

Product datasheet for **RR211438**

Rmdn3 (NM_001014046) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rmdn3 (NM_001014046) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rmdn3
Synonyms:	Fam82a2; Fam82c; Ptpip51; RGD1308697; Rmd-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR211438 representing NM_001014046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTAGACTGGGGCCCTGGGCGGCTCCCGCGCCGGTTGGGACTGTTACTTGGTACTGCCCGCCGCC
 TGGGATTCCTGTGTCTCTACAGTCAACGATGGAAACGGACCCAACGCCATGGCCGGAGCCAGAGTCT
 GCCCAACTCCCTGGACTATGCGCAGACTTCAGAGCGTGGACGCCAGGTGACACAGTTGCGGGCTATCCCA
 GGTGAAGCTGGAGATGCTGCCATGCTGTCCAGCCTCCCACAAGAAGGACAGGAGAAGGTGCTGGACCGCC
 TGGACTTTGTGCTGACCAGTCTTATGGCACTGCGACGGGAGGTAGAGGAGCTTCAGAGAAGCCTGCAAGG
 CCTGGCTGGGGAGATTGTCGGGGAGGTTTCGATCTCATATGGAGGAGAACCAGAGAGTGGCTCGGCGGCGC
 AGGTTCCCTTTTCCAGGGAGAGGAGTACTCCACTGGCTCCAGTCCGTGTATTTACCAGCCTCCTCAG
 GGGCTACACTCACAGATCGGAGAGTGAAGGAGGTTATACGACAGCCAATGCAGAATCTGACTATGAGCG
 GGACTCTGACAAGGAGAGTGAAGGATGCTGAAGTGAAGTAACTGTGAGACCGTGAAGATGGGGAGGAAG
 GATTCTCTGGACCTTGATATGGAGGTAGCTTCAAGTCCCAGCTGCTGCTGCCTGGAGGATGACTCCT
 CAGGCTTGAGGATGTGCAGTTGCTCCTGCAGCAGGCGGATGAGCTGCACCAGGGCAGTGAGCAGAACAA
 GCAGGAAGGTTTCCAGCTGCTGCTCAACAATAAGCTGGCGTATGGGAGCCGACAAGACTTCTGTGGCGC
 CTGGCCCGGGCCTACAGTGACATGACTGAGCTTACTGAGGAGGAGAGCGAGAAGAAGTCATATGCCCTAA
 ATGGAAAAGAAGAAGCAGAGGCTGCTCTGAAGAAAGGAGATGAGAGTGTGCAAGCCACCTGTGGTATGC
 AGTGCTTTGTGGTCAGCTGGCTGAGCATGAGGGCATCTCGAAGCGTATCCAGAGTGGCTTACGTTCAAG
 GAACATGTGGACAAGCCATTGAACTTCAGCCAGAAGACCCAGGGGTCACTTTCTTCTTGGCAGGTGGT
 GCTACCAGTTCATTTGAGCTGGTTGGAGAAAAAACAGCTACAGCCTTGTTTGAAAGCCCCCTTAG
 TGCCACTGTGCAGGATGCCCTGCAGAGCTTCTCAAGGCTGAGGAGCTTCAGCCAGGGTTTTCAAAGCT
 GGACGGGTATATATTTCTAAGTGTATAGAGAATTAGGAAAAACTCTGAAGCTAGAAAAGTGGCTGAATT
 TGGCTCAGGAGCTGCCAACATCACTAATGAGGATTCAGCTTTCCAAAAAGACTGGAAGAACTGGAAGT
 AATTTTAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211438 representing NM_001014046
 Red=Cloning site Green=Tags(s)

MSRLGALGGSRAGLGLLLGTAAGLGFCLVLYSQRWKRTQRHGRSQSLPNSLDYAQTSERGRQVTQLRAIP
 GEAGDAAMLSSLPQEQEKVLDRLDFVLTSLMALRREVEELQRSLQGLAGEIVGEVRSHEENQVARRR
 RFPFARERSDSTGSSSVYFTASSGATLDAESEGGYTTANAESDYERDSKESDAEDEVSCETVKMGRK
 DSLDLDMEVASSPASAALDDSSGLEDVQLLLQQADELHQGSEQNKQEGFQLLLNNKLAYGSRQDFLWR
 LARAYSDMTELTEESEKKSALNGKEEAALKKGDESAASHLWYAVLCGQLAEHEGISKRIQSGFSFK
 EHVDKAIELQPEDPRGHFLLGRWCYQVSHLSWLEKKTATALFESPLSATVQDALQSFLKAEELQPGFSKA
 GRVYISKCYRELKGNSEARKWLNLAQELPNITNEDSAFQKDLEELLEVILGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

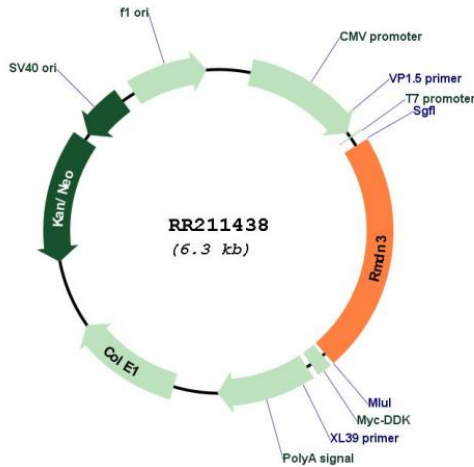
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001014046

ORF Size:

1413 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_001014046.2](#), [NP_001014068.1](#)

RefSeq Size: 2195 bp

RefSeq ORF: 1416 bp

Locus ID: 311328

UniProt ID: [Q66H15](#)

Cytogenetics: 3q35

MW: 52.3 kDa

Gene Summary: Involved in cellular calcium homeostasis regulation (By similarity). May participate in differentiation and apoptosis of keratinocytes. Overexpression induces apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]