

## Product datasheet for **SC124096**

### DNase gamma (DNASE1L3) (NM\_004944) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNase gamma (DNASE1L3) (NM_004944) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNase gamma
Synonyms:	DHP2; DNASE1L3; LSD; SLEB16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004944, the custom clone sequence may differ by one or more nucleotides

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ATGTCACGGGAGCTGGCCCCACTGCTGCTTCTCCTCCTCTCCATCCACAGCGCCCTGGCCATGAGGATCT
GCTCCTTCAACGTCAGGTCCTTTGGGAAAGCAAGCAGGAAGACAAGAATGCCATGGATGTCATTGTGAA
GGTCATCAAACGCTGTGACATCATACTCGTGATGGAAATCAAGGACAGCAACAACAGGATCTGCCCCATA
CTGATGGAGAAGCTGAACAGAAATTCAGGAGAGGCATAACGTACAACATGTGATTAGCTCTCGGCTTG
GAAGAAACACATATAAAGAACAATATGCCTTTCTCTACAAGGAAAAGCTGGTGTCTGTGAAGAGGAGTTA
TCACTACCATGACTATCAGGATGGAGACGCAGATGTGTTTTCCAGGGAGCCCTTTGTGGTCTGGTCCAA
TCTCCCCACACTGCTGTCAAAGACTTCGTGATTATCCCCCTGCACACCACCCAGAGACATCCGTTAAGG
AGATCGATGAGTTGGTTGAGGTCTACACGACGTGAAACACCGCTGGAAGGCGGAGAATTCATTTTCAT
GGGTGACTTCAATGCCGGCTGCAGCTACGTCCCAAGAAGGCCTGGAAGAACATCCGCTTGAGGACTGAC
CCCAGGTTTGGTTGGCTGATCGGGGACCAAGAGGACACCACGGTGAAGAAGAGCACCAACTGTGCATATG
ACAGGATTGTGCTTAGAGGACAAGAAATCGTCAGTTCTGTTGTTCCCAAGTCAAACAGTGTTTTTGACTT
CCAGAAAGCTTACAAGCTGACTGAAGAGGAGGCCCTGGATGTCAGCGACCACTTTCCAGTTGAATTTAAA
CTACAGTCTTCAAGGGCCTTCAACACAGCAAAAAATCTGTCACCTAAGGAAGAAAACAAGAGCAAAC
GCTCCTAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004944 unedited TCTATAGTGGGGCCAGACAATCCGGCAGGAGTACTGCTGTCTTCTCACAGAGTCTTG AAGCCAGAGTATCGCCAGGATGTCACGGGAGCTGGCCCCAGGGCTGCTTTTCCTGCTCTC CATCCACAGCGCCTGGCCATGAGGATCTGCTCCTTCAACGTCAGGTCCTTTGGGGAAAG CAAGCAGGAAGACAAGAAATGCCATGGATGTCATTGTGAAGGTCATCAAACGCTGTGACAT CATACTCGTGATGGAAATCAAGGACAGCAACAACAGGATCTGCCCCATACTGATGGAGAA GCTGAACAGAAATCAAGGAGAGGCATAACATACAACACTATGTGATTAGCTCTCGGTTGG AAGAAACACATATAAAGAACAATATGCCTTTCTCTACAAGGAAAAGCTGGTGTCTGTGAA GAGGAGTTACTACTACCATGACTATCAGGATGGAGACGCAGATGTGTTTTCCAGGGAGCC CTTTGTGGTCTGGTTCCAATCTCCCCACACTGCTGTCAAAGACTTCGTGATTATCCCCCT GCACACCACCCAGATACATCCGTTAAGGAGATCGATGAGTTGGTTGAGGTCTACACGGA CGTGAACACCGCTTGAAGGCCGAGAATGTCATTTTCGTGGGTGACTTCCATGCCGGCTG CGGGCTACTTCCAAAAAGGCCCTGAAGAAACATCCCTTAGGACTGACCCCCAGTTTGT TCGGCG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004944 unedited CGGATTGACTAGGAGCGTCACAGGGATGCCCCGGGATCTGTTAAGAAACAGCTATGACC TTGCCGCAATCTAGAGTCGAGTTTTTTTTTTGGGTTTTTATCTGTTAGAGACATTTTATT TAGAGGCAAGAAATGGTTAATAAGATGAGACCCTTGGGTCTAGGAGCGTTTGCTCTTTGT TTTCTTCTTAGAGTGACAGATTTTTTGTGTTGGTGAAGGCCCTTGAAGACTGTAGTTT AAATCAACTGGAAAGTGGTCGCTGACATCCAGGGCCTCCTTTCAGTCAGCTTGAAGC TTTCTGGAAGTCAAAAACACTGTTTACTTGGGAACAACAGAAGTACGATTTCTGTCC TCTAAGCACAATCTGTATATGCACAGTTGGTCTCTTCTTCCCGTGGTGTCTCTTGT GTCCCGATCAGCCAAACAAACCTGGGGTCAGTCTCAAGCGGATGTTCTTCCAGGCCTT CTTGGGGACGTAGCTGCAGCCGGCATTGAAGTACCCATGAAAATGAAATTCTCCGCCTT CCAGCGGTGTTTACGTCGGTGTAGACCTCAACCAACTCATCGATCTCCTTAACGGATGT CTCTGGNGTGGTGTGCAGGGGGATAATCACGAAGTCTTTGACAGCAGTGTGGGGAGATTG GAACCAGACCACAAGGGCTCCCTGGAAAACACATCTGCGTCTCCATCCTGATAGTCA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004944
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_004944.2</a></u> , <u><a href="#">NP_004935.1</a></u>
<b>RefSeq Size:</b>	1463 bp

RefSeq ORF: 918 bp

Locus ID: 1776

UniProt ID: [Q13609](#)

Cytogenetics: 3p14.3

Domains: Exo\_endo\_phos, DNaseIc

Protein Families: Druggable Genome

**Gene Summary:** This gene encodes a member of the deoxyribonuclease I family. The encoded protein hydrolyzes DNA, is not inhibited by actin, and mediates the breakdown of DNA during apoptosis. Mutations in this gene are a cause of systemic lupus erythematosus-16. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).