

Product datasheet for **RC226635**

FAM53C (NM_001135647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM53C (NM_001135647) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM53C
Synonyms:	C5orf6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226635 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAACCCGTGACTGAGCAGCTACAGAAGCAGACTCTGGATGAGCTGAAATGCACACGCTTCAGCA
TCAGTCTGCCTTTGCCTGATCATGCAGACATCTCCAAGTGTGGAACTCTTCCAGCTTGTGTCTGAAGG
TGCTTCTGGAGGGCCCTGCCCACTGTTCTGTGCTGAGTTCAGGACAGCCTCAACTCAGCTACCAT
CCCTCAGGCTGAGCCTGCACCTCAGACCACCCAGTCGGGAACTCCCAAGGAGCAGCCTTCTCCC
AAGTCCTAAGACCTGAGCCCCAGATCCAGAGAAGCTTCTGTGCCCTGCCCTCCATCCAAGAGGCA
CTGCCGCTCACTCTCAGTCCCCGTGGACCTGTCTCGTGGCAGCCGGTGTGGCGGCCGCCCTCCAAG
CTGTGGACTCCCATAAAGCACCGGGCAGTGGTGGAGGGGTGGCCGCAGGTGCCTCACCAGAGCCCC
CAAAGCGGTCTCCAGCCTCAGTTCCTCCAAGCTCCCAGTGCCTTCTCAATGTGCCAGCTCACAG
ACCCTACAGCCCTCCTTCTCAGCCTGGCCCTGGCCCAAGATTCCTCTCGACCTGCGCCGCTCCCT
CAAAGTGGCTCCTGGGAGAGTGATGCTGAGTCTTGTACCTTGCCACCTCAGCGCCGCTTCTCCCTGT
CACCCAGTCTGGGCCCGCAGGCAAGCCGCTTCTGCCCTGCCCCGAGCTCTCCCGCATCTCCCCAGA
GCTGCCCTGGCGACCTCGAGTCTCCGCAACCTCCCCGAAGCCGCTCACAGCCTTGATCTGGATGCC
CGCAAACCTGGGTCAAGCGGCCACGAGGAAGACCCCGCGCTGCGGCCTTCGTTGGACTTTGACA
AGATGAATCAGAAACATACTCAGGAGTCTTTGTCTCCAAGAAACAGCCCGGAAGGCAGCAGCATCTC
TCCACCATGGTTCATGGCTGTAGCCCCCACCCTCTCTGCTTCTGACGCCCCACTGGGGTTCCTCC
CAGGTGCTGAGTGAAGCGAAGAGGAGGAGGGGCTGTGCGGTGGGTGGCAGGCGCTGAGCAAGC
GGACACTGTGCCAGCGGACTTTGGGACCTGGACTTGAATTTGATTGAGGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC226635 protein sequence
Red=Cloning site Green=Tags(s)

MITLITEQLKQKQTLDELKCTRFSISLPLPDHADISNCGNSFQLVSEGASWRGLPHCSAEFQDSLNF SYH
 PSGLSLHLRPPSRGNPKQPFSQLRPEPPDPEKLPVPPAPPSKRHCRSL SVPVDLSRWQPVWRPAPSK
 LWTPIKHRGSGGGGGPQVPHQSPPKRVSSLRFLQAPSASSQCAP AHRPYPSPFFSLALAQDSSRCAASP
 QSGSWESDAESLSPCPPQRRFSLSPSLGPQASRF LPSARSSPASSPELPWRPRGLRNLPRSRSQPCDLDA
 RKTGVKRRHEEDPRRLRPSLDFDKMNQKPYSGGLCLQETAREGSSISPPWFMACSPPLSASC SPTGGSS
 QVLSESEEEEEGAVRWGRQALSKRTL CQRDFGDLDLNLIEEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6583_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001135647

ORF Size: 1176 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.

RefSeq: [NM_001135647.2](#)

RefSeq Size: 4419 bp

RefSeq ORF: 1179 bp

Locus ID: 51307

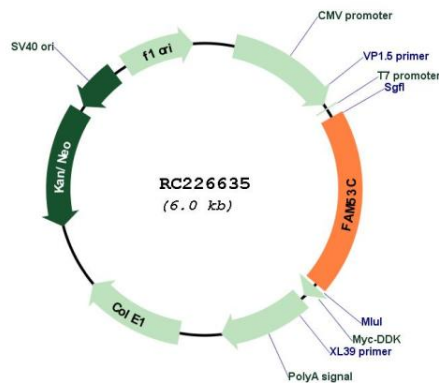
UniProt ID: [Q9NYF3](#)

Cytogenetics: 5q31.2

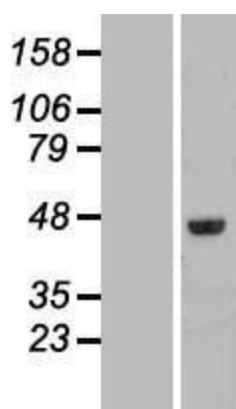
MW: 43.1 kDa

Gene Summary: The protein encoded by this gene belongs to the FAM53 protein family. FAM53 protein family members bind to a transcriptional regulator that modulates cell proliferation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC226635



Western blot validation of overexpression lysate (Cat# [LY427646]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226635 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).