

Product datasheet for MR218433

Dnase2a (NM_010062) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnase2a (NM_010062) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnase2a
Synonyms:	Dnase2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218433 representing NM_010062 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACACTGAGATCGCTGCTGCTGGCTGCGCTGCTGTGGTCCCTGCCGAAGCCCTGAGCTGCTATG
GGGACTCCGGGCAGCCTGTGGATTGGTTCGTGGTATAACAAGTCCCGGCTCACAGCGGTCTAGGGATAC
TCCAAAGGGACTGACGTATAAATACATGGACCAGAAGTCCGACGGTTGGCAAGACGGTGTAGGGTACATC
AACAGCTCGGAGGAGCCGTGGCCGCAGCTTGCAGCCATTGTACCGAAAGAAGTCCAGCCAGCTGGCCT
TTCTACTCTACAACGACCAACCTCCTAAATCCAGCTCAGCTCGGGACTCTACCGCCATGGGCATACGAA
GGGTGTCCTGCTCCTGGACCAAGAAGGGGCTTCTGGCTGGTCCACAGTGTGCCTCGCTCCACCCCT
CGTCCCTCTGGTGCATACACCTGGCCTCCTAATGCTCAAACCTTCGGCCAGACCCTACTCTGTGTGCC
TCCCGTCACTCAGTTTGAAGGATTGGCAAGCAGCTAACCTACACCTATCCCCTGTCTATGACCACAA
GCTGGAAGGCTTCTTCGCTCAGAAATTACCTGACCTAGAGACGGTATCAAGAACCAACATGTCTCCAT
GAGCCCTGGAATAGCAGTGAATACTCACTTCCAAGCTGGGGCCACCTTCCAGAGCTTTGCCAAATTTG
GAAAATTTGGAGATGACCTGTACTCCGGATGGTTGGCAGAAGCCCTTGGCACCAACCTACAGGTCCAGTT
CTGGCAAATTTCCAGGCATCTGCCCTCCAAGTCTCTGGAGCCTATCAGTTCTGGATGTGACACAG
ACAGATTCCCTGGCCATCTAGACTAAGTTCAGTGCCACAGAGGACCCTCCAATGGTGTGTGGCC
CTCAAGGCCCTGGCCTGTGTGGGTGACATGAATAGGAACAAAGCAGAGACACACCGAGGTGGCCGCAC
AGTATGCACCAACTGCCTTCTTTTGAAGGCCTTCCAGTCCCTGGTGAAGACTGAAAACCTGTATA
GAGGGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218433 representing NM_010062
 Red=Cloning site Green=Tags(s)

MATLRSLLLAALLWVPAEALSCYGDGSGQPVDWVYVYKLP AHSGSRDTPKGLTYKYMDQNSDGWQDGVGYI
 NSSEGAVGRSLQPL YRKNSSQLAFLLYNDQPPKSSARDSTGHGHTKGVLLLDQEGGFWL VHSVPRFPPP
 ASSGAYTWPPNAQTFFGQTL LCVSLPFTQFARIGKQLTYTYPLVDHKLEGFFAQKLPDLETVIKNQHVLH
 EPWNSSVILTSQAGATFQSF AKFGKFGDDL YSGWLAELGTLNLVQVFWQNSPGILPSNCSGAYQVLDVTQ
 TGFPGPSRLTFSATEDHSKWCVAPQGPWACVGDMMNRNKAETHRGGGT VCTQLPSFWKAFQSLVKDWKPCI
 EGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010062

ORF Size: 1059 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010062.4](#)

RefSeq Size: 1643 bp

RefSeq ORF: 1062 bp

Locus ID: 13423

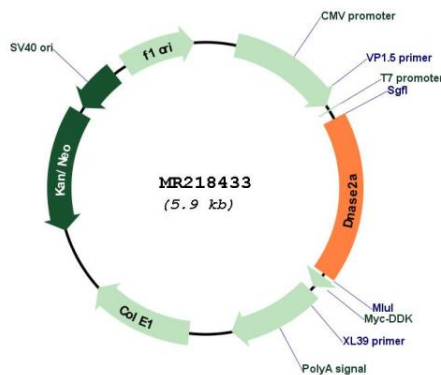
UniProt ID: [P56542](#)

Cytogenetics: 8 41.31 cM

MW: 39.3 kDa

Gene Summary: Hydrolyzes DNA under acidic conditions with a preference for double-stranded DNA. Plays a major role in the degradation of nuclear DNA in cellular apoptosis during development. Necessary for proper fetal development and for definitive erythropoiesis in fetal liver, where it degrades nuclear DNA expelled from erythroid precursor cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218433