

RNASEH2A cDNA

Catalog Number: ATGD0491

PRODUCT INFORMATION

Catalog number

ATGD0491

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006388.2

Alternative Names

AGS4, JUNB, RNASEHI, RNHIA, RNHL

mRNA Refseq

NM_006397.2

OMIM

606034

Chromosome location

19p13.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

900bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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RNASEH2A is a component of the heterotrimeric type II ribonuclease H enzyme (RNaseH2). RNaseH2 is the major source of ribonuclease H activity in mammalian cells and endonucleolytically cleaves ribonucleotides. It is predicted to remove Okazaki fragment RNA primers during lagging strand DNA synthesis and to excise single ribonucleotides from DNA-DNA duplexes. Mutations in this gene cause Aicardi-Goutieres Syndrome (AGS), an autosomal recessive neurological disorder characterized by progressive microcephaly and psychomotor retardation, intracranial calcifications, elevated levels of interferon-alpha and white blood cells in the cerebrospinal fluid.

DATA

Sequence nucleotides

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ATGGATCTCAGCGAGCTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCGCGGTGTGCCGCAAGGA
GCCTTGCGTCTGGGCGTTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCC
TGCCTCGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAAATGGAGGACACGGACTTTGTCGGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATGCTTGGG
CGGGTCAAATACAACCTGAACTCCCTGTCACATGATACAGCCACTGGGCTTATACAGTATGCATTGGACCAGGGCGTGAAC
GTCACCCAGGTATTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCGGCTGCAGCAAAGTTTTCCCGGGATTGA
GGTGACGGTCAAGGCCAAAGCAGATGCCCTTACCCGGTGGTTAGTGCTGCCAGCATCTGTGCCAAGGTGGCCCGGGACC
AGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGATTATGGCTCAGGCTACCCCAATGATCCCA
AGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTCCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCC
CAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAGGACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGAT
CACATCCTACTTCTCAATGAAGGGTCCCAAGCCCGTCCCCGTTCTCCACCGATATTTCTGGAACGCGGCCTGGAGTCA
GCAACCAGCCTCTAG
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Transaction Sequence

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MDLSELERDN TGRCLSSPV PAVCRKEPCV LGVDEAGRGP VLGPMVYAIC YCPLPRLADLEALKVADSKT LLESERERLF
AKMEDTDFVG WALDVLSPNL ISTSMLGRVK YLNLSLHDTATGLIQYALD QGVNVTQVFV DTVGMPETYQ ARLQQSFGI
EVTVKAKADA LYPVVSAAASICAKVARDQAV KKWQFVEKLQ DLDTDYGSY PNDPKTKAWL KEHVEPVFGF
PQFVRFSWRTAQ TILEKEAE DVIWEDSASE NQEGLRKITS YFLNEGSQAR PRSSHRYFLE RGLSATSL
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