

## Product datasheet for **MG223378**

### Fuz (NM\_027376) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fuz (NM_027376) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fuz
Synonyms:	2600013E07Rik; b2b1273Clo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223378 representing NM_027376 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGATGAGGGGCCGGAAGCCCGGTGCATCTGCTGTGCCTCGCAGCCTCTAGCGGGTTCCCTGT  
TTTGTCCGAGTAGCAGCGCGGCCCCCTCCCGTCAACAGCTTCTTTCTGTCATCGGCTCTCTCAA  
TGGAGTCCACATGTTCCGCCAGAATCTGGATGTGCAACTGAACCTGCAAGAACGGAAGACACAACCGTA  
GTGTGGAAGAAGTCCATGACAGTACTCTCATTGTTCTGTCATCTGAGGAGGGCACCTCTGAGCTGA  
GGCTGGAAGAAGTCTCCACATGGTGTGGGGCCATGGTCTCATTGTGGGACTTGAGGAGCTGACCAA  
TATCCGGAATGTAGAAAGACTGAAGAAAGAATTGAGGGCCAGCTACTGTCTCATCGACAGCTTCCGGGG  
AACTCAGAACTCATCGGAGACCTGACCCAGTGTGTGGACTGTGTCATTCTCCAGAGGGGTCTGCCATGC  
AGGAAACCTTTTCAGGGTTTGCAGAGGCCACTGGCACAGCCTTTGTGAGCCTGCTTGATACGGCCGAGT  
GGTGGCAGCGACAGAGGGCTGGTGGCGCTAGGCATGCCTGAAGCTGTACTACTCCCTGGCTGGTGGGG  
TCCTTGCCACCACAAGCTGCTCGAGACTACCCGGTGTATCTGCCACAGGGAGCCCCACGGTCCCACACA  
GGTTGTTGACCTTGACGCTGCTGCGTGGCTGGAGCTGTGCTGCTGTGCGGGCCGCGCCCGCCCTTGG  
CCAGCTGGACCCACAGTTAATGGAACGCTGGTGGCAGCCTCTACTGGAGCCCCCGGGCCCTGCCTGCCA  
CTGGGCCCTAGGGCGCTACCCGAAGGTTCCACTACACAGCATATTCTTGGTCTGTTGTTACTCCACT  
TGGAAGTGGCAGCTGCCTCTTTACTGTGGAGCCCTCCAAGGATAAAGAGCCTTCCCTGAGCAGCGCAG  
GCGCCTCCTTAGAACTTCTACACGCTGGTGGCCACCACCCACTTCCCGCAGAACCAGGGCCTGCAGAG  
AAACAAGAGGACACAGTCTACCCAGCCAGATGCCAGAGCCTGTATCTCGTGCTAGGGCCAGGCATGG  
GGTGGCAGCTGGTGGCTGTGCAACTAGGGCTCCGGCTGCTACTATTGCTGCTCTCCCTCACACCCCCAC  
CCACGGGCTGCGAAGCCTAGCCACCCGCACTCTGCAAGCCCTCACCCCGCTCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG223378 representing NM\_027376  
 Red=Cloning site Green=Tags(s)

MGDEGPGSPVHLLCLAASSGVPLFCRSSSSGGAPSRQQLPFSVIGSLNGVHMFQNLDVQLNSARTEDTTV  
 VWKNFHDSITLIVLSSEEGTSELRLERMLHMVFGAMVLIVGLEELTNIRNVERLKKELRASYCLIDSFLG  
 NSELIGDLTQCVCVIPPEGSAMQETLSGFAEATGTAFVSLVSGRVVAATEGWWRLLGMPEAVLLPWLVG  
 SLPPQAARDYPVYLPHGSPTVPHRLLTLTLRGLLELCLLCGPRPPLGQLDPQLMERWWQPLLEPLRACL  
 LGPRALPEGFPLHSDILGLLLLLHLELRCLFTVEPSKDKEPSPEQRRRLRNFYTLVATTHFPPEPGPAE  
 KQEDTVYPAQMPRACYLVLGPGMGWQLVAVQLGLRLLLLLLSPHTPTHGLRSLATRTLQALTPLL

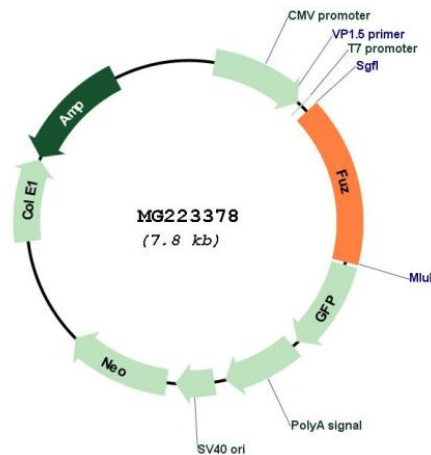
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_027376

<b>ORF Size:</b>	1245 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027376.3</a> , <a href="#">NP_081652.2</a>
<b>RefSeq Size:</b>	1715 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	70300
<b>UniProt ID:</b>	<a href="#">Q3UYI6</a>
<b>Cytogenetics:</b>	7 28.99 cM
<b>Gene Summary:</b>	Probable planar cell polarity effector involved in cilium biogenesis. May regulate protein and membrane transport to the cilium. Proposed to function as core component of the CPLANE (ciliogenesis and planar polarity effectors) complex involved in the recruitment of peripheral IFT-A proteins to basal bodies (PubMed:19877275, PubMed:19767740, PubMed:27158779). May regulate the morphogenesis of hair follicles which depends on functional primary cilia (PubMed:20962855).[UniProtKB/Swiss-Prot Function]