

Product datasheet for MR205393

Dnase2b (NM_019957) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnase2b (NM_019957) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnase2b
Synonyms:	A1526873; Dlad; Dnasellb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205393 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACAGCAAAGCCTCTAAGAACAGTTCTTTCTTTGCTCTTCTTTGCCCTCTCTGGGGTCTCTGGGACAC
CAGAAATCTCATGCAGAAATGAATATGGTGAAGCTGTGGACTGGTTTATCTTTTATAAGTTACCCAAAAG
GACTAGCAAGGCAAGTGAAGAGGGCGGGCTGCAGTACCTGTACCTGGACTCCACAAGACAAACCTGGAAC
AAGAGCCTCTACCTGATTAACAGCACCAGGAGTCTCTGGGGAGGACCTACAGCATCTGTATGACACAC
ATAATTCCACGAATGACACAGCCTATCTAATATAACAACGATGGTGTCCCTGGATCTGTGAATTACAGCAG
ACAGTATGGACATGCCAAAGGTCTGCTGGTATGGAACAGAACGCAGGGGTCTGGCTGATACACTCTGTT
CCCAAGTTTCCCCAGTTTCATGGCTATGAGTACCCAACCTCGGGGAGGGGATATGGACAAACCGGCATCT
GCATCACTTTTCGGATACAGCCAGTTTGAGGAAATAGATTTTCAGCTCTTGGTCTTACAACCAAACATCTA
CAGCTGCTTCATTCCAAGCACCTTTCACTGGAACTTATCTACATGCCCCGGATGTGTGCCAACTCCAGT
TCCTTAAAGATCCCTGTCCGGTACCTCGCTGAAGTCACTCAGCCAGGGTCTAAACTTCGTCATTTTGT
CAAAATCAAGTTTTTATACTGATGACATCTTTACAGGATGGATAGCTCAAAAGTTGAAGACACATTTGTT
AGCACAAACCTGGCAGAAAAAGAAACAAGAGCTTCCTTCAAAGTTCCTCGCTTACCATGTCTACAAC
ATCAAGTCCATTGGGGTAACTTCCAAGTCTTACTTCAGTTCTCGCAAGACCATTCCAAATGGTGTGTT
CCATAAAGGGCTCCGCAATCGCTGGACCTGCATTGGAGACCTAAATCGAAGCCTACACCAAGCCTTAAG
AGGTGGAGGATTCATCTGTACAAAGAATCACTACATTTACCAGGCATTTCATAAATTATATCTCCGTTAT
GGGTTCTGTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205393 protein sequence
 Red=Cloning site Green=Tags(s)

MTAKPLR^TTVL^SLLFFALSGVLGTPEISCRNEYGEAVDWFIFYKLPKRTSKASEEAGLQYL^LYLDSTRQ^TTWN
 KSLYLINSTRSALGR^TLQHL^LYDTHNSTNDTAYLIYNDGVP^GSVNYSRQYGHAKGLLVN^RTQGF^LIHSV
 PKFPPVHG^YEYPTSGRRY^GQTGICITFGYSQFEEIDFQL^LVLQPN^IYSCFIPST^FHWKLIYMP^RMCANSS
 SLKIPVRYLAELHSAQGLNFVHFAKSSFY^TDDIFTGWIAQ^LKLKTHLLAQTWQ^KKKQELPSN^CSLPYHVY^N
 IKSIGVTSKSYFSSRQDHSKWCVSIKGSANRWTCIGDLN^RSLHQALRGGGFICTKNHYIYQAFH^LKLYLRY
 GFCK

TRTRPLE^QKLISEEDLAANDILDYKDDDDK^V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019957

ORF Size: 1065 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_019957.4](#)

RefSeq Size: 2332 bp

RefSeq ORF: 1065 bp

Locus ID: 56629

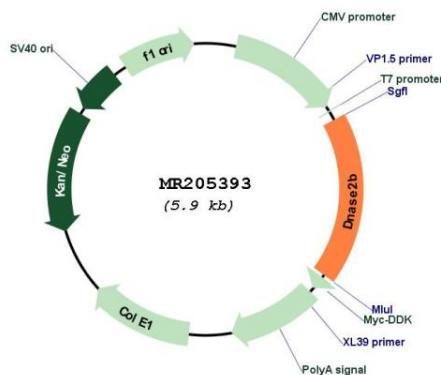
UniProt ID: [Q9QY48](#)

Cytogenetics: 3 H2

MW: 40.8 kDa

Gene Summary: Hydrolyzes DNA under acidic conditions. Does not require divalent cations for activity. Participates in the degradation of nuclear DNA during lens cell differentiation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205393