

Product datasheet for **SC213762**

DUT (NM_001025248) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	DUT (NM_001025248) Human 3' UTR Clone
Symbol:	DUT
Synonyms:	dUTPase
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001025248
Insert Size:	1325 bp



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Insert Sequence: >SC213762 3'UTR clone of NM_001025248
 The sequence shown below is from the reference sequence of NM_001025248. 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
GGAGGTTTTGGTTCCACTGGAAAGAATAAAATTTATGCCAAGAACAGAAAAACAAGAAGTCATACCTTT
TTCTTAAAAAAAAAAAAAAAAAGTTTTTGGCTTCAAGTGTGTTTGGTGTGTTTGCACCTTCTGTAAACTTACTAG
CTTTACCTTCTAAAAGTACTGCATTTTTTACTTTTTTTTATGATCAAGGAAAAGATCATTAAAAAAAA
CACAAAGAAGTTTTTCTTTGTGTTGGATCAAAAAGAACTTTGTTTTCCGCAATTGAAGTTGTATG
TAAATCTGCTTTGTGGTACCTGATGTAACAGTGTCTTCTTAAAATCAAATGTAATCAATTACAGAT
TAAAAAAAAAAGCCTGTATTTAACTCATATGATCTCCCTTCAGCAACTTATTTTGCTTTAATTGCTTTA
AATCTTAAGCAATTTTTTTTATTCAGTAAACAAATCTTTACAAGGTACAAAATCTTGCATAAGCTGA
ACTAAAATAAAAATGAAAAGGAGAGATTAAGGTATTCCTTGTTCTTCCCTTCTTCTCACTAGTCTAAA
AACTTCTTTTTAATCTTAAGATTCTTTGTGATGAGGGTGAGAAAAAGAATCCTCAGTTTATTTTTCCAC
TATTAATCTTTCTTTTGATAAATCCTCTATTGACTGGGTAGAGGTATGTTTGTGAAAGACATGTAACCT
GGGGATTTGTTACTTTAGGTTTGTCCCTTGAATTTTCATCTCATCAGGCAAATTGTAAGTTGTAGTT
ACGAGTTTTCCCTCAGTGAAGTAGCAATAGGCTGTAATCAAGAAAATATGCCATTTATAGAGATAAGAT
AAATGAAATAACTTCAGCCACCAGGTTTTCTGTCTCACATACATAAGCAGCATTTCATTGCAGATA
TGGGACTGATTCTGTGGCTTACCTTGATTAACATCTTTTGGAAAGTTTTGCTAGTGTGCTTTCCTTTCTT
TACTATGTTTCTCAGATTCTTTGTATCAGGGTTTTGGGTGTCACTTAGGTTTTGTCCATCAGATTCTG
TGAGACACCAGGCATCGTTTTGAGGATGTGGTTATACACATGGAGTGCTTCTGGAACATCAGCCAC
TTGACCACCCAGTTTGTGGAAGCACAGGCAAGAGTGTTCTTTTCTGGTGATTCTCAGGCCATTTAATA
CCCTGCAATGTAATTGTCCCTCTGTGGCTCACATTTTATTAGTGAGCCATGAAATCAACTCAGTGGGAC
ATAGCCAGCATTTTTGCATACCAGTTGGGCTATAAAAATATTTCTGTTGTCAATAAATTTAAATGTTT
TCCTGCTAAACTAA
ACGCGTAAAGCGCCGCGGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-Mlul

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_001025248.2](#)

Summary:

This gene encodes an essential enzyme of nucleotide metabolism. The encoded protein forms a ubiquitous, homotetrameric enzyme that hydrolyzes dUTP to dUMP and pyrophosphate. This reaction serves two cellular purposes: providing a precursor (dUMP) for the synthesis of thymine nucleotides needed for DNA replication, and limiting intracellular pools of dUTP. Elevated levels of dUTP lead to increased incorporation of uracil into DNA, which induces extensive excision repair mediated by uracil glycosylase. This repair process, resulting in the removal and reincorporation of dUTP, is self-defeating and leads to DNA fragmentation and cell death. Alternative splicing of this gene leads to different isoforms that localize to either the mitochondrion or nucleus. A related pseudogene is located on chromosome 19. [provided by RefSeq, Jul 2008]

Locus ID:

1854

MW:

51.3