

Product datasheet for **RR212476**

Rtn2 (NM_201562) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn2 (NM_201562) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtn2
Synonyms:	RTN2-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212476 representing NM_201562
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCAGGTCCTGCCGTCTTCGCCACTGCAAAGAAGCTCCATCTACAGCCTTTCTACCCCGATT
 CCACGGAAGGAGGAATGACGACTCGGATTTTCGGGAGCTGCACACAGCCCGGAATTCTCGGAGGACGA
 AGAGGAGGAGACTACATCGCAGGACTGGGGCACCCCCAGGGAGCTGACCTTTTCTACATTGCCTTCGAC
 GGCGTGGTGGGCTCTGGGGGCCGTAGGGATTCACTTGTTCGTCGTCGCCAGGCCCCAGGGACGTTCACTCT
 CAGAACCAAGGGACCCACCCACAGCCAGCCTGGGTGACAGCTTGAGAGATATCCCTAGTCTGAGCCA
 GTCCCCAGAGCCGGGGCGTCGCGGTGACCCAGACACTGTACCTCCAGCTGAGCGCCCGCTGGAGGAACTG
 AGGCTTCGGCTGGACCAGCTTGGCTGGGCTGTCCGGAGTCCGGGATCTGGGGAGGATTCGCCACCAGCA
 GCTCTACCCCGCTGGAATAAGGAGCCGGATGGATTGGAGGCCAGCGAGGCTGGAGAGACGAATCTGGA
 ACTCCGACTTGTCTCAGCCTCTACATTTGCAATTTGAGGGCTTGACTCCTCAGCTTAGCCCGAGCTCCGGG
 ATTCGCCAGGCGCATACCCCATCCACAGAGATCTCAAGATTTGAACACCGGTCTGATGAGCCGCTGC
 CGAATGGGGAAGGAGAACATTGGCGGTCTGGAGCAGGAGCCAATCACGGCCAGTGCCTCAATAGCAC
 AGACCAATCAGAAATCACGTTGGAGCCGCTCTTCTAGTGGCAGACCTGTTGACTGGAAGGACACCAGG
 ACGTCGGGAGCCATCTTACGGGCTCATGGCCTCTCTCCTCTGCCTCTGCACCTTAGCATCGTGTCCG
 TGGCTGCGCACCTGGCCCTGTGGGTCTCTGCGCCACCATCTCTCTCAGGGTTTACCGCAAAGTGTGCA
 GGCCGTGACCCGGGGCGACGGCACCAACCTTTCAGGCTTACCTGGACATGGACCTGACCTGACTCGG
 GAGCAGACAGAACGTTTGTCCAGCAGATTGCCTCCACGTGGTCTCCACGGCCACACAGCTGCGGCATT
 TCTTCTCGTAGAAGACCTGGTGGATTCTCAAGCTGGCTTCTCTTCTACATCTTGACCTTCGTTGGG
 AGCCATCTTTAACGGCTTGACTCTTGCATCTTGGGAGTGGTTGCTTTGTTACCGTCCCCCTTCTGTAC
 AGACAACATCAGGCCAGATTGACCAGTATGTGGGTTGGTGACCAGCCAGTTGAGCCACATCAAAGCTA
 AGATCCGAGCTAAGATCCCGGGACCGAACCTTGCCCCAGCAGCATCAGTCTCCGGATCCAAAGCCAA
 AGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212476 representing NM_201562
 Red=Cloning site Green=Tags(s)

MGQVLPVFAHCKEAPSTASSTPDSTEGNDDSDFRELHTAREFSEDEEEETTSQDWGTPRELTFSYIAFD
 GVVGSGRRDSVRRPRPQGRSVSEPRDPPPQPSLGDLSLEIPSLQSPEPGRRGDPDTPVPAERPLEEL
 RLRLDQLGWAVRSAGSGEDSATSSSTPLENEEPDGLSEAGETNLELRLAQPLHLQFEGLTPQLSPSSG
 IPQAHTPSPQRSQDLNTPDEPLPNGEHEHWRLLEQEPITAQCLNSTDQSEFTLEPLLLVADLLYWKDTR
 TSGAIFTGLMASLLCLLHF SIVSVAHLALLGLCATISLRVYRKVLQAVHRGDGTNPFQAYLMDLTLTR
 EQTERLSQQIASHVVSTATQLRHFFLVEDLVDSLKLALLFYILTFVGAIFNGLTLVILGVVALFTVPLLY
 RQHQAQIDQYVGLVTSQLSHIKAKIRAKIPGTGLAPAASVSGSKAKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_201562.3](#), [NP_963856.1](#)

RefSeq Size: 1892 bp

RefSeq ORF: 1410 bp

Locus ID: 308410

UniProt ID: [Q6WN19](#)

Cytogenetics: 1q21

MW: 51 kDa

Gene Summary: Inhibits amyloid precursor protein processing, probably by blocking BACE1 activity (By similarity). Enhances trafficking of the glutamate transporter SLC1A1/EAAC1 from the endoplasmic reticulum to the cell surface (PubMed:18096700). Plays a role in the translocation of SLC2A4/GLUT4 from intracellular membranes to the cell membrane which facilitates the uptake of glucose into the cell (By similarity).[UniProtKB/Swiss-Prot Function]