

Product datasheet for **MG200894**

Pfn2 (NM_019410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pfn2 (NM_019410) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pfn2
Synonyms: Pfn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200894 representing NM_019410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGTTGGCAGAGCTACGTGGATAACCTGATGTGCGATGGCTGCTGCCAGGAGGCCGCCATTGTCCG
 GCTACTGCGACGCCAAATACGTCTGGGCAGCCACGGCCGGGGCGTCTTCCAGAGCATCACGCCAGTAGA
 AATAGATATGATTGTAGGAAAAGACCGGGAAGTTTCTTTACCAACGTTTGACTCTTGGAGCAAAGAAG
 TGTTCTGTGATCAGAGATAGCCTATACGTTGATGGTACTGCACAATGGACATCCGGACAAAGAGTCAAG
 GTGGGGAGCCAACATACAACGTTGCTGTTGGCAGGGCCGGGAGAGTCTTGGTCTTTGTAATGGGAAAAGA
 AGGGTCCATGGAGGCGGATTGAATAAGAAGGCATACTCAATGGCAAATACTTGAGAGACTCTGGGTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200894 representing NM_019410
 Red=Cloning site Green=Tags(s)

MAGWQSYVDNLMCDGCCQEAAIVGYCDAYVWAATAGGVFQSITPVEIDMIVGKDREGFFTNGLTLGAKK
 CSVIRDSLIVDGDCTMDIRTKSQGGEPTYNVAVGRAGRVLVFMGKEGVHGGGLNKKAYSMAYLRDSGF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

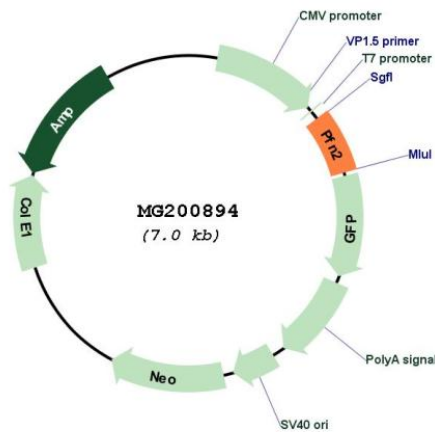


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Cloning Scheme:



Plasmid Map:



ACCN: NM_019410

ORF Size: 420 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:	<ol style="list-style-type: none">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:	1844 bp
RefSeq ORF:	423 bp
Locus ID:	18645
UniProt ID:	Q9JJV2
Cytogenetics:	3 28.15 cM
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]