

Product datasheet for **RG219235**

Ribonuclease Inhibitor (RNH1) (NM_203389) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Ribonuclease Inhibitor (RNH1) (NM_203389) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ribonuclease Inhibitor |
| Synonyms: | RAI; RNH |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG219235 representing NM_203389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCC
 TCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGA
 CATCAGCTCTGCACTTCGAGTCAACCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGAT
 GTCGGCGTGCATTGCGTCTCCAGGGCCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGA
 ACTGCTGCTGACGGGGCCGGCTGCGGGTCTGTCCAGCACACTACGCACCCTGCCACCCTGCAGGA
 GCTGCACCTCAGCGACAACCTCTGGGGGATGCGGGCCTGCAGCTGCTCTGCGAAGGACTCCTGGACCC
 CAGTGCCGCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCGGCTGCCAGCTGCGAGCCCTGGCCT
 CCGTGCTCAGGGCAAGCCGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGCGT
 CCATGTGCTATGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAGCTGGAGAGCTGCGGT
 GTGACATCAGACAACCTGCCGGGACTGTGCGGCATTGTGGCCTCCAAGGCTCGCTGCGGGAGCTGGCCC
 TGGGCAGCAACAAGCTGGGTGATGTGGCATGGCGGAGCTGTGCCAGGGCTGCTCCACCCAGCTCCAG
 GCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCTC
 AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGGCAACGAGCTGGGGGATGAGGGTGCCCGACTGC
 TGTGTGAGACCCTGTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGGTGAAGTCTGCAGCTTACAGC
 CGCCTGCTGCTCCACTTCAAGCTCAGTGTGCCCCAGAACAGTTTCTCCTGGAGCTACAGATAAGCAAC
 AACAGGCTGGAGGATGCGGGCGTGGGGAGCTGTGCCAGGGCCTGGCCAGCCTGGCTCTGTGCTGCGGG
 TGCTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCCCTGTTGGCAA
 CCACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCCTGGGGGACGCGGCATCCTGCAGCTGGTGGAG
 AGCGTCCGGCAGCCGGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGG
 AGGACCGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCATCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219235 representing NM_203389
 Red=Cloning site Green=Tags(s)

MSLDIQSLDIQCEELSDARWAELLPLLQQCVVRLDDCGLTEARCKDISSALRVNPALAEINLRSNELGD
 VGVHCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLSNLLGDAGLQLLCEGLLDP
 QCRLEKLQLEYCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVHVLCOGLKDSPCQLEALKLESCG
 VTSNCRDLCGIVASKASLRELALGSNKLGDVGMALCPGLLHPSRRLRTLWIWECGITAKGCCDLRVL
 RAKESLKEKSLAGNELGDEGARLLCETLLEPGCQLESLWVKSCSFTAACCSHFSSVLAQNRFLLELQISN
 NRLEDAGVRELCQGLGQPGSVLRVWLADCDVSDSSCSLAATLLANHSLRELDLNNCLGDAGILQLVE
 SVRQPGCLLEQLVLYDIYWSEEMEDRLQALEKDKPSLRVIS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_203389

ORF Size: 1383 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_203389.1](#), [NP_976323.1](#)

RefSeq Size: 1832 bp

RefSeq ORF: 1386 bp

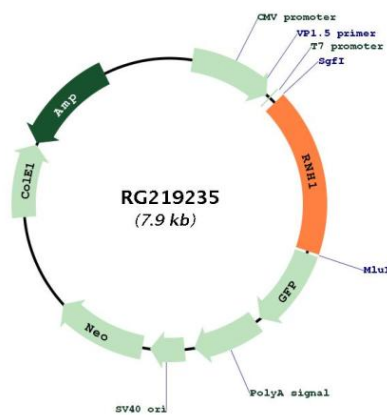
Locus ID: 6050

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]

Product images:



Circular map for RG219235