

Product datasheet for MR227059

Fn1 (NM_010233) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fn1 (NM_010233) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fn1
Synonyms:	E330027I09; Fn; Fn-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227059 representing NM_010233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGCTCAGGGGTCCGGGACCCGGGCGGCTGCTGCTGCTGGCAGTCTGTGCCTGGGACCTCGGTGCGCTGCACCGAAGCCGGGAAGAGCAAGAGGCAGGCTCAGCAAATCGTGCAGCCTCAATCCCCGGTGGCTGTCAGTCAGAGCAAGCCTGGCTGTTTTGACAATGGGAAGCACTATCAGATAAATCAGCAGTGGGAACGGACCTACTAGGCAACGCCCTGGTTTGTACCTGCTATGGAGGAAGCCGGGTTTTAACTGCGAGAGCAAGCCTGAGCTGAAGAGACTTGCTTTGACAAAATACACTGGGAACACTTACAAAGTGGGTGACACTTATGAGCGCCCTAAAGATTCATGATCTGGGACTGTACCTGCATCGGGGCTGGGAGAGGCAGGATCAGCTGTACCATTGCAAAATCGCTGCCATGAAGGGGTCAGTCTACAAGATTGGCGACAAGTGGAGGAGCCACATGAGACTGGTGGCTACATGTTAGAGTGTCTGTGTCTGGGAAATGGAAAAGGGGAATGGACCTGCAAACCTATAGCTGAGAAGTGTTTTGATCATGCTGCTGGGACGTCTACGTCGTGGGGGAGACCTGGGAAAAGCCCTACCAAGGCTGGATGATGGTGGACTGTACTTGTCTAGGCGAAGGCAATGGACGCATCACCTGTACCTCCAGAAACAGATGCAACGATCAGGACACCCGGACATCCTATAGGATTGGAGACACGTGGAGCAAGAAGGACAACCGAGGAAACCTGCTCAGTGTGTCTGCACAGGCAATGGCAGAGGGGAGTGGAAAGTGTGAGCGACATGCTCTACAAAGTGCCTCA GCCGGACTGGCTCCTTCACTGATGTCCGAACAGCTATTTACCAACCGCAGACTACCCCCAGCCCGCTCCTACGGCACTGTGTACCCGACAGTGGTGTGGTCTACTCTGTGGGAATGCAAGTGGCTGAAAGTGCAGGAAACAAGCAAATGCTGTGCACGTGCCTGGGCAATGGCGTCAGCTGCCAGGAGACAGCCGTGACCCAGACTTATGGTGGCAATCAAACGGGGAGCCCTGTGTCCTCCCGTTCACCTACAACGGTAGGACCTTCTATTCTGCACCACCGAAGGGCGCAAGACGGACATCTGTGGTGTAGCACAACCTTCCAATTACGAACAAGACCAGAA GTATTCTTCTGCACAGACCATGCGGTTTTGGTTCAGACTCGAGGCGGAAATCCAATGGTGTCTGTGCACTTCCCCTTCTGTACAACAACCGAATTACACCGACTGTACTTCTGAGGGTCGACGGGACAACATGA AATGGTGGCCACCAACCCAGAATACGATGCCGATCAGAAGTTGGATTCTGCCAATGGCTGCCACGAGGAGATCTGCACAACCAATGAAGGGTCATGTATCGCATTGGGGATCAGTGGGATAAGCAGCATGACCTG



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GGCCACATGATGAGGTGCACGTGTGTGGGAACGGTCGTGGAGAATGGGCCTGCATCCCCTACTCCCAGC
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Protein Sequence: >MR227059 representing NM_010233
 Red=Cloning site Green=Tags(s)

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 WERLSDAGFKLTCQCLFGSGHFRCDSSKWKHDNGVNYKIGEKWDRQGENGQRMSC TCLGNGKGEFKCDP
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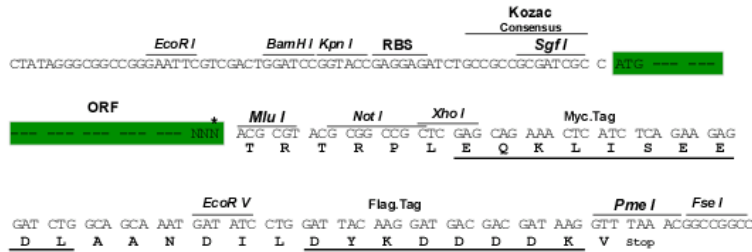
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010233

ORF Size: 7431 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_010233.2](#), [NP_034363.1](#)
RefSeq Size: 8312 bp

RefSeq ORF: 7434 bp

Locus ID: 14268

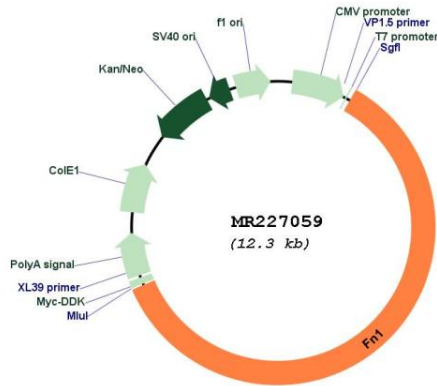
UniProt ID: [P11276](#)

Cytogenetics: 1 36.05 cM

MW: 273 kDa

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]

Product images:



Circular map for MR227059