

#### OriGene Technologies, Inc.

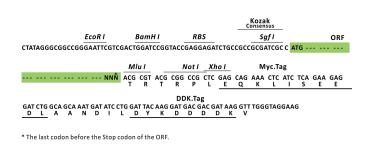
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## Product datasheet for RC204032L3

### 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<br>Selection: | Puromycin  |
| Vector:                      | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| E. coli Selection:           | Chloramphenicol (34 ug/mL)   |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(RC204032).   |
| <b>Restriction Sites:</b>    | 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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# Ribonuclease H2, subunit A (RNASEH2A) (NM\_006397) Human Tagged Lenti ORF Clone – RC204032L3

| OTI Disclaimer:        | Due to the inherent nature of this plasmid, standard methods to replicate additional amounts<br>of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore,<br>OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts<br>of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a<br>reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by<br>calling 301.340.3188 option 3 for pricing and delivery.<br>The molecular sequence of this clone aligns with the gene accession number as a point of<br>reference only. However, individual transcript sequences of the same gene can differ through<br>naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This<br>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: | <ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| 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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| Ribonuclease H2, subunit A (RNASEH2A) (NM_006397) Human Tagged Lenti ORF Clone –<br>RC204032L3 |
|--|
|  |

Gene Summary:The protein encoded by this gene is a component of the heterotrimeric type II ribonuclease H<br/>enzyme (RNAseH2). RNAseH2 is the major source of ribonuclease H activity in mammalian<br/>cells and endonucleolytically cleaves ribonucleotides. It is predicted to remove Okazaki<br/>fragment RNA primers during lagging strand DNA synthesis and to excise single<br/>ribonucleotides from DNA-DNA duplexes. Mutations in this gene cause Aicardi-Goutieres<br/>Syndrome (AGS), a an autosomal recessive neurological disorder characterized by progressive<br/>microcephaly and psychomotor retardation, intracranial calcifications, elevated levels of<br/>interferon-alpha and white blood cells in the cerebrospinal fluid.[provided by RefSeq, Aug<br/>2009]

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