

Product datasheet for **MG216982**

Nagk (NM_019542) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nagk (NM_019542) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nagk
Synonyms:	Gnk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216982 representing NM_019542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCTTTATGGTGGCGTGAAGGGGGAGGCACACGGTCCAAAGTCCTTTACTTTCTGAGGATG
GGCAGATCCTGGCAGAAGCAGATGGACTGAGCACAAACCACTGGCTGATTGGCACAGACCAGTGTGTGGA
GAGGATCAATGAGATGGTGGACAGGGCCAAACAGAAGGCTGGAGTGGATCCTCTGGTGCCCTTCGAAGC
CTGGCCCTGTCCCTGAGTGGTGGGAGCAGGAGGATGCAGTGGGCTCCTGATTGAGGAGTTGAGGCACC
GCTTTCCAACCTGAGTAAAACTACTTAATCACCGGATGCAGCAGGTTCCATCGCCACAGCCACACC
GGACGGTGGGATTGTGCTCATCTCTGGAACAGGCTCCAACGTAGGCTTATCAACCCTGATGGCTCCGAG
AGTGGCTGTGGAGGCTGGGGCCACATGATGGGAGACGAGGGCTCAGCCTACTGGATTGCACACCAAGCTG
TGAAAATTGTGTTTGATTCCATCGACAACCTGGAGGCAGCTCCTCATGATATTGGCCATGTCAAGCAGGC
CATGTTGACTATTTCCAGGTGCCAGATCGGCTTGAATCCTCACCCATTTGTATAGGGACTTTGATAAA
TGCAAGTTTGCTGGATTTTCCAGAAAATTGCAGAAGGTGCACATCAGGGAGACCCTCTTTCCAGGTACA
TCTTCAGGAAGGCTGGAGAGATGCTGGGCAGACATGTTGTGGCAGTATTGCCAGAGATTGACCCGGTTTT
GTTCCAAGGGGAGCTTGGCCTCCCCATTCTGTGTGGGCTCAGTGTGGAAGAGCTGGGAGCTCCTGAAG
GAAGGCTTTCTCCTGGCGCTGACGCTGGGCCGAGAGCAGCAGGCACAGAACTCTTCTCCAGCTTCACCC
TGATGAAGTTGCGCATTCTTCTGCATTGGGGGTGCCAGCCTGGGGCCAGGCACATTGGATACCACT
TCCATGGACTACAGTATCAATGCCATTGCCTTCTATTCTATACCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216982 representing NM_019542
 Red=Cloning site Green=Tags(s)

MAALYGGVEGGGTRSKVLLL SEDGQILAEADGLSTNHWLIGTDQCVERINEMVDRAKQKAGVDPLVPLRS
 LGLSLSGGEQEDAVRLL IEELRHRFPNL SENYLITDDAAGSIATATPDGGIVLISGTGSNCRLINPDGSE
 SGCGGWGHMMGDEGSAYWIAHQAVKIVFDSIDNLEAAPHDIGHVKQAMFDYFQVPDRLGILTHLYRDFDK
 CKFAGFCQKIAEGAHQGDPLSRYIFRKAGEMLGRHVAVLPEIDPVLFGELGLPILCVGSVWKS WELLK
 EGFL LALTLGREQQAQNSFSSTLMKLRHSSALGGASLGARHIGYHLPMDYSINAI AFYSYTF

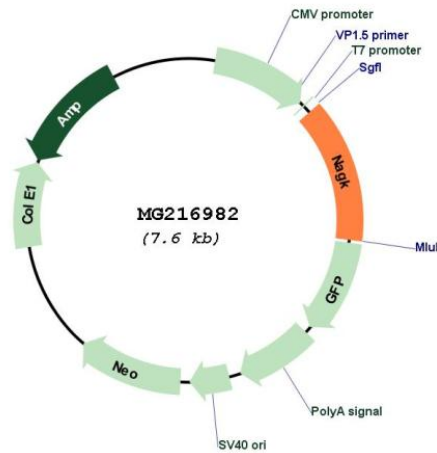
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019542

ORF Size: 1029 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_019542.2 , NP_062415.1
RefSeq Size:	1330 bp
RefSeq ORF:	1032 bp
Locus ID:	56174
UniProt ID:	Q9QZ08
Cytogenetics:	6 C3
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]