

## Product datasheet for **RR205946**

### Fuz (NM\_001037646) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Fuz (NM\_001037646) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Fuz  
 Synonyms: RGD1310608  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR205946 representing NM\_001037646  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGATGACGGGCCAGGAAGCACGGTGCATCTGCTGTGCCTCGCAGCCTCTAGCGGGTTCCCTGT  
 TCTGTCGGAGCAGCAGCGGAGGGCCCCCTCCCGTCAACAGCTCCCTTTTCTGTCATCGGGTCCCTCAA  
 TGGAGTCCACATGTTTCGGCCAGAATCTGGATGTGCAACTGAACTCCGCAAGAACAAGACACCACCGTA  
 GTGTGGAAGAAGTCCATGACAGCATCACCTCATTGCTCTGTCATCTGAGGAGGGCACCTCTGAGCTGA  
 AGCTGGAAGAAGTCTCCACATGGTGTGGGGCCATGGTTCTCATTGTGGGACTTGAGGAGCTGACCAA  
 TATCCGGAATGTAGAGAGACTGAAGAAAGAGCTGAGGGCCAGCTACTGTCTCATTGACAGCTTCCCTGGG  
 AATTCAGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGTGTTCCTCCAGAGGGGTCTGTATGC  
 AGGTCCCCATCGGTTGTTGACCTTGACTCTGCTGCGGGCCCTGGAGCTGTGTCTGCTCTGCGGGCCGCG  
 CCCGCCCTCGGTGAGCTGGACCCACAGTTGCTGGAACGCTGGTGGCAGCCTCTGCTGGAGCCCCCTCCG  
 GCTTGCTGCCACTGGGCCCTAGGGCGCTCCCTGACGGGTTCCCGCTACACAGCGATATTCTTGGCTGT  
 TGTTACTCCACTTGAAGTGAAGCAGCTGCCTCTTACCCTGGAGCCCTCAAAGGATAAAGAGCCTTCCCC  
 TGAGCAACGCAGGCGCTCCTTAGAAATTTCTATACGTTGGTGGCCACCACCCACTTCCCACCAGAACCG  
 GGGCCAGCAGAGAAACAAGAAGATACAGTCCACCCAGCCAGACACCCAGGGCCTGCTATCTTGTGCTAG  
 GGCCAGGCATGGGGTGGCAGCTGGTGGCTGTGCAGCTAGGGCTACGGCTGCTGCTGTTGATGCTGTCCCC  
 GCAGACTCCCACCATGGGCTGAGAAGCCTGGCCACCCACTCTACAAGCCCTACCCCGCTCCTT

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR205946 representing NM\_001037646  
Red=Cloning site Green=Tags(s)

MGDDGPGSTVHLLCLAASSGVPLFCRSSSGGAPSRQQLPFSVIGSLNGVHMFQNLDVQLNSARTEDTTV  
 VWKNFHDSITLIALSSEEGTSELKLERMLHMVFGAMVLIVGLEELTNIRNVERLKKELRASVCLIDSFLG  
 NSELIGDLTQCVCVIPPEGSVMQVPHRLTLTLRGLLECLLCGPRPPLGELDPQLLERWWQPLLEPLR  
 ACLPLGPRALPDGFPLHSDILGLLLLHLELRCLFTVEPSKDKEPSPEQRRRLRNFYTLVATTHFPPEP  
 GPAEKQEDTVHPAQTPRACYLVLPGMGWQLVAVQLGLRLLLLMLSPQTPHGLRSLATHLQALTPLL

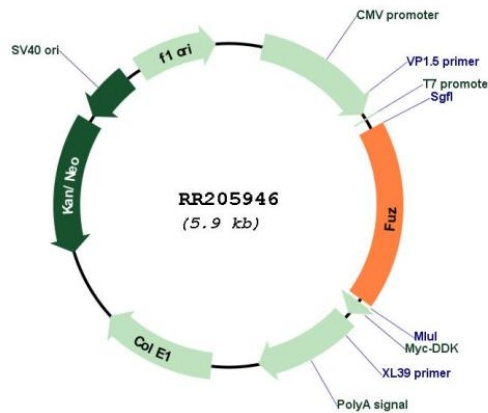
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001037646

**ORF Size:** 1047 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_001037646.1</a> , <a href="#">NP_001032735.1</a>
<b>RefSeq Size:</b>	1480 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	308577
<b>UniProt ID:</b>	<a href="#">Q3B756</a>
<b>Cytogenetics:</b>	1q22
<b>MW:</b>	38.4 kDa
<b>Gene Summary:</b>	Probable planar cell polarity effector involved in cilium biogenesis. 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. May regulate protein and membrane transport to the cilium. May regulate the morphogenesis of hair follicles which depends on functional primary cilia (By similarity).[UniProtKB/Swiss-Prot Function]