

Product datasheet for **SC325676**

RNASEH2B (NM_001142279) Human Untagged Clone

Product data:

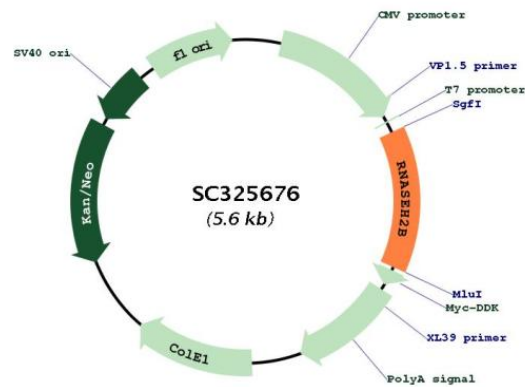
| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | RNASEH2B (NM_001142279) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RNASEH2B |
| Synonyms: | AGS2; DLEU8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC325676 representing NM_001142279. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCTGGCGTGGACTGCGGGGACGGGGTTGGCGCCCGCAGCACGTGTTCTGTTTCAGAAATAT
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GAAGGAGCCATTTACTTGTTCATATGTGTCTACAGCAGCTGTTTGAAGTAAAAGTTTTCAAGGAAAAA
CACCATTCTTGGTTTATAAATCAATCAGTTCATCAGGAGGCTTCTCCATTTTCCACACCTGTGGAT
CCTCTATTTCTGCTTCTCCACTACCTCATAAAGGCTGATAAGGAGGGGAAGTTTCAGCCCTTGATCAA
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AAGACATTAAGTGGCTGAAAAAAGGTTAATCAAAGTGTGGCAGCATTAAAAACCAATAATGTGAAT
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AAAAGGGCAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001142279

Insert Size: 774 bp

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).

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_001142279.2](#)

RefSeq Size: 1685 bp

RefSeq ORF: 774 bp

Locus ID: 79621

UniProt ID: [Q5TBB1](#)

Cytogenetics: 13q14.3

Protein Pathways: DNA replication

MW: 29 kDa

Gene Summary: RNase H2 is composed of a single catalytic subunit (A) and two non-catalytic subunits (B and C) and specifically degrades the RNA of RNA:DNA hybrids. The protein encoded by this gene is the non-catalytic B subunit of RNase H2, which is thought to play a role in DNA replication. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in this gene are a cause of Aicardi-Goutieres syndrome type 2 (AGS2). [provided by RefSeq, Nov 2008]
Transcript Variant: This variant (2) uses an alternate splice pattern in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct C-terminus, compared to isoform 1.