

Product datasheet for **MG209996**

Fermt2 (NM_146054) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fermt2 (NM_146054) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fermt2
Synonyms:	AA960555; Kindlin-2; Mig2; Plekhc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209996 representing NM_146054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTGGACGGGATAAGGATGCCAGATGGCTGCTACGCGGACGGGACGTGGGAACTGAGCGTCCATG
 TCACGGACCTGAACCGTATGCTACTCTGAGAGTGACCGGGAGGTGCACATCGGAGGGGTGATGCTGAA
 GTTGGTGGAAAACTCGATGTCAAAAAAGATTGGTCGGACCATGCTCTCTGGTGGAAAAAGAGGACT
 TGGCTGCTTAAGACACACTGGACCTTGGATAAGTGTGGCATCCAGGCAGATGCCAAGCTCCAGTTACCC
 CGCAGCACAACTGCTCCGCTGCAGCTTCCCAACATGAAGTATGTGAAGGTGAAAGTGAAGTCTCTGA
 CCGAGTCTTCAAGGCTGTGTCTGACATCTGCAAGACTTTCATATAAGACACCCTGAAGAAGTCTCTC
 TAAAAAAACCCAGAGATCCACAAAAGAAAAAAGAAAAAGCTAGATGACCAGTCTGAAGACGAAGCGC
 TTGAGCTGGAAGGACCTTATCATGCCTGGATCAGGAAGCATATATTCAAGCCCGGACTTTATAGTAA
 AACATGACCCCTACTTACGACGCTCATGATGGAAGCCCTTTGTCACCAACTTCTGCCTGGTTTGGT
 GACAGTGCCTGTGAGAAGGCAATCCTGGGATACTTGTGTCAGTCAAGCAGTAAACATCACCAGAAACTGG
 CAAAAATGTTCAAGCCTCAAGCTCTTCTTGATAAAGCAAAAAACCAAGGGTGGCTAGATTCCCTCAAG
 ATCTCTCATGGAGCAAGATGTGAAGGAGAACGAGGCCCTTGTGCTCCGATTCAAGTACTACAGCTTTTT
 GATTTGAATCCAAAGTATGATGCCATCAGAATCAATCAGCTTTACGAGCAGGCCAAGTGGGCTCTTCTCC
 TAGAAGAGATCGAATGCACGGAAGAAGAGATGATGATGTTGCGAGCCTTGCAATCATATAAAGCT
 GTCAATCATGACATCAGAAAATCATTTAAACAACAGTGACAAAGAAGTTGATGAAGTTGACGCTGCCCTT
 TCTGACCTGGAGATCACTTTGGAAGCGGGAAAAACATCAACAATTCTGGGTGACATTACTCAATCCCAG
 AACTTGCTGACTATATTAAGTTTTCAAGCCGAAGAAGCTGACTTTAAAGGGGTACAAGCAGTACTGGTG
 CACTTTCAAAGACACGTCCATCTCTGCTACAAGAGCCGAGAAGAGTCCAGTGGTACACCTGCTCATCAG
 CTGAACCTCAGAGGATGTGAAGTTACTCCGGATGTAACATTTTCAGGCCAGAAATTTAACATAAACTCC
 TAATTCGGTAGCAGAGGCATGAATGAGATCTGGCTTCGCTGTGATAACGAGAAGCAGTACGCGCACTG
 GATGGCAGCTTGCAAGTTAGCCTCCAAAGGCAAGACCATGGCAGACAGTCTTACAACCTGGAAGTTCAG
 AACATTCTTCTCCTGAAAATGCAGCATCTGAACCCAGACCCCGCTGATCCCTGACCAGATCACAA
 CCGACGTCAACCCGAGTGTCTGGTGTCCCGCGGTACCTGAAGAAGTATAAGAGCAAACAGATAACAGC
 ACGGATCTTGAGGCCCATCAAATGTAGCCAGATGAGCCTGATTGAAGCCAAGATGAGATTCATTCAA
 GCCTGGCAGTCTCTGCTGAGTTCGGCATCACACTTCATTGCGAGTTTCAAGCGGCAAGAGAGAAG
 AACTTATTGGAATTGCATACAACAGTTGATTCCGATGGACGCCAGCACAGGTGACGCCATCAAACCTG
 GCGTTTACGAACATGAAGCAGTGAATGTCAACTGGGAGATCAAGATGGTCACTGTAGAGTTTGCAGAT
 GAGGTCGGTTGTCTTCTCATCTGTACCGAAGTAGACTGCAAGGTGGTCCACGAATTCATTGGTGGTTACA
 TATTTCTCAACTCGTGCAGAAAGACAAAATGAAAGTTAGATGAGGAGATGTTCTACAAACTCACCAG
 TGGTTGGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209996 representing NM_146054
 Red=Cloning site Green=Tags(s)

MALDGIRMPDGCYADGTWELSVHVTDLNRDVTLRVTGEVHIGGVMLKLVEKLDVKKDWSHDHALWWEKRT
 WLLKTHWTLDKCGIQADAKLQFTPOHKLLRLQLPNMKYVKVKNVSDRVFKAUSDICKTFNIRHPEELSL
 LKKPRDPTKKKKKLLDDQSEDEALELEGPLIMP GSGSIYSSPLYSKTMPTPTDAHDGSPLSPTSAWFGD
 SALSEGNGPILAVSQPVTSP EILAKMFKPQALLDKAKTNQGWLDSRSLMEQDVKENEALLRKFYYSFF
 DLNPKYDAIRINQLYEQAKWALLLEEIECTEEEMMMFAALQYHINKLSIMTSENHLNNSDKEVDEVDAAL
 SDLEITLEGGKTSILGDITSIP ELADYIKVFKPKKLT LKGYKQYWCTFKDTSISCYKSREESSGTPAHQ
 LNLRGCEVTPDVNISGQKFNIKLLIPVAEGMNEIWLRC DNEKQYAHWMAACRLASKGKTMADSSYNLEVQ
 NILSFLKMQHLPDPQLIPDQITTDVNPECLVSPRYLKKYKSKQITARILEAHQNV AQMSLIEAKMRFIQ
 AWQSLPEFGITHFIARFQGGKREELIGIAYNRLIRMDASTGDAIKTWRFSNMKQVNVNWEIKMVTVEFAD
 EVRLSFICTEVDCKVVHEFIGGYIFLSTRAKDQNESLDEEMFYKLTSGWV

TRTRPLE - GFP Tag - V

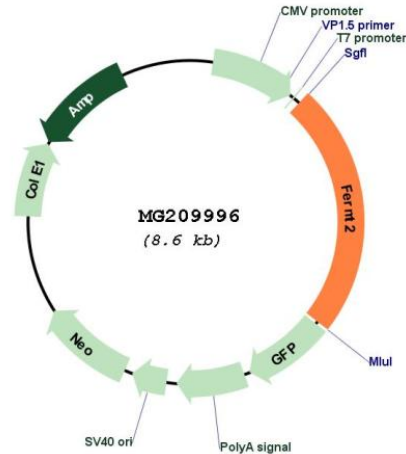
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_146054

ORF Size: 2040 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

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]