

Product datasheet for **RC216954**

FAM83D (NM_030919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM83D (NM_030919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM83D
Synonyms:	C20orf129; CHICA; dj616B8.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216954 representing NM_030919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGGCTGTTTATTCAAAGTTGCCTATAAAGCGGGACTGCACGCCGGTTTTTTGTCCGAGGGC
 TGTCGAGTCCGAGCGCCCATGGCTCTGCTGTCCGAGGGCTGGACGAGGTGCCCGCCGCTGCCTGTC
 GCCGTGCGGGCCGCCAACCACCGAGCTGTTACGAGTACACGGCGCTGGCTCTGGAGGAGCTGGTG
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 AGGTGCACGCCATTCTGCGCGCGCGGAGAGGCCGGGAGAGGGCGCGCGCGCGCGCGCGCGCGCA
 GGACTCGTTCCGCTCTCGCAGACTGCTCTCGGGCACCTACTCCCGAGCAGTCGGACTGGAGCCA
 CCGCTGTGGAGCTTGGCTGGCCCGCTTCTACAGGGCGCTACCGCGCGCCACGCGTGTGAGACGC
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 TATCTACTATGCAAGTCAAGAACTAAGATTATTGGGAAGTTTACGAAAAGTTCACGTTGATTGATGGC
 ATCCGCGTGGCAACAGGCTCCTACAGTTTTACATGGACGGATGGCAAATTAACAGCAGTAACTTGGTAA
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 TCCAAGGAGCTCACCTGGGCAACCTGCTGCGGATGCGGCTGGCTAGGCTGTCAAGTACTCCAGGAAG
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 TGTTAGTGAGGAAGACTACTTACGACGCCACAGGGACGAGCTCCAGAGCAGAAAGGCCATTGACGCTGCC
 ACTCAAACAGAGCCAGGAGAGGAGATGCCAGGGCTGAGTGTGAGTGGGAAACAAAACAGCATCA
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 CAGATCGACCACTACTCAGACTGACATGGATGAGAACATTCTCTTCTCGAGGAACTCAATCTACAGAA
 GGGTACCAGTCTCAAAAATGTCTGTATCGAGATCTCCAGTTTGAAGTCTTCTCTCTGTGTCTTCCC
 AAGGCTCTGTGGCAAGCTCCACTGGTTCTCCCGTTCATCAGAACCCTGACTCCACAATCTGGCTA
 TCCAAGTACCTGGGCACCCCCACCTGGAAGTACTTGAAGTACTACTTGAACAAAGAG
 CGCAATTCCTTCCGCTGATCAGGTCGGCTCAACCACATGCTGGCTATGCTGTCAAGGAGAACAC
 TCTTTACTGAAAACACCTTGGCCTTATTCTGGCAATTCAGCAGAGTTAATTTGCTTGTGTTAGAGA
 GTAGCACTTTATCCTTCTATCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

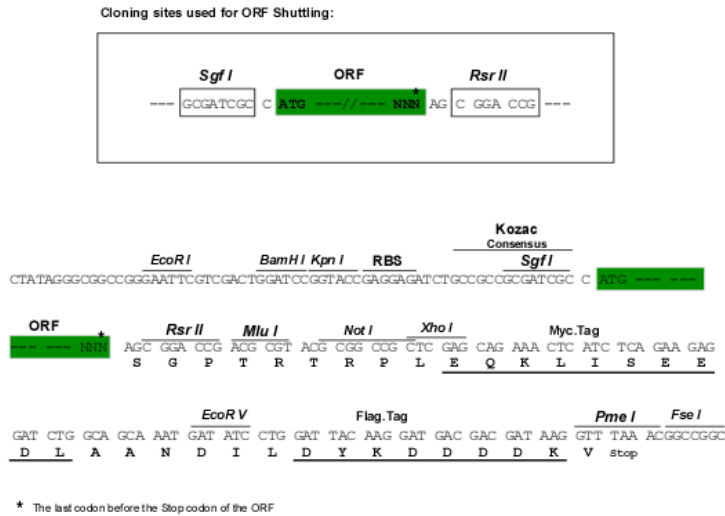
Protein Sequence:

