

Product datasheet for **SC308149**

Ribonuclease Inhibitor (RNH1) (NM_203387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_203387) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ribonuclease Inhibitor
Synonyms:	RAI; RNH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308149 representing NM_203387.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTC
CTCCCTCTGCTCCAGCAGTGCCAAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAG
GACATCAGCTCTGCACTTCGAGTCAACCCCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGC
GATGTCGGCGTGCATTGCGTGCTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTC
CAGAACTGCTGCTGACGGGGGCGCGTGCAGGCTCCTGTCCAGCACACTACGCACCCTGCCACCCTG
CAGGAGCTGCACCTCAGCGACAACCTCTTGGGGGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTG
GACCCCACTGCGCCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAGCCC
CTGGCCTCCGTGCTCAGGGCCAAGCCGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAG
GCTGGCGTCCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCTGCCAGCTGGAGGCGCTCAAGCTGGAG
AGCTGCGGTGTGACATCAGACAACCTGCCGGACCTGTGCGGCATTGTGGCCTCCAAGGCCTCGCTGCGG
GAGCTGGCCCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCAGGGCTGCTCCAC
CCCAGCTCCAGGCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTG
TGCCGTGTCTCAGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGCAACGAGCTGGGGGATGAG
GGTGCCCGACTGCTGTGTGAGACCCTGTGGAACCTGGCTGCCAGCTGGAGTCTGTGGGTGAAGTCC
TGCAGCTTACAGCCGCTGCTGCTCCCACTTCAAGTCTAGTGTGGCCAGAACAGGTTTCTCTGGAG
CTACAGATAAGCAACAACAGGCTGGAGGATGCGGGCGTGGGGAGCTGTGCCAGGGCCTGGGCCAGCCT
GGCTCTGTGCTGCGGGTGTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCCTCGCC
GCAACCCTGTTGGCCAACACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCCCTGGGGGACGCCGCG
ATCCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATT
TACTGGTCTGAGGAGATGGAGGACCGGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATC
TCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_203387

Insert Size: 1386 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_203387.2](#)

RefSeq Size: 2015 bp

RefSeq ORF: 1386 bp

Locus ID: 6050

UniProt ID: [P13489](#)

Cytogenetics: 11p15.5

MW: 50 kDa

Gene Summary: Placental ribonuclease inhibitor (PRI) is a member of a family of proteinaceous cytoplasmic RNase inhibitors that occur in many tissues and bind to both intracellular and extracellular RNases (summarized by Lee et al., 1988 [PubMed 3219362]). In addition to control of intracellular RNases, the inhibitor may have a role in the regulation of angiogenin (MIM 105850). Ribonuclease inhibitor, of 50,000 Da, binds to ribonucleases and holds them in a latent form. Since neutral and alkaline ribonucleases probably play a critical role in the turnover of RNA in eukaryotic cells, RNH may be essential for control of mRNA turnover; the interaction of eukaryotic cells with ribonuclease may be reversible in vivo.[supplied by OMIM, Jul 2010]

Transcript Variant: This variant (6) contains a different exon in its 5' UTR, compared to variant 1. All eight variants of this gene encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.