

Product datasheet for **RC218365**

Ribonuclease Inhibitor (RNH1) (NM_203386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ribonuclease Inhibitor (RNH1) (NM_203386) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ribonuclease Inhibitor
Synonyms:	RAI; RNH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218365 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGAGCCTGGACATCCAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGT
 CCTCCCTCTGCTCCAGCAGTGCCAAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGAAG
 GACATCAGCTCTGCACTTCGAGTCAACCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCG
 ATGTGCGCGTGCATTGCGTGCTCCAGGGCTGCAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCA
 GAACTGCTGCCTGACGGGGCGGCTGCGGGTCTGTCCAGCACACTACGCACCCTGCCACCCTGCAG
 GAGCTGCACCTCAGCACAACCTCTGGGGATGCGGGCTGCAGCTGCTCTGGAAGGACTCCTGGACC
 CCCAGTCCGCTGAAAAGCTGCAGCTGGAGTATTGCAGCTCTCGGCTGCCAGCTGCGAGCCCTGGC
 CTCGTGCTCAGGGCAAGCCGACTTCAAGGAGCTCACGGTTAGCAACAACGACATCAATGAGGCTGGC
 GTCGTGTGCTGTGCCAGGGCTGAAGGACTCCCCTGCCAGCTGGAGGCTCAAGCTGGAGAGCTGCG
 GTGTGACATCAGACAACCTGCCGGGACTGTGCGGCATTGTGGCCTCCAAGCCTCGCTGCGGGAGCTGGC
 CCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCAGGGCTGTCCACCCAGCTCC
 AGGCTCAGGACCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCC
 TCAGGGCAAGGAGAGCTGAAGGAGCTCAGCCTGGCCGCAACGAGCTGGGGATGAGGGTGCCGACT
 GCTGTGTGAGACCCTGTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGTGAAGTCTGCAGCTTACA
 GCCCCTGCTGCTCCACTTCAGCTCAGTGTGGCCAGAACAGGTTTCTCCTGGAGCTACAGATAAGCA
 ACAACAGGCTGGAGGATGCGGGCTGCGGGAGCTGTGCCAGGGCTGGCCAGCCTGGCTCTGTGCTGCC
 GGTGCTCTGGTTGGCCGACTGCGATGTGAGTGACAGCAGCTGCAGCAGCTCGCCGCAACCTGTTGGCC
 AACACAGCCTGCGTGAGCTGGACCTCAGCAACAACCTGCCTGGGGACCGCGCATCCTGCAGCTGGTGG
 AGAGCGTCCGGCAGCCGGCTGCCTCCTGGAGCAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGAT
 GGAGGACCGCTGCAGGCCCTGGAGAAGGACAAGCCATCCCTGAGGGTCACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218365 protein sequence
 Red=Cloning site Green=Tags(s)

X*AWTSRAWTSSVRS*ATLDGPSSSLCSSSAKWSGWTTVASRKHGARTSALHFESTLHWQSSTCAATSWA
 MSACIACSRACRPPPARSRS*ASRTAA*RGPAAGSCPAHYAPPCRSCTSAATSWGMRACSCSAKDSWT
 PSAAWKSCSWSIAASRLPAASPWPPCSGPSRTSRSSRLATTTSMRLASVCCARA*RTPPASWRRSSWRAA
 V*HQTTAGTCAALWPPRRCGSPWAATSWMWAWRSCAQGCSTPAPGSGPCGSGSVASLPRAAGICAVS
 SGPARRA*RSSAWPATSWGMRVPDCCVRPCWNLAAASWSRCG*SPAASQPPAAPTSAQCWPRTGFSWSYR*A
 TTGWRMRACGSCARAWASLALCCGCSGWPTAM*VTAAAAASPQCWPTTACVSWTSATTAWGTPASCSW
 RASGSRAASWSSWCTTFTGLRRWRTGCRPWRTSHP*GSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6349_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_203386

ORF Size: 1386 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.

RefSeq: [NM_203386.3](#)

RefSeq Size: 1884 bp

RefSeq ORF: 1386 bp

Locus ID: 6050

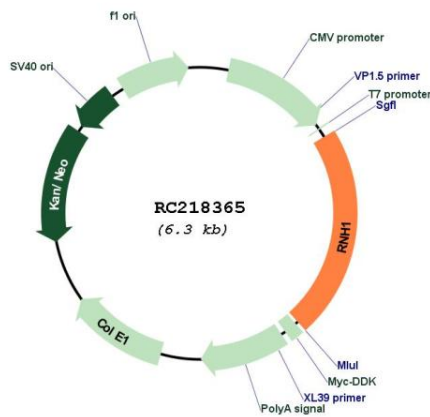
UniProt ID: [P13489](#)

Cytogenetics: 11p15.5

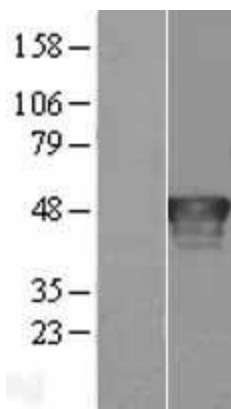
MW: 50 kDa

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]

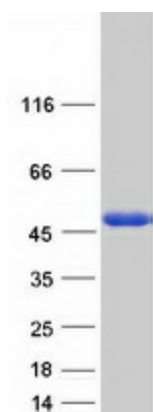
Product images:



Circular map for RC218365



Western blot validation of overexpression lysate (Cat# [LY404327]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218365 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNH1 protein (Cat# [TP318365]). The protein was produced from HEK293T cells transfected with RNH1 cDNA clone (Cat# RC218365) using MegaTran 2.0 (Cat# [TT210002]).