

Product datasheet for RC236157

PIFO (NM_001300831) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIFO (NM_001300831) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PIFO
Synonyms: C1orf88; pitchfork
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC236157 representing NM_001300831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCTTCAGCAGAGCAGACGCTGCGGATAACTACCTTTTGAACATGTCAACAGAGGAACTTTTTC
 CTCACTTCCATCCCCGAATTTGATTGGGAACAAGTTTGTCCCTCTAGGGGATCACCCACAGAGGGCC
 TGGGTGTTATTTTCAGATGAAATGACACCTCATGCAGGCAGGTACCAGAAAGTAAGTCTCAGCAGGAA
 AAACACAAACAAAATTTGCTCCATTTAATGTCTTGGTGCCTCGATTTAAGAACTACCCAAAGGACACTT
 ACTATCCAGCCCTGGTGCATACAACCCAGAGAAGAAGCCACCGCCAAAATTGCCTGGCCAATGAAATT
 TGGATCTCCAGACTGGGCTCAGGTTCCATGTCTACAGAAAAGAACCCTAAAAGCTGAGCTGTCCACAGAC
 AAAGACTTTAGAAAGCATCGGAACCGTGTGGCCTACCTAAGCCTGTATTATAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236157 representing NM_001300831
 Red=Cloning site Green=Tags(s)

MCFSRADAADNYPFGTCQQRKLFPHFHPNLIIGNKFVPLRGSPHRGPGCYFSDENTPHAGRYQKVSPQQE
 KHKQNFAPFNVLVPRFKNYPKDTYYPSPGAYNPEKKPPPKIAWPMKFGSPDWAQVPLQKRTLKAELESTD
 KDFRKHNRNVAYLSLYYN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001300831

ORF Size: 474 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001300831.1](#), [NP_001287760.1](#)

RefSeq Size: 2260 bp

RefSeq ORF: 477 bp

Locus ID: 128344

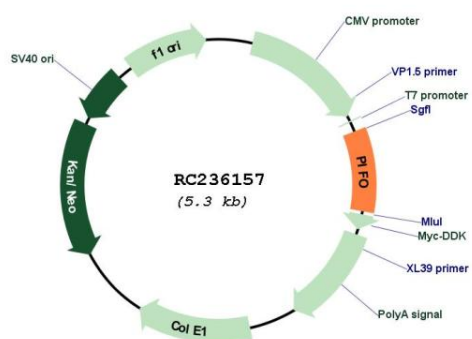
UniProt ID: [Q8TCI5](#)

Cytogenetics: 1p13.2

MW: 18.8 kDa

Gene Summary: During primary cilia disassembly, involved in cilia disassembly. Required specifically to control cilia retraction as well as the liberation and duplication of the basal body/centrosome. May act by stimulating AURKA activity at the basal body in a cell cycle-dependent manner.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC236157