

Product datasheet for **MR207179**

Rmnd1 (NM_025343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Rmnd1
Synonyms:	0610042C05Rik; AA408137; AI462664; AW536662
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR207179 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCATCCAGGCTTCTCCACACCCTGGCAAGTTTACACAGCATATCAGCAAAGGCTCATCAGTGCCAGA
 GACTTACTTGGCTTACATTAAGACCACTTAGGAAATCTGAAAGTACAACATGCCACAATGGCCTGACAAT
 ACAGCAACATTTACACTCATTCTTTCCAAGTATAACAGCTGACAGTTTGAATAAGCCAGAGCGGCTGGAA
 ATGAGCCGGGTAAACATGGGACACAAGCAGACTCTTCCGTTAAATGCTGTCCATTGGTTGGACGGCAAAG
 AACACTGGCCAAGCATGACCCCTTTGGGACTCACAGGAGCATGACCCACAAACCAATCTCTTGTGTTT
 TAAGTGGTTTATAAAAGCAGTAAAGAGGCATCACTCAACTGTATCAAATGAAGCACTTGTTCCCAACAA
 GACCTTCCGCAGATCAAGAGGCCGCTGAAAGCATCCCGACCCGGCAGCCATCCAGGACCAACCTTCCAG
 ATCTGTCTGTGAATGAGGACCTGATGCAGTGCACAGCATTTGCAACCGCAGATGAGTATCACCTGGGAAG
 TCTGTCTCAAGAGCTGGTCTCTGTGGCTATGTGGAAGTGACAAGCCTGCCTAGAGATGCAGCAATATT
 TTGGTGATGGGTGTGGAAGTTCTGCAAAAGAAGGTGATCCCGAAACAATATTCTTGTTGAGGGAAGGAG
 CTGCTGTGTTCTGGAATGTAAAGAAAAAACTATGAAGCACGTGATGCAAGTTCTAGAGAGACACGAAAC
 CCAGCCCTATGAGGTGGCTCTCGTTCACTGGGAGAACAAGAACTCAACTACATAAAGACAGAGGGACAA
 TCAAACTGCACAGAGGGGAAATCAAGCTAAACTCTGAGCTGGACTTGGATGACGCCATTCTAGAGAAAT
 TTGCGTTCTCCAACGCTCTCTGCCTCTCAGTGAAGCTGGCTATTTGGGAAGCAACCTGGACAAATTTAT
 TGAGTCTATTCACTCCATTCCAGAGCATTAAAGCTGGGAAGAAAGTCAAACTGTCTCATAAAGAGTT
 ATGCAGAAATGGGTGAGCTCTTTGCCCTCAGGCACCGAATAAACCTGAGCTCAGATTTCTTGATCACCC
 CTGACTTCTACTGGGACAGAGCAACCTGGAAGAGCTTTATGACAAGACCTGCCAGTTCCTTAGCATCAC
 GCGAAGAGTTAAGGTGATGAATGAAAAACTGCAGCACTGCATGGAATAACAGACCTAATGCGGAATCAC
 CTCAATGAGAAGCGAGCACTCCGCTTGGAGTGGATGATCGTCATCCTCATCACCATTGAGGTAATGTTTG
 AGCTGGGGAGAGTCTTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR207179 protein sequence
 Red=Cloning site Green=Tags(s)

MPSRLHLTLASLHSISAKAHQCQRLTWLTLRPLRKSESTTCHNGLTIQQHLHSFFPSITADSLNKPRL
 MSRVTWDSRLFPLNAVHWDGKEHWPSMHPFGTHRSMTKPNLLCSKWFIAKVKRHHSTVSNEALVPKQ
 DLPQIKRPLKASRTRQPSRTNLPDLVNEEDLMQCTAFATADEYHLGSLSQELVSCGYVEVTSRPRDAANI
 LVMGVESAKEGDPGTIFLFREGAAVFWNVKEKTMKHVMQVLERHETQPYEVALVHWENEELNYIKTEGQ
 SKLHRGEIKLNSDLDDAILEKFAFSNALCLSVKLAIWEATLDKFIESIQSIPALKAGKKVKLSHKEV
 MQKMGELFALRHRINLSSDFLITPDFYWDANLEELYDKTCQFLSITRRVKVMNEKLQHCMEITDLMRNH
 LNEKRALRLEWMIVILITIEVMFELGRVFF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025343

ORF Size: 1350 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025343.1](#), [NM_025343.2](#), [NM_025343.3](#), [NM_025343.4](#), [NM_025343.5](#), [NP_079619.4](#)

RefSeq Size: 1849 bp

RefSeq ORF: 1353 bp

Locus ID: 66084

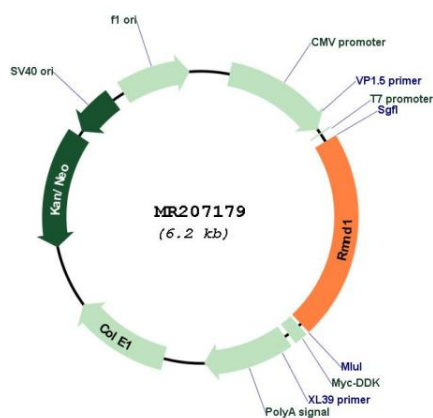
UniProt ID: [Q8CI78](#)

Cytogenetics: 10 A1

MW: 52 kDa

Gene Summary: Required for mitochondrial translation, possibly by coordinating the assembly or maintenance of the mitochondrial ribosome.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207179