

Product datasheet for **MG223214**

Rmdn3 (NM_001033136) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rmdn3 (NM_001033136) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rmdn3
Synonyms:	1200015F23Rik; AI131757; Fam82a2; Ptpip51; RMD-3; Rmd3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223214 representing NM_001033136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTAGACTGGGGCCCTGGGCGGCTCCCGCGCCGGTTGGGACTGTTACTTGGTACTGCCCGCCGCC
 TTGGATTCTGTGCGTCCTTTACAGCCAGCGATGGAAACGGACCCAGCGCATGGCCGGAGTCACAGTCT
 GCCCAACTCCCTGGACTATGCGCAGGCTTCAGAGCGTGGACGCCAGGTGACACAGTTTCGGGCTATCCCA
 GGTGAAGCTGGAGATGCTGCCATACTGCCAGCCTCTCACAGGAAGGGCAGGAGAAGGTGCTGGACCGCC
 TGGACTTTGTGCTGACCAGTCTTATGGCGCTGCGGCGGAGGTGGAGGAGCTTCAGAGAAGCCTGCAAGG
 ACTAGCTGGGGAGATTGTTGGGGAGTCCGCTCTCATATAGAAGAGAACCAGAGAGTGGCCCGCGGCGC
 AGGTTCCCTTTTCCAGAGAGAGGAGTACTCCACGGGCTCCAGCTCTGTCTACTTCACCGCTCCTCAG
 GGGCTGCACTCACAGACCGGAGAGCGAGGGAGGTTATACAACAGCCAACCGGGAGTCTGATTACGAGCG
 GGACTCCGACAAGGAGATGGAGATGCTGAGGACGAAGTGAAGTCTGCGAGACCGTGAAGGATGGGGAGGAAG
 GACTCTCTGGACCTGGATGTGGAGGCGCGTCCAGTCCGGCGGCGGCCCTTGGAGGAGGATGACTCCT
 CAGGCCGAGAGGATGTGCAGCTGGTCTGCTGCAGGCCGATGAGCTGCACCAGGGCAGCAAGCAGGACAA
 GCGGGAAGGCTTCCAGCTGCTGCTCAACAATAAGCTGGCGTATGGAAGCCGACAAGACTTCTGTGGCGC
 CTGGCCCGGGCTACAGTGACATGTGACACCTTACTGAGGAGGAGAGCGGGAAGAAGTCCTATGCCCTAA
 ATGGAAAAGAAGAAGCAGAGGCTGCTCTGAAGAAAGGAGATGAGAGTGTGCGTCCACCTGTGGTATGC
 AGTGTCTGTGGTCACTGGCTGAGCATGAGGGCATCTCGAAACGCATCCAGAGTGGCTTACGTTCAAG
 GAACATGTGGACAAGCCATTGAACTTCAGCCAGAAGACCCAGGGTCACTTCTTCTTGGCAGGTGGT
 GCTACCAGGTTTCTCACTTGAAGTGGTTGGAAAAAACGGCTACCGCTTGTGTTGAAAGCCCTTAG
 TGCTACTGTGCAGGACGCTCTGCAGAGTTTCTTAAGGCTGAGGAACACTACAGCCAGGATTTTCAAAAGCT
 GGACGGGTATATATTTCTAAGTGTATAGAGAATTAGGAAAAACTCTGAAGCTAGAAAAGTGGATGAAGC
 TGGCTCAGGAACTGCCAGACGCTACTAATGAGGATTCAGCTTTCAAAAAGACTGGAAGAACTAGAAGT
 AATTTTAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223214 representing NM_001033136
 Red=Cloning site Green=Tags(s)

MSRLGALGGSRAGLGLLLGTAAGLGFCLVLYSQRWKRTQRHGRSHSLPNSLDYAQASERGRQVTQFRAIP
 GEAGDAAILPSLSQEGQEKVLDRLDFVLTSLMALRREVEELQRSLQGLAGEIVGEVRSHIEENQVARRR
 RFPFARERSDSTGSSSVYFTASSGAALTDAESEGGYTTANAESDYERDSDKESGDAEDEVSCETVRMGRK
 DSLDLDVEAASSPAAAALEEDSSGREDVQLVLLQADELHQGSKQDKREGFQLLLNNKLAYGSRQDFLWR
 LARAYSDMSDLTEESGKKSALNGKEEAALKKGDESAACHLWYAVLCGQLAEHEGISKRIQSGFSFK
 EHVDKAIELQPEDPRGHFLLGRWCYQVSHLNLWLEKKTATALFESPLSATVQDALQSFLKAEELQPGFSKA
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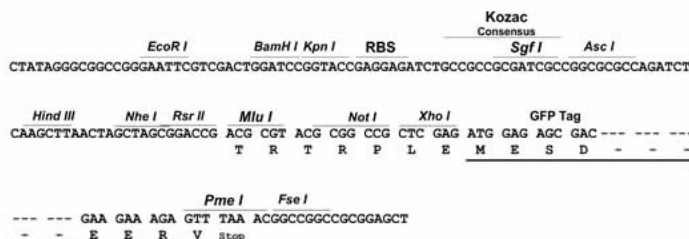
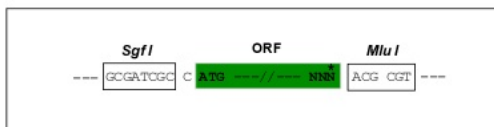
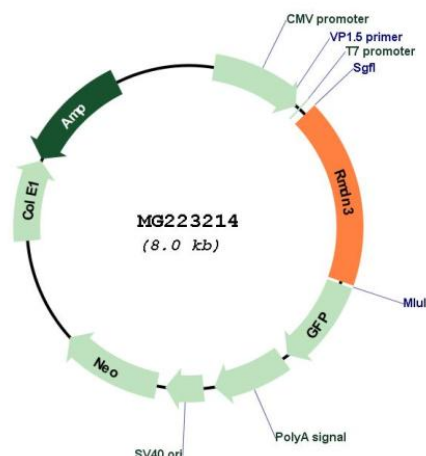
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

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

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]