

Product datasheet for **SC113705**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113705 sequence for NM_018145 edited (data generated by NextGen Sequencing)

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ATGTCTAGACTGGGAGCCCTGGGTGGTGCCCGTGCCGGGCTGGGACTGTTGCTGGGTACC
GCCGCCGGCCTTGGATTCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCCAGCGT
CATGGCCGAGCCAGAGCCTGCCAACTCCCTGGACTATACGCAGACTTCAGATCCCGGA
CGCCACGTGATGCTCCTGCGGGCTGTCCAGGTGGGGCTGGAGATGCCTCAGTGTGCC
AGCCTTCCACGGGAAGGACAGGAGAAGGTGCTGGACCCCTGGACTTTGTGCTGACCAGC
CTTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCAGCCTGCGAGGGCTTGCGGGG
GAGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGCGGCGA
AGGTTTCCGTTTGTCCGGGAGAGGAGTGACTCCACTGGCTCCAGCTCTGTCTACTTCACG
GCCTCCTCGGGAGCCACGTTTACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAAT
GCGGAGTCTGACAATGAGCGGGACTCTGACAAAGAAAGTGAAGACGGGGAAGATGAAGTG
AGCTGTGAGACTGTGAAGATGGGGAGAAAGGATTCTTTGACTTGGAGGAAGAGGCAGCT
TCAGGTGCCTCCAGTGCCTGGAGGCTGGAGGTTCTCAGGCTTGGAGGATGTGCTGCC
CTCCTGCAGCAGGCCGACGAGCTGCACAGGGGTGATGAGCAAGGCAAGCGGGAGGGCTTC
CAGCTGTGCTCAACAACAAGCTGGTGTATGGAAGCCGGCAGGACTTTCTCTGGCCCTG
GCCCGAGCCTACAGTGACATGTGTGAGCTCACTGAGGAGGTGAGCGAGAAGAAGTCATAT
GCCCTAGATGGAAAAGAAGAAGCAGAGGCTGCTCTGGAGAAGGGGGATGAGAGTGTGAC
TGTACCTGTGGTATGCGGTGCTTTGTGGTCAGCTGGCTGAGCATGAGAGCATCCAGAGG
CGCATCCAGAGTGGCTTAGCTTCAAGGAGCATGTGGACAAAGCCATTGCTCTCCAGCCA
GAAAACCCCATGGCTCACTTTCTTTGGCAGGTGGTGTATCAGGTCTCTCACCTGAGC
TGGCTAGAAAAAAAAGTCTACAGCCTTGCTTAAAGCCCTCTCAGTCCACTGTGGAA
GATGCCCTCCAGAGCTTCTAAAGGCTGAAGAACTACAGCCAGGATTTTCCAAAGCAGGA
AGGGTATATATTTCCAAGTGTACAGAGAAGTGGGAAAAAAGTCTGAAGCTAGATGGTGG
ATGAAGTTGGCCCTGGAGCTGCCAGATGTACGAAGGAGGATTTGGCTATCCAGAAGGAC
CTGGAAGAAGTGAAGTCATTTTACGAGACTAA
    
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Clone variation with respect to NM_018145.1

