

## Product datasheet for **MR209996**

### Fermt2 (NM\_146054) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fermt2 (NM_146054) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fermt2
Synonyms:	AA960555; Kindlin-2; Mig2; Plekhc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR209996 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGGAACTGAGCGTCCATG  
TCACGGACCTGAACCGTATGTCACTCTGAGAGTGACCGGGAGGTGCACATCGGAGGGGTGATGCTGAA  
GTTGGTGGAAAACTCGATGTCAAAAAAGATTGGTCGGACCATGCTCTCTGGTGGAAAAAGAGGACT  
TGGCTGCTTAAGACACACTGGACCTTGGATAAGTGTGGCATCCAGGCAGATGCCAAGCTCCAGTTCAACC  
CGCAGCACAACTGCTCCGCCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAACCTTCTCTGA  
CCGAGTCTTCAAGGCTGTGTCTGACATCTGCAAGACTTTCAATATAAGACACCCTGAAGAAGCTTCTCTC  
TAAAAAAACCCAGAGATCCACAAAAGAAAAAAGAAAAAGCTAGATGACCAGTCTGAAGACGAAGCGC  
TTGAGCTGGAAGGACCTTTATCATGCCTGGATCAGGAAGCATATATTCAAGCCCGGACTTTATAGTAA  
AACATGACCCCTACTTACGACGCTCATGATGGAAGCCCTTTGTCACCACTTCTGCCTGGTTTGGTGAC  
AGTGCCCTGTGAGAAGGCAATCCTGGGATACTTGTCTGTCAGTCAAGCAGTAAACATCACCAGAAACTGG  
CAAAAATGTTCAAGCCTCAAGCTCTTCTTGATAAAGCAAAAACCAACCAAGGGTGGCTAGATTCTCAAG  
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GATTTGAATCCAAAGTATGATGCCATCAGAATCAATCAGCTTTACGAGCAGGCCAAGTGGGCTCTTCTCC  
TAGAAGAGATCGAATGCACGGAAGAAGAGATGATGATGTTTCGACGCTTGCAGTATCATATCAATAAGCT  
GTCAATCATGACATCAGAAAATCATTTAAACAACAGTGACAAAGAAGTTGATGAAGTTGACGCTGCCCTT  
TCTGACCTGGAGATCACTTTGGAAGCGGGAAAAACATCAACAATTCTGGGTGACATTACTCAATCCCAG  
AACTTGTGACTATATTAAGTTTTCAAGCCGAAGAAGCTGACTTTAAAGGGGTACAAGCAGTACTGGTG  
CACTTTCAAAGACACGTCCATCTCTGCTACAAGAGCCGAGAAGAGTCCAGTGGTACACCTGCTCATCAG  
CTGAACCTCAGAGGATGTGAAGTTACTCCGGATGTAACATTTTCAGGCCAGAAATTTAACATAAACTCC  
TAATTCGGTAGCAGAGGCATGAATGAGATCTGGCTTCGCTGTGATAACGAGAAGCAGTACGCGCACTG  
GATGGCAGCTTGCAGGTTAGCCTCCAAAGGCAAGACCATGGCAGACAGTCTTACAACCTGGAAGTTCAG  
AACATTCTTCTCTGAAAATGCAGCATCTGAACCCAGACCCCGCTGATCCCTGACCAGATCACAA  
CCGACGTCAACCCGAGTGTCTGGTGTCCCGCGGTACCTGAAGAAGTATAAGAGCAAACAGATAACAGC  
ACGGATCTTGAGGCCCATCAAATGTAGCCAGATGAGCCTGATTGAAGCCAAGATGAGATTCAATCAA  
GCCTGGCAGTCTCTGCTGAGTTCGGCATCACACTTCAATGCGAGTTTCAAGCGGCAAGAGAGAAG  
AACTTATTGGAATTGCATACAACAGTTGATTCGGATGGACGCCAGCACAGGTGACGCCATCAAACCTG  
GCGTTTACGAACATGAAGCAGTGAATGTCAACTGGGAGATCAAGATGGTCACTGTAGAGTTTGCAGAT  
GAGGTCGGTTGTCTTCTCATCTGTACCGAAGTAGACTGCAAGGTGGTCCACGAATTCATTTGGTGGTTACA  
TATTTCTCAACTCGTGCAGAAAGACAAAATGAAAGTTTAGATGAGGAGATGTTCTACAAACTCACCAG  
TGGTTGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA

**Protein Sequence:** >MR209996 protein sequence  
Red=Cloning site Green=Tags(s)

```
MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWSHDALWWEKKRT
WLLKTHWTLDKCGIQADAKLQFTPOHKLLRLQLPNMKYVKVKNVNSDRVFKAVSDICKTFNIRHPEELSL
LKKPRDPTKTKKKKLLDDQSEDEALELEGLIMPGSGSIYSSPLYSKTMPTPTYDAHDGSPLSPTSAAWFGD
SALSEGNGILAVSQPVTSPAILAKMFKPQALLDKAKTNQGWLDSSRSLMEQDVKENEALLLRFKYYSFF
DLNPKYDAIRINQLYEQAQWALLLEEIECTEEEMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAL
SDLEITLEGGKSTILGDITSIPELADYIKVFKPKKLTLYGKYQYWCTFKDTSISCYKSREESSGTPAHQ
LNLRGCEVTPDVNISGQKFNIKLLIPVAEGMNEIWLRCNEKQYAHWMAACRLASKGKTMADSSYNLEVQ
NILSFLKMQHLNPDQQLIPDQITTDVNPECLVSPRYLKKYKSKQITARILEAHQNVQMSLIEAKMRFIQ
AWQSLPEFGITHFIARFQGGKREELIGIAYNRLIRMDASTGDAIKTWRFSNMKQWNVNWEIKMVTVEFAD
EVRLSFICTEVDCKVVHEFIGGYIFLSTRAKDQNESLDEEMFYKLTSGWV
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_146054

**ORF Size:** 2043 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:** [NM\\_146054.3](#)

**RefSeq Size:** 3243 bp

**RefSeq ORF:** 2043 bp

**Locus ID:** 218952

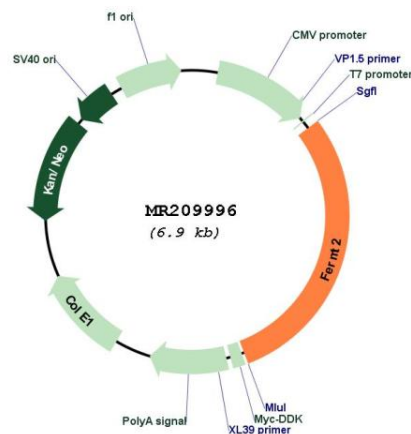
**UniProt ID:** [Q8CIB5](#)

**Cytogenetics:** 14 C1

**MW:** 77.8 kDa

**Gene Summary:** Scaffolding protein that enhances integrin activation mediated by TLN1 and/or TLN2, but activates integrins only weakly by itself. Binds to membranes enriched in phosphoinositides. Enhances integrin-mediated cell adhesion onto the extracellular matrix and cell spreading; this requires both its ability to interact with integrins and with phospholipid membranes. Required for the assembly of focal adhesions. Participates in the connection between extracellular matrix adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits FBLIM1 to focal adhesions. Plays a role in the TGFB1 and integrin signaling pathways. Stabilizes active CTNNB1 and plays a role in the regulation of transcription mediated by CTNNB1 and TCF7L2/TCF4 and in Wnt signaling. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209996