

Product datasheet for **MR210617**

Rtn1 (NM_153457) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn1 (NM_153457) Mouse 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)



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**ORF Nucleotide
Sequence:**

>MR210617 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCACCGCCGGATCTGCAAGATGAGCCGCTGTCTCTGGGTAGCCCGGGTCCAGTGGTTCGGGG
 GCCGGGGGGATGGGAAGACGAAGCGACGGCGGTGATGGGGGCCAGGCCAGCGCAGCAGGATGGGGAGCC
 CGCCTGGGGTTCGGGCGCTGGAGCTGGGGTAACGTCGTCGCGGGAAGTGTCTCCGGCCCCGCCGGTCCG
 CCTCCCGTCGCCATGGAACTGCATCCACAGGTATGCGAGCTGTTCCCGATGCCCTCGACCACTCTCCCT
 CTTCAACACTAAAAGATGGGAAGGGGCATGTTACACATCCCTGATTTCTGACGCTGCTATCCACCTCG
 GGAGGACTCTGCATACTTACTGGAATTCTTCAGAAGGAAAATGGTCACATCACCACTTCCGAGAGCCCT
 GAGGAGCCGGAGACCCCGACCCTCGTTACCAGAAGTCCCGGGATGGAGCCACAGGGCTTATTGAGTT
 CTGATTCTGGAATAGAGATGACTCCTGCTGAGTCCACTGAGGTGAACAAGATCCTAGCTGACCCCTAGA
 CCAGATGAAGGCAGAAGCCTACAAATACATTGACATAACCAGGCCACAGGAGGCAAAAGGCCAGGAGGAG
 CAACACCTGGGCTAGAAGATAAAGACTTGACTTTAAAGACAAGGACACTGAAGTCTCCACAAAAGCAG
 AAGGGGTTGAGCACAAACCAGCCAGCTCCTGTGGAGGGGAAAATCATCAAGGACCACTTATTCGAAGA
 ATCTACCTTTGCTCCTTACATAGATGAGCTCTCTGATGAGCAGCACAGGGTGTCTCTGGTCACTGCCCT
 GTCAAGATCACACTGACGGAGATCGAACCTCCTTATGACTGCCACACAAGAGACAATCCCGGAGAAGC
 AAGACCTGTGTCTGAAGCCAAGTCTGACACAGTGCCCACTGTACTGTCTCAGAGCCTGAAGATGACAG
 CCCAGGATCTGTACGCCCTCCATCTTCTGGAACAGAACCATCTGCTGCAGAGTCCAGGGGAAAGGCAGC
 GTCTCCGAGGATGAGTTGATTGCTGCCATTAAGAAGCAAAGGGGTTATCATATGAAACCACCGAGAGTC
 CAAGGCCAGTGGCCAGGTGGCCGACAAACCCAAAACCAAGACCAGGTCTGGGCTGCCACCATCCCCAG
 TCCCTCGACCAGGAGGCCAGCAGTGCCGAGTCCGGAGACTCAGAAATTGAGCTGGTGTGAGAGGACCCC
 ATGGCCTCTGAGGATGCCCTGCCCTCTGGCTATGTGAGCTTCGGTCATGTGTGGGCCCGCCCCCTCTC
 CTGCCCTCCATCCATCCAGTACAGCATCCTGCGGGAGGAGCGTGAGGCCGAGCTGGACAGCGAGCTCAT
 CATCGAGTCTGTGATGCCTCCTCAGCCTCGGAGGAGAGCCCCAAGCGCAGCAGGACTCGCCCCGATG
 AAACCGGGTGCCCTGGACGCCATCCGCGAGGAGACAGGCTCTCGGGCCACCGAAGAACGAGCGCCAGCC
 ACCAAGGCCCTGTGGAGCCCGACCCGATGCTCAGCTTTGCCCGCTGCCGCCCTCAATCCCGCCGAGA
 GCCATCGTCTGGAGATGGAGCCTCGGTCCCGGAGCCGCCAGATCACAGCAGCAGAAGCCTGAAGAGGAA
