

Product datasheet for **RG202338**

Profilin 1 (PFN1) (NM_005022) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Profilin 1 (PFN1) (NM_005022) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Profilin 1
Synonyms: ALS18
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202338 representing NM_005022
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGTGGAACGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACCGGCCATCGTGG
GCTACAAGGACTCGCCCTCCGTCTGGGCCCGCGTCCCCGGGAAAACGTTTCGTCAACATCACGCCAGCTGA
GGTGGGTGTCCTGGTTGGCAAAGACCGGTCAAGTTTTTACGTGAATGGGCTGACACTTGGGGCCAGAAA
TGTTCCGTGATCCGGGACTCACTGCTGCAGGATGGGAAATTTAGCATGGATCTTCGTACCAAGAGCACCG
GTGGGGCCCCACCTTCAATGTCACTGTCACCAAGACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGA
AGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCCACCTTCGGCGTTCACAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202338 representing NM_005022
Red=Cloning site Green=Tags(s)
MAGWNAYIDNLMADGTCQDAAIIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTLGGQK
CSVIRDSLLQDGEFSMDLRTKSTGGAPTFNVTVTKTDKTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005022

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:

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_005022.4](#)

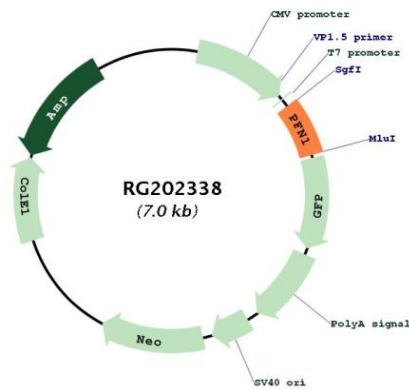
RefSeq Size: 847 bp

RefSeq ORF: 423 bp

Locus ID: 5216
UniProt ID: [P07737](#)
Cytogenetics: 17p13.2
Domains: PROF
Protein Families: Druggable Genome, Stem cell - Pluripotency
Protein Pathways: Regulation of actin cytoskeleton
Gene Summary:

This gene encodes a member of the profilin family of small actin-binding proteins. The encoded protein plays an important role in actin dynamics by regulating actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome, and the encoded protein may also play a role in Huntington disease. Multiple pseudogenes of this gene are located on chromosome 1. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG202338