

Product datasheet for RC214291

DNASE2B (NM_058248) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DNASE2B (NM_058248) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DNASE2B
Synonyms: DLAD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC214291 representing NM_058248
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCAGCTGTGCACCAGGGCCAGCTCATCAGAGATTCCTGGCAGGCTCCTCACCACACTTCAGTCGG
CCCAGGGACAAAAATTCCTCCATTTTGCAAAGTCGGATCTTTTCTTGACGACATCTTTCAGCCTGGAT
GGCTCAACGGCTGAAGACACACTTGTAAACAGAACTGGCAGCGAAAAAGACAAGAGCTTCCTTCAAAC
TGCTCCCTTCCTTACCATGTCTACAATATAAAAGCAATTAATATCACGACACTTTATTTTCAGTTCTT
ATCAAGATCATGCCAAGTGGTGTATTTCCAAAAGGGCACAAAAATCGCTGGACATGTATTGGAGACCT
AAATCGGAGTCCACCAAGCCTTCAGAAGTGGAGGATTCATTTGTACCCAGAATTGGCAAATTTACCAA
GCATTTCAAGGATTAGTATTATACTATGAAAGCTGTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214291 representing NM_058248
Red=Cloning site Green=Tags(s)

MPQLCTRASSSEIPGRLLTTLQSAQGQKFLHFAKSDSFLDDIFAAWMAQRLKTHLLTETWQRKRQELPSN
CSLPYHVYNIKAIKLSRHSYFSSYQDHAKWCISQKGTKNRWTICIGDLNRSPhQAFRSGGFICTQNWQIYQ
AFQGLVLYESCK

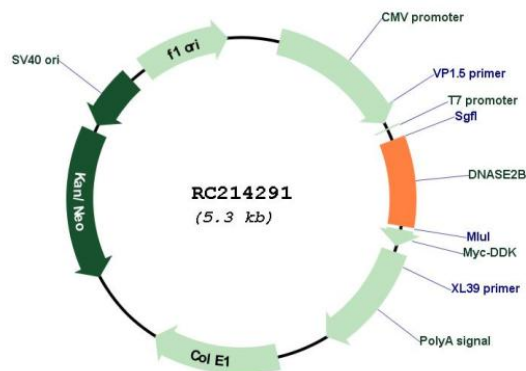
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_058248

ORF Size: 459 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:	<ol style="list-style-type: none">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:	<u>NM_058248.1, NP_490649.1</u>
RefSeq Size:	1029 bp
RefSeq ORF:	462 bp
Locus ID:	58511
UniProt ID:	<u>Q8WZ79</u>
Cytogenetics:	1p31.1-p22.3
Protein Families:	Transmembrane
Protein Pathways:	Lysosome
MW:	17.8 kDa
Gene Summary:	The protein encoded by this gene shares considerable sequence similarity to, and is structurally related to DNase II. The latter is a well characterized endonuclease that catalyzes DNA hydrolysis in the absence of divalent cations at acidic pH. Unlike DNase II which is ubiquitously expressed, expression of this gene product is restricted to the salivary gland and lungs. The gene has been localized to chromosome 1p22.3 adjacent (and in opposite orientation) to the uricase pseudogene. Two transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]