

## Product datasheet for **RN216698**

### **Gck (NM\_001270850) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gck (NM_001270850) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gck
Synonyms:	GLK; GLUKA; RNGK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN216698 representing NM\_001270850  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGATGACAGAGCCAGGATGGAGGCCACCAAGAAGGAAAAGGTCGAGCAGATCCTGGCAGAGTTCC  
 AGCTGCAGGAGGAAGACCTGAAGAAGGTGATGAGCCGGATGCAGAAGGAGATGGACCGTGGCCTGAGGCT  
 GGAGACCCACGAGGAGGCCAGTGTAAAGATGTTACCCACCTACGTGCGTTCCACCCAGAAAGGCTCAGAA  
 GTCGGAGACTTTCTCCTTAGACCTGGGAGGAACCAACTTCAGAGTGATGCTGGTCAAAGTGGGAGAGG  
 GGGAGGCAGGGCAGTGGAGCGTGAAGACAAAACACCAGATGTAATCCATCCCGAGGACGCCATGACGGG  
 CACTGCCGAGATGATGAAGCACAAGAACTGCCCTGGGCTTCACCTTCTCCTTCCCTGTGAGGCACGAA  
 GACCTAGACAAGGGCATCCTCCTCAATTGGACCAAGGGCTTCAAGGCCTCTGGAGCAGAAGGGAACAACA  
 TCGTAGGACTTCTCCGAGATGCTATCAAGAGGAGAGGGGACTTTGAGATGGATGTGGTGGCAATGGTGAA  
 CGACACAGTGGCCACAATGATCTCCTGCTACTATGAAGACCGCCAATGTGAGGTGGCATGATTGTGGGC  
 ACTGGCTGCAATGCCTGTACATGGAGGAAATGCAGAATGTGGAGCTGGTGGAAAGGGGATGAGGGACGCA  
 TGTGCGTCAACACGGAGTGGGGCGCCTTCGGGGACTCGGGCGAGCTGGATGAGTTCTACTGGAGTATGA  
 CCGGATGGTGGATGAAAGCTCAGCGAACCCCGGTGAGCAGCTGTACGAGAAGATCATCGGTGGGAAGTAT  
 ATGGGCGAGCTGGTACGACTTGTGCTGCTTAAGCTGGTGGACGAGAACCCTTCTGTTCCACGGAGAGGCT  
 CGGAGCAGCTGCGCACGCGTGGTGTCTTTGAGACCCGTTTCGTGTCAAGTGGAGAGCGACTCCGGGGA  
 CCGAAAGCAGATCCACAACATCCTAAGCACTCTGGGGCTTCGACCCTCTGTCACCGACTGCGACATTGTG  
 CGCCGTGCCTGTGAAAGCGTGTCACTCGCGCCGCCATATGTGCTCCGAGGACTAGCTGGGGTCATAA  
 ATCGCATGCGCGAAAGCCGAGTGGAGCGTGTGCGCATCACTGTGGGCGTGGATGGCTCCGTGTACAA  
 GCTGCACCCGAGCTTCAAGGAGCGGTTTACGCCAGTGTGCGCAGGCTGACACCCAAGTGCAGAAATCACC  
 TTCATCGAATCAGAGGAGGGCAGCGGCAGGGGAGCCGCGCTGGTCTCTGCGGTGGCTGCAAGAAGGCTT  
 GCATGCTGGCCAGTGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001270850

**Insert Size:** 1347 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\\_001270850.1](#), [NP\\_001257779.1](#)

**RefSeq Size:** 2220 bp

**RefSeq ORF:** 1347 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 (3) differs in the 5' UTR and coding region and uses two alternate splice junctions compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus and contains two alternate internal segments 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.