

Product datasheet for **MC201010**

Gckr (NM_144909) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gckr (NM_144909) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gckr
Synonyms:	GKRP
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC012412 sequence for NM_144909
 GCAGAGGCAGGCGGGTTGGAGAGTCTGCAGTGTGGGACCATGCCAAGCACCAAGCGGTATCAGCATGTGA
 TCGAGACCCTGAGCCTGGGGAATGGGAGTTGTCAGGGTATGAAGCAGCTGTGCCAATCACAGAGAAGTC
 CAACCCACTGACCCGGAACCTGGACAAAGCAGATGCAGAGAAAATTGTTCAACTGCTGGGCAGTGTGAT
 GCTGAGATATCCAGGAGGAGGGGCAAATCATGCCACCTACCAGCGACTGTACAGTGAGTCAGTTCTGA
 CCACCATGTTGCAAGTGGCTGGCAAGGTCAGGAAGTCTGAAGGAGCCAGATGGGGCCCTGGTGGTGCT
 GAGTGGAGGGGGCACCTCTGGTCGTATGGCATTCTTATGTCTGTCTTTCAACCAGCTGATGAAAGGT
 CTGGGACAAAAACCTCTTTACACATACCTCATTGCAGGGGGTGACAGGTCTGTTGTAGCCTCTCGGGAAC
 GGACAGAAAGATAGCGCCCTACACGGAATCGAGGAGCTGAAGAAGTGGCTGCTGGAAAAAGAGAGTGGT
 CGTTATAGGCATTTCCGTGGGACTCTCTGCGCCCTTTGTGGCAGGCCAGATGGACTACTGCATGGATAAC
 ACAGCTGTCTTCTGCCGGTCTGGTTGGCTTCAATCCGGTGAGCATGGCCAGAAATGATCCCATGGAAG
 ACTGGAGATCGACATCCGACAAGTGGCAGAGCGGATGCAGAAGATGCAGGAGAAACAGGAAGCCTTTGT
 GCTCAATCCTGCCATCGGGCCTGAGGGGCTCAGTGGCTCTCCCGAATGAAAGGTGGAAGCGCCACCAAG
 ATTCTACTGGAACCCCTGCTACTAGCAGCCATAAGACTGTGGACCAGGGTGTGTGCTCTCAAAGAT
 GCCTTCTGGAATCCTGAGGACATTTGAGCGGGCTCATCAGGTAACCTACAGTCAAAGTTCAAAATTGC
 CACTCTGACGAAGCAAGTTGGCATCAGCCTGGAGAAAAAGGCCACGTGCACTTGGTTGGCTGGCAGACC
 CTCGGTATCATCGCCATTATGGATGGGGTAGAGTGTATCCACACTTTTGGTGCTGATTTCCGAGATATCC
 GTGGCTTTCTTATTGGTGACCACAATGACATGTTAACCAGAAGGATGAGCTCAGCAATCAGGGTCCCCA
 GTTCACCTTCTCTCAGGATGACTTCTGACTTCTGTTCTGCCATCCCTTACGGAAATTGACACTGTGGTC
 TTCATTTTTACCCTGGATGATAACCTCGCAGAAGTACAGGCCCTGGCAGAAAGGGTGAGGGAGAAGATT
 GGAACATCCAGGCCCTGGTGCACAGCACAGTGGGCAGTCTTCCAGCTCCTCTAAGAAGCTCTTTCC
 CTCGCTCATCAGCATCACATGGCCACTTCTTTCTCGATTATGAAGGGAGCTACGTTCAGAAGTCCAG
 CGTGAGTTAAGCACCAAGTGGGTGTTGAATACAAGTTCAGGACAGTCCAAGGCTCGTGCATTGAGA
 GTCTTCTCAAGTGATACATTTCCCTCAACCGCTGTCGAATGATGTCCGCGCGGCCCCATCTCCTGCCA
 TGTCAGGTTGCCACGAGAAGGAAAAGGTGATCCCCACAGCCTTGTGAGTCTCCTACTCAGGTGCTCC
 ATCACTGAGGCTAAGGAACGCCTGGCTGCAGTCTTTCAGTCTGTGAGGTTGTTAGGAGCGCCCTCTCTG
 GGCCAGGTGAGAAACGCAGCATCCAAGCCTTTGGAGACCCTGTGGTGCCCTGAATTGATGTTTCTGTGAC
 CATTGAAAAGTCTCCATCCACTTCTGAGGGGACTTGTGCCAGTAATACACGTTGCAGGACAGACTCAGTT
 CCGGTGGTGGGGCACTAACAGCCAGAAATTGAGGAAGAGTCTGTTCTCAGCTGGATCATTTCCATTTT
 TACTGGCATCTTCTGATCTTAGGAATAAACTAAATGTCTTGTTTGAACCCAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_144909

Insert Size: 1764 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: [BC012412](#), [AAH12412](#)

RefSeq Size: 2024 bp

RefSeq ORF: 1764 bp

Locus ID: 231103

UniProt ID: [Q91X44](#)

Cytogenetics: 5 17.27 cM

Gene Summary: Inhibits glucokinase (GCK) by forming an inactive complex with this enzyme. The affinity of GCKR for GCK is modulated by fructose metabolites: GCKR with bound fructose 6-phosphate has increased affinity for GCK, while GCKR with bound fructose 1-phosphate has strongly decreased affinity for GCK and does not inhibit GCK activity (By similarity).[UniProtKB/Swiss-Prot Function]