

## Product datasheet for MC229735

### Fn1 (NM\_001276409) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fn1 (NM\_001276409) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fn1  
**Synonyms:** E330027109; Fn; Fn-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229735 representing NM\_001276409  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTCAGGGTCCGGACCCGGCGGCTGCTGCTGCTGGCAGTCCTGTGCCTGGGACCTCGTGCGCT  
GCACCGAAGCCGGGAAGAGCAAGAGGCAGGCTCAGCAAATCGTGCAGCCTCAATCCCCGGTGGCTGTCAG  
TCAGAGCAAGCCTGGCTGTTTTGACAATGGGAAGCACTATCAGATAAATCAGCAGTGGGAACGGACCTAC  
CTAGGCAACGCCCTGGTTTGTACCTGCTATGGAGGAAGCCGGGGTTTTAACTGCGAGAGCAAGCCTGAGC  
CTGAAGAGACTTGCTTTGACAAATACACTGGGAACACTTACAAAGTGGGTGACACTTATGAGCGCCCTAA  
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CGCTGCCATGAAGGGGTCAGTCTACAAGATTGGCGACAAGTGGAGGAGGCCACATGAGACTGGTGGCT  
ACATGTTAGAGTGTCTGTCTGGGAAATGGAAAAGGGGAATGGACCTGCAAACCTATAGCTGAGAAAGTG  
TTTTGATCATGCTGCTGGGACGTCTACGTCGTGGGGAGACCTGGGAAAAGCCCTACCAAGGCTGGATG  
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GCCGGATCTGGCTCCTTCACTGATGTCCGAACAGCTATTTACCAACCGCAGACTCACCCCGAGCCGCTC  
CCTACGGCCACTGTGTCACCGACAGTGGTGTGGTCTACTCTGTGGGAATGCAGTGGCTGAAGTCGCAAGG  
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TATGGTGGCAATTCAAACGGGGAGCCCTGTGTCTCCCGTTCACCTACAACGGTAGGACCTTCTATTCT  
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GTATTCTTCTGCACAGACCATGCGGTTTTGGTTCAGACTCGAGGCGGAAATTCATGGTGTCTGTGTC  
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TCCGAGACCAGTGCATCGTTGATGACATTACTTACAATGTGAACGACACGTTCCACAAGCGTCACGAGGA  
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 AGTTTCCAGGTACAGGTGACCTACTCGAGCCCTGAGGATGGAATCCGGGAGCTTTTCCCTGCACCTGAT  
 GGTGAAGACGACTGCAGAGCTGCAGGGCCTCAGGCCGGGTCTGAGTACACAGTCAAGTGTGGTTGCC  
 TGCACGATGATATGGAGAGCCAGCCCTGATTGGAATCCAGTCCACAGCCATTCTGCGCCCAACATCT

GAAGTTCAGTCAGGTGACACCCACCAGCTTTACTGCCAGTGGATAGCACCCAGTGTTTCAGCTCACTGGC  
TACCGGGTGC GGGTGAACCCGAAAGAGAAGACAGGACCAATGAAAGAAATCAACCTTTCTCCAGACAGCT  
CATCGGTGATTGTGTCAGGACTCATGGTGGCCACTAAATACGAAGTCAGTGTCTATGCTCTCAAGGACAC  
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AAGTCGATGCCATCCCAGCCAATGGCCAGACCCAGTTTCAGAGGAGCATCAGCCCGGATGTTAGAAGCTA  
CACCATTAACAGGTTTACAGCCAGGCACTGACTACAAGATCCACCTGTACACTCTGAACGACAATGCCCGG  
AGCTCGCCCGTGATCATCGATGCCTCCACCGCCATCGACGCACCATCCAACCTGCGGTTCCTGACCACCA  
CACCCAACCTCCTTGTGCTGATGTCATGGCAGGCGCCCGTGCAGGATTACTGGCTACATTATCAAGTATGA  
GAAGCCTGGATCCCCTCCAGAGAAGTGGTCCCTCGGCCCGCCCTGGTGTACGGAGGCCACCATTACT  
GGTCTGGAGCCAGGAACCGAGTACACCATCTACGTCATTGCCCTGAAGAACAATCAGAAGAGTGAGCCCC  
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GGGCCTCAATCCAAATGCCTCTACAGGACAGGAAGCTCTCTCTCAGACAACCATCTCTTGACGCGGTTT  
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GGCACTGCAGAACCAGAGGAGGCACAAGGTTCCGGGAAGAGGTTGTGACTGTGGGCAACGCTGTGACGGAA  
GGCCTGAACCAGCCTACAGATGACTCATGCTTTGACCCTTACACGGTTTCCCATACGCCATTGGAGAGG  
AGTGGGAGCGGTTGTCTGACGCTGGCTTAAAGCTCACATGCCAGTGTGGGCTTGGCAGTGGTCAATTT  
CAGATGCGATTTCATCTAAATGGTGCCATGACAACGGTGTCAACTACAAGATCGGAGAGAAGTGGGATCGG  
CAGGGAGAAAATGGCCAGCGGATGAGTGCACATGCCTCGGGAATGAAAAGGAGAAATTCAGTGTGATC  
CCCATGAAGCAACGTGCTATGACGATGGGAAGACCTACCATGTAGGAGAACAGTGGCAGAAAAGAAATATCT  
CGGAGCCATTTGCTCCTGCACGTGTTTCGGAGGCCAGCGGGGCTGGCGCTGTGACAACCTGCCGTAGACCT  
GGGGCTGTGAACCCAGTCCCGATGGCACCACCGGCCACACCTACAACAGTATACACAGAGATAACAATC  
AGAGAACAACACTAACGTAAATTGCCCCATTGAGTGCTTATGCCGCTAGATGTGCAAGCTGACAGAGA  
CGATTCTCGAGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001276409
- Insert Size:** 7086 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\\_001276409.1](#), [NP\\_001263338.1](#)

**RefSeq Size:** 8077 bp

**RefSeq ORF:** 7086 bp

**Locus ID:** 14268

**Cytogenetics:** 1 36.05 cM

**Gene Summary:** Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) lacks an in-frame exon and uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (c) is shorter than isoform a.