

Product datasheet for MC223332

Frmd4a (NM_172475) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frmd4a (NM_172475) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Frmd4a
Synonyms:	2700017I06Rik; 5330420J21; AI594879; C230040M21Rik; Frmd4; Gm13190; mKIAA1294
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223332 representing NM_172475 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGGCTCCTATCTCCGATGAGAACAAGATGACGGAGGGCCGTCGATGTCAAGTACATCTCCTTG
ATGACAGGAAGCTGGAGCTGCTAGTACAGCCCAAGCTTTGGCCAAGGAGCTTCTTGACCTCGTGGCCCTC
TCAATTTCAACCTGAAGGAGAAGGAGTACTTTGGAATAGCATTACAGATGAGACGGGACACTTGAATTGG
CTCCAGCTCGATCGGAGAGTCTGGAGCATGACTTCCCCAAAAAGTCTGGGCCGGTGGTTCTGTACTTCT
GTGTCAGATTCTACATAGAGAGCATCTCTACCTGAAGGACAATGCTACCATTGAGCTCTTCTTCTCGAA
TGCCAAGTCTGCATCTACAAGGAGCTGATTGATGTTGACAGTGAAGTGGTATTTGAATTAGCTTCTAT
ATTTTACAGGAAGCAAAAGGAGATTTCTCTAGCAATGAGGTGGTGAAGTGAATCTGAAAAAGCTGCCAG
CGCTACCCACCAAGCCCTGAAGGAACACCCCTCCCTGGCCTACTGTGAAGACAGAGTCAATGAGTACTA
CAAGAAGCTGAATGGCCAGACGAGGGGACAAGCAATCGTGAACACATGAGTATCGTGGAGTCTCTGCCA
ACCTACGGTGTCACTATTATGCAGTGAAGACAAGCAGGGGATACCATGGTGGCTGGAGCTGAGCTACA
AAGGAATTTTCCAGTATGACTACCATGATAAAGTGAAGCCAAGGAAGATATTTCAATGGAGACAGTTGGA
GAATCTGTATTTACAGGAAAAGAAGTTTTCCGTGGAAGTTCATGACCCTCGCAGGGCTTCAGTGACCAGG
AGGACTTTTGGGCACAGTGGCATTGCCGTGCACACCTGGTATGCGTGTCCGGCATTGATCAAGTCCATTT
GGGCGATGGCTATTAGCCAGCATCAGTTCTATCTGGACAGAAAGCAGAGTAAGTCCAAGATCCATGCGGC
CCGAAGTCTGAGCGAGATCGCCATTGACCTGACGGAAACAGGGACCCTGAAGACCTCAAAGCTGGCCAAC
ATGGGGAGCAAGGGGAAGATCATCAGCGGGAGCAGTGGGAGTCTGCTGTCCTCAGGTTCTCAGGAATCAG
ATAGCTCGCAGTCGGCAAGAAAGACATGTTGGCTGCCTTGAATCCAGGCAGGAAGCTCTGGAGGAGAC
GCTGCGCCAGAGGCTGGAGGAAGTGAAGAGATTGTCTCCGGGAAGCTGAACTCACAGGAAAATTGCCT
GTGGAATATCCCCTGGATCCAGGCGAGGAACACCTATTGTTCCGAGGAGAATTGGAACAGCCTTCAAGC
TGGATGAACAAAAATCCTGCCTAAAGGAGAGGAAGCTGAGCTGGAACGCCTGGAACGAGAGTTTGCAT
TCAGTCCCAGATCACAGAGGCCGCCCGCCTAGCCAGTGACCCCAATGTCAGCAAAAACTGAAGAAG
CAAAGGAAGACCTCTTATTTGAATGCACTGAAGAAGCTGCAGGAGATTGAAAATGCAATCAACGAGAACC



GCATCAAGTCAGGGAAGAAACCCACCCAGAGGGCTTCACTTGTCATCGATGATGAAATATCGCCAGCGA
 AGACAGCTCTCTCTCGGATGCCCTCGTTCTGGAAGATGAAGACTCTCAGGTTACCAGCACAATATCCCC
 TTACAGTCGCCACACAAGGGACTCCCTCCTCGGCCACCTTCATCACACAACAGGCCTCTCCCCACAGT
 CCCTGGAGGGACTCAGGCAGCTGCACTATCACCGTACCGACTATGACAAGTACCCTTAAAGCCAAAAT
 GTGGAGCGAGTCATCTTTAGATGAGCCTTATGAGAAGTGAAGAAACGCTCCTCCACGGCCATTCCAGC
 AGCCACAAGCGCTTCCCCAGCACAGGAAGCTGTACCGAGGCAGGAGTAAGCAGCTCCTTGCAGAACAGTC
 CCATCCGAAGCCTCCACATTGGAATCCAGTCTAGCATGCCATCCACCCAGACCTGGCGTCCGGAG
 TCCCCACTATGTTCAATCCACAAGGTCACTGGACATCAGCCCCACGAGACTGCACAGCCTTGCACTGCAC
 TTTAGGCATCGAAGCTCCAGCCTGGAGTCCCAGGGCAAGCTCCTGGGCTCGGAGAACGACACCGGAAGCC
 CCGACTTCTACACCCCGAGGACTCGTAGCAGCAATGGCTCAGACCCCATGGACGACTGCTCGTCTGCAC
 CAGCCACTCGAGCTCAGAGCACTACTACCCAGCACAGATGAACGCCAACTACTCAACGCTGGCTGAGGAC
 TCGCCGTCCAAGGCGGGCAGCGACAGCGGCAGAGGCAGCGGGCAGCAGGCGCCCTGGGCTCAGCCAGCT
 CTGGCAGCATGCCAACCTGGCGCCCGCAGCGGGGCTGCAAGCACTGGAGGTGGCGTGTACCTGCACAG
 CCAGAGCCAGCCAGCTCTCAGTACCGCATCAAGGAGTACCCACTATATATCGAGGGCAGTGCCACACCC
 GTGGTGGTACGCAGCCTGGAGAGCGACCAGGAGGGCCACTACAGCGTCAAAGCGCAGTTTAAAGCTCCA
 ACTCTTACACAGCTGGCGCCCTGTTCAAAGAGAGCTGGCGCGGGGGTGGCGACGAGGGGGATGCAGGCCG
 CCTTACACCATCTCGGTCTCAGATCCTGCGGACTCCTTCGTTGGGGCGTGACGGCGCCACGACAAGGC
 TCCGGCGTGGCGCCGTGTCTGATGAGCTGCGCCAGTGGTACCAGCGCTCCACAGCCTCGCATAAGGAGC
 ACAGCCGTCTGTACACACCAGCTCCACCTCCTCGGACAGCGGCTCTCAGTACAGCACCTTCCAGAG
 CACCTTCGTGGCGCACAGAGGGTACCAGGATGCCCCAGATGTGCAAGGCCACGTCAGCTGCCTTACCT
 CAAAGCCAGAGAAGCTCAACACCGTCCAGTGAATTTGGAGCCACCCACCAAGCAGCCCCACCACATCC
 TGACCTGGCAGACTGGGAGCTACAGTACAGCTGCTTCTGGATTCTCTCCCTCTATCCAGAGCTAGCTGA
 TGTCCAATGGTACGGGCAGGAAAAAGCCAAGCCCGGGACCTCGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172475

Insert Size:

3129 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:

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:

NM_172475.3, NP_766063.3

RefSeq Size:

6338 bp

RefSeq ORF:

3129 bp

Locus ID: 209630

UniProt ID: [Q8BIE6](#)

Cytogenetics: 2 A1

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longest isoform (1).