

## Product datasheet for MC211921

### Pofut2 (NM\_030262) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pofut2 (NM\_030262) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pofut2  
**Synonyms:** 2310011G23Rik; AI256847; BC003494; C21orf80; FUT13  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211921 representing NM\_030262  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCGCTCAGCGTCGTCTGCCTGCTGCTGGCAGCGGCATCCTGGCGGCCGGTCTCGGCTTCAGGAG  
 AAGAATTCGGCCTGGCCAGTCGGCGGCCGACATCCTGTCCGGGGCGGCATCCCGCAGACGGTACCTCCT  
 GTATGATGTCAACCCCCAGAAGGCTTCAATCTCCGCAGGGATGTCTATATCCGGGTGGCATCCTTGCTG  
 AAGACGCTGTTGAAGACTGAAGAGTGGGTGCTAGTCCTGCCCCGTGGGGCCGCCTTACCAGTGGCAAA  
 GCCCTGACATCCACCAGGTCCGGATCCCTGGTCCGAGTTTTTTGACCTCCCGAGTCTCAATAAAAAACAT  
 CCCCCTTAGAGTATGAGCAGTTCATTGCAGAGTCCGGCGGGCCCTTTATCGACCAGGTGTACGTCCTA  
 CAAGGTTACGCCGAGGGCTGGAAGGAGGGCACCTGGGAGGAGAAGGTGGACGCACGGCCCTGATTGACC  
 CTCTGCTGTAAGCAGGACAAGCATGAGTATTACAGAGGCTGGTTTTGGGGCTACGAAGAAACACGGGG  
 TCTGAATGTCTCCTGCCTGTCCGTCCAGGGTCCGCTCCATCGTCGCGCCTGTCTCTTAAAAAACACA  
 TCTGCTCGGTCTGTGATGCTGGACCGAGCTGAGAATCTGCTTCATGACCACTATGGAGGCCGGGACTACT  
 GGGATACCCGGCGCAGCATGGTGTGGTGGTAAAGCACTTCCGGGCTGTGGGAGACGAGTTTAGGAGCCAGCA  
 CCTCAACTCGACGGATGCCGCTGATAAGATGGCCCGGAGGAAGACTGGACGAAGATGAAGGTCAAAGT  
 GGCTCAGCACTAGGCGGCCCTACCTCGGAGTCCACCTGAGAAGGAAGGACTTCACTGGGGCCACAGGG  
 AGGATGTGCCAGCCTGGAGGGCGCCGTGAAGAAGATCCGCAGCCTCATGAAGACTCATCAGCTGGACAA  
 GGTGTTCTGGCCACAGACGCCATCAGGAAGGAGCAGGAAGAATTGAGGAAGCTGCTGCCGAAATGGTG  
 AGGTTTGGAGCCACGTGGGAGGAGCTGGAGCTGTACAAGGACGGAGGCGTCGCCATCATCGATCAGTGA  
 TCTGCGCTCATGCCAGGTTTTTTATTGGCACCTCTGTTTCCACATTTTCTTTCCGATTCATGAAGAGAG  
 AGAGATCCTGGGTTGGACCCCAAGACAACATAACAACCGTTTTTGTGGAGACCAGGAGAAAGCATGTGAG  
 CAGCCACACACTGGAAGATTGCGTACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_030262
<b>Insert Size:</b>	1290 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_030262.3</a></u> , <u><a href="#">NP_084538.2</a></u>
<b>RefSeq Size:</b>	2219 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	80294
<b>UniProt ID:</b>	<u><a href="#">Q8VHI3</a></u>
<b>Cytogenetics:</b>	10 C1
<b>Gene Summary:</b>	Catalyzes the reaction that attaches fucose through an O-glycosidic linkage to a conserved serine or threonine residue in the consensus sequence C1-X(2,3)-S/T-C2-X(2)-G of thrombospondin type I repeats (TSRs) where C1 and C2 are the first and second cysteines of the repeat, respectively. O-fucosylates members of several protein families including the ADAMTS superfamily and the thrombosporin (TSP) and spondin families. Required for the proper secretion of ADAMTS family members such as ADAMSL1 and ADAMST13 (By similarity). O-fucosylation of TSRs is also required for restricting epithelial to mesenchymal transition (EMT), maintaining the correct patterning of mesoderm and localization of the definite endoderm.[UniProtKB/Swiss-Prot Function]