

Product datasheet for **MR206885**

Frmd5 (BC057549) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frmd5 (BC057549) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frmd5
Synonyms:	1500032A09Rik; 5830442F04; A930004K21Rik; R75430
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206885 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCTTCCGCGTGAAGTTTTACCTGCCGACCCGCTGCCCTGAAAGAGGAAATAACCAAGTACTTAG
 TCTTCCTTCAGATCAAAAGGGATCTCTACCACGGCGTCTTCTCTGTAAAACATCGGATGCCGCCTTGT
 AGCGGCCTATATCCTTCAAGCGGAGATTGGGGATTATGACCCGGGAAAGCACCTGAAGGCTACAGCTCC
 AAGTTCCAATTTTTCCCGAAACATTCAGAGAACTGGAAAAGAAAATTGCTGAGATTACAAGACCGAAC
 TCAGTGGTCAAACACCAGCAACATCAGAGCTGAATTTCTTAAGAAAGGCCAGACGTTAGAGACCTACGG
 AGTGGACCCTCACCATGTAAGGATGTGTCGGGAAATGCTGCGTTTCTGGCCTTCACTCCTTTGGGTTT
 GTTGTCTTCAAGGAAACAAGAGGGTCCACTTCATTAATGGAATGAGGTGACCAAGCTGAAATTTGAAG
 GAAAGACTTTCTATTTATATGTAAGTCAGAAAGAGGAAAAAAGATTATTCTCACATATTTGCCCAAC
 TCCAGAAGCCTGCAAGCACCTCTGAAAATGTGGAATTGAGAACCAAGCCTTCTACAAGCTGGAAAAGTCA
 AGCCAAGTCCGCACAGTGTCCAGCAGCAATTTGTTCTTTAAGGGGAGCCGGTCCGATACAGTGGCCGGG
 TCGCAAAGGAAGTAATGGAGTCCAGTGCCAAGATCAAACGGGAGCCGCCGAAATACACAGAGCAGGGAT
 GGTCCCTAGCCGACGCTGTCTTCTATAACCCATGGCCCACGACTGAGCAGCGTCCCCAGGACACGAAGA
 AGAGCTGTGCACATCTCTATCATGGAAGGCCTTGAGTCGCTACGAGACAGTGCCTTCCACCCAGTGC
 GGTCTCTTCCCATGGGACACCTTCTGCCTCACGTGAGAAGCAGCCGGGCAGACAGCAATGAACGTGT
 CGCTGTGATAGCGGATGAGGCCTACAGCCCCGACAGTGTGCTGCCACCCCTGTAGCCGAGCACAGC
 CTGGAGCTGATGCTGCTCTCCCGCAGATCAACGGGGCCACGTGCAGCATTGAGGAGGAGAAGGAGTCCG
 AGCCAGCACCCCGACTGCGACAGAGGGCGGACCCTGGGAGGAGAGCTGAGGGCCCTGTGTCAGGGGCA
 CGCGGGTCCAGAGCAAGAACAGATGCAAGAGAGAGACAGATCTGAGGAAGGCATCGAGAAGGACGCGG
 CCTTGAAGGGACCAGGAAGCACTAAGCAGGACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206885 protein sequence
 Red=Cloning site Green=Tags(s)

MCFRVKFPADPAALKEEITRYLVFLQIKRDLYHGRLCKTSDAALLAAYILQAEIGDYDPGKHPEGYSS
 KFQFFPKHSEKLEKKIAEIHKTELSGQTPATSELNFLRKAQTLETYGVDPHPCKDVSGNAFLAFTPF
 VVLQGNKRVHFIKWNEVTKLKFEKTFYLYVSQKEEKIILTYFAPTPEACKHLWCKGIENQAFYKLEK
 SQVRTVSSNLFKGSFRYSGRVAKEVMESAKIKREPPEIHRAGMVPSRSCPSITHGPRLSSVPRTRR
 RAVHISIMEGLESLRDSAHSTPVRSSSHGDTFLPHVRSRADSNERVAVIADEAYSPADSVLPTPVAEHS
 LELMLLSRQINGATCSIEEEKSEASTPTATEAEALGGELRALCQHGGSSEQEQMQRDRSEEGIEKEQR
 PWKGPSTKQDL

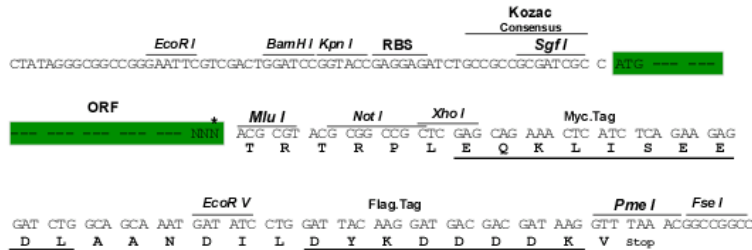
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC057549

ORF Size: 1296 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: [BC057549](#), [AAH57549](#)
RefSeq Size: 3370 bp

RefSeq ORF: 1298 bp

Locus ID: 228564

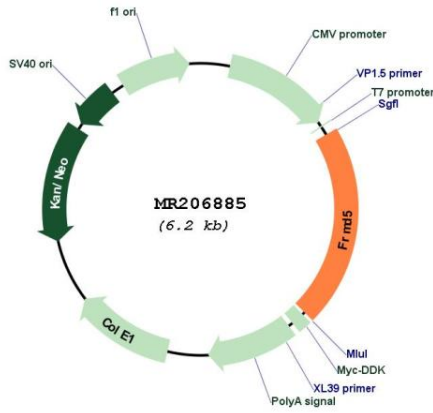
Cytogenetics: 2 E5

MW: 48.5 kDa

Gene Summary:

May be involved in regulation of cell migration. May regulate cell-matrix interactions via its interaction with ITGB5 and modifying ITGB5 cytoplasmic tail interactions such as with FERMT2 and TLN1. May regulate ROCK1 kinase activity possibly involved in regulation of actin stress fiber formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206885