

## Product datasheet for **SC322724**

### **FAM82A2 (RMDN3) (NM\_018145) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM82A2 (RMDN3) (NM_018145) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM82A2
Synonyms:	FAM82A2; FAM82C; ptpip51; RMD-3; RMD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322724  
 CTGCTGCCATGGTGGCTGGCGGCCGGTAAGGGTCTGAGTGGATCTCCTGCCAGGCCAGA  
 GCGCCTTCGGGGGCCGGCGGGAAGGCCAGGAGTTTGCAGCCAGGGCGCCGGTTTGTGG  
 TCTGCAGTGTCTGAGGCTGAGGTGCAGCATGTCTAGACTGGGAGCCCTGGTGGTGCC  
 GTGCCGGGCTGGGACTGTTGCTGGTACCGCCCGCCGCTTGGATTCTGTGCCTCCTTT  
 ACAGCCAGCGATGAAACGGACCCAGCGTCATGGCCGACCCAGAGCCTGCCAACCTCC  
 TGGATATACGCAGACTTCAGATCCCGGACCCACGTGATGCTCCTGCGGGCTGTCCAG  
 GTGGGGCTGGAGATGCCTCAGTGTGCCAGCCTTCCACGGGAAGGACAGGAGAAGGTGC  
 TGGACCGCTGGACTTTGTGCTGACCAGCCTTGTGGCGCTGCGGCGGGAGGTGGAGGAGC  
 TGAGAAGCAGCCTGCGAGGGCTTGGGGGAGATTGTTGGGGAGGTCCGATGCCACATGG  
 AAGAGAACCAGAGAGTGGCTCGGCGGCAAGGTTTCCGTTTGTCCGGGAGAGGAGTGACT  
 CCACTGGCTCCAGCTCTGTCTACTTCACGGCCTCCTCGGGAGCCACGTTTACAGATGCTG  
 AGAGTGAAGGGGTTACACAACAGCCAATGCGGAGTCTGACAATGAGCGGGACTCTGACA  
 AAGAAAGTGAAGCGGGGAAGATGAAGTGAAGTGTGAGACTGTGAAGATGGGAGAAAGG  
 ATTCTCTTGACTTGGAGGAAGAGGCAGCTTCAGGTGCCTCCAGTGCCTGGAGGCTGGAG  
 GTTCTCAGGCTTGGAGGATGTGCTGCCCTCCTGCAGCAGGCCGACGAGCTGCACAGGG  
 GTGATGAGCAAGCAAGCGGGGAGGGCTTCCAGTGTGCTCAACAACAAGCTGGTGTATG  
 GAAGCCGGCAGGACTTTCTTGGCGCCTGGCCGAGCCTACAGTGACATGTGTGAGCTCA  
 CTGAGGAGGTGAGCGAGAAGAAGTCATATGCCCTAGATGGAAAAGAAGAAGCAGAGGCTG  
 CTCTGGAGAAGGGGATGAGAGTGTGACTGTACCTGTGGTATGCGGTGCTTTGTGGTC  
 AGCTGGCTGAGCATGAGAGCATCCAGAGGCGCATCCAGAGTGGCTTTAGCTTCAAGGAGC  
 ATGTGGACAAAGCCATTGCTCTCCAGCCAGAAAACCCATGGCTCACTTTCTTCTTGCA  
 GGTGGTCTATCAGTCTCTCACCTGAGCTGGCTAGAAAAAAAAAACTGCTACAGCCTTGC  
 TTGAAAGCCCTCTCAGTGCCACTGTGGAAGATGCCCTCCAGAGCTTCTAAAGGCTGAAG  
 AACTACAGCCAGGATTTTCAAAGCAGGAAGGGTATATATTTCAAAGTGTACAGAGAAC  
 TAGGGAAAACTCTGAAGCTAGATGGTGGATGAAGTTGGCCCTGGAGCTGCCAGATGTCA  
 CGAAGGAGGATTTGGCTATCCAGAAGGACCTGGAAGAAGTGAAGTCAATTTACGAGACT  
 AACCCAGTTTCACTGGCCTTCATGACTTGTGACTATTTAAGGTGGGGGGCGGGGAG  
 GCTTTTTTCTTAGACCTTGCTGAGATCAGGAAACCACACAAATCTGTCTCCTGGTCTG  
 ACTGCTACCCACTACCACTCCCCATTAGTTAATTTATTCTAACCTCTAACCTAATCTAGA  
 ATTGGGCAGTACTCATGGCTTCCGTTTCTGTTGTTCTCTCCCTTGAGTAATCTCTTAAA  
 AAAATCAAGATTCACACCTGCCCCAGGATTACACATGGGTAGAGCCTGCAAGACCTGAGA  
 CCTTCAAATTGCTGGTGAAGTGGATGAAGTCAAAGCTATAGGAACAAAGCACATAAATT  
 GTCACCTTAATCTTTTCACTGACTAATAGGACTCAGTACATATAGTCTTAAGATCATAC  
 CTTACCTACCAAGGTAAGAGAGGGATCAGAGTGGCCACAGACATTGCTTTCTTATCAC  
 CTATCATGTGAATTCTACCTGTATTCTGGGCTGGACCACTTGATAAATTCCAGTGTCT  
 GGCAGCTTTTGAATGACAGCAGTGGTATGGGGTTTATGATGCTATAAAACAATGTCTGA  
 AAAGTTGCCTAGAATATATTTGTTACAAAATTGAAATAAACCAAAATTTGATGTTAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_018145

**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_018145.1](#), [NP\\_060615.1](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 55177

**UniProt ID:** [Q96TC7](#)

**Cytogenetics:** 15q15.1

**Protein Families:** Transmembrane

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

Transcript Variant: This variant (1) represents transcript variant 1. Variants 1 and 2 encode the same protein.