

Product datasheet for RC229967

FUZ (NM_001171937) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FUZ (NM_001171937) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FUZ
Synonyms: CPLANE3; FY; NTD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC229967 representing NM_001171937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTGCTGTGCCTCGCGGCCTCCAGCGGGTCCCCCTAT
 TCTGCAGGAGCAGTCGCGGCGGCCCCCGCCCGTCAGCAGCTCCCGTTCTCTGCATCGGTTCCCTCAA
 TGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCTGCGAGGACCGAGAACAGACTGTG
 GTCCTTCTGTGGGACTGAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGG
 CCAGTTATTGCCTCATCGACAGTTCCTGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGA
 CTGCGTGATTCTCCAGAGGGTCCCTCTGCAGGAAGCCCTCTCCGGGTTGCTGAGGCCGCGGGCAGG
 ACCTTCGTCAGTCTGGTGGTGTCCGGCCGGTGGTGGCAGCAACAGAGGGTGGTGGCGGCTGGGGACGC
 CCGAGGCCGCTGCTGCCCTGGCTGGTGGGTCCTGCCGCCGAGACCGCTCGCGACTACCCGGTGTGTA
 CCTGCCGACGGGAGCCCCACGGTCCCACACCGGCTCCTGACCCTGACTCTGCTGCCGAGCCTGGAGCTG
 TGTCTACTCTGCGGGCCGAGCCACCCCTCAGCCAGTTGTATCCACAGCTTCTGGAGCGCTGGTGGCAGC
 CACTGTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCAGTGGCTTCCCCCTTCA
 CACAGACATCCTCGGGCTGCTGCTCCTCACCTGGAACGAAGCGCTGCCTTTACCCTGGAGCCCTTG
 GGGATAAAGAGCCTTACCAGAACAGCGCCGGCGCCTCCTCCGAACTCTATACCTGGTCCACCTCCA
 CGCACTCCACAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCACG
 AGCTTGCTACCTGGTGTGGGGACTGAGGAACAGGCACAGGAGTGCCTGCTGGTGGCCTGCAGCTGGGG
 CTTCCGGCGGCTGCTGCTGCTGCTCCTCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACA
 CTCTGCATGCCCTCACCCACTTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229967 representing NM_001171937
 Red=Cloning site Green=Tags(s)

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFGQNLEVQLSSARTENTTV
 VLLVGLLEELTNIRNVERLKKDLRASYCLIDSFLGDSELIIGDLTQCVDCVIPPEGSLLQEALSGFAEAAGT
 TFVSLVVSGRVVAATEGWWRLLGTPEAVLLPWLVGSLPPQTARDYPVYLPHGSPTVPHRLLTLTLLPSLEL
 CLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLLLLHLELKRCLFTVEPL
 GDKEPSPEQRRRLLRNFYTLVTSTHFPEPGPPEKTEDEVYQAQLPRACYLVLGTTEPGTGVRLVALQLG
 LRRLLLLLSPQSPHGLRSLATHLHALTPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001171937

ORF Size: 1146 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_001171937.2](#)

RefSeq Size: 1654 bp

RefSeq ORF: 1149 bp

Locus ID: 80199

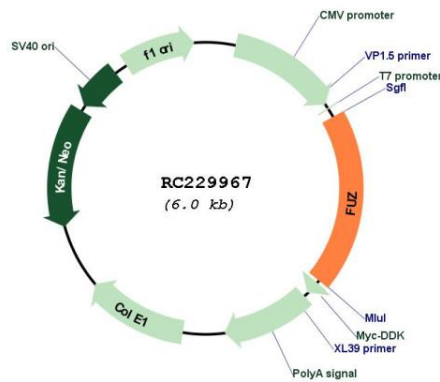
UniProt ID: [Q9BT04](#)

Cytogenetics: 19q13.33

MW: 41.6 kDa

Gene Summary: This gene encodes a planar cell polarity protein that is involved in ciliogenesis and directional cell movement. Knockout studies in mice exhibit neural tube defects and defective cilia, and mutations in this gene are associated with neural tube defects in humans. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC229967