

## Product datasheet for **MC210754**

### **Rtn4 (NM\_024226) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rtn4 (NM\_024226) 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:** >MC210754 representing NM\_024226  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGATCAGAAGAACGTTGGAAGGACAAGGTTGTTGACCTCCTGTACTGGAGAGACATTAAGAAGA  
CTGGAGTGGTGTGGTGCCAGCTTATTCCTGCTGCTGTCTCTGACAGTGTTCAGCATTGTCAGTGTAAAC  
GGCCTACATTGCCTGGCCCTGCTCTGTGACTATCAGCTTTAGGATATATAAGGGTGTGATCCAAGCT  
ATCCAGAAATCAGATGAAGGCCACCCATTCAGGGCATATTTGGAATCTGAAGTTGCCATATCAGAGGAAT  
TGTTTCAGAAATATAGTAATTCTGCTCTTGTCATGTGAACAGCACAATAAAGAATTGAGGCGTCTCTT  
CTTAGTTGATGATTTAGTTGATTCCTGAAGTTTGCAGTGTGATGTGGGATTTACTTACGTTGGTGCC  
TTGTTCAATGGTTTGACACTACTGATTTTACTGCTGATCTCACTCTTCAGTATTCCTGTTATATATGAAC  
GGCATCAGGCGCAGATAGATCATTATCTAGGACTTGCAAACAAGAGCGTTAAGGATGCCATGGCCAAAAT  
CCAAGCAAAAATCCCTGGATTGAAGCGCAAAGCAGAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_024226  
**Insert Size:** 600 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024226.4</a> , <a href="#">NP_077188.1</a>
<b>RefSeq Size:</b>	3271 bp
<b>RefSeq ORF:</b>	600 bp
<b>Locus ID:</b>	68585
<b>UniProt ID:</b>	<a href="#">Q99P72</a>
<b>Cytogenetics:</b>	11 A3.3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) uses a different segment for its 5' end, compared to variant 1. The resulting protein (isoform C) has a shorter and distinct N-terminus when it is compared to isoform A.</p>