RNASEH2A cDNA Clone – Ribonuclease H2, Subunit A (Human)

PRODUCT OVERVIEW

Product Name	RNASEH2A, cDNA Clone
Full Product Name	RNASEH2A cDNA Clone
Product Gene Name	RNASEH2A cdna clone
Sequence	atggatctca gcgagctgga gagagacaat acaggccgct gtcgcctgag ttcgcctgtg cccgcggtgt gccgcaagga gccttgcgtc ctgggcgtcg atgaggcggg caggggcccc gtgctgggcc ccatggtcta cgccatctgt tattgtcccc tgcctcgcct ggcagatctg gaggcgctga aagtggcaga ctcaaagacc ctattggaga gcgagcggga aaggctgttt gcgaaaatgg aggacacgga ctttgtcggc tgggcgctgg atgtgctgtc tccaaacctc atctctacca gcatgcttgg gcgggtcaaa tacaacctga actccctgtc acatgataca gccactgggc ttatacagta tgcattggac cagggcgtga acgtcaccca ggtattcgtg gacaccgtag ggatgccaga gacataccag gcgcggctgc agcaaagttt tcccgggatt gaggtgacgg tcaaggccaa agcagatgcc ctctacccgg tggttagtgc tgccagcatc tgtgccaagg tggcccggga ccaggccgtg aagaaatggc agttcgtgga gaaactgcag gacttggata ctgattatgg ctcaggctac cccaatgatc ccaagacaaa agcgtggttg aaggagcacg tggagcctgt gttcggcttc ccccagtttg tccggttcag ctggcgcacg gcccagacca tcctggagaa agaggcggaa gatgttatat gggaggactc agcatccgag aatcaggagg gactcaggaa gatcacatcc tacttcctca atgaagggtc ccaagcccgt ccccgttctt cccaccgata tttcctggaa cgcggcctgg agtcagcaac cagcctctag
Molecular Weight	33,395 Da
OMIM	606034
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNASEH2A cdna clone	MBS1272173 is a cDNA clone targeting RNASEH2A.
Other Notes	Small volumes of RNASEH2A cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNASEH2A. It may not necessarily be applicable to this product.

NCBI GI #	33873385
NCBI GeneID	10535
NCBI Accession #	BC011748
UniProt Secondary Accession #	Q96F11; B2RCY1
UniProt Related Accession #	O75792
NCBI Official Full Name	Homo sapiens ribonuclease H2, subunit A, mRNA
NCBI Official Synonym Full Names	ribonuclease H2 subunit A
NCBI Official Symbol	RNASEH2A
NCBI Official Synonym Symbols	AGS4; JUNB; RNHL; RNHIA; RNASEHI
UniProt Protein Name	Ribonuclease H2 subunit A
UniProt Synonym Protein Names	Aicardi-Goutieres syndrome 4 protein; AGS4; RNase H(35); Ribonuclease HI large subunit; RNase HI large subunit; Ribonuclease HI subunit A

Protein Family	Ribonuclease
UniProt Gene Name	RNASEH2A
UniProt Synonym Gene Names	RNASEHI; RNHIA; RNase H2 subunit A; AGS4; RNase HI large subunit
UniProt Entry Name	RNH2A_HUMAN
NCBI Protein Information	ribonuclease H2 subunit A
NCBI Summary for RNASEH2A	The protein encoded by this gene 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), a 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.[provided by RefSeq, Aug 2009]
UniProt Comments for RNASEH2A	RNASEH2A: Catalytic subunit of RNase HII, an endonuclease that specifically degrades the RNA of RNA:DNA hybrids. Participates in DNA replication, possibly by mediating the removal of lagging- strand Okazaki fragment RNA primers during DNA replication. Mediates the excision of single ribonucleotides from DNA:RNA duplexes. Defects in RNASEH2A are the cause of Aicardi-Goutieres syndrome type 4 (AGS4). A form of Aicardi-Goutieres syndrome, a genetically heterogeneous disease characterized by cerebral atrophy, leukoencephalopathy, intracranial calcifications, chronic cerebrospinal fluid (CSF) lymphocytosis, increased CSF alpha-interferon, and negative serologic investigations for common prenatal infection. Clinical features as thrombocytopenia, hepatosplenomegaly and elevated hepatic transaminases along with intermittent fever may erroneously suggest an infective process. Severe neurological dysfunctions manifest in infancy as progressive microcephaly, spasticity, dystonic posturing and profound psychomotor retardation. Death often occurs in early childhood. Belongs to the RNase HII family. Eukaryotic subfamily. Protein type: DNA replication; EC 3.1.26.4; Ribonuclease Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: cytoplasm; nucleoplasm Molecular Function: ribonuclease activity; ribonuclease H activity Biological Process: DNA replication; DNA replication, removal of RNA primer; mismatch repair; RNA catabolic process Disease: Aicardi-goutieres Syndrome 4
Research Articles on RNASEH2A	**1.** RNase H2 complex is assembled in the cytosol and imported into the nucleus in an RNase H2B-dependent manner.
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