

Product datasheet for **SC320211**

Ribonuclease Inhibitor (RNH1) (NM_203383) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_203383) 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)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_203383.1
 GCTGGCTCGAGAACGAAGTAGGCCGTCTCGCTCTGGGTCTCCAGGCCCGCGACCGTCCGC
 CAGTCGTCCCAGAAATCTCCGGCCTGTGAAACTGTGAGGGGATTAGCCAAGACGTCCTC
 TTCCCTCTGCCTCCCACCCAGGCCACTTTCACCTCCACCATGAGCCTGGACATCCAGAG
 CCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCT
 CCAGCAGTGCCAAAGTGGTCAGGCTGGACGACTGGCCCTCACGGAAGCACGGTGCAAGGA
 CATCAGCTCTGCACTTCAGAGTCAACCCCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGA
 GCTGGGCCGATGTGCGCGTGCATTGCGTGTCCAGGGCCTGCAGACCCCTCCTGCAAGAT
 CCAGAAGCTGAGCCTCCAGAAGTCTGCTGACGGGGCCGGCTGCGGGGTCTGTCCAG
 CACACTACGCACCCTGCCACCCTGCAGGAGCTGCACCTCAGCGACAACCTCTTGGGGGA
 TGCGGGCTGCAGCTGCTCTGCGAAGGACTCCTGGACCCCAAGTCCCGCTGGAAAAGCT
 GCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAGCCCTGGCCTCCGTGCTCAG
 GGCCAAGCCGGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGCGT
 CCATGTGTATGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAGCTGGA
 GAGCTGCGGTGTGACATCAGACAAGTCCGGGACCTGTGCGGCATTGTGGCCTCCAAGGC
 CTCGCTGCGGGAGCTGGCCCTGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCT
 GTGCCCAGGGCTGCTCCACCCAGCTCCAGGCTCAGGACCCTGTGGATCTGGGAGTGTGG
 CATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCCTCAGGGCCAAGGAGAGCCTGAA
 GGAGCTCAGCCTGGCCGGCAACGAGCTGGGGGATGAGGGTGCCCGACTGCTGTGTGAGAC
 CCTGCTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGGTGAAGTCTGCAGCTTCACAGC
 CGCCTGCTGCTCCCACTCAGCTCAGTGTGGCCAGAACAGGTTTCTCTGGAGCTACA
 GATAAGCAACAACAGGCTGGAGGATGCGGGCGTGGGGAGCTGTGCCAGGGCCTGGGCCA
 GCCTGGCTCTGTGCTGCGGGTGTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCT
 CAGCAGCCTCGCCGCAACCCTGTTGGCCAACCACAGCCTGCGTGAGCTGGACCTCAGCAA
 CAACTGCCTGGGGGACGCGGGCATCCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGCTG
 CCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGGAGACCGGCT
 GCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATCTCCTGAGGCTCTTCTGCTG
 CTGCTCTCCCTGGACGACCGCCTCGAGGCAACCCTGGGGCCACCAGCCCTGCCATGC
 TCTCACCTGCATATCCTAGGTTTGAAGAGAAACGCTCAGATCCGCTTATTTCTGCCAGT
 ATATTTTGGACACTTTATAATCATTAAAGCACTTCTTGGCAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_203383

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_203383.1](#), [NP_976317.1](#)

RefSeq Size: 1989 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 (2) uses a different splice site in the 5' UTR, compared to variant 1. All eight variants of this gene encode the same protein.