 GCTGTGAGTTCAGTCAAAGTCCCACGGCCACCGAAAATCCTGGACCACTTGGTTCTGGCCTCATGCCCC
 CTCTGCCCTTTCTCAACAAGCAAAAAGCTATTGACCTTCTGACTGGCGGACATCAAGCAGACTGGGAT
 TGTGTTCCGGGAGCTTCTGCTGCTCTTCTCCCTGACCCAGTTCAGCGTTGTGAGCGTCTGTTGCCTAC
 CTGGCCCTGGCCGCCCTCTGCCACCATCAGCTTCCGCATCTACAAGTCCGTTCTACAAGCTGTGAGAA
 AAACAGATGAGGGTACCCCTTTCAAGGCCTACCTGGAGCTGGAGATCACCTGTCCCAGGAGCAGATCCA
 GAAGTACACAGACTGCCTGCAGCTGTATGTGAACAGCACTCTGAAGGAGCTACGGAGGCTTTTCTGGTC
 CAGGACCTGGTGGATTCTTAAAATTTGCAGTCTCATGTGGCTCCTGACCTACGTTGGCGCGCTTTCA
 ATGGCCTGACCTGCTGCTTATGGCTGTGGTTTCGATGTTTACTCTACCTGTTGTGTACGTTAAGCACCA
 GGCACAAGTTGACCAATATCTGGGACTTGTGAGGACTCACATAAACACCGTCGTGGCAAAGATCCAGGCT
 AAAATCCCCGGCCAAAGAGGCACGCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210617 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPPDLQDEPLSLGSPGSQWFGGRGDGEDEATAVMGARPAQQDGEPAWGSGAGAGVTSRELCSGPARS
 PPVAMETASTGMAAVPDALDHSPSTLKDGEACYSLSIDVCYPPREDSAYFTGILQKENGHITTSSESP
 EEPETPGPSLPEVPGMEPQGLLSSDSGIEMTPAESTEVNKILADPLDQMKAEAYKYIDITRPQEAQGQEE
 QHPGLEDKDLDFKDKDTEVSTKAEGVRAPNQPAPVEGKLIKDHLEESTFAPYIDELSDQHRVSLVTAP
 VKITLIEIEPPLMTATQETIPEKQDLCLKPSPDTVPTVTVSEPEDDSPGSVTPPSSGTEPSAAESQKGS
 VSEDELIAAIKEAKGLSYETTESPRPVGQVADKPKTKTRSGLPTIPSPLDQEASSAESGDSEIELVSEDP
 MASEDALPSGYVSFGHVSGLPPSPASPSIQYSILREEREAELELIEESCDASSASEESPKREQDSPPM
 KPGALDAIREETGSRATEERAPSHQGPVEPDPMLSFAPAAALQSRPEPSSGDGASVPEPPRSQQQKPEEE
 AVSSSQSPTATEIPGPLGSLMPPLPFFNKQKAIIDLLYWRDIKQGTGIVFGSFLLLLSLTFVSVVSVVAY
 LALAALSATISFRIYKSVLQAVQKTDEGHPFKAYLELEITLSQEIQKYTDCLQLYVNSTLKEFLV
 QDLVDSLKFAVLMWLLTYVGALFNGLTLLLMVVSMFTLPVVVYKHAQVDQYLGLVRTHINTVVAKIQA
 KIPGAKRHAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153457

ORF Size: 2343 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_153457.7](#)

RefSeq Size: 3632 bp

RefSeq ORF: 2343 bp

Locus ID: 104001

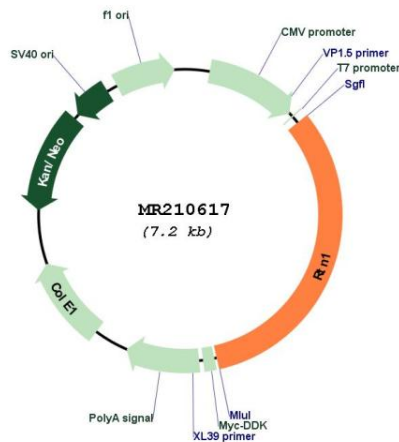
UniProt ID: [Q8K0T0](#)

Cytogenetics: 12 C3

MW: 83.6 kDa

Gene Summary: May be involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210617