

Product datasheet for **MG220590**

Nags (NM_145829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nags (NM_145829) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nags
Synonyms:	1700120E20Rik; argA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220590 representing NM_145829
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGACGGCGTGGGTGGCCACAGCCCTGCGGTCTGCTGCAGCGCCAGAAGGTTGCGCAGCCCGGGAG
 GTCTGGGGGCTCACGGAGACTGAGTGGCAGCGCGCGCGGGGCAAGAGCGCCAGCCCGGGAGC
 CCGGCTCAGCACCGCCAGGGCTCACGCAGAGGACGCCGAGGGCGCTAAGGGTCGTGTCCAGTCTCTGCG
 GTCGAGGAGCCGTCGTGGACACCGCTTCCAACGCCCTCGAATCCCTGCGCTCCCGCCGCGAGATCAC
 TGGTGCAGCGGGACATCCAGGCCCTTCTGAACCAAGTGTGGTGCCAGCCCGGGGGAAGCACGCCACTGGCT
 CACGCAATTCAGACCTGCTACCATTGGTGGACAAGCCCTTCGCGCTCATGGAGTTCGATGAGGAGGTG
 ATCCGGTGCCCGCAGGCGGTATCCCGCTGGCTTTCGCGCTGGCCTTCTGCAACGCATGGACATGAAGC
 CACTGGTGGTTCTGGGGCTGCCTACCCCAAGGACCTTCTGGCTGTCTTCTTCTGGGAAGCTAAGGC
 GCAGTTCGCTCAGAGCTCAAGGTGCTGGTGGATGAACTAAGGCACAACGCGGCTACTGCTGTGCCCTTT
 TTTGGCGCGGATCAGTACTGAGCGCTGCGGAGCCAGCTCCCATGCCAGCTACGGTGGCATCGTCGCGG
 TGGAGACAGACCTGTTGAGTGGTGTCTGGAATCCAACAGCATCCCATCCTGTGCCCATTTGGGAAAC
 GGCTGCGCGCGTTCCTGCTCCTTGAATCGCTGGAGGTGACTGCATCTCTAGCCAAGGCTTTGCAGCCC
 ACCAAAATCATCTTCTCAATAATTCAGGCGGCCTGCGGAATAACAGTCAGAAGATCCTGAGCAACGTGA
 ACCTGCCCCGTGACCTTGACCTTGTACCAACGCTGAGTGGTGAGCATCAAAGAGCGGCAGCAGATTTCG
 GCTCATCGTGGACGTGCTGAGCCGCTGCCGCACTACTCCTCCGAGTATTACAGCCGCTAGCACGCTG
 CTCACGGAACCTTTAGTAAACAAGGGCTGTGGCACCCCTGTTAAAAATGCTGAGCGGATGCTGCGAGTGC
 GCAACTGGACAGCTGGACCAGGGCCGCTAGTGAACCTAGTCAACGCCAGCTTCGGGAACAACGCGGCA
 AGAAGACTATCTGGAGTCACTGCGCCCTCGTTGCACTCGATCTATGTCTCTGAGGGGTACAACGCGGCA
 GCCATTCTGACAGTGAACCTGTACTAGGGGGCACCCATATCTGGACAAATTTGTGGTGAAGTCCAGCC
 GCCAGGGCCAAGTTCTGGACAGATGCTGTGGGAATGCCTTCGGAGAGACCTGCAAACGTTGTTCTGGCG
 CTCAAGGGTACCAATCCCATCAATCCCTGGTACTTCAAGCACAGTACGGTACGTTCTCCAACAAGCAG
 TGGATCTTCTTCTGGTTCGCGCTGGCCGACATCCGAGACTCTACGAACTAGTCAATCATGCCAAGGGGC
 TGCCGGACTCTTCTGCAAACAGCTTCTGACCCAGGCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220590 representing NM_145829
 Red=Cloning site Green=Tags(s)

MATAWVATALRSAAAARRLRSPGGPGGSRRLSGSARRRGAKSASPGRRLLSTARHAEDAEGAKGRVQSPA
 VEEPSWTPLPTPLESPAPPAGRSLVQRDIQAFLNQCGASPGEARHWLTQFQTCYHSVDKPFVMEVDEEV
 IRCPQAVSRLAFALAFQRMKPLVVLGLPTPTAPSGCLSFWEAKAQLAQCKVLVDELRHNAATAVFP
 FGGGSVLSAAEPAPHASYGGIVAVETDLLQWCLESNSIPILCPIGETAARRSVLLDSLEVTASLAKALQP
 TKIIFLNNSSGLRNNSQKILSNVNLPADLDLVNNAEWLSIKERQQIRLIVDVL SRLPHYSSAVITAASTL
 LTELFSNKGCGTLFKNAERMLRVRNLDLQGRVNLVNASFGKKLREDYLESLRPLHSIYVSEGYNAA
 AILTVEPVLGGTPYLDKFFVSSSRQGGSGQMLWECLRRDLQTLFWRSRVTNPIPWFYFKHSDGFSNKG
 WIFFWFLADIRDSYELVNHAKGLPDSFCKPASDPGS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145829

ORF Size: 1581 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:

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_145829.2](#), [NP_665828.1](#)

RefSeq Size: 2122 bp

RefSeq ORF: 1584 bp

Locus ID: 217214

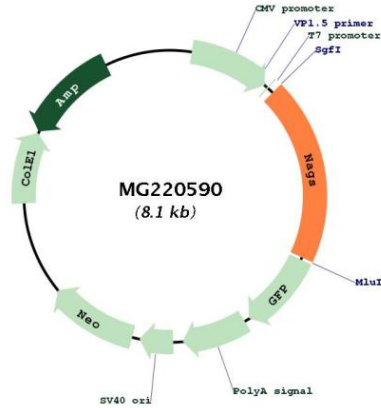
UniProt ID: [Q8R4H7](#)

Cytogenetics: 11 D

Gene Summary:

Plays a role in the regulation of ureagenesis by producing the essential cofactor N-acetylglutamate (NAG), thus modulating carbamoylphosphate synthase I (CPS1) activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220590