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_018145 unedited
GGTTCACATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGGGCCGGGTAA
GGGTCTGAGTGGATCTCCTGCCAGGCCAGAGCGCCTTCGGGGGCCGCGGCGGAAGGCCAG
GAGTTTGACGCCAGGGCGCCGGGTTTGTGGTCTGCAGTGTGCTGAGGCTGAGGTGCAGCA
TGTCTAGACTGGGAGCCCTGGGTGGTGCCCGTGCCGGGCTGGGACTGTTGCTGGGTACCG
CCGCCGGCCTTGGATTCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCCAGCGTC
ATGGCCGAGCCAGAGCCTGCCAACTCCCTGGACTATACGCAGACTTCAGATCCCGGAC
GCCACGTGATGCTCCTGCGGGCTGTCCAGGTGGGGCTGGAGATGCCTCAGTGTGCCCA
GCCTTCCACGGGAAGGACAGGAGAAGGTGCTGGACCGCCTGGACTTTGTGCTGACCAGCC
TTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCAGCCTGCGAGGGCTTGCGGGGG
AGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGCGGCGAA
GGTTTCCGTTTGTCCGGGAGAGGAGTGACTCCACTGGCTCCAGCTCTGTCTACTTCACGG
CCTCCTCGGGAGCCAGTTCACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAATG
CGGAGTCTGACAATGAGCGGGACTCTGACAAAGAAAGTGAAGACGGGGAAGATGAAGTGAG
CTGTGAGACTGTGAAGATGGNGAGAAAGGATTCTTTGACTTGGNAGAAGAAGCAGCTTC
AGGTGCCTCCAGTGCCTGGAGCCTGGAGTTCTCANNGCTGNAGATGTGCTGNNNCCTC
TGCAGCAGGCCGACGAGCTGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018145 unedited CTATGGACCGCGGCCGTCATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAAACATCAAA TTTGGTTTATTTCAAGTTTGTAAACAAAATATATTCTAGGCAACTTTTCAGACATTGTTTT ATAGCATCATAAACCCCATACCACTGCTGTCATTCCAAAAGCTGCCAGGACACTGGAAGT TATCAAGTGGTCCAGCCCAGGAATACAGGTAGAATTCACATGATAGGTGATAAGAAAGCA ATGTCTGTGGGCCACTCTGATCCCTCTTTTACCTTGGTAGGTAAGGTATGATCTTAAGA CTATATGTAAGTCTATTAGTCAGTGAAAAAGATTAAGTGACAAGTTATGTGCTTT GTTCTATAGCTTTGAAGTTCATCCACCTCACCAGCAATTGGAAGTCTCAGGTCTTGCA GGTCTACCCATGTGTAATCCTGGGGCAGGTGTGAATCTTGATTTTTTAAAGATTACTC AAGGGAGAGAACAACAGAAACGGAAGCCATGAGTACTGCCCAATTCTAGATTAGGTTAG AGGTTAGAATAAAATTAACATAATGGGGAGTGGTAGTGGGTAGCAGTCAGACCCAGGAGACA GATTTGTGTGGTTTCTGATCTCAGCAAGGTCTAAGGAAAAAGCCTCCCCGCCCCCCCCA CCTTAAATAGTGGCATCAAGTCATGAAGGCCAGTAAACGTGGTGTAGTCTCGTAAATGA CTTCCAGTCTTCCAGGCTCTTCTGGATAGCCAAATCCTNCTTCGTGACATCTGGCAGCT CCAGGGCCAACCTCATCCACCATCTAGTTCAGAGTTTTTCCCTTAGTCTCTGTAGCACT TGGAAATATATACCCCTTCTGCTTNGAAANTNCTGNCTGTAGNTCTTNCACCTTTAGA AGCTCTGGAGGGCATCTTCCACAGTGCAGTGANAGGGCTTNCAGCAGGCTGNANCAGTTT TTTTTTCTAGCAGCTCAGGTGAAAGAACTGAANCACCACCTGCAGNAGAAAGTGAGCCAT GNGTT
Restriction Sites:	NotI-NotI
ACCN:	NM_018145
Insert Size:	2340 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_018145.1, NP_060615.1</u>
RefSeq Size:	2251 bp
RefSeq ORF:	1413 bp
Locus ID:	55177
UniProt ID:	<u>Q96TC7</u>
Cytogenetics:	15q15.1
Protein Families:	Transmembrane
Gene Summary:	<p>Involved in cellular calcium homeostasis regulation. May participate in differentiation and apoptosis of keratinocytes. Overexpression induces apoptosis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents transcript variant 1. Variants 1 and 2 encode the same protein.</p>