

Product datasheet for **SC305776**

DNASE2B (NM_058248) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DNASE2B (NM_058248) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DNASE2B |
| Synonyms: | DLAD |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_058248, the custom clone sequence may differ by one or more nucleotides ATGCCCCAGCTGTGCACCAGGGCCAGCTCATCAGAGATTCCTGGCAGGCTCCTCACCACA CTTCAGTCGGCCAGGGACAAAAATTCCTCCATTTTGCAAAGTCGGATTCTTTTCTTGAC GACATCTTTGCAGCCTGGATGGCTCAACGGCTGAAGACACACTTGTTAACAGAAACCTGG CAGCGAAAAAGACAAGAGCTTCTTCAAACCTGCTCCCTTCCCTTACCATGTCTACAATATA AAAGCAATTAATTATCACGACACTCTTATTTTCAGTTCTTATCAAGATCATGCCAAGTGG TGTATTTCCAAAAGGGCACAAAAATCGCTGGACATGTATTGGAGACCTAAATCGGAGT CCACACCAAGCCTCAGAAGTGGAGGATTCATTTGTACCCAGAATTGGCAAATTTACCAA GCATTTCAAGGATTAGTATTATACTATGAAAGCTGTAAGTAA |
| Restriction Sites: | Please inquire |
| ACCN: | NM_058248 |
| 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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). |



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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_058248.1](#), [NP_490649.1](#)

RefSeq Size: 1029 bp

RefSeq ORF: 462 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]
Transcript Variant: This variant (2) lacks the first two exons present in transcript variant 1. However, it maintains the same reading frame and encodes an isoform (2) which is truncated at the N-terminus compared to isoform 1. Isoform 2 is specifically expressed in the lungs.