

Product datasheet for **SC323997**

Ribonuclease Inhibitor (RNH1) (NM_002939) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_002939) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ribonuclease Inhibitor
Synonyms:	RAI; RNH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002939.3
 CCTCACGTGGCCGTCAAGCCCTCTAGTGCCTTAGATTCCAGCGAGCTACGCAAGCAATCC
 TGGCCAGCCGAGCTTGCTTCCCAATCCCGTAATCCTTGACCTTATCCCCCAAGAA
 GCGGCCTCCCGGAAGGAGCGCCTGGCGGAGAAGACTCGAACGGCTCCACAGCCGGGC
 GTTGGGGAAAGGCATGAAGAACTTTGACTGACAGAAACGGAGGGTGTGTCCAAAGTTT
 TGAGGACGGCCGAGCGCGCTCCAAAACCGTCCTCACAGCCTCGCCCCGTTGCGCTCAG
 CTACAACAAATCATCGTCAACCTGTTCCACCTTCTCCAGTCTGGTAGCAAAAAGGGGTGT
 CTCAGAATCTCCGCGCTGTGAAACTGTGAGGGGATTTCGGCCAAGACGTCCTCTTCCCTCT
 GCCTCCCACCCAGGCCACTCTTACCTCCACCATGAGCCTGGACATCCAGAGCCTGGACA
 TCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCTCTGCTCCAGCAGT
 GCCAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGACATCAGCT
 CTGCACTTCGAGTCAACCCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCG
 ATGTGCGCGTGCATTGCGTGCTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGC
 TGAGCCTCCAGAACTGCTGCCTGACGGGGGCCGGCTGCGGGGTCTGTCCAGCACACTAC
 GCACCCTGCCACCTGCAGGAGCTGCACCTCAGCGACAACCTCTGGGGGATGCGGGCC
 TGAGCTGCTCTGCGAAGGACTCCTGGACCCCCAGTGCCGCTGGAAGGCTGCAGCTGG
 AGTATTGACGCTCTCGGCTGCCAGCTGCGAGCCCTGGCCTCCGTGCTCAGGGCCAAGC
 CGGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGCGTCCGTGTGC
 TGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAGCTGGAGAGCTGCG
 GTGTGACATCAGACAACCTGCCGGGACCTGTGCGGCATTGTGGCCTCCAAGGCCTCGCTGC
 GGGAGCTGGCCCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCAG
 GGCTGCTCCACCCAGCTCCAGGCTCAGGACCTGTGGATCTGGGAGTGTGGCATCACTG
 CCAAGGGCTGCGGGGATCTGTGCCGTGCTCTCAGGGCCAAGGAGAGCCTGAAGGAGCTCA
 GCCTGGCCGGCAACGAGCTGGGGGATGAGGGTGCCGACTGCTGTGTGAGACCCCTGTGG
 AACCTGGCTGCCAGCTGGAGTGCCTGTGGGTGAAGTCTGCAGCTTACAGCCGCTGCT
 GCTCCCACTTCAGCTCAGTGCTGGCCAGAACAGGTTTCTCCTGGAGCTACAGATAAGCA
 ACAACAGGCTGGAGGATGCGGGCGTGCGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCT
 CTGTGCTGCGGGTGTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCC
 TCGCCGCAACCTGTTGGCCAACACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCC
 TGGGGGACGCCGCATCCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGTGCCTCCTGG
 AGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGGAGGACCGGCTGCAGGCCC
 TGGAGAAGGACAAGCCATCCCTGAGGGTATCTCCTGAGGCTCTTCTGTGCTGCTCTC
 CCTGGACGACCGCCTCGAGGCAACCTGGGGCCACCAGCCCCCTGCCATGCTCTCACCC
 TGCATATCCTAGGTTTGAAGAGAAACGCTCAGATCCGCTTATTTCTGCCAGTATATTTTG
 GACACTTTATAATCATTAAGCACTTTCTTGGCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_002939

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:	<ol style="list-style-type: none"> 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:	<u>NM_002939.3, NP_002930.2</u>
RefSeq Size:	2057 bp
RefSeq ORF:	1386 bp
Locus ID:	6050
UniProt ID:	<u>P13489</u>
Cytogenetics:	11p15.5
Domains:	LRR, LRR_RI
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. All eight variants of this gene encode the same protein.</p>