

Product datasheet for **RG212192**

DNASE2B (NM_021233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNASE2B (NM_021233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNASE2B
Synonyms:	DLAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212192 representing NM_021233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATGGCAAGACTGCTAAGAACATCCTTTGCTTTGCTCTTCCTTGGCCTCTTTGGGGTCTGGGGCAG
 CAACAATTTATGCAGAAATGAAGAAGGAAAGCTGTGGACTGGTTACTTTTATAAGTTACCTAAAAA
 ACAAACAAGGAAAGTGGAGAGACTGGGTAGAGTACCTGTACCTAGACTCTACAAGCTGAGGAGG
 AAGAGTGAGCAACTAATGAATGACACCAAGAGTGTGGGAAGGACATTACAACAGCTATATGAAGCAT
 ATGCCTCTAAGAGTAACAACACAGCCTATCTAATATACAATGATGGAGTCCCTAAACCTGTGAATTACAG
 CAGAAAGTATGGACACACCAAGGTTTACTGCTGTGGAACAGAGTTCAAGGGTTCTGGCTGATTCAATTC
 ATCCCTCAGTTTCTCCAATTCCGGAAGAAGGCTATGATTATCCACCCACAGGGAGACGAAATGGACAAA
 GTGGCATCTGCATAACTTTCAAGTACAACCAAGTATGAGGCAATAGATTCTCAGCTCTTGGTCTGCAACCC
 CAACGTCTATAGCTGCTCCATCCAGCCACCTTACCAGGAGCTCATTACATGCCCGAGCTGTGCACC
 AGGGCCAGCTCATCAGAGATTCTTGGCAGGCTCCTCACCACACTTCAGTCGGCCAGGGACAAAAATTCC
 TCCATTTTGCAAAGTCGGATTCTTTCTTGACGACATCTTGCAGCCTGGATGGCTCAACGGCTGAAGAC
 ACACCTGTAAACAGAAACCTGGCAGCGAAAAAGACAAGAGCTTCCTTCAAACCTGCTCCCTTCCTTACCAT
 GTCTACAATATAAAAGCAATTAATTATCAGCAGACTCTTATTTCAAGTTCTTATCAAGATCACGCCAAGT
 GGTGTATTTCCCAAAAGGCGACCAAAATCGCTGGACATGTATTGGAGACCTAAATCGGAGTCCACACCA
 AGCCTTCAGAAGTGGAGGATTCTTTGTACCCAGAATTGGCAAATTTACCAAGCATTTCAAGGATTAGTA
 TTATACTATGAAAGCTGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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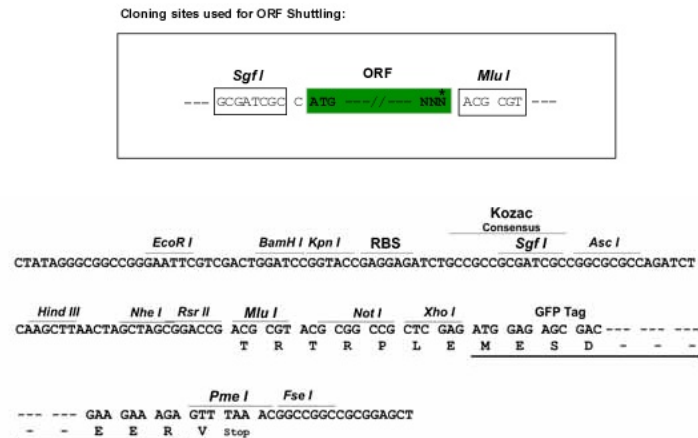
Protein Sequence: >RG212192 representing NM_021233
 Red=Cloning site Green=Tags(s)

MMARLLRTSFALLFLGLFGVLGAATISCRNEEGKAVDWFTFYKLPKKQNKESGETGLELYLDSTTRSWR
 KSEQLMNDTKSVLGRTLQQLYEAYASKSNNTAYLIYNDGVKPKVNYSRKYGHTKGLLLWNRVQGFLLIHS
 IPQFPPIPEEGYDYPPTGRRNGQSGICITFKYNQYEAIDSQLLVCNPNVYSCSIPATFHQELIHMPQLCT
 RASSEIPGRLLTTLQSAQGQKFLHFAKSDSFLDDIFAAWMAQRLKTHLLTETWQRKRQELPSNCSLPYH
 VYNIKAIKLSRHSYFSSYQDHAKWCISQKGTNRWTCIGDLNRSPHQAFRSGGFICTQNWQIYQAFQGLV
 LYESCK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021233

ORF Size: 1071 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021233.2](#), [NP_067056.2](#)

RefSeq Size: 1279 bp

RefSeq ORF: 1086 bp

Locus ID: 58511

UniProt ID: [Q8WZ79](#)

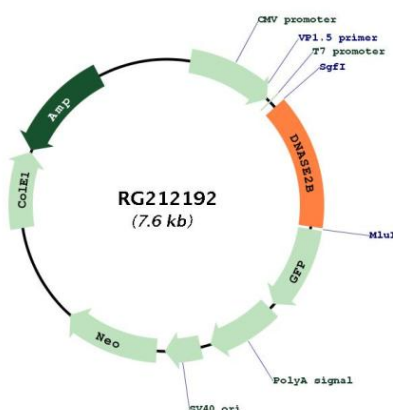
Cytogenetics: 1p31.1-p22.3

Protein Families: Transmembrane

Protein Pathways: Lysosome

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]

Product images:



Circular map for RG212192