

## Product datasheet for RC238207

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GALK2 (NM_001289030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GALK2
Synonyms:	GK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238207 representing NM_001289030 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGC**C

ATGTTTAACTCCAAGTTTGGATCTATCCCAAGTTTTATGTTTCGAGCACCAGGAAGAGTCAACATAATAG  
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GCTACCAAACCTGGAGGTGGGGCTTTGGTTTTGCTTGAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238207 representing NM\_001289030  
Red=Cloning site Green=Tags(s)

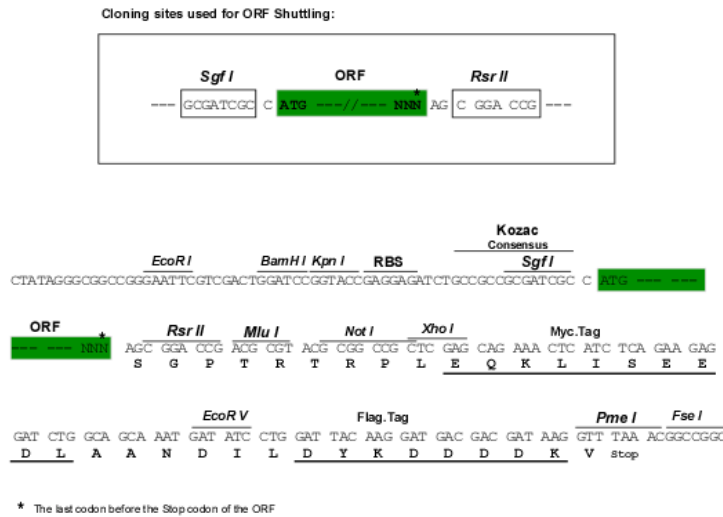
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 GISLEELRTQILSPNTQDVLIFKLYQRAKHVYSEAAARVLQFKICEEAPENMVQLLGELMNQSHMSCRDM  
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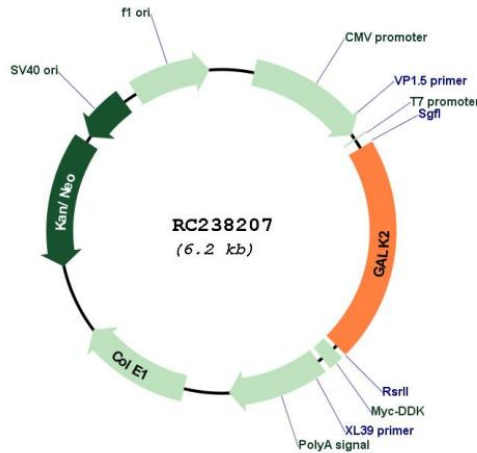
**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001289030

<b>ORF Size:</b>	1302 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001289030.2</a>
<b>RefSeq Size:</b>	3460 bp
<b>RefSeq ORF:</b>	1305 bp
<b>Locus ID:</b>	2585
<b>Cytogenetics:</b>	15q21.1-q21.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways
<b>MW:</b>	48.1 kDa
<b>Gene Summary:</b>	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]