

Product datasheet for **SC114077**

N acetylglucosamine kinase (NAGK) (NM_017567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	N acetylglucosamine kinase (NAGK) (NM_017567) Human Untagged Clone
Tag:	Tag Free
Symbol:	N acetylglucosamine kinase
Synonyms:	GNK; HSA242910
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017567, the custom clone sequence may differ by one or more nucleotides

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ATGCGCACGCGCACAGGGAGTCAGCTGGCTGCGCGGGAGGTCACGGGAAGTGGGGCGGTGCCAGACAGC
TGGAGGGAAGGAGGTGTCAGGCGGGGAGAGACGCAAACGGCGGGACCAGCAGCGACGGTAGCAGCAGCAT
GGCCGCGATCTATGGGGGTGTAGAGGGGGAGGCACACGATCCGAGGTCCTTTTAGTCTCAGAGGATGGG
AAGATCCTGGCAGAAGCAGATGGACTGAGCACAACCCTGGCTGATCGGGACAGACAAGTGTGTGGAGA
GGATCAATGAGATGGTGAACAGGGCCAAACGGAAAGCAGGGGTGGATCCTCTGGTACCGCTGCGAAGCTT
GGGCTATCTCTGAGCGGTGGGACCAGGAGGACGCGGGGAGGATCCTGATCGAGGAGCTGAGGGACCGA
TTCCCTACCTGAGTGAAGCTACTTAATCACCACCGATGCCCGGCTCCATCGCCACAGCTACACCGG
ATGGTGGAGTTGTGCTCATATCTGGAACAGGCTCCAAGTGCAGGCTCATCAACCTGATGGCTCCGAGAG
TGGCTGCGGCGGCTGGGGCCATATGATGGGTGATGAGGGTTCAGCCTACTGGATCGCACACCAAGCAGTG
AAAATAGTGTTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGATATCGGCTACGTCAAACAGGCCA
TGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATACTCACTCACCTGTATAGGGACTTTGATAAATG
CAGGTTTGTGGGTTTTGCCGAAAATTGCAGAAGGTGCTCAGCAGGGAGACCCCTTTCCCGCTATATC
TTCAGGAAGGCTGGGAGATGCTGGGCAGACACATCGTAGCAGTGTGCCGAGATTGACCCGGTCTTGT
TCCAGGGCAAGATTGACTCCCCATCCTGTGCGTGGGCTCTGTGTGGAAGAGCTGGGAGCTGCTGAAGGA
AGGTTTTCTTGGCGCTGACCCAGGGCAGAGAGATCCAGGCTCAGAAGTCTTCTCCAGCTTACCCTG
ATGAAGCTGAGGCACTCCTCCGCTCTGGGTGGGGCCAGCCTAGGGGCCAGGCACATCGGGCACCTCCTCC
CCATGGACTATAGCGCCAATGCCATTGCCTTCTATTCTACACCTTTTCCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_017567 unedited</p> <p>TATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGTCAGGCGGGG AGAGACGCAAACGGCGGGACCAGCAGCGACGGTAGCAGCAGCATGGCCCGGATCTATGGG GGTGTAGAGGGGGGAGGCACACGATCCGAGGTCCTTTTAGTCTCAGAGGATGGGAAGATC CTGGCAGAAGCAGATGGACTGAGCACAACCACTGGCTGATCGGGACAGACAAGTGTGTG GAGAGGATCAATGAGATGGTGAACAGGGCCAAACGAAAGCAGGGGTGGATCCTCTGGTA CCGCTCGAAGCTTGGCCTATCTCTGAGCGGTGGGGACCAGGAGGACCGGGGGAGGATC CTGATCGAGGAGCTGAGGGACCGATTTCCCTACCTGAGTAAAAGCTACTTAATCACCACC GATGCCCGCGGCTCCATCGCCACAGCTACACCGGATGGTGGAGTTGTGCTCATATCTGGA ACAGGCTCCAACGACAGGCTCATCAACCCTGATGGCTCCGAGAGTGGCTGCGGCGGCTGG GGCCATATGATGGGTGATGAGGGTTCAGCCTACTGGATCGCACACCAAGCAGTAAAAATA GTGTTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGATATCGGCTACGTCAAACAG GCCATGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATACTACTCACCTGTATAGG GACTNTGATAAAATGCAGGTTTGTGGGTTTGGCCGANAATGCAGAAGGTGCTCAGCAG GGAGACCCCTTTCCCGCTATATCTTCANGAAGGCTGNNAGATGCTGGGCAGACACATC GTAGCAGTGGTGCCGAGATGACCCGGTNTGNTCCAGGGGAGATGGNACTCCCCATCC TGTGCGTGGGCTCTGTGTGAAAAGCTGGGAGCTGCTGAAGGAAGNNTTCTTTCTGCGC TGACCCAGGCANAAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_017567 unedited</p> <p>NCTGTTATGGCTAAAGATGGCATTGNATTTTTNCTTNTTTTGTNNGTTTTTGTAAAA GGGAGGAAAGGAAGCAAAAGACTCCTTCCTTTCAGACCCAGTGTCCACTGAGCTTGGAGG GGGTGGAGCCGGGACCAGCCCCCTAGGAAAAGGTAGGAATAGAAGGCAATGGCATTGG CGCTATAGTCCATGGGGAGGAGGTGCCCGATGTGCCTGGCCCTAGGCTGCCCCACCCA GAGCGGAGGAGTGCCTCAGCTTCATCAGGTGAAGCTGGAGAAGAAGTTCTGAGCCTGGA TCTCTCTGCCCTGGGTCAGCGCCAGAAGAAAACCTTCCTTCAGCAGCTCCCAGCTTTCC ACACAGAGCCACGCACAGGATGGGGAGTCCAATCTTGCCTGGAACAAGACCGGGTCAA TCTCGGCAACACTGCTACGATGTGTCTGCCAGCATCTCCCAGCCTTCTGAAGATAT AGCGGGAAGGGGGTCTCCCTGCTGAGCACCTTCTGCAATTTTCCGGCAAAACCCAGCAA ACCTGCATTTATCAAAGTCCCTATACAGGTGAGTGAGTATCCCTAGCCGATCTGGCACCT GGAAATAGTGGAACATGGCCTGTTTGACGTAGCCGATATCATGAGGAGCCGCTCTAGGT TGTCAATGGAGTCAAACACTATNTTCACTGCTTGGTGTGCGATCCAGTAGGCTGAACCT CATCACCATCATATGGCCCCAGCCGCGCAGCCACTCTCGGAGCCATCAGGNTTGATGAG CCTGCAGTTGGAGCCTGTTCCAGAATGAGCACACTCCACCATCCCGTGTAAGTGTGGCGA TGGACCCCGCATCCGTGGTATTAAGTACCTTCACTCAGGAGGGAAAATCGTCCCTCA CTCTTGATCAGGACCCTCCCGTCTCCTGTCCCCACGGTCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_017567
Insert Size:	1320 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_017567.2 , NP_060037.2
RefSeq Size:	1535 bp
RefSeq ORF:	1035 bp
Locus ID:	55577
UniProt ID:	Q9UJ70
Cytogenetics:	2p13.3
Domains:	BcrAD_BadFG
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
Gene Summary:	This gene encodes a member of the N-acetylhexosamine kinase family. The encoded protein catalyzes the conversion of N-acetyl-D-glucosamine to N-acetyl-D-glucosamine 6-phosphate, and is the major mammalian enzyme which recovers amino sugars. [provided by RefSeq, Nov 2011]