

## Product datasheet for **MG206885**

### Frmd5 (BC057549) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frmd5 (BC057549) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frmd5
Synonyms:	1500032A09Rik; 5830442F04; A930004K21Rik; R75430
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206885 representing BC057549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCTCCGCGTGAAGTTTTACCTGCCGACCCGCTGCCCTGAAAGAGGAAATAACCAGTACTTAG  
TCTTCCTCAGATCAAAGGGATCTCTACCACGGCCGCTTCTCTGTAAAACATCGGATGCCGCTTGT  
AGCGGCATATCCTTCAAGCGGAGATTGGGATTATGACCCGGGAAAGCACCTGAAGGCTACAGCTCC  
AAGTTCCAATTTTCCCAGAACATTCAGAGAACTGGAAAAGAAAATTGCTGAGATTACAAGACCGAAC  
TCAGTGGTCAAACACCAGCAACATCAGAGCTGAATTTCTTAAGAAAGGCCAGACGTTAGAGACCTACGG  
AGTGGACCCTCACCCATGTAAGGATGTGTCGGGAAATGCTGCGTTTCTGGCCTTCACTCCTTTCCGGTTT  
GTTGTTCTTCAAGGAAACAAGAGGGTCCACTTCATTAATGGAATGAGGTGACCAAGCTGAAATTTGAAG  
GAAAGACTTTCTATTTATATGTAAGTCAGAAAGAGGAAAAAAGATTATTCTCACATATTTGCCCAAC  
TCCAGAAGCCTGCAAGCACCTCTGGAAATGTGGAATTGAGAACCAAGCCTTCTACAAGCTGGAAAAGTCA  
AGCCAAGTCCGCACAGTGTCCAGCAGCAATTTGTTCTTTAAGGGGAGCCGGTCCGATACAGTGGCCGG  
TCGAAAGGAAGTAATGGAGTCCAGTCCAAGATCAAACGGGAGCCGCGAGAAATACACAGAGCAGGGAT  
GGTCCCTAGCCGACGCTGCTTCTATAACCCATGGCCCAGACTGAGCAGCGTCCCAGGACACGAAGA  
AGAGCTGTGCACATCTCTATCATGGAAGGCCCTGAGTCGCTACGAGACAGTGCCTTCCACCCAGTGC  
GGTCTCTTCCCATGGGACACCTTCTGCCTCACGTGAGAAGCAGCCGGGAGAGAGCAATGAAGTGT  
CGCTGTGATAGCGGATGAGGCCTACAGCCCGCAGACAGTGTGCTGCCACCCCTGTAGCCGAGCAGC  
CTGGAGCTGATGCTGCTCTCCCGCAGATCAACGGGGCCACGTGCAGCATTGAGGAGGAGAAGGAGTCGG  
AGGCCAGCACCCGACTGCGACAGAGCGGAGGCCCTGGGAGGAGAGCTGAGGCCCTGTGTGAGGGCA  
CGGCGGTCAGAGCAAGAACAGATGCAAGAGAGAGACAGATCTGAGGAAGGCATCGAGAAGGAGCAGCG  
CCTTGAAGGGACCAGGAAGCACTAAGCAGGACCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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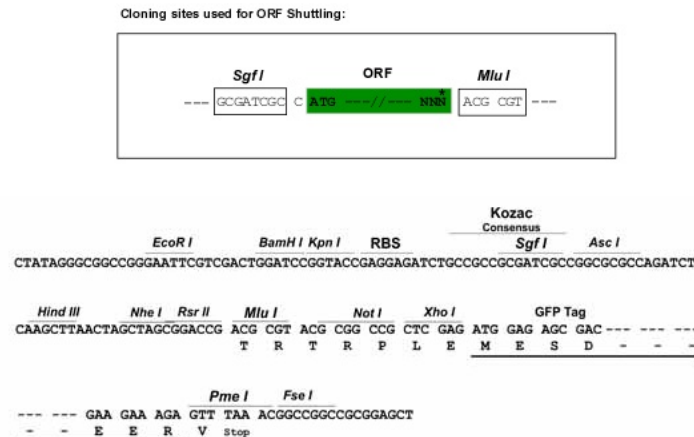
**Protein Sequence:** >MG206885 representing BC057549  
 Red=Cloning site Green=Tags(s)

MCFRVKFYPADPAALKEEITRYLVFLQIKRDLYHGRL LCKTSDAALLAAYILQAEIGDYDPGKHPEGYSS  
 KFQFFPKHSEKLEKKIAEIHKTELSGQTPATSELNFLRKAQTLETYGVDPHPCKDVSNGNAFLAFTPPGF  
 VVLQGNKRVRVFIKWNEVTKLKFEKGTFFLYVVSQKKEKKIILTYFAPTPEACKHLWKCGIENQAFYKLEKS  
 SQVRTVSSSNLFFKGSFRFRYSGRVAKEMESSAKIKREPPEIHRAGMVPSRSCPSITHGPR LSSVPRTRR  
 RAVHISIMEGLESLRDSAHSTPVRSSSHGDTFLPHVRSSRADSNERVAVIADEAYSPADSVLPTPVAEHS  
 LELMLLSRQINGATCSIEEEEKSEASTPTATEAEALGGELRALCQGHGGSEQE QMQRDRSEEIEKEQR  
 PWKGPGSTKQDL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC057549

**ORF Size:** 1298 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

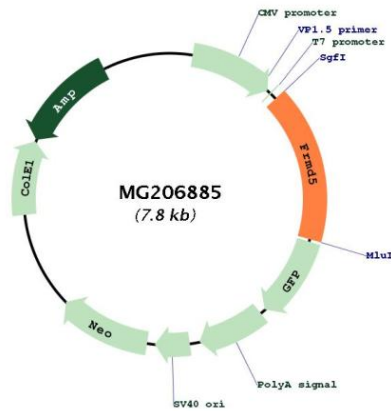
**RefSeq ORF:** 1298 bp

**Locus ID:** 228564

**Cytogenetics:** 2 E5

**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 MG206885