

Product datasheet for **MR200894**

Pfn2 (NM_019410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pfn2 (NM_019410) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pfn2
Synonyms: Pfn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200894 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTGCGATGGCTGCTGCCAGGAGGCCGCCATTGTCC
 GCTACTGCGACGCCAAATACGTCTGGGCAGCCACGGCCGGGGCGTCTTCCAGAGCATCACGCCAGTAGA
 AATAGATATGATTGTAGGAAAAGACCGGAAGTTTCTTTACCAACGGTTTGACTCTGGAGCAAAGAAG
 TGTTCTGTGATCAGAGATAGCCTATACGTTGATGGTACTGCACAATGGACATCCGGACAAAGAGTCAAG
 GTGGGGAGCCAACATAACAACGTTGCTGTTGGCAGGGCCGGAGAGTCTTGGTCTTTGTAATGGGAAAAGA
 AGGGTCCATGGAGGCGGATTGAATAAGAAGGCATACTCAATGGCAAATACTTGAGAGACTCTGGGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200894 protein sequence
 Red=Cloning site Green=Tags(s)

MAGWQSYVDNLMCDGCCQEAAIVGYCDAKYVWAATAGGVFQSITPVEIDMIVGKDREGFFTNGLTLGAKK
 CSVIRDSLIVYVDGCTMDIRTKSQGGEPTYNVAVGRAGRVLVFMGKEGVHGGGLNKKAYSMAYLRDSGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_019410

ORF Size: 423 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_019410.3](#)

RefSeq Size: 2020 bp

RefSeq ORF: 423 bp

Locus ID: 18645

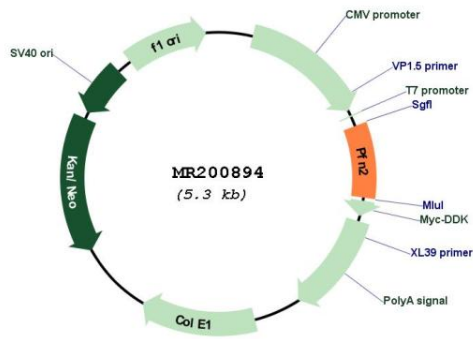
UniProt ID: [Q9JJV2](#)

Cytogenetics: 3 28.15 cM

MW: 15 kDa

Gene Summary: Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200894