

Product datasheet for MC223795

Rtn4 (NM_194054) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4 (NM_194054) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn4
Synonyms:	1110020G17Rik; AA407876; AA409940; AA960376; ASY; C130026I10Rik; mKIAA0886; mKIAA4153; NgA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223795 representing NM_194054 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGAAGACATAGACCAGTCGTCGCTGGTCTCCTCGTCCGCGGATAGCCCGCCCCGGCCCCGCCGCTT
TCAAGTACCAGTTCGTGACGGAGCCCGAGGACGAGGAGGACGAGGAAGACGAGGAGGAGGAGGAGGACGA
CGAGGACCTGGAGGAATTGGAGGTGCTGGAGAGGAAGCCCGCAGCCGGGTGTCCGCGGCTCCGGTGCC
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GCCGCCCCGCTGCCGAGTCCCTGCCCTCCAAGCTCCCGGAGGACGACGAGCCTCCAGCGCGGCTCCGGCG
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AAAACGTCAAATCCTTCTGTAGCAATACATGATTCTGAGGCAGATTATGTCACAACAGATAATTTAT
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TCAGAAGCTATAACAAGAGTCAATTTACCCACAGCACAGCTTTGCCCATCATTTGAGGAAGCTGAAGCAA
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TAAGGGTGTGATCCAAGCTATCCAGAAATCAGATGAAGGCCACCCATTCAGGGCATATTTGGAATCTGAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_194054
- Insert Size:** 3489 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_194054.3](#), [NP_918943.1](#)

RefSeq Size: 6165 bp

RefSeq ORF: 3489 bp

Locus ID: 68585

UniProt ID: [Q99P72](#)

Cytogenetics: 11 A3.3

Gene Summary: Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules. They regulate membrane morphogenesis in the ER by promoting tubular ER production. They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins. However each isoform have specific functions mainly depending on their tissue expression specificities.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.