

Product datasheet for **MC200910**

Dnase1l3 (NM_007870) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnase1l3 (NM_007870) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dnase1l3
Synonyms:	Dhp2; DNasegamma; Lsd
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC012671 sequence for NM_007870
 CCACGCGTCCGATTGAAACGCGTGATGGTGAGTTCCTCAGAGAAGTGAAAGTGACCTAGAGGGATCCAGT
 AATTCCTGTTATCAGCCTGCTTTATAAGTCAGTGAGCCAGGCACTGTCTTCATCCAGCCTGAAGTCCCAG
 GAGTGCAAAGATGTCCCTGCACCCAGCTTCCCCACGCCTGGCCTCCCTGTGCTTTCATCCTTGCCCTC
 CATGACACCCTGGCCCTAAGGCTCTGCTCCTTCAATGTGAGGTCTTTGGAGCGAGCAAGAAGGAAAACC
 ATGAAGCCATGGATATCATTGTGAAGATCATCAAACGCTGTGACCTTATACTGTTGATGGAATCAAGGA
 CAGCAGCAACAACATCTGTCCCATGCTGATGGAGAAGCTGAATGGAAATTCACGAAGAAGCACAATATAC
 AACTATGTGATTAGTTCTCGACTTGGAAGAAACACGTACAAAGAGCAGTATGCCTTCGTCTACAAGGAGA
 AGCTGGTGTCTGTGAAGCAAAAATACCACTACCATGACTATCAGGATGGAGACACAGACGTGTTTTCCAG
 GGAGCCCTTTGTGGTTTGGTTCCATTCCCCCTTACTGCTGTCAAGGACTTCGTGATTGTCCCTTGACAC
 ACAACTCCCAGACCTCCGTTAAAGAGATAGATGAGCTGGTGCATGTCTACACGGATGTGAGAAGCCAGT
 GGAAGACAGAAATTTTCATCTTCATGGGTGATTTCAACGCCGGCTGTAGCTATGTCCCAAGAAGGCCTG
 GCAGAACATTCGTTTGGAGACGGACCCCAAGTTTGTGGCTGATTGGGACCAAGAGGACACTACGGTC
 AAGAAGAGTACCAGCTGTGCCTATGACAGGATTGTGCTTTGTGGACAAGAGATAGTCAACTCCGTGGTTC
 CCCGTTCCAGTGGCGTCTTTGACTTTCAGAAAGCTTATGACTTGTCTGAGGAGGAGCCCTGGATGTCAG
 TGATCACTTTCCAGTTGAGTTTAAAGCTACAGTCTTCAAGGGCCTTACCAACAACAGAAAATCTGTTTCT
 CTCAAAAAGAGAAAAAAGGCAATCGCTCCTAGGTATCACGCTGCCTTTTTTTTTTTTTTTTGGCCACTC
 CTTGCAAATGGCTCTCATAGGTCTAAGCTATCTGCATGCTCAGGAATTAAGACTGGCCAAGCTGCTTTCA
 TTGTCCACTTGAGTTAATTTTGCCTGGAACCAAGCTGGGAGGAGTCTTCTGTTACATCACCTTGATCC
 CCAATATCATCACTGGTACCCTGCGAAACATTGCCACTATTTAGGCAACAGGACAGATTTGGCATGGTAT
 GATACTTTATGATGGAGGCAATGAAACTCAGTTGCCTGGGGTCATGCGTGAAGAAGAGTGAAGGACACT
 TCCACTGTGCTGTCCCTGCCGTCCCTACTCACAGCCCACCCCTACCCACACCTCACTCCTATCCACACCT
 CACTCCTATCCACACCTCACCCCTAGCTACAGCCACCTGTGCTCACAGCGCTGTGCTTAAGCCATCAGC
 ATGTCCTGAGCTCAGTCTTCGGATATATGAAGGTTTTTCATTATCTGACAGCCAGCCTCACTTTGGATGCT
 CCAACAGTGTCTTCCCTCCCTTCTCCCTTCTCCTTCTCCTCCTGTGCCCTCCCTGAAAGGCTCAACCTT
 GCGTGCCTGTCTGTTCTAACTGTCCCCAGTCACATATCCCATGTGCAACACTGACCACACAGTGTCTGT
 CACCACGGCCAGCACTGCAGCTCGCCCCAGCACAAAGCCCCCTGGCTGGCTTGGACCTGAGTGTGTTGCTC
 CCTTCTGCCACTCCTGGAATCTGCAATGTGGCGCCATCTTGCTTGATGCAGGGCACCCGTTTTTGTGC
 ATTTGCTTTGTTTTCCGGATATTCTTACTCTTGACATGAGCACCTGTACTTAGGAACAGTGGAGAA
 CAGTGACCCGTCTGGCCGACTCCAGTCTCAGAAGCAACCCCTCCACACAGCTGTGGGCTCCCCAAGG
 CGTCTGCACACAAGCAAGCACCATGTGTAACCTGAAGAAATACAAGTCTATTACTGTAAAAAAAAA AAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_007870
- Insert Size:** 933 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).
- 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: [BC012671](#), [AAH12671](#)

RefSeq Size: 2110 bp

RefSeq ORF: 933 bp

Locus ID: 13421

UniProt ID: [O55070](#)

Cytogenetics: 14 A1

Gene Summary: Has DNA hydrolytic activity. Is capable of both single- and double-stranded DNA cleavage, producing DNA fragments with 3'-OH ends (By similarity). Can cleave chromatin to nucleosomal units and cleaves nucleosomal and liposome-coated DNA (PubMed:15796714, PubMed:19154352, PubMed:12095301). Acts in internucleosomal DNA fragmentation (INDF) during apoptosis and necrosis. The role in apoptosis includes myogenic and neuronal differentiation, and BCR-mediated clonal deletion of self-reactive B cells (PubMed:12050166, PubMed:15167901, PubMed:17218958, PubMed:24312463). Is active on chromatin in apoptotic cell-derived membrane-coated microparticles and thus suppresses anti-DNA autoimmunity (PubMed:15796714, PubMed:27293190). Together with DNASE1, plays a key role in degrading neutrophil extracellular traps (NETs) (PubMed:29191910). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (PubMed:29191910). Degradation of intravascular NETs by DNASE1 and DNASE1L3 is required to prevent formation of clots that obstruct blood vessels and cause organ damage following inflammation (PubMed:29191910).[UniProtKB/Swiss-Prot Function]