

## Product datasheet for **MC229468**

### Fmn1 (NM\_001285459) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fmn1 (NM\_001285459) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fmn1  
**Synonyms:** Fmn; formin-1; ld  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229468 representing NM\_001285459  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGGTTGGTAACTCTCTCAGCAGCAGAGATGTGCTGGAACCAGACAAATCCGAAGCCGGACTTG  
AGATGGCTCAGTCGATCCTGAGTAAATTCTCTATGAAATCCCTGTTTGGATTTACAAATAAATTGGACTC  
CTTGGAGCCTGAAGAGGAAGATGCTGTGCTGAAGGCATTCGCAGTTTAGAGGGGGATCCCGCTCCTGAG  
CGAGGTGATCCCAGCAAAGGCTCAGATCAGCCACAGGCAGAGGCTCCAGTTCCACCTGATCTTAAAAATG  
ATGGAAAGTCAGCAAGGGCGGAGACAGGATCTGAGGGAAGTCAGGGGAAAAGGCAGATCAAACACCTCTTC  
CCCTGGTTATGAGCTTTTCGCTGTACAGTGTGAGCGTGGACAATGAGGAAGTCATTTGGTCCGTGGGACC  
CTGGTTCACACCACAGTATTCTGACTCTGAAGATGGAGACCAGGAGGCAGAAGAAGAAAGTAGCCTTG  
ATACCCAAAAGCCACCCTGTTGTTTTATGTGAACCTTCTCAAGAGCCCAAAGACAGAGCAGGGGATTC  
CGAAGAAAATACAGACTGGGAACACTGATGATACAGAACTCTGTGCTGAAGAGTCTCAGAGAACTTTA  
CCTGAGACAAGTAGCAAAGTGGTGGTGGTAGCCATCCGGCAGAGCACAGCCCCAGGCAGG  
ACCAGGCTGCAGAAGAAGGCTCAAATCCCACCCGAGCAACAGACCAGACTGTAGTGCCCTTGCGAG  
CACTGTTTCTAAAAGAGAAGCTCCGGAAGAGAAGCCCTTCCAGCTTCCAGCTTTCTCAGTGGGCTCCGT  
GTGCTGAAGAAGGGGGTACCGCAGAGGAGGGGAGACCATCACTGAAATCAAACCAAGGACGGGGACC  
TGGCTTTGCTCAAGTTGACCCAGCGTGTTCAGAAGTCTCTGGGACAGGGAGGCCACAGACAGTGAAGAG  
CCCAGGTAGAGCAACTGATCCGAAGGCCACTCCCCTCTCCTGGAGCAGCTATCACAGCTGCTCAACATT  
GACATGCCAAGGACCGAACAGAAGGAAGCGGACCCCGAGTTTCATGGTCCGGATGAGATGGGTTACAGTA  
CTGACCAGGAGAGCCACAAGAGCCCCAGAGATGCCACGTCACAGGTTGTCAGGTGAAGGCAAGAACC  
AGAGACTGCCCTTGAGGCATTTAAGCCCTTATTTCATCCGTCACCCAAAAGGGGAGCACAGCTGACT  
TCTGAGCTGGAAGCTCTAAGCGAAAGATGAAGCATGAGAAGGAGTCACTACGCGCTGTGTTTCGAGAGGT  
CCAAGTCTCGGCCGGCAGACAGCCGCTGATCCCAAAGCCCTGACCAGAGCCCCACAGAGCAGGACGA  
CAGGACTCCAGGCAGACTCCAAGCTGTCTGGCCACCCCAAAGACAAAGGACACAGAAGAAAAGTGGGA  
CTGAAGTACACTGAAGCAGAATACCAGGCTGCTATCCTACATCTGAAGAGGGAGCACAAAGAAGAAATCG



[View online >](#)

