

Product datasheet for MR205501

Nans (NM_053179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nans (NM_053179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nans
Synonyms:	4632418E04Rik; BB056474; Sas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205501 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTGGAAGCTGGAGCTGTGTCCCGGGCGCTGGGTGGGTGGAAGCACCCGTGCTTCATCATCGCGG
AGATCGGCCAGAACCACCAAGGAGACATAGATGTGCCAAGCGCATGATCCGCACTGCCAAGGAGTGTGG
GGCCGACTGCGCTAAGTTTCAGAAGAGCGAGTTGGAGTTCAAGTTTAACCGGAAGGCCCTGGAGAGACCA
TATACTTCGAAGCATTTCATGGGGGAAGACGTATGGGGAGCACAAGCGGCATCTGGAATTCAGCCACGACC
AGTACAAGGAGCTGCAGAGCTATGCGCAGGAGATCGGCATCTTCTCACTGCCTCTGGCATGGACGAGAT
GGCAGTTGAGTTTCTGCACGAACTGAATGTTCCCTTTTTCAAAGTTGGATCTGGGGACACTAACAAATTTT
CCCTACCTGGAAGACAGCCAAGAAAGGTCGTCCTATGGTGATCTCCAGCGGGATGCAGTCAATGGACA
CCATGAAGCAAGTCTATCAGATCGTGAAGCCGCTGAATCCCAACTTCTGTTCTCCAATGCACCAGCGC
GTACCCACTACAGCCCGAGGATGCCAACCTGCGCGTCACTCGGAATACCAGAAGCTCTTCCCGACATT
CCCATCGGGTATTCGGGCACGAGACGGGCATCGCCATATCTGTGGCCCGCTGGCTCTGGGGGCCAAGG
TGTTGGAACGTCACATAACGTTGGACAAGACCTGGAAGGGGAGTGACCACTCAGCCTCGCTGGAGCCTGG
GGAGCTGGCAGAGCTGGTGGCTGTGTGCGCTGGTGGAGCGGCCCTGGGCTCCCCAACCAAGCAGCTG
CTGCCCTGTGAGATGGCCTGCAATGAGAAGCTCGCAAGTCTGTGGTAGCCAAAGTGAAAATCCCAGCAG
GCACCACCTGACCCTGGACATGCTCACTGTGAAGGTGGGGAGCCCAAAGGCTATCCTCCTGAAGACAT
CTTCAACCTAGCGGGCAAAAAGGTGCTGGTCACTATCGAAGAAGTGACACGGTCATGGAAGAATCCGTG
GAAAGTACAGCAAGAAAATCAAGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205501 protein sequence
 Red=Cloning site Green=Tags(s)

MPLELELCPRWVGGKHPCFIIAEIQNHQGDIDVAKRMIRTAKECGADCAKFQKSELEFKFNRKALERP
 YTSKHSWGKTYGEHKRHLFESHQYKELQSYAQEIGIFFTASGMDEMAVEFLHELNVPPFKVSGDNTNF
 PYLEKTAKKGRPMVISSGMQSDMTMKQVYQIVKPLNPNFCFLQCT SAYPLQPEDANLRVISEYQKLFPI
 PIGYSGHETGIAISVAVALGAKVLERHITLTKTWKSDHSASLEPGELAE L VRSVRLVERALGSPTKQL
 LPCEMACNEKLGKSVVAKYKIPAGTTLTLDMLTVKVGEPKGYPPEDI FNLAGKKVLVTIEEDDTVMEESE
 ESHSKKKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053179

ORF Size: 1080 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_053179.3](#)

RefSeq Size: 1904 bp

RefSeq ORF: 1080 bp

Locus ID: 94181

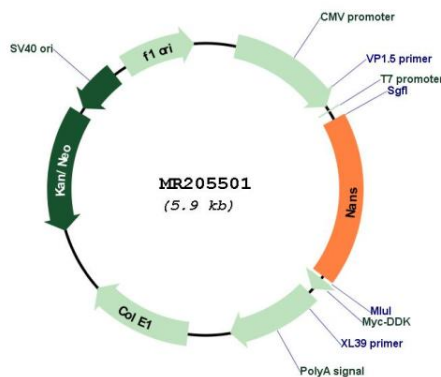
UniProt ID: [Q99J77](#)

Cytogenetics: 4 B1

MW: 40 kDa

Gene Summary: Produces N-acetylneuraminase-9-phosphate (Neu5Ac-9-P) from N-acetylmannosamine 6-phosphate. Has no detectable activity towards N-acetylmannosamine or mannose 6-phosphate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205501