

Product datasheet for **SC121744**

Ribonuclease Inhibitor (RNH1) (NM_203385) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_203385) 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_203385, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCC
TCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGA
CATCAGCTCTGCACTTCGAGTCAACCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGAT
GTCGGCGTGCATTGCGTGTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGA
ACTGCTGCCTGACGGGGCCGGCTGCGGGTCCGTCCAGCACACTACGCACCCTGCCACCTGCAGGA
GCTGCACCTCAGCGACAACCTCTTGGGGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTGGACCC
CAGTGGCCCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAGCCCTGGCCT
CCGTGCTCAGGGCCAAGCCGGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGCGT
CCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAGCTGGAGAGCTGCGGT
GTGACATCAGACAACGCCGGGACTGTGCGGCATTGTGGCCTCCAAGGCTCGCTGCGGGAGCTGGCCC
TGGGCAGCAACAAGCTGGGTGATGTGGCATGGCGGAGCTGTGCCAGGGCTGCTCCACCCAGCTCCAG
GCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGATCTGTCCGTGTCCCTC
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGGCAACGAGCTGGGGATGAGGGTGCCCGACTGC
TGTGTGAGACCCTGCTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGTGAAGTCTGCAGCTTACAGC
CGCCTGTGCTCCCACTTCAGCTCAGTGTGGCCAGAACAGTTTCTCCTGGAGCTACAGATAAGCAAC
AACAGGCTGGAGGATGCGGGCGTGGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCTCTGTGCTGCGGG
TGCTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCTGTTGGCCAA
CCACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCCTGGGGGACGCCGCATCCTGCAGCTGTTGGAG
AGCGTCCGGCAGCCGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGG
AGGACCGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATCTCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_203385 unedited</p> <pre>TTCGGATTTTGTATACGACTCACTATAGGGCGGCCGATTTCGGCACCAGCCCAGCCGAG CTTGCTTCCCCAAATCCCCTAATCCTTGACCTTATTCCCCCAAAGAAGCGGCCTCCCGGG AAGGAGCGCCCTGGCGGAGAAGACTCGAACGGCTCCCACAGCCGGGCGTTGGGGAAAGA ATCTCCGGCCTGTGAAACTGTGAGGGGATTCGGCCAAGACGTCTCTTCCCTCTGCCTCC CACCCAGGCCACTCTTACCTCCACCATGAGCCTGGACATCCAGAGCCTGGACATCCAGT GTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAAG TGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGACATCAGCTCTGCAC TTCGAGTCAACCCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGATGTGCG GCGTGCATTGCGTGTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCC TCCAGAAGTGTGCTGACGNGGCCGGCTGCGGNGTCTGTCCAGACTACGCACCT GCCACCTGCAGGAGCTGCACCTCAGCGACAACCTCTTGGGGATGCGGGCCTGCAGCT GCTCTGCGAAGGACTCCTGGACCCCAAGTCCCGCTGAAAGCTGCAGCTGGAGTATTGC AGCCTCTCGGCTGCCAGCTGCGAGCCCTGGNCTNCGTGCTCAGGNCCAGCCGACTTCA GGAGCTNACCGGTAGCNACAGCATCATGAGCCTGCCGTTTCGTGTGCTGTGCAGGGCCCT GAGGACTCCCCTGCCAGCTGAGCCCTCAGCTGAAAGTTGGGGGTACTNACACTGCGGGA CTGTGCGGATGTGGCTCAGGCTCCTGGGGACTGGCCTGCGACAACCTGGGATGTGGCATG GGGAATTCAGGTTGTCACCACTCGTACC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_203385
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_203385.1 , NP_976319.1
RefSeq Size:	1884 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 (4) lacks an alternate exon in the 5' UTR, compared to variant 1. All eight variants of this gene encode the same protein.