

Product datasheet for **MR223214**

Rmdn3 (NM_001033136) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rmdn3 (NM_001033136) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rmdn3
Synonyms:	1200015F23Rik; AI131757; Fam82a2; Ptpip51; RMD-3; Rmd3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223214 representing NM_001033136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTAGACTGGGGCCCTGGGCGGCTCCCGCGCCGGTTGGGACTGTTACTTGGTACTGCCGCCGGCC
 TTGGATTCTGTGCGTCCTTTACAGCCAGCGATGGAAACGGACCCAGCGCATGGCCGGAGTCACAGTCT
 GCCCAACTCCCTGGACTATGCGCAGGCTTCAGAGCGTGGACGCCAGGTGACACAGTTTCGGGCTATCCCA
 GGTGAAGCTGGAGATGCTGCCATACTGCCAGCCTCTCACAGGAAGGGCAGGAGAAGGTGCTGGACCGCC
 TGGACTTTGTGCTGACCAGTCTTATGGCGCTGCGGCGGAGGTGGAGGAGCTTCAGAGAAGCCTGCAAGG
 ACTAGCTGGGGAGATTGTTGGGGAGTCCGCTCTCATATAAGAAGAGAACCAGAGAGTGGCCCGCGGCGC
 AGGTTCCCTTTTCCAGAGAGAGGAGTACTCCACGGGCTCCAGCTCTGTCTACTTCACCGCTCCTCAG
 GGGCTGCACTCACAGACCGGAGAGCGAGGGAGGTTATAACAACGCCAACCGGGAGTCTGATTACGAGCG
 GGACTCCGACAAGGAGAGTGGAGATGCTGAGGACGAAGTGAAGTCTGCGAGACCGTGAAGGATGGGGAGGAAG
 GACTCTCTGGACCTGGATGTGGAGGCGCGTCCAGTCCGCGGCGGCCCGCTTGGAGGAGGATGACTCCT
 CAGGCCGAGAGGATGTGCAGCTGGTCTGCTGCAGGCCGATGAGCTGCACCAGGGCAGCAAGCAGGACAA
 GCGGGAAGGCTTCCAGCTGCTGCTCAACAATAAGCTGGCGTATGGAAGCCGACAAGACTTCTGTGGCGC
 CTGGCCCGGGCTACAGTGACATGTGACACCTTACTGAGGAGGAGAGCGGGAAGAAGTCCTATGCCCTAA
 ATGGAAAAGAAGAAGCAGAGGCTGCTCTGAAGAAAGGAGATGAGAGTGTGCGTGCCACCTGTGGTATGC
 AGTGCTCTGTGGTCACTGGCTGAGCATGAGGGCATCTCGAAACGCATCCAGAGTGGCTTACGTTCAAG
 GAACATGTGGACAAGCCATTGAACTTCAGCCAGAAGACCCAGGGTCACTTTCTTCTTGGCAGGTGGT
 GCTACCAGGTTTCTCACTTGAAGTGGTTGGAAAAAAGCGCTACCGCTTGTGTTGAAAGCCCTTAG
 TGCTACTGTGCAGGACGCTCTGCAGAGTTTCTTAAGGCTGAGGAACACTACAGCCAGGATTTTCAAAGCT
 GGACGGGTATATATTTCTAAGTGTATAGAGAATTAGGAAAAACTCTGAAGCTAGAAAAGTGGATGAAGC
 TGGCTCAGGAACTGCCAGACGCTACTAATGAGGATTCAGCTTTCCAAAAAGACTGGAAGAACTAGAAGT
 AATTTTAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223214 representing NM_001033136
 Red=Cloning site Green=Tags(s)

MSRLGALGGSRAGLGLLLGTAAGLGFCLVLYSQRWKRTRHRGRSHSLPNSLDYAQASERGRQVTQFRAIP
 GEAGDAAILPSLSQEGQEKVLDRLDFVLTSLMALRREVEELQRSLQGLAGEIVGEVRSHIEENQRVARRR
 RFPFARERSDSTGSSSVYFTASSGAALTDAESEGGYTTANAESDYERDSDKESGDAEDEVSCETVRMGRK
 DSLDLDVEAASSPAAAALEEDSSGREVDQLVLLQADELHQGSKQDKREGFQLLLNKNLAYGSRQDFLWR
 LARAYSDMSDLTEESGKKSALNGKEEAALKKGDESAACHLWYAVLCGQLAEHEGISKRIQSGFSFK
 EHVDKAIELQPEDPRGHFLLGRWCYQVSHLNWLEKKTATALFESPLSATVQDALQSFLKAEELQPGFSKA
 GRVYISKCYRELGNSEARKWMKLAQELPDVTNEDSAFQKDLLEELEVLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_b06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033136

ORF Size: 1410 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_001033136.3](#), [NP_001028308.1](#)
RefSeq Size: 2252 bp

RefSeq ORF: 1413 bp

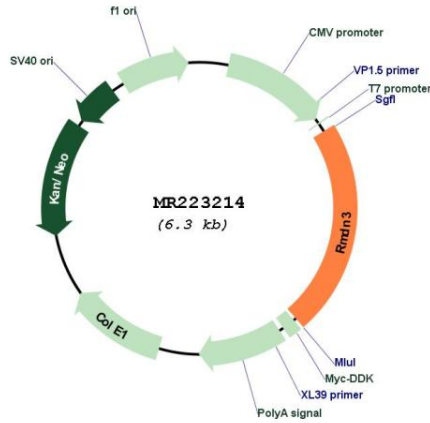
Locus ID: 67809

UniProt ID: [Q3UJU9](#)
Cytogenetics: 2 E5

MW: 52.5 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]

Product images:



Circular map for MR223214