

Product datasheet for **MR209141**

Fam83d (NM_027975) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Fam83d
Synonyms:	2310007D09Rik; BB104611
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209141 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCTCGCTTCGAGCTGTTGGACGACCTCCCGCGGCCTGCCTGTCTCCGTGCGGACCGCCCAACC
 CCACGGAGCTGTTACGCGAGGCGCGCGCTCTGGCTCTCGAGCAGCTGCTGGCCGGTGGTCCCGACGCCTG
 GGCCGCTTCTTACGGCGTGAGCGGCTGGGCGGCTTCTCAACGCCGACGAGGTGCGCGAGGTTCTGGGC
 GCTGCCGAGCGGCCGGGCGAGGATGGGCGGCGGTAGCGGAGGACTCGTTCGGCTCTCTCACGAATGCT
 CGTCGGGCACCTACTTTCCGGAGCAGTCGGACCTGGAACCGCCGGCGTTGGAGCTCGGCTGGCCTTCCTT
 CTACCAAGGTGCGCTACCGCGGTGCCACGCGTGTGAGGCTCATTTCCAGCCCCGCGCGCGGCGCGGGA
 GGCCCGTATGGCTGCAAGGATGCGCTGCGCCAGCAGTTGCGCTCCGCCGAGAGGTGATTGCTGTGGTAA
 TGGACGTTTTCTCAGACATCGACATCTCCGAGACCTGCAGGAGAGCTGTAGGAAGCGGGGGTGGCTGT
 GTACATCTCTGGACGAGCTCTGCTCCCCACTTTTGGACATGTGCATGGATCTGAGAGTTCATCCT
 GAGCAGGAAAAGCTGATGACAGTTCGACAATTACAGGAAATATCTACTATGCAAGGTGAGGAACAAAGG
 TTGTCGGGAAGGTTTCATGAGAAGTTCACACTGATTGACGGAATCCGGGTGGCAACAGGCTCTTACAGTTT
 TACCTGGACCGACGGCAAATTAACAGCAGTAAGTGGTAATTCTGTCTGGCCAAGTGGTTGAACACTTT
 GATCTGGAGTTCGGATCCTGTATGCTCAGTCAGAGCCCATCAGCTCCAACTCCTGTCCAATTCAGA
 TCAATAGCAAAGTTTGACCATCTGGCTGACCGAAAGCCACAGTCGAAGGAGCCCACTGGGCAATCTGCT
 GCGAATGAGGCTGGCCAGGCTCTCAAGTACTCCAGGAAGAGCAACCTGGGCCAGAGGAGCGCCAAAA
 GACAGAGCCAAACCAAGCGCCTGACTCTGAGGCTTCTACCATCAGCGATGAAGACTATTTCCACAGCC
 ACAAGGACGAGTAGAGGATAGTAAGGTGGCTGATGCTGTACCCAAACAGAGCCAGAGAAGAGATGGC
 TGCAGTAAGCCTGAGTGAGGTGGGAACCTCAGACTAGTTCAGCATGATGTGTGTGGGACCCAAACACA
 GTTGTACCAAGGGCAGCGAGCTCCAGGCCACAGTGTGGTCCAAGTCCACTACCACAGAGCTGAAGCTG
 ACGAGAGCTTCTTCTCAGGGTGCCAGTCCAAGAAGGGTCACCGGCATCCAAGATGTCAGTGTGCGAG
 GTCTTCCAGTGTGAGGTATCTCTTGTGTCTTCCAGGGCTCGCTGGCAAGCTCGGTGAGCTCCCAT
 GTCTCCCTGACGGCTGCTGATCTCCACACTCCCGCATACCCCAAGTACCTGGGTCTGGGCACCCCGCATC
 TGGATCTGTGCTAAGGGACTCGTTCAGAACTTAAGTAAGGAGCGGCAGGTCCACTTCACTGGCATCAG
 GTCCCGGCTACCCAGATGCTACCGTGTCTCACGGAGAAGCTCTTACAGAGCACTACCTCAGCTAC
 AGCCCCGGGAGCTTACCAGAGCCTTACCAACCTGGTTTCTGTGAGGGACATAGCCCTTACCCTCCCT
 ATCAG

ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA

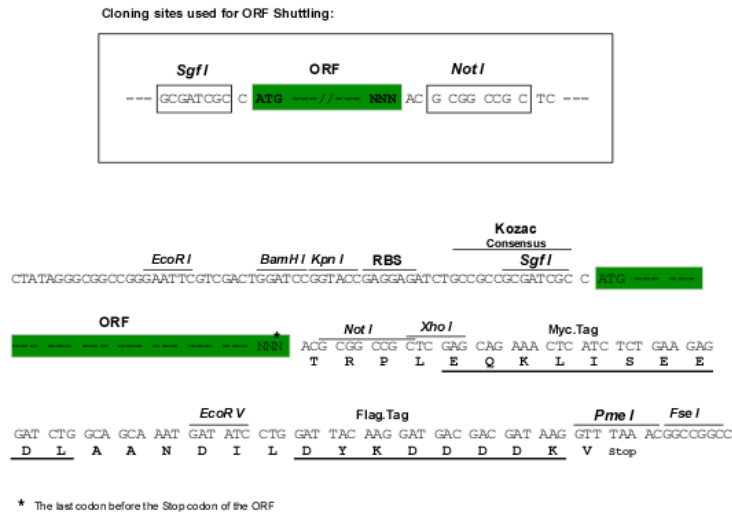
Protein Sequence: >MR209141 protein sequence
 Red=Cloning site Green=Tags(s)

MAARFELLDDLPAACLSPGPPNPTELFSEARRLALEQLLAGGPDAAWAFRRERLGRFLNADEVREVLG
 AAERPGEAGAAVAEDSFSSHECSSGTYPFQSDLEPPALELGWPSFYQAYRGATRVAAHFPQPRGAGAG
 GPYGCKDALRQQLRSAREVIAVMDVFSIDIDIFRDLQESCRKRGVAVYILLDQTLPHFLDMCMLDRVHP
 EQEKLMTVRTITGNIYYARSGTKVVGKVHEKFTLIDGIRVATGSYSFTWTDGKLSSNLVILSGQVVEHF
 DLEFRILYAQSEPISSKLLSNFQINSKFDHLADRKPQSKEPTLGNLLRMRLARLSSTPRKSNLGPPEPPK
 DRAPKRPDSEASTISDEDYFHSKDLQLEDSKVADAATQTEPREEMAASVSLSEVGTQTSSSMMCVGTQTT
 VVTRAASSQATVWSKSTTTQTEADESFLPQGAQSKEGSPASKMSVSRSSSVSSSVSSQGLASSVSSH
 VSLTAADLHTPAYPKYLGTPHLDLCLRDSFRNL SKERQVHFTGIRSRLTQMLTVLSRRTLFTHEYLSY
 SPGSFTRASTNLVSRDIALYPPYQ

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_027975

ORF Size: 1755 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.

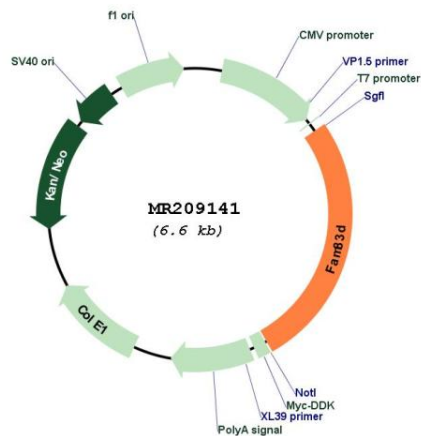
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027975.2](#), [NP_082251.2](#)

RefSeq Size: 2280 bp
 RefSeq ORF: 1758 bp
 Locus ID: 71878
 UniProt ID: [Q9D7I8](#)
 Cytogenetics: 2 H1
 MW: 64.3 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. May play also a role in cell proliferation through activation of the ERK1/ERK2 signaling cascade. 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 MR209141