

Product datasheet for **RG200763**

FUZ (NM_025129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUZ (NM_025129) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FUZ
Synonyms:	CPLANE3; FY; NTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200763 representing NM_025129 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTGCTGTGCCTCGCGGCCTCCAGCGGGTCCCCCTAT
TCTGCAGGAGCAGTCGCGGCGGCCCCCGCCCGTCAGCAGCTCCCGTTCTGTGCATCGGTTCCCTCAA
TGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCTGCGAGGACCGAGAACAGACTGTG
GTGTGGAAAAGCTTCCATGACAGCATCACCTCATTGTTCTGTGCATCTGAGGTGGGCATCTCTGAGCTGA
GGCTGGAGAGACTACTCAAATGGTGTGGAGCCATGGTCTTCTGTGGGACTGAAGAACTGACCAA
TATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGCTTCTGGGG
GACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTCTTGC
AGGAAGCCCTCTCCGGGTTGCTGAGGCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGT
GGTGGCAGCAACAGAGGGTGGTGGCGGCTGGGGACGCCCCGAGGCCGTGCTGCCCTGGCTGGTGGGG
TCCCTGCCGCGCAGACCGCTCGCGACTACCGGTGTACTGCCGCACGGGAGCCCCACGGTCCCACACC
GGCTCTGACCTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCCACCTCAG
CCAGTTGATCCACAGCTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCC
TTGGGACCCCGGGCCTGCCAGTGGCTTCCCCCTTACACAGACATCCTCGGGCTGCTGCTCCTCCACC
TGGAAGTGAAGCGCTGCCTCTTACCGTGGAGCCCTTGGGGGATAAAGAGCCTTACCAGAACAGCGCCG
GCGCCTCTCCGAACTTCTATACCCTGGTCACTCCACGCACTTCCACCAGAGCCAGGGCCACCAGAG
AAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCAGAGCTTGCTACCTGGTGTGGGGACTGAGGAAC
CAGGCACAGGAGTGCCTGCTGGTGGCCTTGCAGCTGGGGCTTCGGCGGCTGCTGCTGCTGCTCCTCCA
GAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCATGCCCTACCCCACTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200763 representing NM_025129
 Red=Cloning site Green=Tags(s)

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTV
 VWKSFHDSITLIVLSSEVGISELRLERLLQMVFAMVLLVGLEELTNIRNVERLKKDLRASYCLIDSFLG
 DSELIGDLTQCVCVIPPEGSLLEALSGFAEAGTTFVSLVVSGRVVAATEGWWRLLGTPEAVLLPWLVG
 SLPPQTARDYPVYLPHGSPTVPHRLLTLTLLPSLELCLLCGSPPLSQLYPQLLERWWQPLLDPLRACLP
 LGPRALPSGFPLHTDILGLLLLHLELKRCLFTVEPLGDKEPSPEQRRRLRNIFYTLVTSTHFPPEGPPE
 KTEDEVYQACLPRACYLVLGTEEPGTGVRLVALQLGLRLLLLLSPQSPHGLRSLATHTLHALTPLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025129

ORF Size: 1254 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_025129.5](#)

RefSeq Size: 1643 bp

RefSeq ORF: 1257 bp

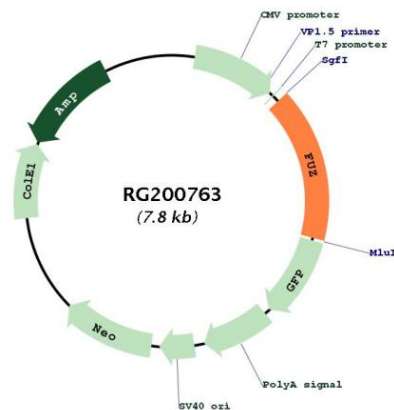
Locus ID: 80199

UniProt ID: [Q9BT04](#)

Cytogenetics: 19q13.33

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 RG200763