

## Product datasheet for **RN216795**

### **Gck (NM\_001270849) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gck (NM_001270849) 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:** >RN216795 representing NM\_001270849  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTATGGATACTACAAGGTGTGGAGCCAGTTGTTGACTCTGGGCACCAACAAATGCACGAATGCAT  
 GCTCCCTGCTGTGCAGAGCGGGTACTACAACGGGCACATGAACCCTCGCTGCCGAACAGAGCAGGCGGC  
 CGCCACACAGCTGCCACCTGCAGAGTCCAGCTACTCTTGAACATCATGTGGAGGGTCGAGCAGATCCT  
 GGCAGAGTTCAGCTGCAGGAGGAAGACCTGAAGAAGGTGATGAGCCGGATGCAGAAGGAGATGGACCGT  
 GGCCTGAGGCTGGAGACCCACGAGGAGAAGTCGGAGACTTTCTCTCCTTAGACCTGGGAGGAACCAACT  
 CAGAGTGATGCTGGTCAAAGTGGGAGAGGGGGAGGCAGGGCAGTGGAGCGTGAAGACAAAACACCAGATG  
 TACTCCATCCCGAGGACCCATGACGGGCACTGCCGAGATGCTTTTGACTACATCTCTGAATGCATCT  
 CTGACTTCCTTGACAAGCATCAGATGAAGCACAAGAACTGCCCTGGGCTTACCTTCTCCTCCCTGT  
 GAGGCACGAAGACCTAGACAAGGCATCCTCCTCAATTGGACCAAGGGCTTCAAGGCCTCTGGAGCAGAA  
 GGAACAAACATCGTAGGACTTCTCCGAGATGCTATCAAGAGGAGAGGGGACTTTGAGATGGATGTGGTGG  
 CAATGGTGAACGACACAGTGGCCACAATGATCTCCTGCTACTATGAAGACCGCCAATGTGAGGTCGGCAT  
 GATTGTGGGCACTGGCTGCAATGCCTGTACATGGAGGAAATGCAGAATGTGGAGCTGGTGAAGGGGAT  
 GAGGGACGCATGTGCGTCAACACGGAGTGGGGCGCCTTCGGGGACTCGGGCGAGCTGGATGAGTTCCTAC  
 TGGAGTATGACCGGATGGTGGATGAAAGCTCAGCGAACCCCGGTGAGCAGCTGTACGAGAAGATCATCGG  
 TGGGAAGTATATGGGCGAGCTGGTACGACTTGTGCTGCTTAAGCTGGTGGACGAGAACCTTCTGTCCAC  
 GGAGAGCCTCGGAGCAGCTGCCACCGCTGGTGTCTTTGAGACCCGTTTCGTGTACAAGTGGAGAGCC  
 ACTCCGGGGACCGAAAGCAGATCCACAACATCCTAAGCACTCTGGGGCTTCGACCCTCTGCACCCGACTG  
 CGACATTGTGCGCGTGCCTGTGAAAGGTGTCCACTCGCGCCGCCATATGTGCTCCGCAGGACTAGCT  
 GGGGTCATAAATCGCATGCGCGAAAGCCGCACTGAGGACGTGATGCGCATCACTGTGGGCGTGGATGGCT  
 CCGTGTACAAGCTGCACCCGAGCTTCAAGGAGCGGTTTACGCCAGTGTGCGCAGGCTGACACCCAACTG  
 CGAAATCACCTTCATCGAATCAGAGGAGGGCAGCGGCAGGGGAGCCGCGCTGCTCTGCGGTGGCTGC  
 AAGAAGGCTTGCATGCTGGCCAGTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001270849

**Insert Size:** 1497 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001270849.1](#), [NP\\_001257778.1](#)

**RefSeq Size:** 2442 bp

**RefSeq ORF:** 1497 bp

**Locus ID:** 24385

**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 (1) represents the longest transcript and encodes the longest isoform (1).