

Product datasheet for **SC124910**

ketohexokinase (KHK) (NM_006488) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ketohexokinase (KHK) (NM_006488) Human Untagged Clone
Tag:	Tag Free
Symbol:	ketohexokinase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124910 sequence for NM_006488 edited (data generated by NextGen Sequencing) ATGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGTGACGTCATCAGCCTGGTG GACAAGTACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGA GGCAACGCGTCCAACCTCCTGCACCACTTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATG GGCTCAATGGCTCCTGGCCATGTTGCTGACTTCCTGGTGGCCGACTTCAGGCGGGGGGGC GTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCCAGCTCCTGCTGCATC ATCAACAACCTCCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCCTGCCAGATGTG TCTGCTACAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGC CGGAACGCATCGGAGCAGGTGAAGATGCTGCAGCGGATAGACGCACACAACACCAGGCAG CCTCCAGAGCAGAAGATCCGGGTGTCCTGGAGGTGGAGAAGCCACGAGAGGAGCTCTTC CAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGCACTTGGGG TTCCAGTCAGCAGAGGAAGCCTTGAGGGCTTGTATGGTCTGTGAGGAAAGGGCTGTG CTTGTCTGTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTC CACTCGGATGCTTTCCCGCCACCCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTC AATGCCTCCGTCTCTTCAAGCCTCTCCAGGGGAGGAGCGTGCAGGAAGCACTGAGATTC GGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCGTGTGA
	Clone variation with respect to NM_006488.2 145 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006488 unedited</p> <pre> AGCATTTTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACCAGGCTCTGGN NAGTAGCCTCATGGNAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTCTGGACGTCA TCAGCCTGGTGGACAAGTACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGAT GGCAGCGCGGAGGCAACGCGTCCAACCTCTGCACCATTCTCTCCCTGCTCGGAGCCCCCT GTGCCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGACTTCTGGTGGCCGACTTCA GGCGCGGGGGCGTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCAGCT CCTGCTGCATCATCAACAACCTCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCC TGCCAGATGTGTCTGCTACAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCC ACATTGAGGGCCGGAACGCATCGGAGCAGGTGAAGATGCTGCAGCGGATAGACGCACACA ACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGGAGAAGCCACGAG AGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTCAGCAAAGATGTGGCCA AGCACTTGGGGTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCGTGTGAGGA AAGGGGCTGTGCTGTCTGTGCCTGGGCTGAGAGGGCGCCGACGCCCTGNGCCCCGATG GCAATTGCTCCACTCGGATGCTTTCCGCCACCCCGCTGGTGGATACACTGGGAGCTGG AGACACCTTCATGCCTNGTGCATCTTACGCTCTCCAGGGGGAGAGCGTGCAGAAGCAC TGAGATTTCGGTGGCCAGTGCCCGCAGAAATGTGGCTGCAGGCTTGATGCATCTGTGAAAC AGTGCCGCTCTACAACATGGAACACATGGGCTGCTGGCTTTCCTC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006488 unedited</p> <pre> TATGGACGCGCCGCATTCTANAGTCGGTTTTTTTTTTTTTTTTTTTTGGCTCTGAGGAAG ATTATTTGCTCTGAGGCTCTGCATCCCCAGCCATCCCCCAAAGCCTCTCCCTGTGGGG AACACAGGACACAGGCAGAGTCTCCCCACAGCTTGCATCTGTCCCTGAACAGGGCAAC CTGGACGCCAGGCTGGATGGAGGGGAGAAGGCGATGCAGCCGCAATGGTAGTCTCCATGG TGTGTGAGGAGCCGGCACCTGCTCTCACACGATGCCATCAAAGCCCTGCAGGCCACACTT CTTGCCGGCCACCTGGCACCCGAATCTCAGTGCTTCTGCACGCTCCTCCCTGGGAGAG GCTGAAGATGACGGAGGCATTGAAGGTGTCTCCAGCTCCCAGTGTATCCACCACGCGGGG TGGCGGAAAGCATCCGAGTGGAGCAATTTGCCATCAGGGCCCAGGGCGTCGGCGCCCTC CTCAGCCCAGGCACAGACAAGCACAGCCCCTTCTCACACGACCATAACAAGCCCCTCAA GGCTTCTCTGCTGACTGGAACCCCAAGTCTTGGCCACATCTTGTGACAAACACCAC GTCTCCGTAGCCAAACAGCTGGAAGAGCTCCTCTCGTGGCTTCTCCACCTCCACGGACAC CCGGATCTTCTGCTCTGGAGGCTGCCTGGTGTGTTGTGCGTCTATCCGCTGCAGCATCTT CACCTGCTCCGATGCGTTCGGCCCTCAATGTGGATCCACTTGAAGTGGTGCAGATCAAC CTTCTCAAAGTCTGTAGCAGACACATCTGGCAGGCTCGTGTGATGGAGCAATGGTACG GTTGCCATTGGAGTTGTTGATGATGCANCANGAGCTGGGGGGTGTCCCCCTTGCTCTGCC NAGGCCACCTGAGAACGTNACGCCCCCGCCGNNCTGAGTCGNCACCAGNAAAGTCAGCA CATGGCCCAGGAGCCATTGAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006488
Insert Size:	1000 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:	<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_006488.1 , NP_006479.1
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 ketoheokinase 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 3c and encodes isoform b, which exhibits higher enzymatic activity than isoform a.</p>