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Product datasheet for RG229967

FUZ (NM_001171937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUZ (NM_001171937) 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:

>RG229967 representing NM_001171937
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTGCTGTGCCTCGCGGCCTCCAGCGGGGTCCCCCTAT
TCTGCAGGAGCAGTCGCGGCGGCGCCCCCGCCCGTCAGCAGCTCCCGTTCTCTGTCATCGGTTCCCTCAA
TGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCTGCGAGGACCGAGAACACGACTGTG
GTCCTTCTTGTGGGACTTGAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGG
CCAGTTATTGCCTCATCGACAGCTTCCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGA
CTGCGTGATTCCTCCAGAGGGGTCCCTCTTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACG
ACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGTGGTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGC
CCGAGGCCGTGCTGCTCCCCTGGCTGGTGGGGTCCCTGCCGCCGCAGACCGCTCGCGACTACCCGGTGTA
CCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACCCTGACTCTGCTGCCGAGCCTGGAGCTG
TGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAGCTTCTGGAGCGCTGGTGGCAGC
CACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCCAGTGGCTTCCCCCTTCA
CACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAACTGAAGCGCTGCCTCTTCACCGTGGAGCCCTTG
GGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAAACTTCTATACCCTGGTCACCTCCA
CGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCCAGCTGCCCAG
AGCTTGCTACCTGGTGTTGGGGACTGAGGAACCAGGCACAGGAGTGCGTCTGGTGGCCTTGCAGCTGGGG
CTTCGGCGGCTGCTGCTGCTGCTGTCTCCCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACA
CTCTGCATGCCCTCACCCCACTTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

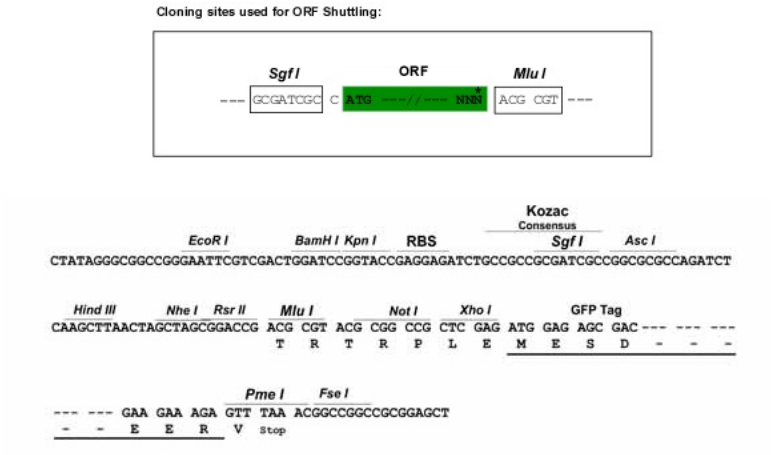
>RG229967 representing NM_001171937
Red=Cloning site Green=Tags(s)

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFGQNLEVQLSSARTENTTV
VLLVGLEELTNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQCVDCVIPPEGSLLQEALSGFAEAAGT
TFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLPHGSPTVPHRLLTLTLLPSLEL
CLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLLLLHLELKRCLFTVEPL
GDKEPSPEQRRRLLRNFYTLVTSTHFPPEPGPPEKTEDEVYQAQLPRACYLVLGTEEPGTGVRLVALQLG
LRRLLLLLSPQSPTHGLRSLATHTLHALTPLL

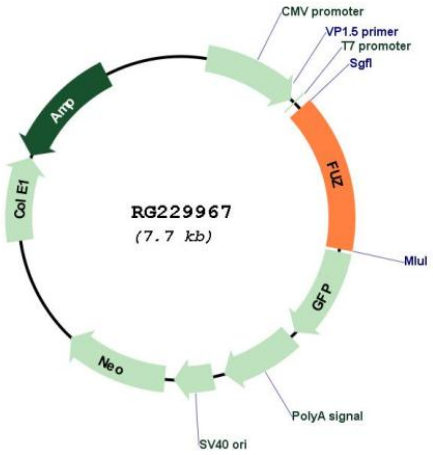
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]