

Product datasheet for **RC224104**

RIN3 (NM_024832) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIN3 (NM_024832) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC224104 representing NM_024832
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCCGACACGCCGGGCGCCCGCGCGGGGACCCACGGGTCCGGTTCAGTTGTTGGCAAAGGAG
 AGGAAGAGGAAGAGGAAGATGGCATGCGGCTTTGTCTGCCAGCCAACCCGAAAAACTGCCTTCCTACCG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224104 representing NM_024832
 Red=Cloning site Green=Tags(s)

MIRHAGAPARGDPTGPVPVVGKGGGGGGGGMRLCLPANPKNCLPHRRGISILEKLIKTCVPWLQLSLGQ
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AFYCVSRDLLPFTLRLPQAIL EASSFTDLETIANLGLGFWSSSLNPPQERGKPAEPPDRAPGFPLVSSL
RPTAHDANCACEIELSVGNDRLWFVNPFI EDCSSALPTDQPLGNCPARLPPTS DATSPTS SRWAPRRP
PPPPVPLPLQPCSPAQPPVLPALAPAPACPLTSPVPAPHVTPHAGPPDHPNQPPMTCERLPCPTAG
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QFSSPSVKKKPSMILGKARHLSFASFSSMFHAFSLNNRKL YKKVVELAQDKGSYFGSLVQDYKVYSLEM
MARQTSSTEMLQEIRTMMTQLKSYLLQSTELKALVDPALHSEEELEAIVESALYKCVLKP LKEAINSCLH
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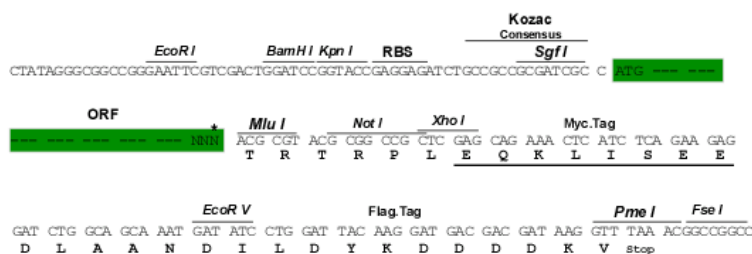
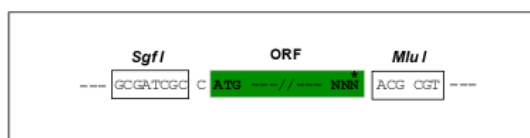
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8044_c12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



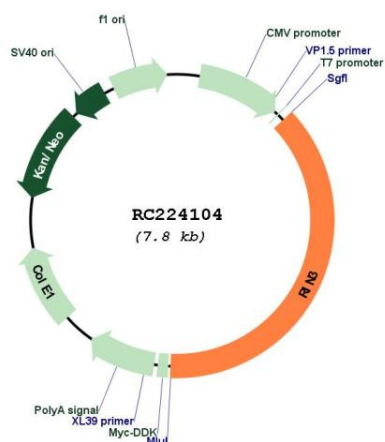
* The last codon before the Stop codon of the ORF

ACCN: NM 024832

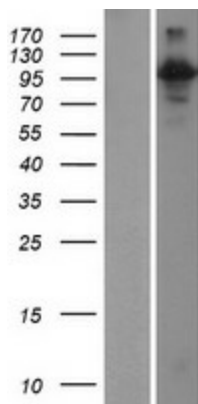
ORF Size: 2955 bp

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_024832.5
RefSeq Size:	3869 bp
RefSeq ORF:	2958 bp
Locus ID:	79890
UniProt ID:	Q8TB24
Cytogenetics:	14q32.12
Domains:	VPS9
MW:	107.7 kDa
Gene Summary:	Summary: This protein encoded by this gene is a member of the RIN family of Ras interaction-interference proteins, which are binding partners to the RAB5 small GTPases. The protein functions as a guanine nucleotide exchange for RAB5B and RAB31. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

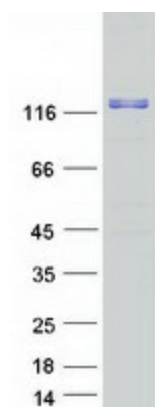
Product images:



Circular map for RC224104



Western blot validation of overexpression lysate (Cat# [LY410977]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224104 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RIN3 protein (Cat# [TP324104]). The protein was produced from HEK293T cells transfected with RIN3 cDNA clone (Cat# RC224104) using MegaTran 2.0 (Cat# [TT210002]).