

## Product datasheet for **RR210421**

### **Rin1 (NM\_139038) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rin1 (NM_139038) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rin1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR210421 representing NM\_139038  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCACGCCTGTGCCTTGGGGTTGGATTCTTCTCCTGAGTCCAGGAGAAGCTGAAGGAGCTCCAG  
 CCATGGAAGACCTGGTGAGACCGAAGCACACCCTCTGGGAGCCACCAGCCTGAACCTTTGTACCTGGGTA  
 CCAACAGGAAGAAAAGCCATCTCCAGACCCACTGTATGACACACCTGATGCCAGAGGGGTTCAAGGAGGC  
 GGGTCCAAACAACCAGCACGCACAGTGAGCTTGCGGGAGCGGCTGCTGATCACCCGGCCTGTGTGGTTAC  
 AGCTGCGGGCCAACGCTGCAGCCGCACTGCACGTGCTGAGGACAGAGCCTCCGGGACCTTCTGGTGCG  
 GAAATCTAACACTCGCCAGTGCCAGACTCTATGTGTGCGGCTGCCAGAAGCTAGTGGCCCTCTTTTGT  
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 TGGTCCAGCTCATCTGTGCATACTGTACATACCAGGGACATTCTTCTCCTCCCTCTCCCGTCCCCAGAGC  
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 CCCACCAACAGTGAGAAATTAAGAGGAGTTTCAAAGTGCCTGTATCCAGAGACCTCCAGCCCTCTG  
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 GAGGGCTTCCGCTGGCCCGGACCCAGGGGCTGGAGCCTTCCGGTCCCACCTGAACCTTCTTCCCCAG  
 TGGAGATAGAACCAGTGCCTCAGAAGCTGCTGCAGCTCCTTCGTGCTACTCGCTAGTGCCAGATCAA  
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 GACCAAGAAGGCAAGGATCAGGCCAGAGGAGGTCACATGCAGCTAGAGGAACAAAAGGCAGAGGGATGCC  
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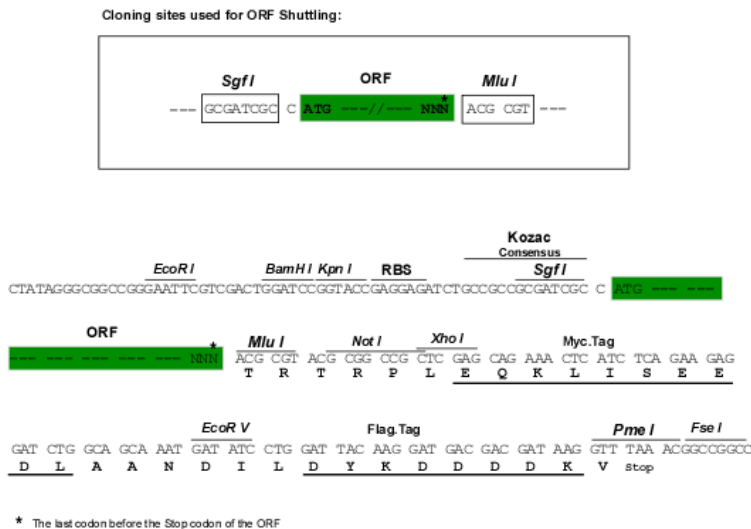
**Protein Sequence:** >RR210421 representing NM\_139038  
Red=Cloning site Green=Tags(s)

```
MCTPVPWGLDSLPESEKELKELPAMEDPGETEAHPLGATSLNFVPGYQQEKEKPSDPLYDTPDARGVQAG
GSQQPARTVSLRERLLITRPVWLQLRANAAAALHVLRTTEPPGTFVLRKSNTRQCQTL CVRLPEASGPSFV
SSHYLQESPGGISLEGESELTFFDLVQLICAYCHTRDILLPLPRAIHQAATHKELEAISHLGMFWSS
SLNTKNQQRPEAPQIPRLKARSPQELDQGTGAALCFNPLFPDGLGPTKREKFKRSFKVRYSTETSSPL
SPPAVPPPPVPVLPGTSSSQTERLPPRQLLQRESSVGYRVPGSASGPSLPPLPSLQEVDCSPSSSEEEG
SSGSPTTSPRLSRPRHRRPLLRSMSSAFCSLLAPERQVGRAATMLMQRNYTAVGQLVQDLLTQVRYGPES
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EGFRLARTQGGAFGSHLNLSSPVEIEPVRQKLLQLLRAYSPSAQIKWLLQACKLLYTALKTQAGENAGA
DEFLLPLSLVLAQCDLPDLLLEAEYMSLELPTLLTGGGGYYL TSL SASLALLSGLSQAHALPLSPAQEL
QRSLALWEQRRLPATHNFQHLLRVAYQDPSTGCTSKTLAVPPGSSIATLSQLCATKFRVTQPDFGLFLY
KDQGYHRLPPEALVHRLPTTGYL IYRRAERPETQRAATEKTKTGNRPERGAWEEEEKGLNGEGKSEIAV
DQEGKDQARGGHMQLLEEQAEGCPALEE
```

TRTRPLEQKLISEEDLAANDILDYKDDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139038

**ORF Size:** 2394 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\\_139038.1](#), [NP\\_620607.1](#)

**RefSeq Size:** 2548 bp

**RefSeq ORF:** 2397 bp

**Locus ID:** 207119

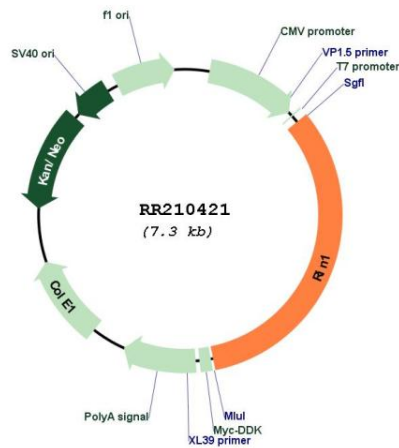
**UniProt ID:** [P97680](#)

**Cytogenetics:** 1q43

**MW:** 87.4 kDa

**Gene Summary:** may act as a regulator of Ras-mediated signal transduction [RGD, Feb 2006]

**Product images:**



Circular map for RR210421