

## Product datasheet for **RG238207**

### **GALK2 (NM\_001289030) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GALK2 (NM_001289030) 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)
ORF Nucleotide Sequence:	>RG238207 representing NM_001289030. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTAACTCCAAGTTTGGATCTATTCCTCAAGTTTTATGTTTCGAGCACCAGGAAGAGTCAACATAATA
GGAGAGCATATAGATTATTGTGGATATTCTGTTCTTCTATGGCTGTAGAACAAGATGTGCTAATAGCT
GTAGAACCTGTGAAAACGTACGCTCTCCAAGTGGCCAATACAAATCCCTTGATCCGGACTTCAGTACT
AGTGCTAATAACATCCAGATTGATAAAACCAAGCCTTTGTGGCACAACATTTCTTATGTGGACTTAAA
GGAATTCAGGAACACTTTGGTCTTAGTAACCTGACTGGAATGAACTGCCTGGTAGATGAAATATCCCA
CCAAGTTCTGGCCTCTCCAGCTCCAGTCTTTGGTCTGTTGTGCTGGCTTGGTGACGCTCACAGTGTG
GGAAGGAATCTATCCAAGGTGGAACCTGCAGAAATCTGTGCCAAGAGTGAGCGTTACATTGGCACTGAA
GGAGGAGGCATGGACCAGTCTATATCATTCTTGCAGAAGAAGGAACTGCCAAGTTGATAGAATTTAGT
CCTCTGAGGGCAACCGATGTAAAACCTCCAAGTGGAGCAGTGTGTTGTGATTGCCAACAGTTGTGTGGAG
ATGAATAAGGCAGCAACTTCCCATTTCAATATCAGGGTGTAGGAGTGTGCGCTGGCTGCCAAGCTCCTG
GCTAAATACAAAAGCTTGCAATGGGACAAAGTACTGAGGCTGGAGGAGTGCAGGCTAAACTAGGGATT
AGTCTAGAAGAAATGCTGTTGGTACAGAAGATGCCCTTCATCCTGAACCCTATAACCCTGAGGAGATC
TGCAGGTGTCTGGGAATTAGCTGGAGGAACTCCGAACCCAAATCCTGAGTCCAAACACTCAAGATGTG
CTCATCTTCAAACCTATCAGCGGGCAAAGCATGTGTACAGCGAGGCTGCCGAGTGCTCCAGTTTAAAG
AAGATATGTGAAGAAGCACCTGAAAACATGGTCCAGCTGCTGGGAGAGTTGATGAACAGAGCCACATG
AGCTGCCGGGACATGTATGAGTGCAGCTGCCCGAGCTGGATCAGCTGGTGGACATCTGTGGAAGTTT
GGGGCTCAAGGTCACGACTTACTGGAGCAGGATGGGGAGGCTGCACAGTATCAATGGTACCTGCCGAC
AAGCTGCCAGCTTTCTAGCAAATGTGCACAAAGCTTATTACCAGAGGAGTATGGAAGCTTAGCACCC
GAGAAGCAAAGTTTGTGTTGCTACCAAACCTGGAGGTGGGGCTTTGGTTTTGCTTGAGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



View online »

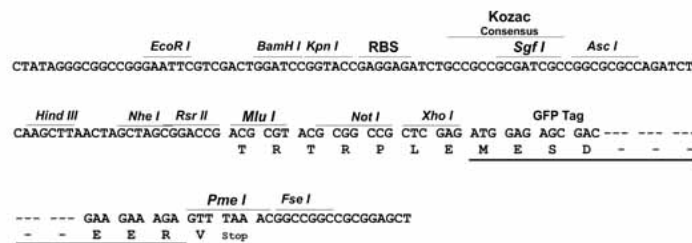
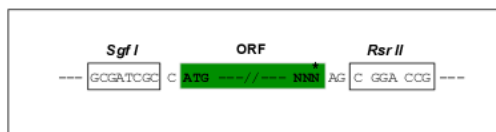
**Protein Sequence:** >Peptide sequence encoded by RG238207  
 Blue=ORF Red=Cloning site Green=Tag(s)

MFNSKFGSIPKFYVRAPGRVNIIGEHIIDYCGYSVLPMAVEQDVLIAVEPVKTYALQLANTNPLYPDFST  
 SANNIQIDKTKPLWHNYFLCGLKGIQEHFGLSNLTGMNCLVDGNIPSSGLSSSSALVCCAGLVTLTVL  
 GRNLKVELAEICAKSERYIGTEGGMDQISIFLAEEGTAKLIEFSPLRATDVKLPAGVFIANSCEV  
 MNKAATSHFNIRVMECRLLAAKLLAKYKSLQWDKVLRLLEEVQAKLGI SLEEMLLVTEDELHPEPYNPEEI  
 CRCLGISLEELRTQILSPNTQDVLIFKLYQRAKHVYSEARVLQFKKICEEAPENMVQLL GELMNQSHM  
 SCRDMYECSCPELDQLVDICRKF GAQGSRLTGAGWGGCTVSMVPADKLP SFLANVHKAYQRSDGSLAP  
 EKQSLFATKPGGGALVLLLEA  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_001289030

**ORF Size:** 1302 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](#)

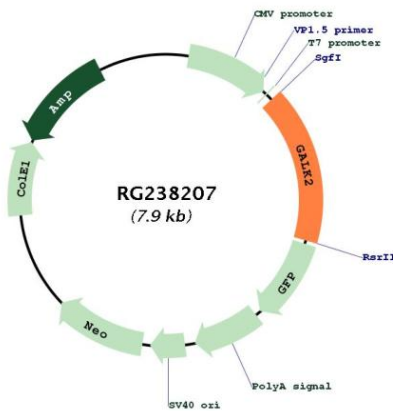
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001289030.2](#)

RefSeq Size:	3460 bp
RefSeq ORF:	1305 bp
Locus ID:	2585
Cytogenetics:	15q21.1-q21.2
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways
MW:	48.1 kDa
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 RG238207