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Product datasheet for MG208450

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)

ORF Nucleotide Sequence:

>MG208450 representing NM_145829
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACGGCGTGGGTGGCCACAGCCCTGCGGTCTGCTGCAGCGGCCAGAAGGTTGCGCAGCCCGGGAG
GTCCTGGGGGCTCACGGAGACTGAGTGGCAGCGCGCGGCGGCGCGGGGCAAAGAGCGCCAGCCCGGGACG
CCGGCTCAGCACCGCCAGGGCTCACGCAGAGGACGCCGAGGGCGCTAAGGGTCGTGTCCAGTCTCCTGCG
GTCGAGGAGCCGTCGTGGACACCGCTTCCAACGCCCCTCGAATCCCCTGCGCCTCCCGCCGGCAGATCAC
TGGTGCAGCGGGACATCCAGGCCTTCCTGAACCAGTGTGGTGCCAGCCCGGGGGAAGCACGCCACTGGCT
CACGCAATTCCAGACCTGCTACCATTCGGTGGACAAGCCCTTCGCCGTCATGGAGGTCGATGAGGAGGTG
ATCCGGTGCCCGCAGGCGGTATCCCGCCTGGCTTTCGCCCTGGCCTTCTTGCAACGCATGGACATGAAGC
CACTGGTGGTTCTGGGGCTGCCTACCCCCACGGCACCTTCTGGCTGTCTTTCCTTCTGGGAAGCTAAGGC
GCAGCTTGCTCAGAGCTGCAAGGTGCTGGTGGATGAACTAAGGCACAACGCGGCTACTGCTGTGCCCTTT
TTTGGCGGCGGATCAGTACTGAGCGCTGCGGAGCCAGCTCCCCATGCCAGCTACGGTGGCATCGTCGCGG
TGGAGACAGACCTGTTGCAGTGGTGTCTGGAATCCAACAGCATCCCCATCCTGTGCCCCATTGGGGAAAC
GGCTGCGCGCCGTTCCGTGCTCCTTGACTCGCTGGAGGTGACTGCATCTCTAGCCAAGGCTTTGCAGCCC
ACCAAAATCATCTTCCTCAATAATTCAGGCGGCCTGCGGAATAACAGTCAGAAGATCCTGAGCAACGTGA
ACCTGCCCGCTGACCTTGACCTTGTTACCAACGCTGAGTGGCTGAGCATCAAAGAGCGGCAGCAGATTCG
GCTCATCGTGGACGTGCTGAGCCGCCTGCCGCACTACTCCTCCGCAGTCATTACAGCCGCTAGCACGCTG
CTCACGGAACTCTTTAGTAACAAGGGCTGTGGCACCCTGTTTAAAAATGCTGAGCGGATGCTGCGAGTGC
GCAACCTGGACAGCCTGGACCAGGGCCGCCTAGTGAACCTAGTCAACGCCAGCTTCGGCAAGAAGCTCCG
AGAAGACTATCTGGAGTCACTGCGCCCTCGGTTGCACTCGATCTATGTCTCTGAGGGGTACAACGCGGCA
GCCATTCTGACAGTGGAACCTGTACTAGGGGGCACCCCATATCTGGACAAATTTGTGGTGAGCTCCAGCC
GCCAGGGCCAAGGTTCTGGACAGATGCTGTGGGAATGCCTTCGGAGAGACCTGCAAACGTTGTTCTGGCG
CTCAAGGGTCACCAATCCCATCAATCCCTGGTACTTCAAGCACAGTGACGGTAGCTTCTCCAACAAGCAG
TGGATCTTCTTCTGGTTCGGCCTGGCCGACATCCGAGACTCCTACGAACTAGTCAATCATGCCAAGGGGC
TGCCGGACTCTTTCTGCAAACCAGCTTCTGACCCAGGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

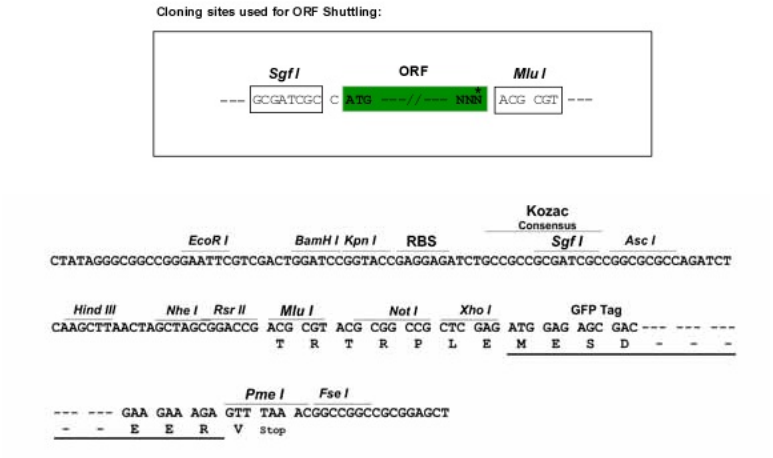
>MG208450 representing NM_145829
Red=Cloning site Green=Tags(s)

MATAWVATALRSAAAARRLRSPGGPGGSRRLSGSARRRGAKSASPGRRLSTARAHAEDAEGAKGRVQSPA
VEEPSWTPLPTPLESPAPPAGRSLVQRDIQAFLNQCGASPGEARHWLTQFQTCYHSVDKPFAVMEVDEEV
IRCPQAVSRLAFALAFLQRMDMKPLVVLGLPTPTAPSGCLSFWEAKAQLAQSCKVLVDELRHNAATAVPF
FGGGSVLSAAEPAPHASYGGIVAVETDLLQWCLESNSIPILCPIGETAARRSVLLDSLEVTASLAKALQP
TKIIFLNNSGGLRNNSQKILSNVNLPADLDLVTNAEWLSIKERQQIRLIVDVLSRLPHYSSAVITAASTL
LTELFSNKGCGTLFKNAERMLRVRNLDSLDQGRLVNLVNASFGKKLREDYLESLRPRLHSIYVSEGYNAA
AILTVEPVLGGTPYLDKFVVSSSRQGQGSGQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSDGSFSNKQ
WIFFWFGLADIRDSYELVNHAKGLPDSFCKPASDPGS

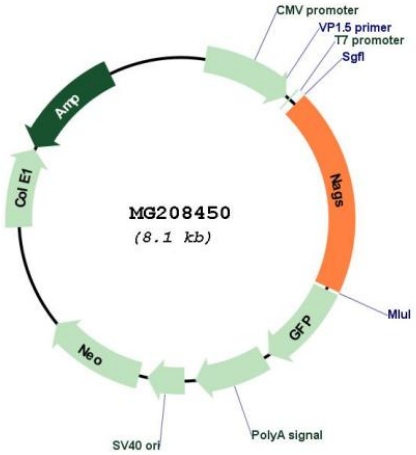
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_145829
ORF Size:	2119 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:	1584 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]