

Product datasheet for **SC216483**

Thymine DNA glycosylase (TDG) (NM_003211) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Thymine DNA glycosylase (TDG) (NM_003211) Human 3' UTR Clone
Symbol:	Thymine DNA glycosylase
Synonyms:	hTDG
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003211
Insert Size:	1814 bp



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Insert Sequence: >SC216483 3'UTR clone of NM_003211
 The sequence shown below is from the reference sequence of NM_003211. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAAGAACAGGAAGAAGAAAGCCATGCTAAGAATGGTGCTTCTCAGCTCTGCTTAAATGCTGCAGTTTT
AATGCAGTTGTCAACAAGTAGAACCTCAGTTTGTAACTGAAGTGTATTTATTAGTATTTACTCTAGTG
GTGTAATTGTAATGTAGAACAGTTGTGTGGTAGTGTGAACCGTATGAACCTAAGTAGTTTGAAGAAAA
AGTAGGGTTTTGTATACTAGCTTTTGTATTTGAATTAATTATCATTCCAGCTTTTTATATACTATATT
TCATTTATGAAGAAATTGATTTTCTTTGGGAGTCACTTTAATCTGTAATTTAAAATACAAGTCTGA
ATATTTATAGTTGATTCTTAACGCATAAACCTAGATATACCATTATCCCTTTTATACCTAAGAAGGGC
ATGCTAATAATTACCACTGTCAAAGAGGCAAAGGTGTTGATTTTTGTATATGAAGTTAAGCCTCAGTGG
AGTCTCATTGTTAGTTTTAGTGGTAACTAAGGGTAACTCAGGGTCCCTGAGCTATATGCACACTC
AGACCTCTTGTCTTACCAGTGGTGTGTGAGTTGCTCAGTAGTAAAACTGGCCCTTACTGACAGA
GCCCTGGCTTTGACCTGCTCAGCCCTGTGTGTTAATCCTCTAGTAGCCAATTAACACTCTGGGGTGGC
AGGTTCCAGAGAAATGCAGTAGACCTTTTGCCTCATCTGTGTTTACTTGAGACATGTAATATGATA
GGGAAGGAACTGAATTTCTCCATTCATATTTATAACCATTCTAGTTTTATCTTCTTGGCTTTAAGAGT
GTGCCATGGAAAGTGATAAGAAATGAACCTTAGGCTAAGCAAAAAGATGCTGGAGATATTTGATACTC
TCATTTAACTGGTGCTTTATGTACATGAGATGTACTAAAATAAGTAATATAGAATTTTTCTTGCTAGG
TAAATCCAGTAAGCCAATAATTTTAAAGATTCTTTATCTGCATCATTGCTGTTTGTACTATAAATTA
ATGAACCTCATGGAAAGGTTGAGGTGTATACCTTTGTGATTTTCTAATGAGTTTTCCATGGTGCTACA
ATAATCCAGACTACCAGGCTGGTAGATATTAAGCTGGTACTAAGAAATGTTATTTGCATCCTCTCA
GTTACTCTGAATATTCTGATTTACATACGTACCCAGGGAGCATGCTGTTTTGTCAATCAATATAAATA
TTTATGAGGTCTCCCCACCCAGGAGTTATATGATTGCTCTTCTTTATAAAGAGAAACAAT
TCTTATTGTGAATCTAACATGCTTTTTAGCTGTGGCTATGATGGATTTATTTTTCTAGGTCAAGC
TGTGTAAGTCAATTTATGTTATTTAAATGATGTACTGTACTGCTGTTTACATGGACGTTTTGTGCGGG
TGCTTTGAAGTGCCTTGCATCAGGGATTAGGAGCAATTAATTTTTCACGGGACTGTGTAAGCA
TGTAACCTAGTATTGCTTTGGTATATACTATTGTAGCTTTACAAGAGATTGTTTTATTTGAATGGGA
AAATACCTTTAAATTATGACGGACATCCACTAGAGATGGGTTTGAAGTTTTCCAAGCGTGAATAAT
GATGTTTTTCTAACATGACAGATGAGTAGTAAATGTTGATATACCTATACATGACAGTGTGAGACTT
TTTCATTAATAATATTGAAAGATTTTAAATTCATTTGAAAGTCTGATGGCTTTACAATAAAGATA
TTAAGAATTGTTATCCTTAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_003211.6](#)

Summary:

The protein encoded by this gene belongs to the TDG/mug DNA glycosylase family. Thymine-DNA glycosylase (TDG) removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. With lower activity, this enzyme also removes thymine from C/T and T/T mispairings. TDG can also remove uracil and 5-bromouracil from mispairings with guanine. This enzyme plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine. This gene may have a pseudogene in the p arm of chromosome 12. [provided by RefSeq, Jul 2008]

Locus ID:

6996

MW:

71.1