

## Product datasheet for **SC322699**

### 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:	DNase II
Synonyms:	DNASE2A; DNL; DNL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322699  
 GAAAGGCGCCAGGTGCCAGTCTCTGGCCTCTGATGTAACCCAGCGCCCCGAGTCCCGACA  
 CAGATTCCTGGATCTCAGCCCCATAGCAGCTATGATCCCCTGCTGCTGGCAGCGTCTGCT  
 GTGCGTCCCCCGCGGGGCCCTGACTGCTACGGGGACTCCGGGCAGCCTGTAGACTGGTT  
 CGTGGTCTACAAGCTGCCAGCTCTTAGAGGGTCCGGGGAGGGCGGCAGAGAGGGCTGCA  
 GTACAAGTATCTGGACGAGAGCTCCGGAGGCTGGCGGGACGGCAGGGCACTCATCAACAG  
 CCCGGAGGGGGCCGTGGGCCGAAGCCTGCAGCCGCTGTACCGGAGCAACACCAGCCAGCT  
 CGCCTTCCTGCTCTACAATGACCAACCGCCTCAACCCAGCAAGGCTCAGGACTCTTCCAT  
 GCGTGGGCACACGAAGGGTGTCTGCTCCTTGACCACGATGGGGGCTTCTGGCTGGTCCA  
 CAGTGTACCTAACTTCCCTCCACCGGCCTCCTCTGCTGCATACAGCTGGCCTCATAGCGC  
 CTGTACCTACGGGCAGACCCTGCTCTGTGTGTCTTTCCCTTCGCTCAGTTCTCGAAGAT  
 GGGCAAGCAGCTGACCTACACCTACCCCTGGGTCTATACTACCAGCTGGAAGGGATCTT  
 TGCCAGGAATTCCTCGACTTGGAGAATGTGGTCAAGGGCCACCAGTTAGCCAAGAACC  
 CTGGAACAGCAGCATCACACTCACATCCCAGGCCGGGGTGTTCAGAGCTTTGCCAA  
 GTTCAGCAAATTTGGAGATGACCTGTACTCCGGCTGGTTGGCAGCAGCCCTTGGTACCAA  
 CCTGCAGGTCCAGTTCTGGCACAAAAGTGTAGGCATCCTGCCCTCTAACTGCTCGGATAT  
 CTGGCAGGTTCTGAATGTGAACCAGATAGCTTTCCTGGACCAGCCGGCCCAAGCTTCAA  
 CAGCACAGAGGACCCTCCAAATGGTGCCTGTCCCAAAAAGGGCCCTGGACCTGCGTGGG  
 TGACATGAATCGGAACCAGGGAGAGGAGCAACGGGGTGGGGGCACACTGTGTGCCAGCT  
 GCCAGCCCTCTGGAAAGCCTTCCAGCCGCTGGTGAAGAACTACCAGCCCTGTAATGGCAT  
 GGCCAGGAAGCCCAGCAGAGCTTATAAGATCTAACCTTATGGCCAGGTGCAGTGGCTCA  
 CGTATGTAATCCCAGCACTTTGGGAAGCCAAGGAGGGAGGATCACTTGAAGTCAAGGAT  
 CGAGACCAGCCTGGGCTACATAGTGAGACCACATCTCTACTAGAACTTAAAAAAGTTAG  
 CCAGGCACGGGTGATAAATGCCTGTAGTCCAGCCACTGAAGCCAGAGGATCGATTGAACC  
 AGGGAGATCATGGTCACAGTGAAGTATGATTACGCCAACCTGGGTACATAGCAAGACTC  
 TGTTCAAAAAAGGGGGGGCGGGGACGGGTGGTGCAGTGGCTCACATCTGTAACC  
 CCAGCACTTTGGGAGGCTGAGATGGGCAGATCACTTGGGTCAGGAGTTCGAGACCAGCC  
 TGGCCAACATGGTGAACCCCATATCCATTAATAAATTTAAAAATTAGCCAGACATGGT  
 GGCACGCTGTGTGCTCCTAGCTCCTCGGGAGGCTGAGGCAGGAGAATCGCTTGAAGTCC  
 GGAGGCAGAGGTTGTCATGAGCTGAGCTAACACCAGGCCTTCAGCCTGGGTGACAGAA  
 TGAGACTCTGTGTAATAAATAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001375

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001375.2](#), [NP\\_001366.1](#)

**RefSeq Size:** 2011 bp

**RefSeq ORF:** 1083 bp

**Locus ID:** 1777

**UniProt ID:** [O00115](#)

**Cytogenetics:** 19p13.13

**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]