

Product datasheet for **RR211419**

Rtn1 (NM_053865) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn1 (NM_053865) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtn1
Synonyms:	Nsp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR211419 representing NM_053865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCACCGCCGGATCTGCAAGATGAGCCACTGTCTCCGGCTAACCCCGGGTCCAGTTGTTCCGGG
 GCCGGGGGGAGGGGAAGAAGCGACGCCGAAGGGGGCCAGACCAGCGCAGCAGGACGGGGAGCCCGCTTG
 GGGGTCCGGCGCTGGAGCTGGGGTAGTGTCTGTCGCGGGGACTGTGCTCCGGCCCCGCCGGTTCGCTCC
 GTCGCCATGAAAAGTGCATCCACAGGTGTGGCAGCTGTTCTGATGCCCTCGATCACTCTTCTCTCCAA
 CACTAAAAGATGGGAAGGGGCATGTTACACATCCCTGATTTCTGACATCTGTTATCCACCTCGAGAGGA
 CTCTGCATACTTTACTGGAATTTCTCAGAAAGAAAATGGTCACATCACCCTCCGAGAGTCTGAGGAG
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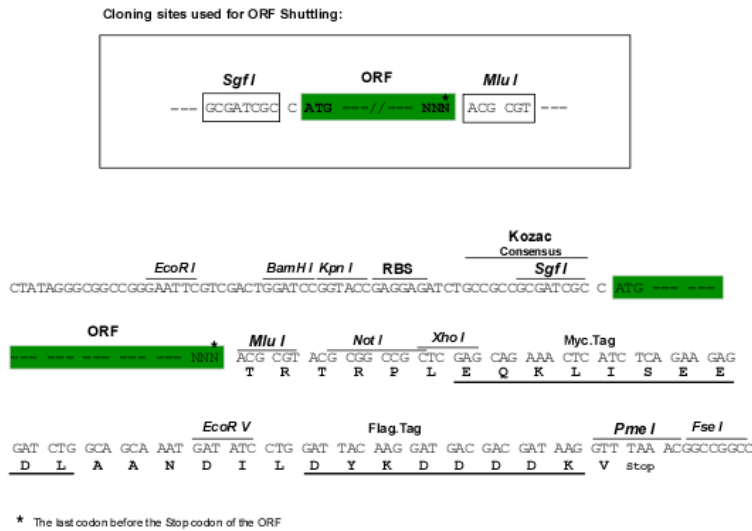
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211419 representing NM_053865
 Red=Cloning site Green=Tags(s)

MAAPPDLQDEPLSPANPGSQLFGGRGEGEEATPKGARPAQQDGEPAWGSGAGAGVSSRGLCSGPARSPP
 VAMETASTGVAAPDALDHSSSPTLKDGEACYSLSIDICYPPREDSAYFTGILQKENGHITTSSEPEE
 LGTPGPSLPEVPGTEPHGLLSSDSGIEMTPAESTEVNKILADPLDQMKAEACKYIDITRPQEAQGQEEQS
 PGLEDKDLDFKDKDSEVSTKPEGVHAPNQSPVEGKLIKDNLFEESTFAPYIDELSDQHRMSLVTAPVK
 ITLTEIGPPVMTATHETIPEKQDLCLKPSPDTVPTVTVSEPEDDSPGVSVPSSGTEPSAAESQKGSVS
 EDELIAAIKEAKGLSYETTESPRPVQAADRPKVKARSGLPTIPSSLDQEASSAESGDSEIELVSEDPMA
 SEDALPSGYVSFGHVSPPPSPASPSIQYSILREEREAELESELIIESCDASSASEESPKREQDSPPMKP
 GVLDAIREETSSRATEERAPSHQGPVEPDPILSFTPVTLQSRPEPSSGDGAPVPEPPKSQQQKPEEEAVS
 SSQSPAATEIPGPLGSDLVPPLPFFNKQKAIDLLYWRDIKQTGIVFGSFLLLLSLTQFSVVSVVAYLAL
 AALSATISFRIYKSVLQAVQKTDEGHPFKAYLELEITLSQEQIQKYTDCLQLYVNSTLKELRRLFLVQDL
 VDSLKFAVLMWLLTYVGALFNGLTLLMVAVSMFTLPVVVYVKHQAQVDQYLGLVRTHINTVVAKIQAKIP
 GAKRHAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053865

ORF Size: 2331 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_053865.1](#), [NP_446317.1](#)

RefSeq Size: 3502 bp

RefSeq ORF: 2334 bp

Locus ID: 116644

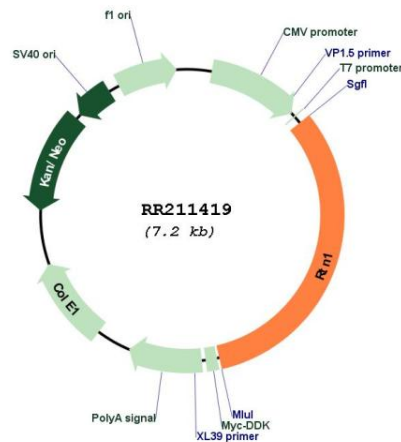
UniProt ID: [Q64548](#)

Cytogenetics: 6q24

MW: 83 kDa

Gene Summary: displays differential expression in response to ethanol during embryonic brain development; may be regulated by thyroid hormone [RGD, Feb 2006]

Product images:



Circular map for RR211419