

Product datasheet for **SC210662**

Glucokinase (GCK) (NM_000162) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: Glucokinase (GCK) (NM_000162) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: GCK
Synonyms: FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2; PNDM1
ACCN: NM_000162
Insert Size: 891 bp
Insert Sequence: >SC210662 3'UTR clone of NM_000162
 The sequence shown below is from the reference sequence of NM_000162. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGTAAGAAGGCTGTATGCTGGGCCAGTGAAGAGCAGTGGCCGCAAGCGCAGGGAGGATGCCACAGCCCC
ACAGCACCCAGGCTCCATGGGGAAGTGCTCCCCACACGTGCTCGCAGCCTGGCGGGCAGGAGGCTGG
CCTTGTCAGGACCCAGGCCCTGCCATACCGCTGGGGAACAGAGCGGGCCTCTCCCTCAGTTTTTCG
GTGGGACAGCCCCAGGGCCCTAACGGGGGTGCGGAGGAGCAGGAACAGAGACTCTGGAAGCCCCCAC
CTTTCTCGCTGGAATCAATTTCCAGAAGGGAGTTGCTCACTCAGGACTTTGATGCATTTCCACTGT
CAGAGCTGTTGGCCTCGCCTGGGCCAGGCTCTGGGAAGGGGTGCCCTCTGGATCCTGCTGTGGCCTCA
CTTCCCTGGAACTCATCCTGTGTGGGAGGCAGCTCCAACAGCTTGACCAGACCTAGACCTGGGCCAA
AAGGGCAGCCAGGGGCTGCTCATACCCAGTCTGGCCATTTTCTGCCTGAGGCTCAAGAGGCCCAGG
GAGCAATGGGAGGGGCTCCATGGAGGAGGTGCCAAGCTTTGAATACCCCAAGAGACCTTTTCTCTC
CCATACCATCACTGAGTGGCTTGTGATTCTGGGATGGACCCTCGCAGCAGGTGCAAGAGACAGAGCCCC
CAAGCCTCTGCCCAAGGGGCCACAAAGGGGAGAAGGGCCAGCCCTACATCTTCAGCTCCCATAGCGC
TGGCTCAGGAAGAAACCCCAAGCAGCATTACAGCACACCCCAAGGGACAACCCCATCATATGACATGCCA
CCCTCTCCATGCCAACCTAAGATTGTGTGGGTTTTTAAATAAAAATGTTAAAAAGTTTTAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_000162.5
Summary:	This gene encodes a member of the hexokinase family of proteins. Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. In contrast to other forms of hexokinase, this enzyme is not inhibited by its product glucose-6-phosphate but remains active while glucose is abundant. The use of multiple promoters and alternative splicing of this gene result in distinct protein isoforms that exhibit tissue-specific expression in the pancreas and liver. In the pancreas, this enzyme plays a role in glucose-stimulated insulin secretion, while in the liver, this enzyme is important in glucose uptake and conversion to glycogen. Mutations in this gene that alter enzyme activity have been associated with multiple types of diabetes and hyperinsulinemic hypoglycemia. [provided by RefSeq, Aug 2017]
Locus ID:	2645
MW:	32.6