

## Product datasheet for **RN213355**

### **Gck (NM\_012565) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gck (NM_012565) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gck
Synonyms:	GLK; GLUKA; RNGK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN213355 representing NM\_012565  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTATGGATACTACAAGGTGTGGAGCCAGTTGTTGACTCTGGTCGAGCAGATCCTGGCAGAGTTCC  
AGCTGCAGGAGGAAGACCTGAAGAAGGTGATGAGCCGGATGCAGAAGGAGATGGACCGTGGCCTGAGGCT  
GGAGACCCACGAGGAGGCCAGTGTAAAGATGTTACCCACCTACGTGCGTTCACCCAGAGGCTCAGAA  
GTCCGAGACTTCTCCTTAGACCTGGGAGGAACCACTTCAGAGTGTGCTGGTCAAAGTGGGAGAGG  
GGGAGGCAGGGCAGTGGAGCGTGAAGACAAAACACCAGATGACTCCATCCCCGAGGACGCCATGACGGG  
CACTGCCGAGATGCTCTTTGACTACATCTCTGAATGCATCTCTGACTTCTTGACAAGCATCAGATGAAG  
CACAAGAACTGCCCTGGGCTTCACTTCTCCTTCCCTGTGAGGCACGAAGACCTAGACAAGGGCATCC  
TCCTCAATTGGACCAAGGGCTTCAAGGCCTCTGGAGCAGAAGGGAACAACATCGTAGGACTTCTCCGAGA  
TGCTATCAAGAGGAGAGGGGACTTTGAGATGGATGTGGTGGCAATGGTGAACGACACAGTGGCCACAATG  
ATCTCCTGCTACTATGAAGACCCCAATGTGAGGTCGGCATGATTGTGGGCACTGGCTGCAATGCCTGCT  
ACATGGAGGAAATGCAGAATGTGGAGCTGGTGGAGGGGATGAGGGACGCATGTGCGTCAACACGGAGTG  
GGGCGCCTTCGGGACTCGGGCAGCTGGATGAGTTTCTACTGGAGTATGACCGGATGGTGGATGAAAGC  
TCAGCGAACCCCGTACGAGCTGTACGAGAAGATCATCGGTGGGAAGTATATGGGCGAGCTGGTACGAC  
TTGTGCTGCTTAAGCTGGTGGACGAGAACCTTCTGTTCCACGGAGAGGCCCTCGGAGCAGCTGCGCACGG  
TGGTGCTTTTGAGACCGTTTCGTGTACAAGTGGAGAGCGACTCCGGGGACCGAAAGCAGATCCACAAC  
ATCCTAAGCACTCTGGGCTTCGACCTCTGTACCGACTGCGACATTGTGCGCCGTGCCTGTGAAAGCG  
TGTCCACTCGCGCCCCATATGTGCTCCGAGGACTAGCTGGGGTCATAAATCGCATCGCGGAAAGCCG  
CAGTGAGGACGTGATGCCATCACTGTGGCGTGGATGGCTCCGTGTACAAGCTGCACCCGAGCTTCAAG  
GAGCGGTTTCACGCCAGTGTGCCAGGCTGACACCCAACCTGCGAAATCACCTTCATCGAATCAGAGGAGG  
GCAGCGCAGGGGAGCCGCGCTGGTCTCTGCGGTGGCCTGCAAGAAGGCTTGCATGCTGGCCAGTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_012565

**Insert Size:** 1398 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\\_012565.2](#), [NP\\_036697.1](#)

RefSeq Size: 2343 bp

RefSeq ORF: 1398 bp

Locus ID: 24385

UniProt ID: [P17712](#)

Cytogenetics: 14q21

**Gene Summary:** catalyzes the conversion of ATP and D-glucose to ADP and D-glucose 6-phosphate; may mediate glucosensing in glucose-inhibited and glucose-excited neurons [RGD, Feb 2006]  
Transcript Variant: This variant (2) lacks an alternate coding exon and uses an alternate splice junction at the 3' end of another coding exon compared to variant 1. The resulting isoform (2) has the same N-and C-termini but differs in an internal segment compared to isoform 1.  
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.