

Product datasheet for **SC121083**

Ribonuclease Inhibitor (RNH1) (NM_203386) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_203386) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNH1
Synonyms:	RAI; RNH
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_203386, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCC
TCCCTCTGCTCCAGCAGTCCAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGA
CATCAGCTCTGCACTTCGAGTCAACCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGAT
GTCGGCGTGCATTGCGTGTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGA
ACTGCTGCCTGACGGGGCCGGCTGCGGGTCTGTCCAGCACACTACGCACCCTGCCACCTGCAGGA
GCTGCACCTCAGCGACAACCTCTTGGGGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTGGACCC
CAGTGGCCCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAGCCCTGGCCT
CCGTGCTCAGGGCCAAGCCGGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGCGT
CCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAGCTGGAGAGCTGCGGT
GTGACATCAGACAACGCCGGGACTGTGCGGCATTGTGGCCTCCAAGGCTCGTGCAGGAGCTGGCCC
TGGCAGCAACAAGCTGGGTGATGTGGGATGGCGGAGCTGTGCCAGGGCTGCTCCACCCAGCTCCAG
GCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGATCTGTCCGTGTCCCTC
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGGCAACGAGCTGGGGATGAGGGTGCCCGACTGC
TGTGTGAGACCCTGCTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGGTGAAGTCTGCAGCTTCACAGC
CGCCTGTGCTCCCACTTCAGCTCAGTGTGGCCAGAACAGTTTCTCCTGGAGCTACAGATAAGCAAC
AACAGGCTGGAGGATGCGGGCGTGGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCTCTGTGCTGCGGG
TGCTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCTGTTGGCCAA
CCACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCCTGGGGGACGCCGCATCTGCAGCTGTTGGAG
AGCGTCCGGCAGCCGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGG
AGGACCGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATCTCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_203386 unedited GGAATTTTCGGAATTTGTAATACGACTCACTATAGGGCGCGCCGGAATCGGCACCANATC GTCAACCTTTTCCACCTTCTCCAGTCTGGGGGCAAAGGGGTGTCTCAGGCCACTCTTCA CCTCCACCATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACG CTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGCTGGACGACT GTGGGCTCACGGAAGCACGGTGCAAGGACATCAGCTCTGCATTCGAGTCAACCCTGCAC TGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGATGTCGGCGTGCATTGCGTGTCC AGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGAAGTCTGCTGCTGA CGGGGGCCGGCTGCGGGGTCTGTCCAGCACACTACGCACCTGCCACCTGCAGGAGC TGCACCTCAGCGACAACCTCTTGGGGATGCGGGCCTGCAGTGTCTGCGAAGGACTCC TGGACCCCAAGTCCCGCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCCTCTCGGCTGCC AGCTGCGAGCCCTGGCCTCCGTGCTCAGGGCCAAGCCGACTTCAAGGAGCTCACGGTT AGCAACAACGACATCAATGAGGCTGGCGTCCGTGTGTGCCAGGGCCTGAAGGACTCC CCCTGCCAGCTGGAAGCGCTCAAGCTGGAGAGCTGCGGTGTGACATTAGACAAGTCCCG GACCTGTGTGGCATTGCGGCCTCCAGCCCTCCTGCGGGAGCTGGCCCTGGGCCAACAA GACTGGTGATGTGGGCATGGCGGACCTGTGCCAGGGTTGGTCCCCCAGTCCAGGCTAAG ACCCGTGGATCTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_203386
Insert Size:	1550 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_203386.1 , NP_976320.1
RefSeq Size:	1937 bp
RefSeq ORF:	1386 bp
Locus ID:	6050
UniProt ID:	P13489
Cytogenetics:	11p15.5

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 (5) contains a different exon and uses a different splice site 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.