTGTCCAAGAGTGAGCGTTACATTGGCACTGAAGGAGG
 AGGCATGGACCAGTCTATATCATTCTTGCAGAAGAAGGAACCTGCAAGTTGATAGAATTTAGTCTCTG
 AGGGCAACCGATGTAACACTCCCAAGTGGAGCAGTGTGTTGTGATTGCAACAGTTGTGTGGAGATGAATA
 AGGCAGCAACTTCCCATTCAATATCAGGGTGTGGAGTGTGGCTGGCTGCGAAGCTCCTGGCTAAATA
 CAAAAGCTTGAATGGGACAAAGTACTGAGGCTGGAGGAGGTGCAGGCTAAACTAGGGATTAGTCTAGAA
 GAAATGCTGTTGGTCACAGAAGATGCCCTTCATCCTGAACCCTATAACCTGAGGAGATCTGCAGGTGTC
 TGGGAATTAGCCTGGAGGAACCTCCGAACCCAAATCCTGAGTCCAAACACTCAAGATGTGCTCATCTTCAA
 ACTCTATCAGCGGGCAAAGCATGTGTACAGCGAGGCTGCGCGAGTGTCCAGTTTAAAGAATATGTGAA
 GAAGCACCTGAAAACATGGTCCAGCTGCTGGGAGAGTTGATGAACCAGAGCCACATGAGCTGCCGGGACA
 TGTATGAGTGCAGCTGCCCGAGCTGGATCAGCTGGTGGACATCTGTCGGAAGTTTGGGGCTCAAGGGTC
 ACGACTTACTGGAGCAGGATGGGAGGCTGTACAGTATCAATGGTACCTGCGGACAAGCTGCCAGCTTT
 CTAGCAAATGTGCACAAAGCTTATTACCAGAGGAGTGTGGAAGCTTAGCACCGGAGAAGCAAAGTTTGT
 TTGCTACCAAACCTGGAGGTGGGCTTTGGTTTTGCTTGAGGCC

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

Protein Sequence:

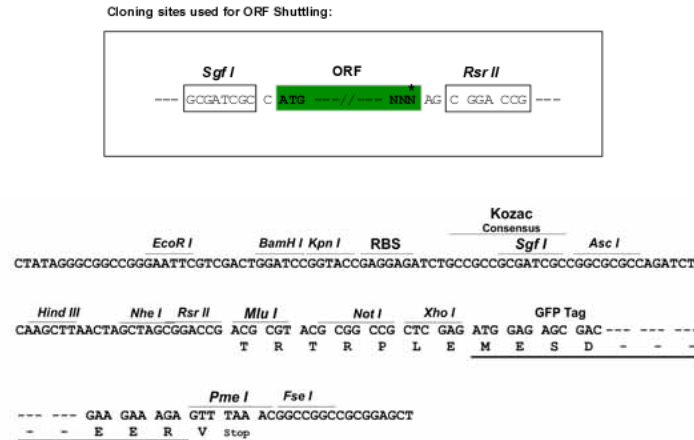
>RG200475 representing NM_002044
 Red=Cloning site Green=Tags(s)

MATESPATRRVQVAEHPRLKELKEMFNSKFGSIPKFYVRAPGRVNIIGEHIIDYCGYSVLPMAVEQDVLIA
 VEPVKTYALQLANTNPLYPDFSTSAANNIQQDKTKPLWHNYFLCGLKGIQEHFGLSNLTGMNCLVDGNIPP
 SSSLSSSSALVCCAGLVTLTVLGRNLSKVELAEICAKSERYIGTEGGMDQSI SFLAEEGTAKLIEFSPL
 RATDVKLPSGAVFVIANSCEMKAATSHFNIRVMECRLAAKLLAKYKSLQWDKVLRLIEEVQAKLGISLE
 EMLLVTEDELHPEPYNPEEICRCLGISLEELRTQILSPNTQDVLIFKLYQRAKHVYSEARVLFQFKKICE
 EAPENMVQLLGELMNQSHMSCRDMYECSCPELDQLVDICRKFQAQGSRLTGAGWGGCTVSMVPADKLPSP
 LANVHKAYYQRS DGLAPEKQSLFATKPGGGALVLEA

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_002044

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_002044.1](#)

RefSeq Size: 3121 bp

RefSeq ORF: 1377 bp

Locus ID: 2585

UniProt ID: [Q01415](#)

Cytogenetics: 15q21.1-q21.2

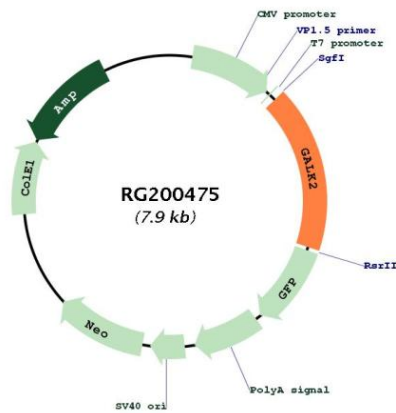
Domains: GHMP_kinases

Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways

Gene Summary: This gene encodes a highly efficient N-acetylgalactosamine (GalNAc) kinase, which has galactokinase activity when galactose is present at high concentrations. The encoded protein is a member of the GHMP kinase family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2017]

Product images:



Circular map for RG200475