

Product datasheet for **SC315989**

ketohexokinase (KHK) (NM_000221) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ketohexokinase (KHK) (NM_000221) Human Untagged Clone
Tag:	Tag Free
Symbol:	ketohexokinase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000221 edited

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TCGAGATCGCTTAGCCGCGCTTTAAAAAGGTTTGCATCAGCTGTGAGTCCATCTGACAAG
CGAGGAAACTAAGGCTGAGAAGTGGGAGCGTTGCCATCTGCAGGCCAGGCAACCTGCT
ACGGGAAGACCGGGACCAAGACCTCTGGGTTGGCTTTCCCTAGACCCGCTCGGGTCTTCG
GGTGTGCGGAGGAAGGGCCCTGCTCCTTTCGTTCCCTGCACCCCTGGCCGCTGCAGGTGG
CTCCCTGGAGGAGGAGCTCCCACGCGGAGGAGGAGCCAGGGCAGCTGGGAGCGGGGACAC
CATCCTCCTGGATAAGAGGCAGAGGCCGGGAGGAACCCCGTCAGCCGGGCGGGCAGGAAG
CTCTGGGAGTAGCCTCATGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGTGGA
CGTCATCAGCCTGGTGGACAAGTACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCA
GAGATGGCAGCGGGAGGCAACGCGTCCAACCTCCTGCACCATCTCTCCCTGCTCGGAGC
CCCCTGTGCCTTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGTCTGGATGA
CCTCCGCGCTTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGGCTCCGTCCT
CATCGCCACGGTCATCATCAACGAGGCCAGTGGTAGCCGACCATCCTATACTATGACAG
GAGCCTGCCAGATGTGTCTGCTACAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTG
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ACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCGTTGGAGGTGGAGAAGCC
ACGAGAGGAGCTCTTCCAGCTGTTGGCTACGGAGACGTGGTGTGTCAGCAAAGATGT
GGCCAAGCACTTGGGGTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCGTGT
GAGGAAAGGGGCTGTGCTTGTCTGTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCC
TGATGGCAAATTGCTCCACTCGGATGCTTCCCGCCACCCCGCGTGGTGGATACACTGGG
AGCTGGAGACACCTTCAATGCCTCCGTCATCTTCAGCCTCTCCCAGGGGAGGAGCGTGCA
GGAAGCACTGAGATTCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCTGCAGGGCTTTGA
TGGCATCGTGTGAGAGCAGGTGCCGGCTCCTCACACCATGGAGACTACCATTGCGGCT
GCATCGCCTTCTCCCCTCCATCCAGCCTGGCGTCCAGGTTGCCCTGTTTCAGGGGACAGAT
GCAAGCTGTGGGGAGGACTCTGCCTGTGCTCCTGTGTTCCCCACAGGGAGAGGCTCTGGG
GGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCTCAGAGCCAAAAA
AAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000221 unedited GAGACAGATGTATACGACTCCTATAGGGCGGCCGCGAACTCTCAGATCTGGTACCGATAT CAAGCTTGTGCGAGATTGCTTAGCCGCGCTTTAAAAAGGTTTGCATCAGCTGTGAGTCCA TCTGACAAGCGAGGAACTAAGGCTGAGAAGTGGGAGGCGTTGCCATCTGCAGGCCCAGG CAACCTGCTACGGGAAGACCGGGGACCAAGACCTCTGGTTGGCTTTCTAGACCCGCTC GGGTCTTCGGGTGTCGCGAGGAAGGGCCCTGCTCCTTCGTTCCCTGCACCCCTGGCCG TGCAGGTGGCTCCCTGGAGGAGGAGCTCCACGCGGAGGAGGAGCCAGGGCAGCTGGGAG CGGGACACCATCCTCCTGGATAAGAGGCAGAGCGGGAGGAACCCCGTCAGCCGGGCG GGCAGGAAGCTCTGGGAGTAGCCTCATGGAAGAGAAGCAGATCCTGTGCGTGGGGTAGT GGTGTGGACGTCATCAGCCTGGTGGACAAGTACCCTAAGGAGGACTCGGAGATAAGGTG TTTGTCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCTGCACCATTTCTCCTC GCTCGGAGCCCCGTGTCCTTATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGT CCTGGATGACCTCCGCCGTTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGG CTCCGTCCCCTGCCCACGGTCATCATCAACGAGGCCAGTGGTAGCCGCACCATCCTATA CTATGACAGGAGCCTGCCAGATGTGTCTGCTACAGACTTTGAGATGTTGATCTGACCCAG TTCAAGTGGATCCACATTGAGGGCCGGACGCATCGGAGCAGTGAAGATGCTGCAGCGATA GACGCACACACACCAGCAGCCTCCAGAGCAGAGATCCGGTGTCCGTGGGAGGTGGAGAAG CCACGGAGAGGAGCTCTTTCAG
Restriction Sites:	Please inquire
ACCN:	NM_000221
Insert Size:	1500 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a good match to NM_000221.2 except for one 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:	<ol style="list-style-type: none"> 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_000221.1 , NP_000212.1
RefSeq Size:	1899 bp
RefSeq ORF:	897 bp
Locus ID:	3795
UniProt ID:	P50053

Cytogenetics:	2p23.3
Domains:	pfkB
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Metabolic pathways
Gene Summary:	<p>This gene encodes ketohexokinase that catalyzes conversion of fructose to fructose-1-phosphate. The product of this gene is the first enzyme with a specialized pathway that catabolizes dietary fructose. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant utilizes the alternate exon 3a and encodes isoform a, which exhibits lower enzymatic activity than isoform b.</p>