

Product datasheet for **MR207524**

Rtn2 (NM_013648) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rtn2 (NM_013648) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rtn2 |
| Synonyms: | MMS10-P; Ms10p; Nspl1; NSPLI |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR207524 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCAGGTCCTGCCGTCTTCGCCACTGCAAAGAAGCTCCATCTACAGCCTTTCTACCCCGATT
 CCACGGAAGGAGGAATGACGACTCAGATTTTCGGGAGCTGCACACAGCCCGGAATTCTCAGAGGATGA
 AGAGGAGGAGACCACATCGCAGGACTGGGGCACCCCAAGGAGCTGACCTTTTCTACATTGCCTTCGAC
 GGCGTGGTGGGCTCTGGGGCCGTAGGGACTCAGTTGTTTCGTCGTCGCCGGCCCAAGGAGCTTCACTCT
 CAGAACCACGGGACCCACCCCAACAGTCCGGCTGGGTGACAGCTTGAAAGCATCCCTAGCCTGAGCCA
 GTCCCCAGAGCCAGGGCCCGCGGTGACCTGACCCCGTCCAGCTGAGCGCCCGCTGGAGGAACTG
 AGGCTGCGGCTGGACCAGCTTGGCTGGTTGTCCGGAGTCCGGGATCTGGGGAGGATTCGCCACCAGCA
 GCTCCACCCCTCTGAAAATGAGGAGCCTGATGGATTGGAGGCCAGCGAGGCTGGAGAAGAGACGAATCT
 GGAATCCGACTTGCTCAGTCTCTACATTTGCAACTTGAGTCTGACTCCTCAACTTAGCCCTAGCTCC
 GGGACCCCAAGGCGCATCTCCATCCCAACAAGATCTCAAGATTCGAACTCCGGTCTGATGATGAGC
 CTCTGCTGAATGTGGTAGAAGAGCATTGGCGGCTGCTGGAGCAGGAGCCAATCACGGCCAGTGCCTCGA
 TAGCACAGACCAATCAGAATTCATGTTGGAGCCGCTCCTTCTAGTGGCAGACCTGTTGACTGGAAGGAC
 ACCAGGACGTCGGGAGCGGTCTTACGGCCCTCATGGCCTCTCTCCTCTGCCTCTGCACCTTAGCATCG
 TGTCCGTGGTGCGCACCTGGCCCTGTTGGGTCTCTGCGCCACCATCTCTCTCAGGGTTTACCGCAAAGT
 GCTGCAGGCCGTGACCCGGGCGACGGCACCAACCCTTCCAGGCCTACCTGGACATGGACCTGACCCTG
 ACTCGGGAGCAGACAGAACGTTTGTCCCAGCAGATCGCCTCCACGTGGTCTCCACAGCCACACAGCTAC
 GGCATTTCTTCTAGTGAAGACCTGGTGGATTCTCAAGCTGGCTCTCTCTTCTACATCTTGGCTT
 TGTGGGAGCCATCTTCAACGGCTTACTCTTGTCTCCTAGGAGTGGTTGCTTTGTTTACCGTCCCCCTT
 CTGTACAGACAACATCAGGCCAGATTGACCAGTATGTGGGGTTGGTGACCAATCAGTTGAGCCACATCA
 AAGCTAAGATCCGAGCTAAGATCCCGGGGACCGGAACCCTTGCCCAACAGCATCAGTCTCCGGATCCAA
 AGCCAAAGCCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207524 protein sequence
 Red=Cloning site Green=Tags(s)

MGQVLPVFAHCKEAPSTASSTPDSTEGNDDSDFRELHTAREFSEDEEEETTSQDWGTPRELTFSYIAFD
 GVVGSGRRRDSVRRRPRPQGRSVSEPRDPPQSGLGDSLESIPSLSQSPEPGRRGDPDPVPPAERPLEEL
 RLRLDQLGWVRSAGSGEDSATSSSTPLENEEPDGLLEASEAGEETNLELRLAQSLHLQLEVLTPQLSPSS
 GTPQAHTPSPQRSQDSNSGPDDEPLLNVEEHWRLLLEQEPITAQCLDSTDQSEFMLEPLLLVADLLYWKD
 TRTSGAVFTGLMASLLCLLHFSIVSVAHLALLGLCATISLRVYRKVLQAVHRGDGTPNFQAYLDMDLTL
 TREQTERLSQQIASHVVSTATQLRHFFLVEDLVDSLKALLFYILTFVGAIFNGLTLVILGVVALFTVPL
 LYRQHQAIQYVGLVTNQLSHIKAKIRAKIPGTGLAPTASVSGSKAKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013648

ORF Size: 1416 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_013648.6](#)

RefSeq Size: 1994 bp

RefSeq ORF: 1416 bp

Locus ID: 20167

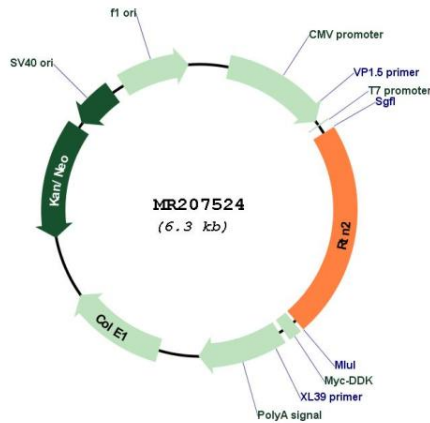
UniProt ID: [O70622](#)

Cytogenetics: 7 9.54 cM

MW: 51.3 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 (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]

Product images:



Circular map for MR207524