

Product datasheet for **RN212476**

Rtn2 (NM_201562) Rat Untagged Clone

Product data:

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



[View online »](#)

Fully Sequenced ORF: >RN212476 representing NM_201562
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCAGGTCCTGCCGTCTTCGCCACTGCAAAGAAGCTCCATCTACAGCCTTTCTACCCCGATT
CCACGGAAGGAGGAATGACGACTCGGATTTTCGGGAGCTGCACACAGCCCGGAATTCGAGGACGA
AGAGGAGGAGACTACATCGCAGGACTGGGGCACCCCCAGGGAGCTGACCTTTTCTACATTGCCTTCGAC
GGCGTGGTGGGCTCTGGGGCCGTAGGGATTCACTTGTTCGTCGTCGCCAGGCCCCAGGGACGTTCACTCT
CAGAACCAAGGGACCCACCCCCACAGCCAGCCTGGGTGACAGCTTGAGAGATATCCCTAGTCTGAGCCA
GTCCCCAGAGCCGGGCGTCGCGGTGACCCAGACACTGTACCTCCAGCTGAGCGCCCGCTGGAGGAACTG
AGGCTTCGGCTGGACCAGCTTGGCTGGGCTGTCCGGAGTCCGGGATCTGGGGAGGATTCGCCACCAGCA
GCTCTACCCCGCTGAAAATGAGGAGCCGGATGGATTGGAGGCCAGCGAGGCTGGAGAGACGAATCTGGA
ACTCCGACTTGCTCAGCCTCTACATTTGCAATTTGAGGGCTTGACTCCTCAGCTTAGCCCGAGCTCCGGG
ATTCCCCAGGCGCATACCCCATCCACAGAGATCTCAAGATTTGAACACCGGTCTGATGAGCCGCTGC
CGAATGGGGAAGGAGAACATTGGCGGTGCTGGAGCAGGACCAATCACGGCCAGTGCCTCAATAGCAC
AGACCAATCAGAAATCACGTTGGAGCCGCTCTCTAGTGGCAGACCTGTTGACTGGAAGGACACCAGG
ACGTCCGGGAGCCATCTTACGGGCTCATGGCCTCTCTCCTCTGCCTCTGCCTTTAGCATCGTGTCCG
TGGCTGCGCACCTGGCCCTGCTGGGTCTCTGCGCCACCATCTCTCAGGGTTTACC GCAAAGTGTGCA
GGCCGTGACCCGGGGCGACGGCACCAACCTTTCCAGGCTTACCTGGACATGGACCTGACCTGACTCGG
GAGCAGACAGAACGTTTGTCCAGCAGATTGCCTCCACGTGGTCTCCACGGCCACACAGCTGCGGCATT
TCTTCTCGTAGAAGACCTGGTGGATTCTCAAGCTGGCTTCTCTTCTACATCTTGACCTTCGTGGG
AGCCATCTTTAACGGCTTGACTTGTGATCTTGGGAGTGGTTGCTTTGTTACCGTCCCCCTTGTGAC
AGACAACATCAGGCCAGATTGACCAGTATGTGGGTTGGTGACCAGCCAGTTGAGCCACATCAAAGCTA
AGATCCGAGCTAAGATCCCGGGACCGAACCTTGCCCCAGCAGCATCAGTCTCCGGATCCAAAGCCAA
AGCCGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_201562

Insert Size: 1410 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

RefSeq Size: 1892 bp

RefSeq ORF: 1410 bp

Locus ID: 308410

UniProt ID: [Q6WN19](#)

Cytogenetics: 1q21

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]