

Product datasheet for **RG204147**

RIN1 (NM_004292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIN1 (NM_004292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204147 representing NM_004292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCCCTGGAGAGTCAGGCGGGCTCTCCTGGAGCCCCAGCCGTCCAGTTCCTACTGTTGGG
 ACCTGGCGAGAGAAAAGCCAGCCAGGACCCACTGTATGACGTGCCAATGCCAGCGGGCAGGCAGG
 CGGGCCGAGCGGCCGGGGCGGTTGTGAGCCTGCGGGAGCGCCTGCTGCTCACCCGGCCGTGTGGCTG
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 GGAGCTGCAGGGCATCCGTGAGCGCTGAGCCGGGCCCGGCCATGCTGAGTGCAGGAGTGGGCCCTGAG
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 TACATGTCGGAGCTGCTGGAGCCAGCCTGCTTACTGGAGAGGGTGGCTACTACCTGACCAGCCTCTCTG
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 GGAGCAGGGTACCACCGCTGCCCTGGGGCCCTGGCCACAGGCTGCCACCACTGGCTACCTCGTC
 TACCGCCGGCGGAGTGGCTGAGACCCAGGGGCTGTGACAGAGGAGGAGGGCAGTGGGCAGTCAGAGG
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 CATTGGGAACAGTCTGAGACAAGTCTGAAGGGGGCCAGGGTCAAGCCAGGAAGGCCCTGCTCAGCCA
 GGGGAACCAAGGCAGAGGGAAGCCGGGAGCAGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204147 representing NM_004292
Red=Cloning site Green=Tags(s)

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MESPGESGAGSPGAPSPSSFTTGHAREKPAQDPLYDVPNASGGQAGGPQRGRVVSRLRERLLLTRPVWL
QLQANAAAALHMLRTEPPGTFLVRKSNTRQCQALCMRLPEASGPSFVSSHYILESPGGVSLLEGSELMFPD
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LPPCQLLRRESSVGYRVPAGSGPSLPPMPSLQEVDGSPSSSEEGVPGSRGSPATSPHLGRRRPLLRSM
SAAFCSLLAPERQVGRAAAALMQRHTAAGQLVQDLLTQVRAGPEPQELQGIRQALSRARAMLSAELGPE
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YMSELLEPSLLTGEGGYLTSLSASLALLSGLGQAHTLPLSPVQELRRSLSLWEQRRLPATHCFQHLLRV
AYQDPSSGCTSKTLAVPPEASIAITLNQLCATKFRVTQPNTFGLFLYKEQGYHRLPPGALAHRLPTTGYL
YRRAEWPETQGAVTEEEGSGQSEARSRGEEQGCQGDGDAGVKASPRDIREQSETTAEGGQQAQEGPAQP
GEPEAEGSRAAEE
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004292

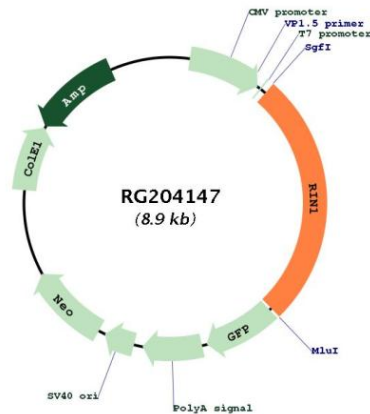
ORF Size: 2349 bp

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_004292.3](#)
- RefSeq Size:** 2698 bp
- RefSeq ORF:** 2352 bp
- Locus ID:** 9610
- UniProt ID:** [Q13671](#)
- Cytogenetics:** 11q13.2
- Gene Summary:** Ras effector protein, which may serve as an inhibitory modulator of neuronal plasticity in aversive memory formation. Can affect Ras signaling at different levels. First, by competing with RAF1 protein for binding to activated Ras. Second, by enhancing signaling from ABL1 and ABL2, which regulate cytoskeletal remodeling. Third, by activating RAB5A, possibly by functioning as a guanine nucleotide exchange factor (GEF) for RAB5A, by exchanging bound GDP for free GTP, and facilitating Ras-activated receptor endocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204147