>RC216954 representing NM_030919
 Red=Cloning site Green=Tags(s)

MARACIQRLPIKRDCTPVFVRGLSSPSAAMALLSEGLDEVPAACLSPCGPPNPTELFSESRRLLALEELV
 AGGPEFAAFLRRERLARFLNPDEVHAILRAAERPGEAAAAAAAAEDSFGSSHDCSSGTYFPEQSDLEP
 PLLELGWPAFYQAYRGATRVETHFQPRGAGEGGPYGCKDALRQQLRSAREVIAVMDVFTDIDIFRDLQ
 EICRKQGVAVYILLDQALLSQFLDMCMDLKVHPEQEKLMTVRTITGNIYYARSGTKIIGKVHEKFTLIDG
 IRVATGSYSFTWTDGKLNSSNLVILSGQVVEHFDLEFRILYAQSKPISPKLLSHFQSSNKFHDLTNRKPQ
 SKELTLGNLLRMRLARLSSTPRKADLDPEMPAEGKAERKPHDCESSVSEEDYFSSHRDELQSRKAIDAA
 TQTEPGEEMPGLSVSEVGTQTSITTACAGTQTAVITRIASSQTTIWSRSTTTQTDMDENILFPRGTQSTE
 GSPVSKMSVSRSSSLKSSSSVSSQGSVASSTGSPASIRTTDFHNPYKYLGTPHLELYLSDSLRNLNKE
 RQFHFAIRSRLNHMLAMLRRTLFTENHLGLHSGNFSRVNLLAVRDVALYPSYQ

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3815_g05.zip
Restriction Sites: SgfI-RsrII
Cloning Scheme:



ACCN: NM_030919
ORF Size: 1845 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).

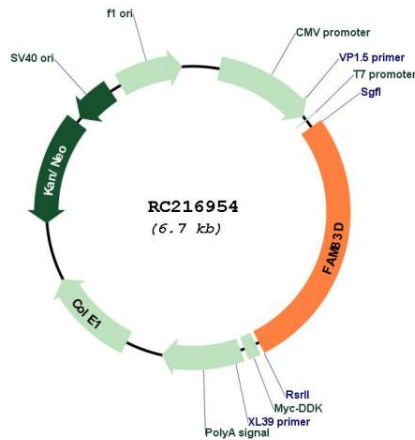
- Reconstitution Method:**
 1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

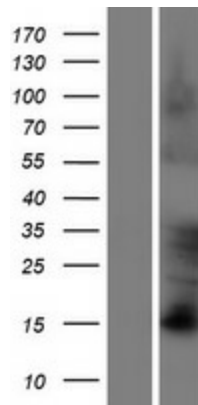
RefSeq Size: 2445 bp
RefSeq ORF: 1758 bp

Locus ID: 81610
UniProt ID: [Q9H4H8](#)
Cytogenetics: 20q11.23
Protein Families: Druggable Genome
MW: 67.5 kDa
Gene Summary: Probable proto-oncogene that regulates cell proliferation, growth, migration and epithelial to mesenchymal transition. Through the degradation of FBXW7, may act indirectly on the expression and downstream signaling of MTOR, JUN and MYC (PubMed:24344117). May play also a role in cell proliferation through activation of the ERK1/ERK2 signaling cascade (PubMed:25646692). May also be important for proper chromosome congression and alignment during mitosis through its interaction with KIF22.[UniProtKB/Swiss-Prot Function]

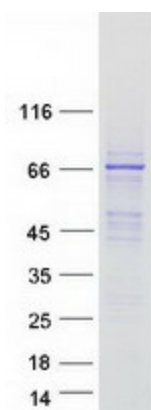
Product images:



Circular map for RC216954



Western blot validation of overexpression lysate (Cat# [LY410661]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216954 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM83D protein (Cat# [TP316954]). The protein was produced from HEK293T cells transfected with FAM83D cDNA clone (Cat# RC216954) using MegaTran 2.0 (Cat# [TT210002]).