

Product datasheet for MR218943

Nth1 (NM_008743) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nth1 (NM_008743) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nth1
Synonyms:	Nth1; Octs3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218943 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCAGGGGTGCGGATGGTGACTCGCAGTCGGAGCCGCGGACTAGGATCGCGTCGGAAGGGTGTA
GGGAGGAGCTCGCCCCGCGAGAGGCTGCTGCAGAAGGAAGAAAAAGCCACAGGCCCGTGAGACATCCACG
GAGAACACAGAAAACGCATGTGGCCTATGAAGCGGCTAATGGTGAGGAAGGCGAAGATGCTGAGCCCTC
AAAGTGCCGTTTGGGAGCCCCAGAAGTGGCAGCAGCAACTGGCCAACATCCGCATCATGAGAAGCAAGA
AGGATGCACCTGTGGACCAGCTAGGCGCCGAGCACTGCTATGATGCAAGTGCCCCCGAAGGTGAGGAG
GTACCAGTACTCCTGTGCTGATGCTCTCCAGCCAGACCAAGACCAGGTCACAGCAGGTGCCATGCAA
CGGCTCCGGGCCCGGGCTTGACTGTGGAGAGCATCCTGCAGACCGATGATGACACGCTAGGCAGACTCA
TCTACCCTGTGGGCTTCTGGAGGAACAAGGTAATAACATCAAGCAGACAACCGCCATCCTGCAGCAGCG
CTACGAAGGGGACATCCCTGCTCCGTGGCTGAGCTGGTAGCCTTGCCAGGTGTTGGGCCCAAGATGGCA
CACTTGGCTATGGCTGTGGCCTGGGGACCATATCAGGCATAGCAGTGGACACACATGTGCACAGAATAG
CCAACAGACTGAGGTGGACCAAGAAGATGACCAAGACCCAGAAGAGACACGCAAGAAGTGAAGAGTG
GCTACCCAGGGTGTGTGGAGTGAAGTCAACGGACTACTGGTAGGCTTCGGCCAACAGATCTGTCTTCT
GTCCATCTCGATGTCAGGCTTGCTCAACAAGGCCCTGTGCCCTGCTGCCAGGATCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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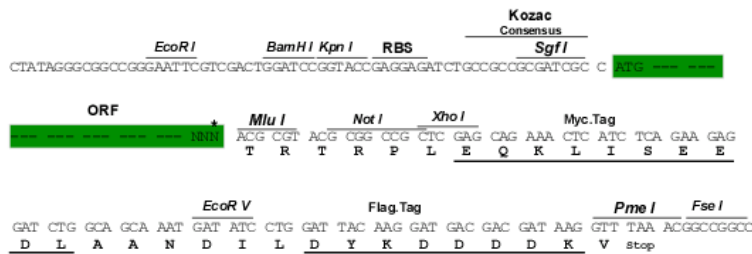
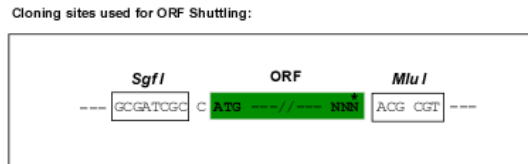
Protein Sequence: >MR218943 protein sequence
Red=Cloning site Green=Tags(s)

MNSGVRMVTRSRSRATRIASEGCREELAPREAAAEGRKSHRPVHRPRTQKTHVAYEAANGEEDAEPL
 KVPVWEPQNWQQQLANIRIMRSKKDAPVDQLGAEHYDASAPPKVRRYQVLLSLMLSSQTKDQVTAGAMQ
 RLRARGLTVESILQTDDDLGRLLIYPVGFWRNKVKYIKQTTAILQQRVEGDIPASVAELVALPGVGPKMA
 HLAMAVAWGTISGIAVDTHVHRIANRLRWTKKMTKTPETRKNLEEWLPRVLWSEVNGLLVGFQQICLP
 VHPRCQAQLNKALCPAAQDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_008743

ORF Size: 903 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_008743.1](#), [NM_008743.2](#), [NP_032769.2](#)

RefSeq Size: 1080 bp

RefSeq ORF: 903 bp

Locus ID: 18207

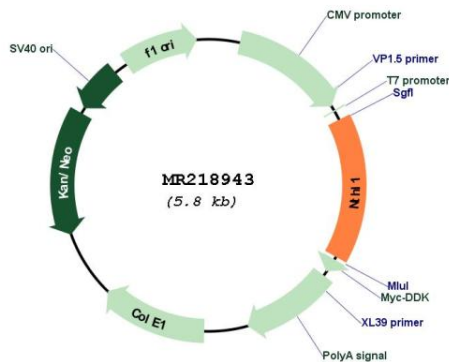
UniProt ID: [O35980](#)

Cytogenetics: 17 A3.3

MW: 33.6 kDa

Gene Summary: Bifunctional DNA N-glycosylase with associated apurinic/aprimidinic (AP) lyase function that catalyzes the first step in base excision repair (BER), the primary repair pathway for the repair of oxidative DNA damage. The DNA N-glycosylase activity releases the damaged DNA base from DNA by cleaving the N-glycosidic bond, leaving an AP site. The AP lyase activity cleaves the phosphodiester bond 3' to the AP site by a beta-elimination. Primarily recognizes and repairs oxidative base damage of pyrimidines.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218943