

Product datasheet for **SC112592**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112592 sequence for NM_019054 edited (data generated by NextGen Sequencing)

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ATGAGTGGAGGATCTCAAGTCCACANNTTTGGGGTGCTCCAATTGCTCCACTGAAAATC
ACAGTATCAGAAGACACAGCTTCTTTAATGTCTGTTGCTGACCCCTGGAAAAAATTCAG
CTTTTATACAGTCAACATTCTTTATATCTGAAGGATGAAAAACAGCACAAAAATCTTGAA
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TGTATGAATAGACATGTTTATGTGAAAGATGACTTTGTACGTTCTGTTTCTGAAACACAG
AATATAGAATCCCAGAAGATTCCTCTAGACTGAGTGATATAACTAGCTCTAATATG
CAAATATGTGGATTTAAAAGCACAGTTCGCGATTTACCAGAAAGAAGAAAAGTATCAAAAAG
CTTCTCAGTGAATAAAAATTAGAGATGAACAGCCTAAACATCAGCCAGATATATGTGGT
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GATTTTTATCCTGACATTGTAAGCATGGAGCCAATGCCCGTCTCTGA

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Clone variation with respect to NM_019054.2
 26 t=>n;27 t=>n;2094 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_019054 unedited
 CGTCACATTTGTATACGACTCATATAGGCGGCCGCGCAATCGGCACGAGGCTGACCTGAA
 TCCTGAATTTTCCCTTGATGGTCAAAAGATTAAGATGGAGTCTCACTCTGTTGCCAGGCT
 GGAGTGAATGGCGCGATCTTGGCTCACTGCAACCTCTGCCTTCCGGGTTTCAGGCGAGTC
 TCCTGCTCCAGCCTCCTGAGTAGCTGGGATTACAGAAATCATGAGTGGAGGATCTCAAGT
 CCACATTTTTGGGGTGTCCAATTGCTCCACTGAAAATCACAGTATCAGAAGACACAGCT
 TCTTTAATGCTGTTGCTGACCCCTGAAAAAAATTCAGCTTTTATACAGTCAACATTCT
 TTATATCTGAAGGATGAAAAACAGCACAAAAATCTTGAAAACTATAAAGTCCAGAACTCT
 ATTGGTCTCCAGAGCTTAGTGGTCATTTCTTAGCAAAGTATGAATAGACATGTTTCAT
 GTGAAAGATGACTTTGTACGTTCTGTTTCTGAAACACAGAATATAGAATCCAGAAAGAGT
 CACTCCTCTAGACTGAGTGATATAACTAGCTCTAATATGCAAATATGTGGATTTAAAGC
 ACAGTCCGCATTTACCGAAGAAGAAAAGTATCAAAGCTTCTCAGTAAAAATAAAATT
 AGAGATGAACAGCCTAACATCAGCCAGATATATGTGGTAAGAAGTTAACACAAATTTG
 TTTGAGTGGGCCATAAATGTGCAGCTGTGTTGCATTTGGTTGTAGTACTGAAAAATA
 ATATAGGGCCCTGAGTGGTACACAGAGAGTGTGTCCAACAGAATATCATGAGATACANA
 ACCCAGTGTGGGAATATTTTTCTCGAACGCAGTAGATAAGTCAAGGTCTGAAGCAGCA
 GTTAGGGAAGTCTCAGACCTTACCAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_019054 unedited
 CCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATGGC
 ATCATGAATTTATTTTCAGGCAATATGATAATCTATTAACACTCAGCATACTCTGAACTT
 ACAGAATAAGTACCACGCCATACTTCTCATTAAATGACTATCATTTTACATGAGCTTCTT
 CCACAATCACAATGAGAGAACAGATTGCTACATGTTTGGTGGTAAATGCATTGAGTAAAGG
 CACTCAAATCCTAGACACGAACTAACCCACAGAAGCTCTTCCCTGCTTTAATAAATTGAA
 ACATGATCTCATTTTCTTCAATCTTTTATAAAAAGACACGCTTGTCTTGAAC
 TTGTCTAAACATAGGTTTATATAAACTAATCCATTATCATTATAGTTATAATCAAGGAAA
 TGATTTACATTGACGGTTTTTTAGGTAGGGATAAGCGAAAGCACTGCAGCAGTTTCTGA
 GGGAAATGTCTTCTGTGGTTCCCATACTTAGTACAATGCCTGGAATGTACCAGGGACT
 AAATACAGTGAACAAATGGGCAACCTTTAATTTCCAGGGATCTGCTACATATTGCCTTG
 ACTGGTAGATCATTTCTCCAGGAGAAAGGAAGAAACCAAAAGACAAAAACATTCTTTTA
 AACCTCACAGGATTTTCTTAGAAAAAGTTTTAATTTATATATCTAGTGAATTTCTTTT
 GTAAAATATATTCATAAAAAATCAAAGCAAAGCCCTGTATTCAATTAATAAAGACAAT
 CATTGACTTCTCCTTGAATGCTGCATTTCTTTTGCCTCAAAGAGGGCATTGGC
 TCATGCTTTACATGTCAGGATAAAAAATCAGGAGGAAAAATCTTGTGTATGGAAAAGTGT
 TCATCTACCAAAGTTTTGATTCTTATACCAG

Restriction Sites:

NotI-NotI

ACCN:

NM_019054

Insert Size:

3900 bp

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).

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.