

## Product datasheet for SC119284

### DNase II (DNASE2) (NM\_001375) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNase II (DNASE2) (NM_001375) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNASE2
Synonyms:	DNASE2A; DNL; DNL2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119284 sequence for NM_001375 edited (data generated by NextGen Sequencing)

```
ATGATCCCCTGCTGCTGGCAGCGCTGCTGTGCGTCCCCGCCGGGGCCCTGACCTGCTAC
GGGGACTCCGGGAGCCTGTAGACTGGTTCGTGGTCTACAAGCTGCCAGCTTTAGAGGG
TCCGGGGAGGCGGCAGAGAGGGCTGCAGTACAAGTATCTGGACGAGAGCTCCGGAGGC
TGGCGGGACGGCAGGGCACTCATCAACAGCCCGGAGGGGGCCGTGGGCCGAAGCCTGCAG
CCGCTGTACGGGAGCAACACCAGCCAGCTCGCCTTCTGCTCTACAATGACCAACCGCT
CAACCCAGCAAGGCTCAGGACTTCCATGCGTGGGCACACGAAGGGTGCCTGCTCCTT
GACCACGATGGGGGCTTCTGGCTGGTCCACAGTGTACCTAACTCCCTCCACCGGCTCC
TCTGCTGCATACAGCTGGCCTCATAGCGCTGTACCTACGGGCAGACCCTGCTCTGTGTG
TCTTTTCCCTTCGCTCAGTTCTCGAAGATGGGCAAGCAGCTGACCTACACCTACCCTGG
GTCTATAACTACCAGCTGGAAGGGATCTTTGCCAGGAATCCCCGACTTGGAGAATGTG
GTCAAGGGCCACCACGTTAGCCAAGAACCCTGGAACAGCAGCATCACACTCACATCCCAG
GCCGGGGCTGTTTTCCAGAGCTTTGCCAAGTTCAGCAAATTTGGAGATGACCTGTACTCC
GGCTGGTTGGCAGCAGCCCTTGGTACCAACCTGCAGGTCCAGTTCTGGCACAAAAGTGA
GGCATCCTGCCCTCTAACTGCTCGGATATCTGGCAGGTTCTGAATGTGAACCAGATAGCT
TTCCCTGGACCAGCCGGCCCAAGCTTCAACAGCACAGAGGACCCTCCAATGGTGGCTG
TCCCCAAAAGGGCCCTGGACCTGCGTGGGTGACATGAATCGGAACAGGGAGAGGAGCAA
CGGGGTGGGGGCACACTGTGTGCCAGCTGCCAGCCCTCTGAAAAGCCTTCCAGCCGCTG
GTGAAGAACTACCAGCCCTGTAATGGCATGGCCAGGAAGCCAGCAGAGCTTATAAGATC
TAA
```

