

## Product datasheet for SC336101

### GALK2 (NM\_001289030) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GALK2 (NM_001289030) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALK2
Synonyms:	GK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336101 representing NM_001289030. Blue=Insert sequence Red=Cloning site Green=Tag(s)

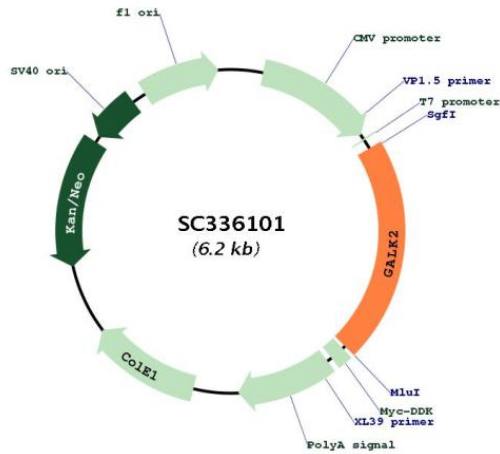
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GGAGAGCATATAGATTATTGTGGATATTCTGTTCTTCTATGGCTGTAGAACAAGATGTGCTAATAGCT
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AGTGCTAATAACATCCAGATTGATAAAACCAAGCCTTTGTGGCACAACATTTCTTATGTGGACTTAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

**Plasmid Map:**



ACCN: NM\_001289030

Insert Size: 1305 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001289030.1](#)

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:** 47.6 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]

Transcript Variant: This variant (3) contains an alternate 5' exon and uses a downstream translation start codon, compared to variant 1. The encoded protein (isoform 3) has a shorter N-terminus, compared to isoform 1. Variants 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.