

OriGene Technologies, Inc.

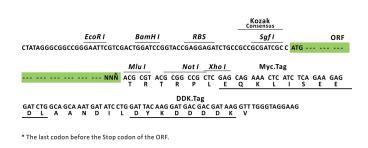
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Product datasheet for RC204032L3

Ribonuclease H2, subunit A (RNASEH2A) (NM_006397) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease H2, subunit A (RNASEH2A) (NM_006397) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Ribonuclease H2, subunit A
Synonyms:	AGS4; JUNB; RNASEHI; RNHIA; RNHL; THSD8
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204032).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling: Sgf I ORF Mlu I GCG ATC GC ATG // NNÑ ACG CGT



ACCN: ORF Size: NM_006397 897 bp



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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery. 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 006397.2</u>
RefSeq Size:	1148 bp
RefSeq ORF:	900 bp
Locus ID:	10535
UniProt ID:	<u>075792</u>
Cytogenetics:	19p13.13
Domains:	RNase_HII
Protein Pathways:	DNA replication
MW:	33.4 kDa

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Gene Summary: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]

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