

Product datasheet for **SC118285**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118285 sequence for NM_002939 edited (data generated by NextGen Sequencing)

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ATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGG
GCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGCTGGACGACTGTGGCCTC
ACGGAAGCACGGTGCAAGGACATCAGCTCTGCACTTCGAGTCAACCCTGCACTGGCAGAG
CTCAACCTGCGCAGCAACGAGCTGGGCGATGTCGGCGTGCAATTGCGTGCTCCAGGGCCTG
CAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGAAGCTGCTGCCTGACGGGGGCC
GGCTGCGGGGTCCTGTCCAGCACACTACGCACCCTGCCACCCTGCAGGAGCTGCACCTC
AGCGACAACCTCTTGGGGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTGGACCCC
CAGTGCCGCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAG
CCCCTGGCTCCGTGCTCAGGGCCAAGCCGACTTCAAGGAGCTCACGGTTAGCAACAAC
GACATCAATGAGGCTGGCGTCCGTGTGCTATGCCAGGGCCTGAAGGACTCCCCCTGCCAG
CTGGAGGCGCTCAAGCTGGAGAGCTGCGGTGTGACATCAGACAAGTCCCGGACCTGTGC
GGCATTGTGGCCTCCAAGCCTCGCTGCGGGAGCTGGCCCTGGGAGCAACAAGTGGGT
GATGTGGGCATGGCGGAGCTGTGCCAGGCTGCTCCACCCAGCTCCAGGCTCAGGACC
CTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCTC
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGGCAACGAGCTGGGGGATGAGGGT
GCCCGACTGCTGTGTGAGACCCTGCTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGGTG
AAGTCTCGCAGCTTACAGCCGCTGCTGCTCCCACTTACAGTCAAGTGTGGCCAGAAC
AGGTTTCTCCTGGAGCTACAGATAAGCAACAACAGGCTGGAGGATGCGGGCGTGGGGAG
CTGTGCCAGGGCCTGGCCAGCCTGGCTCTGTGCTGCGGGTGCTCTGGTTGGCCGACTGC
GATGTGAGTGACAGCAGCTGCAGCAGCTCGCCGCAACCCTGTTGGCCAACCACAGCCTG
CGTGAGCTGGACCTCAGCAACAAGTCCCTGGGGGACCGGGCATCCTGCAGCTGGTGGAG
AGCGTCCGGCAGCCGGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCT
GAGGAGATGGAGGACCGGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATC
TCCTGA
    
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Clone variation with respect to NM_002939.3
 570 g=>a;1239 c=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002939 unedited

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GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGTAGATTCCAGCGAGCTA
CGCAAGCAATCCTGGCCAGCCGAGCTTGTTCCCCAAATCCCCTAATCCTTGACCTTAT
TCCCCAAAGAAGCGGCTCCCGGGAAGGAGCGCCCTGGCGGAGAAGACTCGAACGGCTC
CCACAGCCGGGCGTTGGGGGAAAGGCCACTTTCACCTCCACCATGAGCCTGGACATCCA
GAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCT
GCTCCAGCAGTGCCAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAA
GGACATCAGCTCTGCACTTCGAGTCAACCCTGCACTGGCAGAGCTCAACCTGCGCAGCAA
CGAGCTGGGCGATGTCGGCGTGCAATTGCGTGCTCCAGGGCCTGCAGACCCCTCCTGCAA
GATCCAGAAGCTGAGCCTCCAGAAGTGTGCTGACGNGGCCGGCTGCGGNGTCTGTGTC
CAGCACACTACGCACCCTGCCACCCTGCAGGAGCTGCACCTCAGCGACAACCTTTGGG
GGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTGGACCCCAAGTCCCGCCTGGAAAA
GCTGCAGCTGGAGTATTGCAGCCTCTNCGCTGCCAGCTGCGAGCCCCCTGCCTNCGTGT
CAGGNCCAAGCCGNACTTNCAGGAGCTCACGGNNTAGCACAACGACATCAATGAGGCTGG
CGTCCGTGTGCTATGCCAGGGCCTGAAGACTCCCCTGCCAGCTGNAGCGCTCAAGCT
GAAGCTGNCGTGTGACATCANACACTGCCGGGACCTGTGCGGCATTGTGCCTCCAGGCT
CCTGCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002939 unedited GCGGCCGCAATCTAGAGTCGAGTTCTGC CAAAAAAGGGCTTTAATGATTATAAAGGGTCCAAAATTACTGGCAAAAATAAGCGGATCT GAGCGTTTCTCTCAAACCTAGGATATGCAGGGTGAAAGCATGGCAGGGGCTGGGGGGCC CCAGGGTTGCCTCGAGGCCGGTCGTCCAGGAAAGCATCACCAGGAAAAGCCTCAGGAAA TGACCCCTCAGGGATGGCTTGCTTCTCCAGGGCTGCAGCCGGTCTCCATCTCCTAAA ACCAGTAAATGTCGTACAGGACCAGCTGCTCCAGGAGGCAGCCCGTTGCCGGACGCTCT CCACCAGCTGCAGGATGCCCGCTCCCCAGGCAGTTGTTGCTGAGGTCCAGCTCACGCA GGCTGTGGTTGGCCAACAGGGTTGCGGGCAGGCTGCTGCAACTGCTGCACTCACATCGC AGTCGGCCAACCAGAGCACCCGCAGCACAAAGCCAGGCTGGCCAGGCCCTGGCACAGCT CCCGCACGCCGAATCCTCCAGCCTGTTGTTGCTTATCTGTAGCTCCAGGAGAAACCTGT TTTGGGCCACCACTGACCTGAATTGGGAACACCAGGCGTTGGGAATCTGCAAGACTTCA CCCACAGACTCCACCTGGCAGCCAGTTCCATAAGGGTCTACACAAGAACTCGGGCCA CCCTCATCCCACATCTTCGTGGCCGGCCGGGCTGACCTCCTTAAGTTTTCTTGGCCCT GAGGACACGGAACATAATCCCTGAATCCTTGCCAATGTTCCCCCTTCCCAAACCCACGG GTCTAGACCTGGAACCGGGTGAACAACCCTTGAAAACATCCGCCATGCCACATTAT ACAATTCTGTTGTGCCAAGGCCATTTCCACGCAAGGTCTTGAAGCCACATATGCTC CACTGCTCTTGAT
Restriction Sites:	ECORI-NOT
ACCN:	NM_002939
Insert Size:	1820 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).
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:	NM_002939.3 , NP_002930.2
RefSeq Size:	2057 bp
RefSeq ORF:	1386 bp
Locus ID:	6050
UniProt ID:	P13489
Cytogenetics:	11p15.5
Domains:	LRR, LRR_RI

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 (1) represents the longest transcript. All eight variants of this gene encode the same protein.