AAACCCTGCAGGCTCAGTTTGAAGCAAGACATTTACATCCGGGGTGAGCACGCATTAGTAACAGCAAG  
 ACTTGAAGAAGCCATTGAAAATCTCAAGCAACAGTTAGGAAAGCGCCGGGAAGGATGTGAAGAGATGAGA  
 GATGTGTGCATTTCCACAGATGATGACTGCTCTCAAAGGCTTTTCAGAAATGTGTGCATCCAGACAGACA  
 GAGAGACCTTCCCAAGCCCTGTGATGCTGAAAGCAAAGCAACCAGAAGCAGCCAGATAGTACCCAAGAA  
 GCTGACTATCTCCTTAACCCAGCTCTCTCCCTCAAAGACAGCAAAGACATCCACGCCCATTCAGACA  
 AGAGAAGGCACCTCCTCATCTAGTCAGCATAAGATATCCCCTCCAGCTCCCCCAGCCACCACCCTCC  
 CTCCACCTCTCATTCTCCACCTCCGCCCTCCACCTGGACTTGACCTTTGCCTCCAGCACCACCCT  
 ACCACCTGTGTCTGTGTCGCCACCGCCACCTCCTCCGCTCCTCCTCAACTCCCGTCCCTCCAAGT  
 GATGGACCACCACCACCACCTCCTCCACCACCTTCCCAATGTCCTAGCTTCTTCTAACAGTGGAG  
 GTCCTCCTCCTCCTCCACCTCCTCCTCCGCCAGGACTTGACCCCCACCTCCTCCTGGACTGTCCTTTGG  
 ACTCAGCTCTTCTCCAGCCAGTATCCTCGTAAACCAGCCATTGAGCCCAGCTGTCCTATGAAACCTTTG  
 TATTGGACCAGAATACAAATAAATGATAAAAGCCAAGACGCCGACCAACTTTATGGACTCCTTAGAAG  
 AGCCTCATATTAGGGACACAAGTGAATTTGAATATTTATCTCCAAGGACACAACCAACAGAAGAAAA  
 ACCCCTGTGAGAGCCTACGAAAAGAAGCAAAAGTCAAAAAGATCATCAAGTTATTGGATGAAAGCGA  
 TCTCAAAGTGTGGGAATCTTGATATCTAGTTTACATCTAGAAATGAAAGATATTCACAGCCATATTTA  
 CTGTGGATGACTCCGTGGTTGACCTGGAGACCTTAGCAGCCTTATATGAAATCGAGCCAGGAGGATGA  
 ACTGACTAAAATAAGAAAGTACTATGAGACATCCAAAAGAAGAAAGACTTAAAAGTCTGGACAAAACCTGAA  
 CAATTTTTGATGAGTTAGCCCAGATTCCTCAATTTTGCCGAACGTGCCAGTGCATAATCTTCAGGGCTG  
 TATTTTCTGAGGGTATCACATCCTTACATCGAAAAGTAGAGATTGTCACACGGGCCTCGAAGGGCTTGT  
 GCATGAAGAGTGTGAAGGATATCTTAGCTCTCATTCTGGCTTTTGGAAACTACATGAATGGAGGAAAC  
 AGGACGCGAGGGCAAGCAGACGGATATAGTTTAGAAATCTGCCAAACTCAAAGACGTCAAAGTCCGGG  
 ACAATGGGATGAATCTGGTGGACTATGTTGTGAAGTACTACCTGCGATACTATGATCAGGAAGCTGGAAC  
 AGACAAGAGTGTTCCTCCGCTGCCTGAACCACAGGATTTCTTCCGCTCCTCAAGTCAAGTTTGAAGAC  
 CTCTAAAGGATTTGAGGAAGCTGAAGCGTCAACTAGAAGCAAGTGAGCAACAGATGAAGCTGGTGTGCA  
 AGGAGTCCCCAAGGGAGTACCTGCAGCCTTCAAGGACAAACTGGAGGAGTTCTTCAAGAAAGCCAAAAA  
 AGAGCACAAAGATGGAAGAAAGTCACTTGGAGAATGCACAGAAAAGTTTTGAAACAACAGTGGGATATTTT  
 GGAATGAAGCCAAAGACTGGAGAGAAGGAGTCAACCCAGCTATGTGTTTATGGTGTGGTTTGGATTCT  
 GCAGTACTTCAAGACATTTGGAAGCGGGAGAGTAAGAACATATCTAAAGAAAGATTGAAAATGGCTCA  
 GGCATCCGTGAGCAAACTGACATCAGAGAAGAAAGTGGAGACAAAGAAAATCAATCCCACCGCTAGTCTG  
 AAAGAAAGACTGCGTCAGAAGGAAGCCAGCGTGGCCACCACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001285459
- Insert Size:** 3615 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001285459.1](#), [NP\\_001272388.1](#)

**RefSeq Size:** 11147 bp

**RefSeq ORF:** 3615 bp

**Locus ID:** 14260

**UniProt ID:** [Q05860](#)

**Cytogenetics:** 2 57.3 cM

**Gene Summary:** Plays a role in the formation of adherens junction and the polymerization of linear actin cables.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) represents the use of an alternate promoter, differs in the 5' UTR, lacks 5' coding sequence and an alternate in-frame exon in the 3' coding region, and uses an alternate start codon compared to variant 1 (PMID: 1339380). The resulting protein (isoform 4, also known as IV) has a distinct N-terminus and is shorter compared to isoform 1.  
Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.