

## Product datasheet for **RR216698**

### Gck (NM\_001270850) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR216698 representing NM\_001270850  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGATGACAGACCAGGATGGAGGCCACCAAGAAGAAAAGGTCGAGCAGATCCTGGCAGAGTTCC  
 AGCTGCAGGAGGAAGACCTGAAGAAGGTGATGAGCCGGATGCAGAAGGAGATGGACCGTGGCCTGAGGCT  
 GGAGACCCACGAGGAGGCCAGTGTAAAGATGTTACCCACCTACGTGCGTTCCACCCAGAAAGGCTCAGAA  
 GTCGGAGACTTCTCCTTAGACCTGGGAGGAACCAACTTCAGAGTGATGCTGGTCAAAGTGGGAGAGG  
 GGGAGGCAGGGCAGTGGAGCGTGAAGACAAAACACCAGATGACTCCATCCCCGAGGACGCCATGACGGG  
 CACTGCCGAGATGATGAAGCACAAAGAACTGCCCTGGGCTTACCTTCTCCTTCCCTGTGAGGCACGAA  
 GACCTAGACAAGGGCATCCTCCTCAATTGGACCAAGGGCTTCAAGGCCTCTGGAGCAGAAGGGAACAACA  
 TCGTAGGACTTCTCCGAGATGCTATCAAGAGGAGAGGGGACTTTGAGATGGATGTGGTGGCAATGGTGAA  
 CGACACAGTGGCCACAATGATCTCCTGCTACTATGAAGACCGCCAATGTGAGGTGGCATGATTGTGGGC  
 ACTGGCTGCAATGCCTGTACATGGAGGAAATGCAGAATGTGGAGCTGGTGGAAAGGGGATGAGGGACGCA  
 TGTGCGTCAACACGGAGTGGGGCGCCTTCGGGGACTCGGGCGAGCTGGATGAGTTCCTACTGGAGTATGA  
 CCGGATGGTGGATGAAAGCTCAGCGAACCCCGGTGAGCAGCTGTACGAGAAGATCATCGGTGGGAAGTAT  
 ATGGGCGAGCTGGTACGACTTGTGCTGCTTAAGCTGGTGGACGAGAACCCTTCTGTCCACGGAGAGGCT  
 CGGAGCAGCTGCGCACGCGTGGTGTCTTTGAGACCCGTTTCGTGTCAAGTGGAGAGCGACTCCGGGGA  
 CCGAAAGCAGATCCACAACATCCTAAGCACTCTGGGGCTTCGACCCTCTGTCACCGACTGCGACATTGTG  
 CGCCGTGCCTGTGAAAGCGTGTCAACTCGCGCCGCCATATGTGCTCCGACGACTAGCTGGGGTCATAA  
 ATCGCATGCGCGAAAGCCGAGTGGAGCGTGTGCGCATCACTGTGGGCGTGGATGGCTCCGTGTACAA  
 GCTGCACCCGAGCTTCAAGGAGCGGTTTACGCCAGTGTGCGCAGGCTGACACCCAAGTGCAGAAATCACC  
 TTCATCGAATCAGAGGAGGCGAGCGGCAGGGGAGCCGCGCTGGTCTCTGCGGTGGCTGCAAGAAGGCTT  
 GCATGCTGGCCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216698 representing NM\_001270850  
 Red=Cloning site Green=Tags(s)

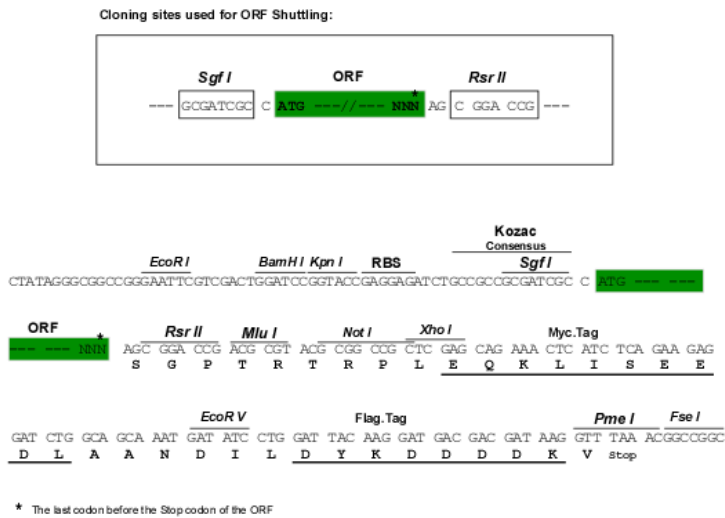
MLDDRARMEATKKEKVEQILAEFQLQEEDLKKVMSRMQKEMDRGLRLETHEEASVKMLPTYVVRSTPEGSE  
 VGDFLSLDLGGTNFRVMLVKVGEAGEQWSVKTKHQMYIPEDAMTGTAEEMKHKKLPLGFTFSFPVRHE  
 DLDKGILLNWTGFKASGAEGNIVGLLRDAIKRRGDFEMDVVAMVNDTVATMISCYYEDRQCEVGMIVG  
 TGCNACYMEEMQNVELVEGDEGRMCVNTEWGAFGDSGELDEFLLLEYDRMVDESSANPGQLYEKIIGGKY  
 MGELVRLVLLKLVDENLLFHGEASEQLRTRGAFETRFVSQVESDSGDRKQIHNILSTLGLRPSVTDGDIV  
 RRACESVSTRAAHMCSAGLAGVINRMRESRSEDVMRITVGVDGSVYKLNHPSFKERFHASVRRLLTPNCEIT  
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**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

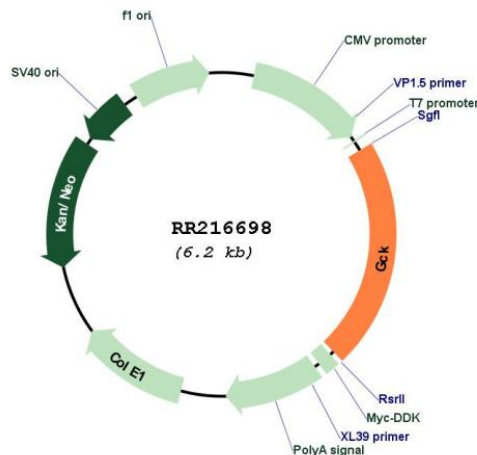
**Restriction Sites:**

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001270850

ORF Size: 1344 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

**MW:** 50.1 kDa

**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]