

## Product datasheet for **SC322684**

### FAM35A (NM\_019054) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FAM35A (NM_019054) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM35A
Synonyms:	bA163M19.1; FAM35A; FAM35A1; RINN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322684  
 GAAAAATGTACTCTGACCTGAATCCTGAATTTTCCTTGATGGTCAAAAGATTAAGAAATC  
 ATGAGTGGAGGATCTCAAGTCCACATTTTTGGGGTCTCCAATTGCTCCACTGAAAATC  
 ACAGTATCAGAAGACACAGCTTCTTTAATGTCTGTTGCTGACCCCTGAAAAAAATTCAG  
 CTTTTATACAGTCAACATTCTTTATATCTGAAGGATGAAAAACAGCACAAAAATCTTGAA  
 AACTATAAAGTCCAGAATCTATTGGTTCTCCAGATCTTAGTGGTCATTTCTTAGCAAAC  
 TGTATGAATAGACATGTTTCATGTGAAAGATGACTTTGTACGTTCTGTTTCTGAAACACAG  
 AATATAGAATCCCAGAAGATTCCTCTAGACTGAGTGATATAACTAGCTCTAATATG  
 CAAATATGTGGATTTAAAAGCACAGTCCGCATTTACCGAAGAAGAAAAGTATCAAAG  
 CTTCTCAGTAAAAATAAATTAGAGATGAACAGCCTAAACATCAGCCAGATATATGTGGT  
 AAGAACTTTAACACAAAATTTGTTTCAGTTGGGCCATAAATGTGCAGCTGTGTTGGATTTG  
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 AAGTCAAGGTCTGAAGCAGCAGTTAGGAAGGTCTCAGACCTTAAAATATCAACTGATACA  
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 AGGCGGAGTCTGTAAATAAAGGGAATGTAACATGGAGACTGAACCAAAGGCAAGTTAC  
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 GAAAATAGCCGCATTCACATAAACTCTGATAAAGGTCTTGAAGAACATACAGGATCTCAA  
 GAACTTTTAGTTCTGAAGATGAACTGCCACCAATGAGATACGTATTGAGTTGTGTAGC  
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 ACCTCTGAAGATAAAGTGGGCCAGTCTGAAGCTCTATCTAGAGTCTTCAAGTAGCTAAG  
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 AAGTATAATTGTTAGTCATGGTCTATCTCCATGCCATGTGAAGGAAAATAACATAAAA  
 TTCGGACCAAATCTGGCTCTAAAGTGCCTTTAGCAACAGTTACAGTAATTGATCAATCA  
 GAAACTAAGAAGAAGTTTTCTGTGGAGGACTGCAGCATTTGGGCATTTACAGTGTTT



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CTTGAGATATAATTTTACTCACAGATGTTGTTATTCATGAGGACCAATGGATTGGCGAG
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CAGCCTGAAGAATATTCCAGTGTAGTTAGTGAAGTTGACTTCAAGACTTACTGGCATAT
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GGAAGAGCGTTCTGTGCTTAGTTCGTGTCTAGGATTTGAGTGCCTTACTGAATGCATTTA
CCAGCAAACATGTAGCAATCTGTTCTCATTGTGATTGTGGAAGAAGCTCATGTAATAAAT
GATAGTCATTAATGAGGAAGTATGGCGTGGTACTTATTCTGTAAGTTCAGAGTATGCTGA
GTGTTAATAGATTATCATATTGCCTGAAAATAAATTCATGATGACATGAAAAAAAAAAAA
AAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_019054
- OTI Disclaimer:** 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).
- 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\\_019054.1](#), [NP\\_061927.1](#)

**RefSeq Size:** 3402 bp

**RefSeq ORF:** 2508 bp

**Locus ID:** 54537

**UniProt ID:** [Q86V20](#)

**Cytogenetics:** 10q23.2

**Gene Summary:** Component of the shieldin complex, which plays an important role in repair of DNA double-stranded breaks (DSBs) (PubMed:29656893, PubMed:29789392). During G1 and S phase of the cell cycle, the complex functions downstream of TP53BP1 to promote non-homologous end joining (NHEJ) and suppress DNA end resection (PubMed:29656893, PubMed:29789392). Mediates various NHEJ-dependent processes including immunoglobulin class-switch recombination, and fusion of unprotected telomeres (PubMed:29656893).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.