

Product datasheet for **MC205806**

Rtn2 (NM_013648) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn2 (NM_013648) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn2
Synonyms:	MMS10-P; Ms10p; Nspl1; NSPLI
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031370
 GCAGAGGGCGGCGGCGGTGGCGGCGGTGGCGGCGGCGGCTGCTAAAGCAGCCCGGGAGGATGGCGGCGGC
 GTCGTCGACGCGGCGGAGATGAGCGCCCGTGGCCCCAGGCCAGGGCGGCGGCGGCGGAGTGGCGGGGG
 TCCCGATGCAGGCCCGAGGGGGGCCATGGGGCAGGTCCTGCCGGTCTTCGCCACTGCAAAGAAGCTCCA
 TCTACAGCCTCTTCTACCCCGATTCCACGGAAGGAGGAATGACGACTCAGATTTTCGGGAGCTGCACA
 CAGCCCCGGAATTCTCAGAGGATGAAGAGGAGGAGACCACATCGCAGGACTGGGGCACCCCCAGGGGACT
 GACCTTTTCTACATTGCCTTCGACGCGGTGGTGGGCTCTGGGGCCGTAGGGACTCAGTTGTTTCGTTCGT
 CCCCAGGGCCAGGGACGTTTCAGTCTCAGAACCAGGGACCCACCCCAACAGTCCGGCCTGGGTGACAGCT
 TGGAAAGCATCCCTAGCCTGAGCCAGTCCCCAGAGCCAGGGCGGCGGTTGACCCGACCCCGTGCCTCC
 AGCTGAGCGCCCGCTGGAGGAAGTGGAGCTGCGGCTGGACCAGCTTGGCTGGGTTGTCCGGAGTGCGGGA
 TCTGGGGAGGATTCGGCCACCAGCAGCTCCACCCTCTGGAAAATGAGGAGCCTGATGGATTGGAGGCCA
 GCGAGGCTGGAGAAGAGACGAATCTGGAATCCGACTTGCTCAGTCTCTACATTTGCAACTTGAGGTCTT
 GACTCCTCAACTAGCCCTAGCTCCGGGACCCCGAGGCGATACTCCATCCCCACAAAGATCTCAAGAT
 TCGAACTCCGGTCTGATGATGAGCCTCTGCTGAATGTGGTAGAAGAGCATTGGCGGCTGCTGGAGCAGG
 AGCCAATCACGGCCAGTGCCTCGATAGCACAGACCAATCAGAATTCATGTTGGAGCCGCTCCTTCTAGT
 GGCAGACCTGTTGACTGGAAGGACACCAGGACGTCGGGAGCGGTCTTACGGGCTCATGGCCTCTCTC
 CTCTGCCTCCTGCACTTTAGCATCGTGTCCGTGGCTGCGCACCTGGCCCTGTTGGGTCTCTGCGCCACCA
 TCTCTCTCAGGGTTTACCGCAAAGTGTGCAGGCGGTGCACCGGGGCGACGGCACCACCCCTTCCAGGC
 CTACCTGGACATGGACCTGACCTGACTCGGGAGCAGACAGAAGTGTCCAGCAGATCGCCTCCAC
 GTGGTCTCCACAGCCACACAGCTACGGCATTCTTCTCTAGTGAAGACCTGGTGGATTCTCTCAAGCTGG
 CTCTTCTCTTCTACATCTTGACCTTTGTGGGAGCCATCTCAACGGCTTGACTCTGTATCCTAGGAGT
 GGTGCTTTGTTTACCGTCCCCCTCTGTACAGACAACATCAGGCCAGATTGACCAGTATGTGGGGTTG
 GTGACCAATCAGTTGAGCCACATCAAAGCTAAGATCCGAGCTAAGATCCCGGGGACCGGAACCCCTTGCCC
 CAACAGCATCAGTCTCCGGATCCAAAGCCAAAGCCGAATGAGAGGGGTGCTTTTGCCCGATGGACGCTG
 CCTATACCCAGCAGCCCTCTTCCCTTCCATTTCCCGTGATCCACACCCTCTCCACTCGGCCGAGCCA
 TTTCCAGTGGGAAGTGCCTGAGCGACCCGACTACATTTCTAAGAGGCTCTGTCTAAGAGTCCAGGA
 AAAGGCCGCGGAGCCTGCTGGGACTTGTAGTTGAATAGTCAGGACGCTGCCCTGCACTTCCGTGACCCAC
 CGCTGGAGGCGCCGTGAGGGTTGGTCTTTTGAAGCCCCACCCCTATGCTGGGGCTTTGCATGGGGC
 CCAGGCGACCCTTGAGCTTGATTTACTGTAAATAAAGAGTCTGTGGAATTTCAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_013648

Insert Size: 1416 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: [BC031370](#), [AAH31370](#)

RefSeq Size: 1999 bp

RefSeq ORF: 1416 bp

Locus ID: 20167

UniProt ID: [O70622](#)

Cytogenetics: 7 9.54 cM

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 (By similarity). 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 (PubMed:19720795).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (B) represents the longer transcript and encodes the longer isoform (B).