

## Product datasheet for **SC309996**

### FRMD4A (NM\_018027) Human Untagged Clone

#### Product data:

|                           |                                            |
|---------------------------|--------------------------------------------|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | FRMD4A (NM_018027) Human Untagged Clone    |
| Tag:                      | Tag Free                                   |
| Symbol:                   | FRMD4A                                     |
| Synonyms:                 | bA295P9.4; CCAFCA; FRMD4                   |
| Mammalian Cell Selection: | None                                       |
| Vector:                   | <u>pCMV6-XL4</u>                           |
| E. coli Selection:        | Ampicillin (100 ug/mL)                     |
| Fully Sequenced ORF:      | >OriGene ORF sequence for NM_018027 edited |

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ATGGCAGTGCAGCTGGTGCCCGACTCAGCTCTCGGCCTGCTGATGATGACGGAGGGCCCG
CGATGTCAAGTACATCTTCTTGATGACAGGAAGCTGGAACCTCTAGTACAGCCCAAGCTG
TTGGCCAAAGGAGCTTCTTGACCTTGTGGCTTCTCACTTCAATCTGAAGGAAAAGGAGTAC
TTTGAATAGCATTACAGATGAAACGGGACACTTAAACTGGCTTCAGCTAGATCGAAGA
GTATTGGAACATGACTTCCCTAAAAAGTCAGGACCCGTGGTTTTATACTTTTGTGTGAGG
TTCTATATAGAAAGCATTTTCATACCTGAAGGATAATGCTACCATTGAGCTTTTCTTTCTG
AACGCGAAGTCTGCATCTACAAGGAGCTTATTGACGTTGACAGCGAAGTGGTGTGAA
TTAGCTTCTATATTTTACAGGAGGCAAAGGGAGATTTTTCTAGCAATGAAGTTGTGAGG
AGTGACTTGAAGAAGCTGCCAGCCCTTCCACCCAAGCCCTGAAGGAGCACCTTCCCTG
GCCTACTGTGAAGACAGAGTCATTGAGCACTACAAGAACTGAACGGTCAGACAAGAGGT
CAAGCAATCGTAAACTACATGAGCATCGTGGAGTCTCTCCAACCTACGGGGTTCATAT
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TTCCAGTATGACTACCATGATAAAGTGAAGCCAAGAAAGATATTCCAATGGAGACAGTTG
GAAAACCTGTACTTCAGAGAAAAGAAGTTTTCCGTGGAAGTTCATGACCCACGCAGGGCT
TCAGTGACAAGGAGGACGTTTGGGCACAGCGGCATTGCACTGCACACGTGGTATGCATGT
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CAGTCGGCCAAGAAGGACATGCTGGCTGCCTTGAAGTCCAGGCAGGAAGCTCTGGAGGAA
ACCCTGCGTCAGAGGCTGGAGGAACTGAAGAAGCTGTGTCTCCGAGAAGCTGAGCTCACG
GGCAAGCTGCCAGTAGAATATCCCTGGATCCA:GGGAGGAACCAACCCATTGTTCCGGAG
AAGAATAGGAACAGCCTTCAAAGTGGATGAACAGAAAATCCTGCCAAAGGAGAGGAAGC
TGAGCTGGAACGCCTGGAACGAGAGTTTGCCATTGAGTCCAGATTACGGAGGCCGCCCG
CCGCCTAGCCAGTGACCCCAACGTCAGCAAAAACTGAAGAAAACAAAGGAAAACCTCGTA
TCTGAATGCACTGAAGAACTGCAGGAGATTGAAAATGCAATCAATGAGAACCGCATCAA

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GTCTGGGAAGAAACCCACCCAGAGGGCTTCGCTGATCATAGACGATGGAACATTGCCAG
TGAAGACAGCTCCCTCTCAGATGCCCTTGTTCTTGAGGATGAAGACTCTCAGGTTACCAG
CACAATATCCCCCTACATTCTCCTCACAAGGGACTCCCTCCTCGGCCACCGTCGCACAA
CAGGCCTCCTCCTCCCCAGTCCCTGGAGGGACTCCGACAGATGCACTATCACCGCAACGA
CTATGACAAGTCACCCATCAAGCCCAAAATGTGGAGTGAGTCTCTTTAGATGAACCCTA
TGAGAAGGTCAAGAAGCGCTCCTCTCACAGCCATTCCAGCAGCCACAAGCGCTTCCCCAG
CACAGGAAGCTGTGCGGAAGCCGCGGAGGAAGCAACTCCTTGCGAAGACGCCCCATCCG
CGGCCTCCCGCACTGGAAGTCCAGTCCAGCATGCCGTCCACGCCAGACCTGCGGGTCCG
GAGTCCCCACTACGTCCATTCCACGAGGTCGGTGGACATCAGCCCCACCCGACTGCACAG
CCTCGCACTGCACTTTAGGCACCGGAGCTCCAGCCTGGAGTCCCAGGGCAAGCTCCTGGG
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CTACAGCGTCAAGGCTCAGTTCAAGACGTCCAACCTCTACACGGCGGGCGGCTGTTCAA
GGAGAGCTGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
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CACCTCCTCCAGAGCACCTTCTGCGCGCACAGAGGGTACCAGGATGCCCCAGATGTG
CAAGGCCACGTACGTGCCTTACCTCAAAGCCAGAGAAGCTCGACACCGTCAAGTGAAAT
TGGAGCCACCCCCCAAGCAGCCCCACCATCTAACCTGGCAGACTGGAGAAGCAAC
AGAAAACCTACCCATTCTGGATGGGTCTGAGTCTCCACCTCACCAAAGTACTGATGAATA
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| <b>Restriction Sites:</b> | Please inquire                                                                                                                                                                                                                                                                                                                                 |
| <b>ACCN:</b>              | NM_018027                                                                                                                                                                                                                                                                                                                                      |
| <b>Insert Size:</b>       | 4300 bp                                                                                                                                                                                                                                                                                                                                        |
| <b>OTI Disclaimer:</b>    | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| <b>OTI Annotation:</b>    | 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.                                                                             |
| <b>Components:</b>        | 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).                                                                                                                                                           |

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq:</b>                | <u>NM_018027.2, NP_060497.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq Size:</b>           | 6816 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq ORF:</b>            | 3120 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Locus ID:</b>              | 55691                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID:</b>            | <u>Q9P2Q2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>          | 10p13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Domains:</b>               | B41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Summary:</b>          | <p>This gene encodes a FERM domain-containing protein that regulates epithelial cell polarity. It connects ADP ribosylation factor 6 (ARF6) with the Par protein complex, which regulates the remodeling of adherens junctions and linear actin cable formation during epithelial cell polarization. Polymorphisms in this gene are associated with Alzheimer's disease, and also with nicotine dependence. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) encodes isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |