

Product datasheet for **SC113594**

NUDT15 (NM_018283) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT15 (NM_018283) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUDT15
Synonyms:	MTH2; NUDT15D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113594 sequence for NM_018283 edited (data generated by NextGen Sequencing)

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ATGACGGCCAGCGCACAGCCGCGGGCGGGCCAGGAGTCGGAGTCGGAGTCGTGGTG
ACCAGCTGCAAGCATCCGCGTTGCGTCCTCTGGGGAAGAGGAAAGGCTCGGTTGGAGCT
GGCAGTTTCCAACCTCCCTGGAGGTCATCTGGAGTTCGGTGAAACCTGGGAAGAATGTGCT
CAAAGGGAAACCTGGGAAGAAGCAGCTCTTACCTGAAAAATGTTCACTTGCCTCAGTT
GTGAATTCTTTCATTGAGAAGGAGAATTACCATTATGTTACTATATTAATGAAAGGAGAA
GTGGATGTGACTCATGATTCAGAACCAAGAATGTAGAGCCTGAAAAAATGAAAGTTGG
GAGTGGGTTCTTGGGAAGAACTACCTCCCTGGACCAGCTTTTCTGGGGACTGCGTTGT
TTAAAAGAACAAGGCTATGATCCATTTAAAGAAGATCTGAACCATCTGGTGGGATACAAA
GGAAATCATCTCTAG
```

Clone variation with respect to NM_018283.1



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018283 unedited
 TGTACATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCCCGCGCGCT
 ATGACGGCCAGCGCACAGCCGCGCGGGCGGCCAGGAGTCGGAGTCGGAGTCGTGGTG
 ACCAGCTGCAAGCATCCGCGTTGCGTCTCCTGGGGAAGAGGAAAGGCTCGGTTGGAGCT
 GGCAGTTTCCAACCTCCCTGGAGATCATCTGGAGTTCGGTGAAACCTGGGAAGAATGTGCT
 CAAAGGGAAACCTGGGAAGAAGCAGCTCTCACCTGAAAAATGTTCACTTTGCCTCAGTT
 GTGAATTCCTTTCATTGAGAAGGAGAATTACCATTATGTTACTATATTAATGAAAGGAGAA
 GTGGATGTGACTCATGATTCAGAACCAAGAATGTAGAGCCTGAAAAAATGAAAGTTGG
 GAGTGGGTTCTTGGGAAGAAGTACCTCCCTGGACCAGCTTTTCTGGGACTGCGTTGT
 TAAAAAGAACAAGGCTATGATCCATTTAAAGAAGATCTGAACCATCTGGTGGGATACAAA
 GGAAATCATCTCTAGGTGGCCAAGAAGATTTGATTTTCTTTAAAAAGACAAGAATAAGGT
 CTGTTAGGGAATGAAAAATGTATACATTTGGAACAACCTCCATTTTATCTAAAAAGTT
 CTTGTGATTGCCAGTTTATTTGCAGTCTTATGTATCCCCCTCTTTCAGCCAGTACTT
 GAGAAAAATTTTCTGAATATGTCATTGAATTGTATTCCAGACACAGAATACATGATAAT
 ACTGATATTATGGTAATCTGCTTCCATATTTACTATGATATTACTGTGCAGNTTGNATT
 ACTAGCTGCATGGAGTAGATGCATCAAATTCCTTAGTGTCTGTCAATAGAGACCCTG
 ATCAATTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018283 unedited
 GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TAATTTCTTAAAAATTTTATTAATCATTGCAAGTAACAAGAACCAAGTTTATATAAACA
 CATAAAAAATTTTTGGCAAATAGCTAATTTTATTTTTTTCACATATTAACCCACTAA
 AAATAACCATTTTTCTAACTAACCAACAACAAAAATTAGGGAGAAAAGTACTGGTGCTTTA
 CATTTCTCCAAATCTTCAATGTCTGATGACAGACGAAAGCTGGAATCTTGGATCTGCT
 TTTGCATTGACCTATTACAATATCACACCAGATAGCCTCTTGAAAACCTCTCTGCATAC
 TCATGAAAAATGAGGAAAAAGATAAATGATGGCTGGGCGTTGGGGCTCATACCTGTAA
 TCCCAGCACTTTGGGAGGCTGAAATGGGCAATCACTTGAGCTCAGGAGTTCAGACCAG
 CCTGGCCAACATGGGGAACCCCGTCTCCACTAAAAATACAAAAATTAGCCAGGTGTGGG
 GGTGGGTGCCTATAATCCCAGCTACTCGGAAGCTGAGGTAGGAGAATTGCTTGAACCA
 GGTGGCGGAGGCTGCAATGAGCTGAGATCGGCCACTGCACTCCAATGTGGGCACCAGAG
 CAAGACTCCTTCTAAAAATAAAAAAGGGAAGCTATAAATAGCGAAATGATGTCTTAGTG
 TTATAAAAAACAGTTTTGACCCAAAAAACCTTGAAGGCTTTTGGGCCCCCAGACCAA
 ATTTTGACACCCACTGTTCTAGACGAATCTTTCATATAAAGAAACCTTTCATAATAAGA
 ACCCTGGCCTCAAAAAGAGTAGTGGGAAACTCACCTCCAAGCCTTTAAAGCCTGAAC
 AGAATATAAAGGGTTGCCCAACTCTTTGGTTTAAATCCTACATGG

Restriction Sites:

NotI-NotI

ACCN:

NM_018283

Insert Size:

2000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_018283.1](#), [NP_060753.1](#)

RefSeq Size: 2022 bp

RefSeq ORF: 495 bp

Locus ID: 55270

UniProt ID: [Q9NV35](#)

Cytogenetics: 13q14.2

Domains: NUDIX

Gene Summary: This gene encodes an enzyme that belongs to the Nudix hydrolase superfamily. Members of this superfamily catalyze the hydrolysis of nucleoside diphosphates, including substrates like 8-oxo-dGTP, which are a result of oxidative damage, and can induce base mispairing during DNA replication, causing transversions. The encoded enzyme is a negative regulator of thiopurine activation and toxicity. Mutations in this gene result in poor metabolism of thiopurines, and are associated with thiopurine-induced early leukopenia. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Apr 2016]
Transcript Variant: This variant (1) encodes the longer isoform (1).