

Product datasheet for **RG208697**

FAM35A (NM_019054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM35A (NM_019054) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM35A
Synonyms:	bA163M19.1; FAM35A; FAM35A1; RINN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG208697 representing NM_019054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGGAGGATCTCAAGTCCACATTTTTTGGGGTGCTCCAATTGCTCCACTGAAAATCACAGTATCAG
 AAGACACAGCTTCTTTAATGTCTGTTGCTGACCCCTGGAAAAAATTCAGCTTTTATACAGTCAACATTC
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 GTTCTGTTTCTGAAACACAGAATATAGAATCCCAGAAGATTCAGTCTCTAGACTGAGTGATATACTAG
 CTCTAATATGCAATATGTGGATTTAAAGCACAGTTCGCGATTTACCGAAGAAGAAAAGTATCAAAAG
 CTTCTCAGTGAATAAAATTAGAGATGAACAGCCTAACATCAGCCAGATATATGTGGTAAGAAGTTTA
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 CCTTCTCAGAGATCACCTATGGGATGGTGGTGGCAGACCTGTTCCACTCCTTGTGGCAGTCAGCGCAG
 AACCTTGTGATTAAAGATTAGAGCCTTTTTGTGTTAGATGAAAACAGCTATCCATTACAACAAGATT
 CTCCTCTGGATTTTTATCCTGACATTGTAAAGCATGGAGCCAATGCCCGTCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

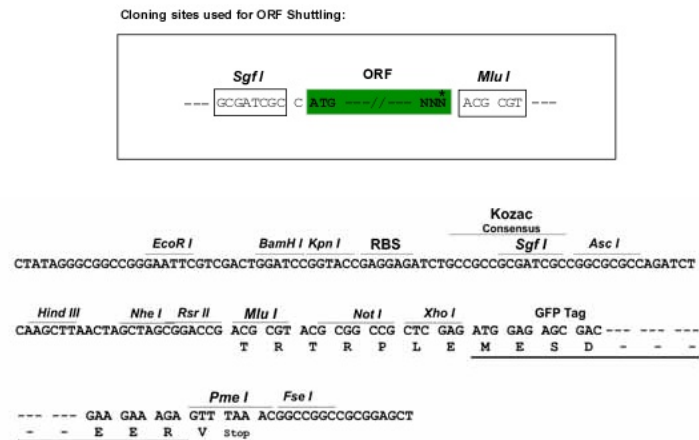
Protein Sequence: >RG208697 representing NM_019054
 Red=Cloning site Green=Tags(s)

MSGGSQVHIFWGAPIAPLKITVSEDTASLMSVADPWKKIQLLYSQHSLYLKDEKQHKNLENYKVPESIGS
 PDL SGHFLANCMNRHVHVKDDFVRSVSETQNIESQKIHSSRLSDITSSNMQICGFKSTVPHFTEEEKYQK
 LLS ENKIRDEQPKHQPDICGKNFNTNLFQLGHKCAAVLDLVCSTEKINIGPEVVQRECVPTHEYHEIQNQC
 LGLFSSNAVDKSRSEAAVRKVSDLKISTDTEFLSIITSSQVAFLAQKDKRRSPVNGNVNMETEPKASY
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 PNEIRIELCSSGILCSQLNTFHKSAIKRSCTSEDKVGQSEALSRVLQVAKMKMLISNGGDSAVEMDRNV
 SEFKSIKKTSLIKNCDKSQKYNCLVMVLS PCHVKEINIKFGPNSGSKVPLATVTVIDQSETKKKVFLWR
 TAAFWAFTVFLGDIILLTDVVIHEDQWIGETVLQSTFSSQLNLGSSYSSIQPEEYSSVVSEVVLQDLLAY
 VSSKHSYLRDLPPRQPQRVNSIDFVELEHLQPDVLVHAVLRVVDFTILTEAVYSYRGQKQKKVMLTVEQA
 QDQHYALVLWGPAAWYPQLQRKKGVVLIKAQISELAFPITASQKIALNAHSSLKSISSLPNIVYTGCA
 KCGLELETDENRIYKQCF SCLPFTMKKIYYRPALMTAIDGRHDVCIRVESKLEKILLNISADCLNRVIV
 PSSEITYGMVVADLFHSL LAVSAEPCVLKIQSLFVL DENSYP LQQDFSL LDFYPDIVKHGANARL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-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: 3402 bp

RefSeq ORF: 2508 bp

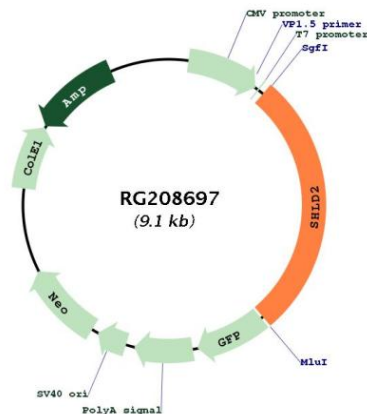
Locus ID: 54537

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]

Product images:



Circular map for RG208697