

Product datasheet for **MC209061**

Nth1 (NM_008743) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nth1 (NM_008743) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nth1
Synonyms: Nth1; Octs3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209061 representing NM_008743
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACTCAGGGGTGCGGATGGTACTCGCAGTCGGAGCCGCGGACTAGGATCGCGTCGGAAGGGTGTA
GGGAGGAGCTCGCCCCGCGAGAGGCTGCTGCAGAAGGAAGAAAAAGCCACAGGCCGTGAGACATCCACG
GAGAACACAGAAAACGCATGTGGCCTATGAAGCGGCTAATGGTGAGGAAGGCGAAGATGCTGAGCCCTC
AAAGTGCCCGTTTGGGAGCCCCAGAAGTGGCAGCAGCAACTGGCCAACATCCGCATCATGAGAAGCAAGA
AGGATGCACCTGTGGACCAGCTAGGCGCCGAGCACTGCTATGATGCAAGTGCCTCCCCGAAGGTGAGGAG
GTACCAGGTACTCCTGTGCTGATGCTCTCCAGCCAGACCAAGACCAGGTACACAGCAGGTGCTATGCAA
CGGCTCCGGGCCCGGGGCTTACTGTGGAGAGCATCCTGCAGACCGATGATGACACGCTAGGCAGACTCA
TCTACCCTGTGGGCTTCTGGAGGAACAAGGTAATAACATCAAGCAGACAACCGCCATCCTGCAGCAGCG
CTACGAAGGGGACATCCCTGCTCCGTGGCTGAGCTGGTAGCCTTGCCAGGTGTTGGGCCAAGATGGCA
CACTTGGCTATGGCTGTGGCTGGGGACCATATCAGGCATAGCAGTGGACACACATGTGCACAGAATAG
CCAACCGACTGAGGTGGACCAAGAAGATGACCAAGACCCAGAAGAGACACGTAAGAAGTGGAAAGATG
GCTACCCAGGGTGTGGAGTGGGTCAACGGACTACTGGTAGGCTTCGGCCAACAGATCTGTCTTCTCT
GTCCATCTCGATGTCAGGCTTGCCCAACAAGGCCCTGTGCCCTGCTGCCAGGATCTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008743
Insert Size: 903 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_008743.2 , NP_032769.2
RefSeq Size:	1080 bp
RefSeq ORF:	903 bp
Locus ID:	18207
UniProt ID:	O35980
Cytogenetics:	17 A3.3
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]