

Product datasheet for **RG214230**

GCKR (NM_001486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCKR (NM_001486) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GCKR
Synonyms:	FGQTL5; GGRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214230 representing NM_001486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGGCACAAAACGGTTTCAACATGTCATTGAGACCCCGAGCCTGGCAAGTGGGAGTTGTCTGGGT
 ACGAGGCAGCTGTGCAATCACGGAGAAGTCAAACCCACTGACCCAGGATCTAGACAAAGCAGATGCTGA
 GAACATTGTTGACTGCTAGGGCAATGTGATGCTGAGATCTTCCAGGAGGAGGGCAAGCCCTGTCCACA
 TACCAGAGACTCTACAGCGAATCCATTCTGACCACCATGGTACAGGTGGCTGGGAAAAGTTCAGGAAGTGC
 TGAAGGAGCCAGATGGGGGGCTGGTTGTGCTGAGTGGAGGGGACACCTCTGGCCGGATGGCATTCTCAT
 GTCGGTGTCTTTAATCAGCTGATGAAAGGTCTGGGACAGAAACCTTTTACACCTACCTCATTGCAGGT
 GGTGACAGGTCTGTGGTGGCCTTAGGGAGGGGACAGAAGATAGTGCCTTGACGGGATTGAGGAACTGA
 AGAAGGTGGCTGCCGGGAAGAAGAGAGTATTGTCATTGGCATTCTGTGGGACTCTCTGCTCCCTTTGT
 GGCAGGCCAGATGGACTGCTGCATGAACAACACAGCTGTCTTCTGCCAGTCTGGTTGGCTTCAATCCA
 GTGAGCATGGCCAGAAATGACCCCAATTGAAGACTGGAGTCAACATTCGACAAGTAGCAGAGCGGATGC
 AGAAAAATGCAGGAGAAAACAGAAAGCTTTTGTGCTCAATCCTGCCATCGGGCCCGAGGGTCTCAGCGGCTC
 CTCCCGGATGAAAGGTGGAAGTGCCACCAAGATTCTGCTGGAAACCTGTTATTAGCAGCCATAAGACT
 GTGGACCAGGGCATTGCAGCATCTCAAAGATGCCTCCTGGAAATCTTGCGGACATTTGAGCGAGCTCATC
 AGGTGACCTACAGCCAAAGCCCCAAGATTGCCACCCTGATGAAGAGTGTGACGACCAGTCTGGAGAAGAA
 AGGCCACGTGTACCTGGTTGGCTGGCAGACCCTGGGCATCATTGCCATCATGGATGGAGTAGAGTGCATC
 CACACCTTTGGTGCTGATTTCCGAGATGTCCTGGCTTCTCATTGGTGATCACAGTGACATGTTTAACC
 AGAAGGTGAGCTCACCAACAGGGTCCCAGTTCACCTTCTCCAGGAGGACTTCTGACTTCCATCCT
 TCCTCTCTCACGAAAATCGATACTGTGGTCTTCAATTTTACCCTGGATGACAACCTCACGGAGGTGCAG
 ACTATAGTGGAGCAGGTGAAAGAGAAGACCAACCACATCCAGGCCCTGGCACACAGCACCCTGGGTGAGA
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 ATATGAAGGGAATTCATCCAGAAGTTCAGCGTGAGCTAAGCACCAAATGGGTGCTGAATACAGTGAGT
 ACAGGTGCTCATGTGCTTCTGGTAAGATCCTACAAAACCACATGTTGGACCTTCGGATTAGCAACTCCA
 AGCTCTTCTGGCGGGCGCTGGCCATGCTGCAGCGGTTCTCTGGACAGTCCAAGGCTCGATGCATCGAGAG
 CCTCTCCGAGCGATCCACTTCCCCAGCCACTGTCAGATGATATTCGGGCTGCTCCATCTCCTGCCAT
 GTCAGGTTGCACATGAGAAGGAACAGGTGATACCCATCGCCTTGCTGAGCCTCCTATTCGGGTGCTCGA
 TCACTGAGGCTCAGGCACACCTGGCTGCAGCTCCTTCTGTCTGTGAGGCTGTGAGGAGTCTTGTCTGG
 GCCAGGTGAGAAGCGCACTGCGGACCCCTCGAGATCCTAGAGCCTGACGTTTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214230 representing NM_001486
 Red=Cloning site Green=Tags(s)

MPGTRKRFQHVIEPTPEPGKWELSGYEAAPITEKSNPLTQDLDKADAENIVRLLGQCDAEIFQEQQALST
 YQRLYSEIILTTMVQVAGKVQEVLEKPDGGLVVLSSGGTSGRMAFLMSVSNQLMKGLGQKPLYTYLIAG
 GDRSVVASREGTEDSALHGIEELKKVAAGKKRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLPVLVGFNP
 VSMARNDPIEDWSSTFRQVAERMQKMQEKQKAFVLPNPAIGPEGLSGSSRMKGGSATKILLETLTLLAAHKT
 VDQGIAASQRCLLEILRTFERAHQVYTSQSPKIATLMKSVSTLEKKGHVYLVGWQTLGIIAIMDGVCEI
 HTFGADFRDVRGFLIGDHSDFNQKAELELNQGPQFTFSQEDFLTSILPSLTEIDTVVVFIFLDDNLTEVQ
 TIVEQVKEKTNHIQALAHSTVGQTLPIPLKFLPSIISITWPLLFFEYEGNFIQKFQRELSTKWVLTNVS
 TGAHVLLGKILQNHMLDLRISNSKLFWRALAMLQRFSGQSKARCIESLLRAIHFPPLSDDIRAAPISCH
 VQVAHEKEQVPIIALLSLLFRCSITEAQAHLAAAPSVCEAVRSALAGPGQKRTADPLEILEPVDVQ

TRTRPLE - GFP Tag - V

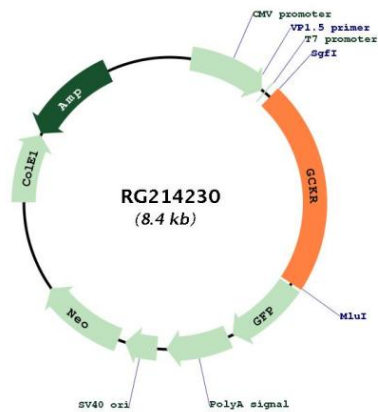
Restriction Sites:

SgfI-MluI

RefSeq Size: 2197 bp
 RefSeq ORF: 1878 bp
 Locus ID: 2646
 UniProt ID: [Q14397](#)
 Cytogenetics: 2p23.3
 Domains: SIS

Gene Summary: This gene encodes a protein belonging to the GCKR subfamily of the SIS (Sugar ISomerase) family of proteins. The gene product is a regulatory protein that inhibits glucokinase in liver and pancreatic islet cells by binding non-covalently to form an inactive complex with the enzyme. This gene is considered a susceptibility gene candidate for a form of maturity-onset diabetes of the young (MODY). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG214230