

Product datasheet for **RC208697**

FAM35A (NM_019054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM35A (NM_019054) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM35A
Synonyms:	bA163M19.1; FAM35A; FAM35A1; RINN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC208697 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

 ATGAGTGGAGGATCTCAAGTCCACATTTTTTGGGGTGCTCCAATTGCTCCACTGAAAATCACAGTATCAG
AAGACACAGCTTCTTTAATGTCTGTTGCTGACCCCTGGAAAAAATTCAGCTTTTATACAGTCAACATTC
TTTATATCTGAAGGATGAAAAACAGCACAAAAATCTTGAAAACTATAAAGTCCCAGAATCTATTGGTTCT
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GTTCTGTTTCTGAAACACAGAATATAGAATCCCAGAAGATTCAGTCTCTAGACTGAGTGATATACTAG
CTCTAATATGCAATATGTGGATTTAAAAGCACAGTTCGCGATTTACCGAAGAAGAAAAGTATCAAAAG
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AACCTTGTGATTAAAGATTAGAGCCTTTTTGTGTTAGATGAAAACAGCTATCCATTACAACAAGATT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RC208697 protein sequence

Red=Cloning site Green=Tags(s)

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MSGGSQVHIFWGAPIAPLKITVSEDASLMSVADPWKKIQLLYSQHSLYLKDEKQHKLENYKVPESIGS
PDL SGHFLANCMNRHVHVKDDFVRSVSETQNIESQKIHSSRLSDITSSNMQICGFKSTVPHFTEEEKYQK
LLSENKIRDEQPKHQPDICGKNFNTNLFQLGHKCAAVLDLVCSTEKINIGPEVVQRECVPTHEYHEIQNQC
LGLFSSNAVDKSRSEAAVRKVSDLKISTDTEFLSIITSSQVAFLAQKKDKRRSPVNGNVNMETEPKASY
GEIRIPEENSIQLDGFTEAYESGQNQAYSLELFSVPCPKTENSRIHINSKGLEEHTGSQELFSSEDELP
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SEFKSIKKTSLIKNCDSSQKYNCLVMVLSCHVKEINIKFGPNSGSKVPLATVTVIDQSETKKKVFLWR
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VSSKHSYLRDLPPRQPQRVNSIDFVELEHLQPDVLVHAVLRVVDFTILTEAVYSYRGQKQKKVMLTVEQA
QDQHYALVLWGPAAWYPQLQRKKGVLKAQISELAFPITASQKIALNAHSSLKSISSLPNIVYTGCA
KCGLELETDENRIYKQCFSCLPFTMKKIYYRPALMTAIDGRHDVCIRVESKLIKILLNISADCLNRVIV
PSSEITYGMVVADLFHSLLAWSAEPVLKIQSLFVLDENSYPLQQDFSLDFYDPDIVKHGANARL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6526_b02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019054

ORF Size: 2505 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019054.3](#)

RefSeq Size: 3417 bp

RefSeq ORF: 2508 bp

Locus ID: 54537

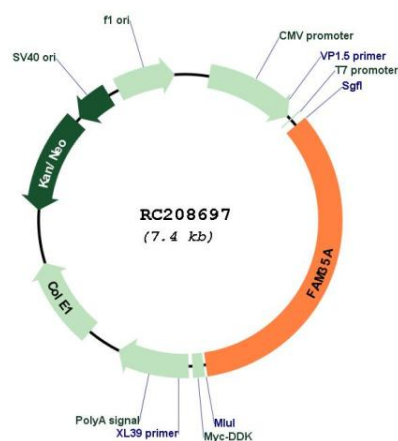
UniProt ID: [Q86V20](#)

Cytogenetics: 10q23.2

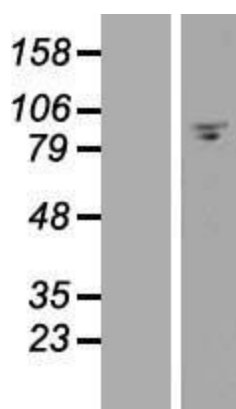
MW: 93.7 kDa

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]

Product images:



Circular map for RC208697



Western blot validation of overexpression lysate (Cat# [LY412793]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208697 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).