

Product datasheet for **MC223120**

Frmd4a (NM_001177844) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frmd4a (NM_001177844) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Frmd4a
Synonyms:	2700017I06Rik; 5330420J21; AI594879; C230040M21Rik; Frmd4; Gm13190; mKIAA1294
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC223120 representing NM_001177844
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTATTAGCCAGCATCAGTTCTATCTGGACAGAAAGCAGAGTAAGTCCAAGATCCATGCGGCCCGAA
 GTCTGAGCGAGATCGCCATTGACCTGACGGAAACAGGGACCCTGAAGACCTCAAAGCTGGCCAACATGGG
 GAGCAAGGGGAAGATCATCAGCGGGAGCAGTGGGAGTCTGCTGTCTCAGGTTCTCAGGAATCAGATAGC
 TCGCAGTCGGCCAAGAAAGACATGTTGGCTGCCTTGAATCCAGGCAGGAAGCTCTGGAGGAGACGCTGC
 GCCAGAGGCTGGAGGAAGTGAAGAGATTGTGTCTCCGGGAAGCTGAACTCACAGGAAAATTGCTGTGGA
 ATATCCCCTGGATCCAGGCGAGGAACACCTATTGTTCCGAGGAGAATTGGAACAGCCTTCAAGCTGGAT
 GAACAAAAATCTGCCTAAAGGAGAGGAAGCTGAGCTGGAACGCTGGAACGAGAGTTTGCATTAGT
 CCCAGATCACAGAGGCCCGCCCGCTAGCCAGTGACCCCAATGTCAGCAAAAACTGAAGAAGCAAAG
 GAAGACCTTTATTTGAATGCACTGAAGAAGCTGCAGGAGATTGAAAATGCAATCAACGAGAACCGCATC
 AAGTCAGGGAAGAAACCCACCCAGAGGGCTTCACTTGTATCGATGATGGAATATCGCCAGCGAAGACA
 GCTCTCTCTCGGATGCCCTCGTCTGGAAGATGAAGACTCTCAGGTTACAGCACAAATATCCCCCTTACA
 GTCGCCACACAAGGGACTCCCTCCTCGGCCACCTTCATCACACAACAGGCCTCCTCCCCACAGTCCCTG
 GAGGGACTCAGGCAGCTGCACTATCACCGTACCGACTATGACAAGTACCCTTAAAGCCAAAATGTGGA
 GCGAGTCATCTTTAGATGAGCCTTATGAGAAGGTGAAGAAACGCTCCTCCACGGCCATTCCAGCAGCCA
 CAAGCGCTTCCCAGCACAGGAAGCTGTACCGAGGCAGGAGTAAAGAGCTCCTTGCAAGACAGTCCCATC
 CGAAGCCTCCACATTGGAATCCAGTCTAGCATGCCATCCACCCAGACCTGCGCGTCCGGAGTCCCC
 ACTATGTTTATTCCACAAGGTGAGTGGACATCAGCCCCAGGAGACTGCACAGCCTTGCACTGCACCTTTAG
 GCATCGAAGCTCCAGCCTGGAGTCCAGGCAAGCTCCTGGGCTCGGAGAACGACACCGGAAGCCCGGAC
 TTCTACACCCCGAGGACTCGTAGCAGCAATGGCTCAGACCCCATGGACGACTGCTCGTCTGCACAGCC
 ACTCGAGCTCAGAGCACTACTACCCAGCACAGATGAACGCCAACTACTCAACGCTGGCTGAGGACTCGCC
 GTCCAAGGCGCGGACGACAGCGGCAGAGGCAGCGGGCAGCAGGCGCCCTGGGCTCAGCCAGCTCTGGC
 AGCATGCCAACCTGGCGGCCCGCAGCGGGGCTGCAAGCACTGGAGGTGGCGTGTACCTGCACAGCCAGA
 GCCAGCCAGCTCTCAGTACCGCATCAAGGAGTACCCACTATATCGAGGGCAGTGCCACACCCGTGGT
 GGTACGCAGCCTGGAGAGCGACCAGGAGGGCCACTACAGCGTCAAAGCGCAGTTTAAAGCTCCAACCTCT
 TACACAGCTGGCGCCTGTTCAAAGAGAGCTGGCGCGGGGTGGCGACGAGGGGGATGCAGGCCGCTTA
 CACCATCTCGGTCTCAGATCCTCGGACTCCTTGGTGGGGCTGACGGCGCCACAGACAAGGCTCCGG
 CCGTGCCGCGTGTCTGATGAGCTGCGCCAGTGGTACCAGCGCTCCACAGCCTCGCATAAGGAGCACAGC
 CGTCTGTACACACCAGCTCCACCTCCTCGGACAGCGGCTCTCAGTACAGCACCTTCCAGAGACCT
 TCGTGGCGCACAGAGGGTCAACAGGATGCCCCAGATGTGCAAGGCCACGTGAGTGCCTTACCTCAAAG
 CCAGAGAAGCTCAACACCGTCCAGTGAATTTGGAGCCACCCACCAAGCAGCCCCACCACATCTGACC
 TGGCAGACTGGGAGCTACAGTACAGCTGCTTCTGGATTCTCCCTCTATCCAGAGCTAGCTGATGTCC
 AATGGTACGGGCAGGAAAAAGCCAAGCCCGGACCCCTCGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001177844

Insert Size: 2214 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>NM_001177844.1, NP_001171315.1</u>
RefSeq Size:	5836 bp
RefSeq ORF:	2214 bp
Locus ID:	209630
Cytogenetics:	2 A1
Gene Summary:	<p>Scaffolding protein that regulates epithelial cell polarity by connecting ARF6 activation with the PAR3 complex (PubMed:20080746). Plays a redundant role with FRMD4B in epithelial polarization (PubMed:20080746). May regulate MAPT secretion by activating ARF6-signaling (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1.</p>