

Product datasheet for **RC222793A1V**

Human Glucokinase (GCK) (NM_033507) AAV Particle

Product data:

Product Type:	AAV Particles
Product Name:	Human Glucokinase (GCK) (NM_033507) AAV Particle
Tag:	Myc-DDK
Symbol:	Glucokinase
Synonyms:	FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2; PNDM1
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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ORF Nucleotide Sequence:

>RC222793 representing NM_033507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGATGGATGTCACAAGGAGCCAGGCCAGACAGCCTTGACTCTGGTAGAGCAGATCCTGGCAGAGT
 TCCAGCTGCAGGAGGAGACCTGAAGAAGGTGATGAGACGGATGCAGAAGGAGATGGACCGCGCCCTGAG
 GCTGGAGACCCATGAAGAGGCCAGTGTGAAGATGCTGCCACCTACGTGCGCTCCACCCAGAAGGCTCA
 GAAGTCGGGGACTTCTCTCCCTGGACCTGGGTGGCACTAACTTCAGGGTATGCTGGTGAAGTGGGAG
 AAGGTGAGGAGGGCAGTGGAGCGTGAAGACCAAACACAGATGTACTCCATCCCGAGGACGCCATGAC
 CGGCACTGCTGAGATGCTCTTCGACTACATCTCTGAGTGCATCTCCGACTTCTGGACAAGCATCAGATG
 AAACACAAGAAGCTGCCCTGGCTTACCTTCTCTTCTGTGAGGCACGAAGACATCGATAAGGGCA
 TCCTTCTCAACTGGACCAAGGGCTTCAAGGCCTCAGGAGCAGAAGGGAACAATGTCGTGGGGCTTCTGCC
 AGACGCTATCAAACGGAGAGGGGACTTTGAAATGGATGTGGTGGCAATGGTGAATGACACGGTGGCCACG
 ATGATCTCCTGCTACTACGAAGACCATCAGTGCAGGTCGGCATGATCGTGGGCACGGGCTGCAATGCCT
 GCTACATGGAGGAGATGCAGAATGTGGAGCTGGTGGAGGGGACGAGGGCCGATGTGCGTCAATACCGA
 GTGGGGCGCCTTCGGGGACTCCGGCGAGCTGGACGAGTTCCTGCTGGAGTATGACCGCCTGGTGGACGAG
 AGCTCTGCAAACCCCGGTGAGCAGCTGTATGAGAAGCTCATAGGTGGCAAGTACATGGGCGAGCTGGTGC
 GGCTTGCTGCTCAGGCTCGTGGACGAAAACCTGCTCTTCCACGGGGAGGCCTCCGAGCAGCTGCGCAC
 ACGCGGAGCCTTCGAGACCGCTTCGTGTCGACAGTGGAGAGCGACACGGGCGACCGCAAGCAGATCTAC
 AACCTCTGAGCAGCTGGGGCTGCGACCCTCGACCACGACTGCGACATCGTGCGCCGCGCTGCGAGA
 GCGTGTCTACGCGCGCTGCGCACATGTCTCGCGGGGCTGGCGGGGCTCATCAACCGCATGCGCGAGAG
 CCGCAGCGAGGACGTAATGCGCATCACTGTGGCGTGGATGGCTCCGTGTACAAGCTGCACCCAGCTTC
 AAGGAGCGTTCCATGCCAGCGTGCAGGCTGACGCCAGCTGCGAGATCACCTTCATCGAGTCCGAGG
 AGGGCAGTGGCCGGGCGCGCCCTGGTCTCGCGGTGGCCTGTAAAGGCCTGTATGCTGGGCCAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222793 representing NM_033507
 Red=Cloning site Green=Tags(s)

MAMDVTRSQAQTALTLVEQILAEFQLQEEDLKKVMRRMQEMDRGLRLETHEEASVKMLPTYVRSTPEGS
 EVGDFLSLDLGGTNFRVMLVKVGEEGQWSVKTKHQMYSIPEDAMTGAEMLFDYISECISDFLDKHQM
 KHKKLPLGFTFSFPVRHEDIDKGILLNWTGFKASGAEGNNVGLLRDAIKRRGDFEMDVVAMVNDTVAT
 MISCYEDHQCEVGMIVGTGCNACYMEEMQNVELVEGDEGRMCVNTEWGAFGDSGELDEFLLLEYDRLVDE
 SSANPGQQLYEKLIGGKYMGEVRLVLLRLVDENLLFHGEASEQLRTRGAFETRFVSQVESDTGDRKQIY
 NILSTLGLRPSTTDCDIVRRACEVSTRAAHMC SAGLAGVINRMRESRSEDVMRITVGVDSVYKHLHPSF
 KERFHASVRRLTPSCEITFIESEEGSGRGAALVSAVACKKACMLGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Species:

Human

Serotype:

AAV-2

ACCN:

NM_033507

ORF Size:

1398 bp

Buffer:

PBS with 0.001% Pluronic F68

Stability:	AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.
RefSeq:	<u>NM_033507.1</u>
RefSeq Size:	2442 bp
RefSeq ORF:	1401 bp
Locus ID:	2645
UniProt ID:	<u>P35557</u>
Cytogenetics:	7p13
MW:	52 kDa