

Product datasheet for **RC209526**

FAM82A2 (RMDN3) (NM_018145) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM82A2 (RMDN3) (NM_018145) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM82A2
Synonyms:	FAM82A2; FAM82C; 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:

>RC209526 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTAGACTGGGAGCCCTGGGTGGTGCCCGTGCCGGGTGGGACTGTTGCTGGGTACCGCCCGCCGCC
 TTGGATTCCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCCAGCGTCATGGCCGACCCAGAGCCT
 GCCCAACTCCCTGGACTATACGCAGACTTCAGATCCCAGGACGCCACGTGATGCTCCTGCGGGCTGTCCCA
 GGTGGGGCTGGAGATGCCTCAGTGTGCCAGCCTCCACGGGAAGGACAGGAGAAGGTGCTGGACCGCC
 TGGACTTTGTGCTGACCAGCCTTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCAGCCTGCGAGG
 GCTTGGCGGGGAGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGCGGCGA
 AGGTTTCCGTTTCCGGGAGAGGAGTACTCCACTGGCTCCAGCTCTGTCTACTTCACGGCCTCCTCGG
 GAGCCACGTTACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAATGCGGAGTCTGACAATGAGCG
 GGACTCTGACAAAGAAAGTGAGGACGGGAAGATGAAGTGAAGTGTGAGACTGTGAAGATGGGGAGAAAG
 GATTCTCTTGACTTGGAGGAAGAGGCAGCTTCAGGTGCCCTCCAGTGCCTGGAGGCTGGAGGTTCTCAG
 GCTTGGAGGATGTGCTGCCCCCTCTGCAGCAGGCCGACGAGCTGCACAGGGGTGATGAGCAAGGCAAGCG
 GGAGGGCTTCCAGCTGCTGCTCAACAACAAGCTGGTGTATGGAAGCCGGCAGGACTTTCTCTGGCGCCTG
 GCCCGAGCCTACAGTGACATGTGTGAGCTCACTGAGGAGGTGAGCGAGAAGAAGTCATATGCCCTAGATG
 GAAAAGAAGAAGCAGAGGCTGCTCTGGAGAAGGGGGATGAGAGTGTGACTGTACCTGTGGTATGCGGT
 GCTTTGTGGTCACTGGCTGAGCATGAGAGCATCCAGAGGCGCATCCAGAGTGGCTTTAGCTTCAAGGAG
 CATGTGGACAAAGCCATTGCTCTCCAGCCAGAAAAACCCATGGCTCACTTTCTTCTTGGCAGGTGGTGT
 ATCAGTCTCTCACCTGAGCTGGCTAGAAAAAACTGCTACAGCCTTGCTTGAAGCCCTCTCAGTGC
 CACTGTGGAAGATGCCCTCCAGAGCTTCTAAAGGCTGAAGAACTACAGCCAGGATTTTCCAAGCAGGA
 AGGGTATATATTTCCAAGTGTACAGAGAACTAGGAAAAAATCTGAAGCTAGATGGTGGATGAAGTTGG
 CCCTGGAGCTGCCAGATGTCACGAAGGAGGATTTGGCTATCCAGAAGGACCTGGAAGAAGTGAAGTCAT
 TTTACGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209526 protein sequence
 Red=Cloning site Green=Tags(s)

MSRLGALGGARAGLGLLLGTAAGLGFLCLLYSQRWKRTRHRGRSQSLPNSLDYQTSDPGRHVMLLRVAP
 GGAGDASVLPSPREGQEKVLDRLDFVLTSLVALRREVEELRSSLRGLAGEIVGEVRCHMEENQRVARRR
 RFPFVRERSDSTGSSSVYFTASSGATFTDAESEGGYTTANAESDNERDSKEDSEDEVEVSCETVKMGRK
 DSLDLEEEAASGASSALEAGSSGLEVDLPLLLQQADELHRGDEQKREGFQLLLNNKLVYGSRQDFLWRL
 ARAYSDMCELTEEVSEKSYALDGKEEAEALEKGDSEADCHLWYAVLCGQLAEHESIQRRIQSGFSFKE
 HVDKAIALQPENMAHFLLGRWCYQVSHLSWLEKKTATALLESPLSATVEDALQSFLKAEELQPGFSKAG
 RYVYISKCYRELGNSEARWMMKLALELPDVTKEDLAIQKDLLEELEVILRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6527_c03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_018145

ORF Size: 1410 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

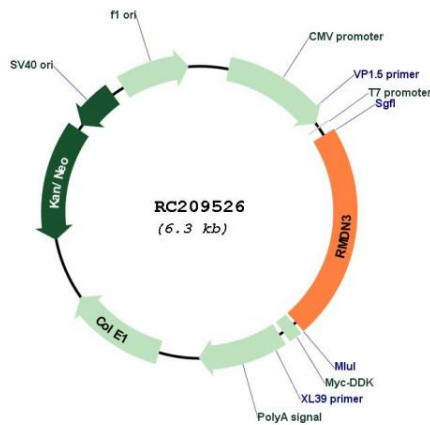
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018145.3](#)
RefSeq Size: 2251 bp
RefSeq ORF: 1413 bp
Locus ID: 55177
UniProt ID: [Q96TC7](#)
Cytogenetics: 15q15.1
Protein Families: Transmembrane
MW: 52.1 kDa
Gene Summary: Involved in cellular calcium homeostasis regulation. May participate in differentiation and apoptosis of keratinocytes. Overexpression induces apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209526