Clone variation with respect to NM\_001375.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001375 unedited  
 TAGATTTGTATACGACTCACTATAGGGNCCGGCCGCGCAATTCGGCACGAGGATGTAACC  
 CAGCGCCCCGAGTCCCGACACAGATTCTGGATCTCAGCCCCATAGCAGCTATGATCCC  
 GCTGCTGCTGGCAGCGCTGCTGTGCGTCCCCGCCGGGGCCCTGACCTGCTACGGGGACTC  
 CGGGCAGCCTGTAGACTGGTTCGTGGTCTACAAGCTGCCAGCTCTTAGAGGGTCCGGGGA  
 GGCGGCGCAGAGAGGGCTGCAGTACAAGTATCTGGACGAGAGCTCCGGAGGCTGGCGGGA  
 CGGCAGGGCACTCATCAACAGCCCCGAGGGGGCCGTGGGCCGAAGCCTGCAGCCGTGTA  
 CCGGAGCAACACCAGCCAGCTCGCCTTCCTGCTCTACAATGACCAACCGCCTCAACCCAG  
 CAAGGCTCAGGACTCTTCCATGCGTGGGCACACGAAGGGTGTCTGCTCCTTGACCACGA  
 TGGGGGCTTCTGGCTGGTCCACAGTGTACCTAACTTCCCTCCACCGGCCTCCTGCTGC  
 ATACAGCTGGCCTCATAGCGCTGTACCTACGGGCAGACCCTGCTCTGTGTGCTTTTCC  
 CTTGCTCAGTTCTCGAAGATGGGCAAGCAGCTGACCTACACCTACCCCTGGGTCTATAA  
 CTACCAGCTGGAAGGGATCTTTGCCAGGAATCCCCGACTTGGAGAATGTGGTCAAGGG  
 CCACCAGTTAGCCAAGAACCCTGGAACAGCAGCATCACACTCACATCCCAGCCCCGGGC  
 TGTTTTCCAGAGCTCTGCCAAGTTCAGCAAATTTGGAGATGACCTGTACTCCGGCTGGTT  
 GGCAGCAGCCCTTGGTCCAACTGCAGGTCCAGTCTCTGCACAAAAGTGTAGCATCCTG  
 CCCTCTAACTGCTCGNATATTTGGCAGGTTCTGAATGTGGACCCGCATACCTTCCCTGTA  
 CCAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001375 unedited  
 CTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTTTTTATTTTTTTTATTTTTTTGACACAG  
 AGTCTCATTCTGTACCCAGGCTGAAGTGCCGTGGTGTAGCTCAGCTCATGACAACCTC  
 TGCCTCCCGAGTCAAGCGATTCTCCTGCCTTACCCTCCCGAGGAGCTAGGACCACAGAC  
 GCGTGCCACCATGCCTGGCTAATCCTTAAACATTCTTAATGGATATGGGGTTTCACCATG  
 TTGGCCAGGCTGGCCTCGAACTCCTGACCTCAAGTGATCTGCCATCTAAGACTCCCAAA  
 GTGCTGGGGCTACAGATGTGAGCCACTGCACCCACCCGTACACCGACCACCTTTTTTTTT  
 TGAACAGAGCCTTGCTCTGTGACCTCACGCTGGCGCCACATAGCCCACTGTACCCAT  
 GATTTCCCACTGGCCCAACCCATCCTCTGGCTTCACTGCGCCGGTACCCACAGGCCTTTAC  
 CACCCGCGCCTGCTTCCCTCTCTTCCAACCTCCATCTCCACATGTGGCCTCCCTTTGCAAC  
 CCCCAGCTGTCCCCCATCCCCTGCCTTCTAAGTGACCCCTTACCTCCTTCGACTTCGCC  
 AAGTCGCATGGAATACCATACCCGACCGCTGCCCTTGGCCCCAATGGCCTCCAACATT  
 ACTAACCCCTGCTGGGCTACCCGGCCATTCCATCACAGGGCTTGCCAACTCCCCAAC  
 CCCCCTCGTAACGATTATATTAAGGGCTCGCCCTCCGGGCCACAGTTGTGCCACACC  
 TCCCCACCACTATACATTCTTGGCACACCCCTTGGCACACCCCTTGGCACACCCCTTGG  
 TTTTTCGGGACCCTCAACCCCTCTGCGTCGATTATACTCGCCTATATTAACCTTGG  
 CTTCAATTTGACCACCCGCAANTGTGCTTGGCATATTTATCACGCCTTCGGCCTTTCC  
 CCTTACCCCATACGGCGACGCTCAATATAATACAGCGCTCATAACCCCGCATTCTCA  
 TCGCTNGTCCCCATGCGCTGCCGCACATTACCGCCGTCCCGTCCCTCCCACTCCTCTAG  
 TCACGCCTCGCTCTANTCGTNACCACACCCCACTCACGTTGTCGTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001375

**Insert Size:**

1790 bp

**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).

**RefSeq:**
[NM\\_001375.2](#), [NP\\_001366.1](#)
**RefSeq Size:**

2011 bp

RefSeq ORF: 1083 bp

Locus ID: 1777

UniProt ID: [O00115](#), [A0A024R7F4](#)

Domains: DNase\_II

Protein Families: Druggable Genome

Protein Pathways: Lysosome

**Gene Summary:** This gene encodes a member of the DNase family. The protein, located in the lysosome, hydrolyzes DNA under acidic conditions and mediates the breakdown of DNA during erythropoiesis and apoptosis. Two codominant alleles have been characterized, DNASE2\*L (low activity) and DNASE2\*H (high activity), that differ at one nucleotide in the promoter region. The DNASE2\*H allele is represented in this record. [provided by RefSeq, Jul 2008]