

Product datasheet for **RG214598**

NTH1 (NTHL1) (NM_002528) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTH1 (NTHL1) (NM_002528) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NTH1
Synonyms:	FAP3; hNTH1; NTH1; OCTS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214598 representing NM_002528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTAGTCCGCAGGAGTCCGGCATGACCGCCTTGAGCGCGAGGATGCTGACCCGGAGCCGGAGCCTGG
GACCCGGGGCTGGGCCGCGGGGTGTAGGGAGGAGCCCGGCCTCTCCGGAGAAGAGAGGCTGCAGCAGA
AGCGAGGAAAAGCCACAGCCCCGTGAAGCGTCCGCGAAAGCACAGAGACTGCGTGTGGCCTATGAGGGC
TCGGACAGTGAGAAAGGTGAGGGGGCTGAGCCCCCTCAAGGTGCCAGTCTGGGAGCCCCAGGACTGGCAGC
AACAGCTGGTCAACATCCGTGCCATGAGGAACAAAAGGATGCACCTGTGGACCATCTGGGGACTGAGCA
CTGCTATGACTCCAGTGCCCCCAAGGTACGCAGGTACCAGGTGCTGCTGTCACTGATGCTCTCCAGC
CAAACCAAGACCAGGTGACGGCGGGCGCCATGCAGCGACTGCGGGCGCGGGCCTGACGGTGGACAGCA
TCCTGCAGACAGATGATGCCACGCTGGGCAAGCTCATCTACCCCGTCGGTTTCTGGAGGAGCAAGGTGAA
ATACATCAAGCAGACCAGCGCCATCCTGCAGCAGCACTACGGTGGGGACATCCCAGCCTCTGTGGCCGAG
CTGGTGGCGTGCCGGGTGTTGGGCCAAAGATGGCACACCTGGCTATGGCTGTGGCCTGGGGCACTGTGT
CAGGCATTGCAGTGGACACGCATGTGCACAGAATCGCCAACAGGCTGAGGTGGACCAAGAAGGCAACCAA
GTCCCCAGAGGAGACCCGCGCCGCCCTGGAGGAGTGGCTGCCTAGGGAGCTGTGGCACGAGATCAATGGA
CTCTTGGTGGGCTTCGGCCAGCAGACCTGTCTGCCTGTGCACCTCGCTGCCACGCTGCCTCAACCAAG
CCCTCTGCCCGGCCGCCAGGGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214598 representing NM_002528
 Red=Cloning site Green=Tags(s)

MCSPQESGMTALSARMLTRSRSLGPGAGPRGCREEPGLRRREAAAARKSHSPVKRPRKAQRLRVAYEG
 SDSEKGEAEPLKVPVWEPQDWQQQLVNIRAMRNKKDAPVDHLGTEHCYDSSAPPKVRRYQVLLSLMLSS
 QTKDQVTAGAMQRLRARGLTVDSILQTDATLGKLIYPVGFWRSKVKYIKQTSAILQQHYGGDIPASVAE
 LVALPGVGPMAHLAMAVAWGTVSGIAVDTHVHRIANRLRWTKKATKSPEETRAALEEWLPRELWHEING
 LLVGFQQTCLPVHPRCHACLNQALCPAAQGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002528

ORF Size: 936 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_002528.6](#)

RefSeq Size: 1097 bp

RefSeq ORF: 915 bp

Locus ID: 4913

UniProt ID: [P78549](#)

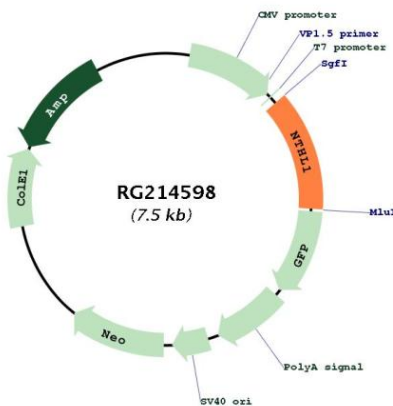
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Base excision repair

Gene Summary: The protein encoded by this gene is a DNA N-glycosylase of the endonuclease III family. Like a similar protein in *E. coli*, the encoded protein has DNA glycosylase activity on DNA substrates containing oxidized pyrimidine residues and has apurinic/apyrimidinic lyase activity. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG214598