

Product datasheet for **RN206612**

Nagk (NM_001037768) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nagk (NM_001037768) Rat Untagged Clone
Tag: Tag Free
Symbol: Nagk
Synonyms: MGC124788
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206612 representing NM_001037768
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGCACTTTATGGTGGCGTGAAGGGGGAGGCACACGGTCCAAAGTCCTTTACTTTCTGAGGATG
GGCAGATCCTGGCAGAAGCAGATGGACTGAGCACAAATCACTGGCTGATTGGCACAGGTACCTGTGTGGA
GAGGATCAATGAGATGGTGGACAGGGCTAAACGGAAGGCTGGAGTGGATCCTCTGGTACCCCTTCGAAGC
CTGGGCTTGTCCCTGAGTGGTGGGAGCAGGAGGATGCAGTGAGGCTCCTGATGGAGGAGTTGAGGGACC
GATTTCCCTACCTGAGTAAAGTTACTTCATCACCCTGATGCAGCAGGTTCCATCGCCACAGCTACACC
GGATGGTGGGATTGTGCTCATCTCTGGAACAGGCTCCAAGTGTAGGCTTATCAACCCTGATGGCTCTGAG
AGTGGCTGTGGTGGCTGGGGCCACATGATGGGAGACGAGGGATCAGCCTACTGGATTGCACACCAAGCTG
TGAAAATTGTGTTTGACTCCATTGACAACCTGGAAGCAGCTCCTCATGATATTGGCCATGTCAAGCAGGC
CATGTTCAACTACTTCCAGGTGCCAGATCGGCTAGGAATCCTCACTCACTTGATAGGGACTTTGATAAG
TCCAAGTTTGTGGATTTTGTGAGAAAATGCAGAAGGTGCACAGCAGGGAGACCCTCTTCCAGGTTCA
CTTCAGAAAAGGCTGGGAGATGCTGGGCAGACACGTTGTGGCAGTATTGCCAGAGATTGACCCAGTTT
GTTCCAAGGGGAGCTTGGCCTCCCAATTCTGTGTGGGCTCAGTGTGGAAGAGCTGGGAGCTACTGAAG
GAAGGCTTTCTCCTGGCCTGACGACAGGCGGAGAGCAACAGGCACAGAATCCTTCTCCAGTTTCAACC
TGATGAAGTTGAGGCACTCTTCTGCACTGGGAGGGGCCAGCCTGGGGGCCAGGCACATTGGACACCCT
TCCATGGACTACAGCGTCAATGCCATTGCCTTATTCTATACCTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001037768



[View online »](#)

Insert Size:	1032 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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_001037768.1 , NP_001032857.1
RefSeq Size:	1203 bp
RefSeq ORF:	1032 bp
Locus ID:	297393
UniProt ID:	P81799
Cytogenetics:	4q34
Gene Summary:	Converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate. Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway. Also has ManNAc kinase activity.[UniProtKB/Swiss-Prot Function]