

Product datasheet for **MG218637**

Pofut2 (NM_030262) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pofut2 (NM_030262) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pofut2
Synonyms:	2310011G23Rik; AI256847; BC003494; C21orf80; FUT13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218637 representing NM_030262 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCTCAGCGTCGTCGCTGCTGCTGGCAGCGGCATCCTGGCGGCCGGTCTCGGCTTCAGGAG
AAGAATTCTGGCCTGGCCAGTCGGCGGCGGACATCCTGTCCGGGGCGGCATCCCAGACCGGTACCTCCT
GTATGATGTCAACCCCCAGAAGCTTCAATCTCCGCAGGGATGTCTATATCCGGGTGGCATCCTTGCTG
AAGACGCTGTTGAAGACTGAAGAGTGGGTGCTAGTCCTGCCCGTGGGCGCCCTCTACCACTGGCAA
GCCCTGACATCCACCAGGTCGGATTCCCTGGTCCGAGTTTTTTGACCTCCCGAGTCTCAATAAAAAACAT
CCCCGTTATAGAGTATGAGCAGTTCATTGCAGAGTCCGGCGGGCCCTTTATCGACCAGGTGTACGTCCTA
CAAGGTTACGCCGAGGGCTGGAAGGAGGGCACCTGGGAGGAGAAGGTGGACGCACGGCCCTGTATTGACC
CTCTGCTGTACTCGCAGGACAAGCATGAGTATTACAGAGGCTGGTTTTGGGGCTACGAAGAAACACGGGG
TCTGAATGTCTCCTGCCTGTCCGTCCAGGGGTCGGCTTCCATCGTCGCGCCTGTCTCTTAAAAAACACA
TCTGCTCGGTCTGTGATGCTGGACCGAGCTGAGAATCTGCTTTCATGACCACTATGGAGGCCGGGAGTACT
GGGATACCCGGCGCAGCATGGTGTGGCAAAGCACTTGGCGGCTGTGGGAGACGAGTTTAGGAGCCAGCA
CCTCAACTCGACGGATGCCGCTGATAAGATGGCCCCGGAGGAAGACTGGACGAAGATGAAGTCAAAGTGG
GGCTCAGCACTAGGCGGCCCTACCTCGGAGTCCACCTGAGAAGGAAGGACTTCACTGGGGCCACAGGG
AGGATGTGCCAGCCTGGAGGGCCCGTGAAGAAGATCCGCAGCCTCATGAAGACTCATCAGCTGGACAA
GGTGTTCGTGGCCACAGACGCCATCAGGAAGGAGCAGGAAGAATTGAGGAAGCTGCTGCCGAAATGGTG
AGGTTTGGAGCCACGTGGGAGGAGCTGGAGCTGTACAAGGACGGAGGCGTCGCCATCATCGATCAGTGGA
TCTGCGCTCATGCCAGGTTTTTTATTGGCACCTCTGTTCCACATTTTCTTTTCGGATTCATGAAGAGAG
AGAGATCTGGGTTGGACCCCAAGACAACATAACAACCGTTTTTGTGGAGACCAGGAGAAAGCATGTGAG
CAGCCACACACTGGAAGATTGCGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218637 representing NM_030262
 Red=Cloning site Green=Tags(s)

MAALSVVCLLLAAASWRPVASGEEFWPGQSAADILSGAASRRRYLLYDVPPEGFNLRDYYIRVASLL
 KTLKTEEWLVLPWGRLYHWQSPDIHQVRIPWSEFFDLPSLNKNIPVIEYEQFIAESGGPFIDQYVVL
 QGYAEGWKEGTWEEKVDARPCIDPLLYSQDKHEYRWFVWGYEETRGLNVSCLSVQGSASIVAPVLLKNT
 SARSVMLDRAENLLHDHYGGREYWDTRRSMVF AKHLRAVGDEFRSQHLNSTDAADKMAPEEDWTKMKVKL
 GSALGGPYLGVHLRRKDFIWHGREDVPSLEGAVKKIRSLMKTHQLDKVVFATDAIRKEQEELRKLPEMV
 RFEPTWEELELYKDGVAIIDQWICAHARFFIGTSVSTFSFRIHEEREILGLDPKTTYNRF CGDQEKACE
 QPTHWKIAY

TRTRPLE – GFP Tag – V

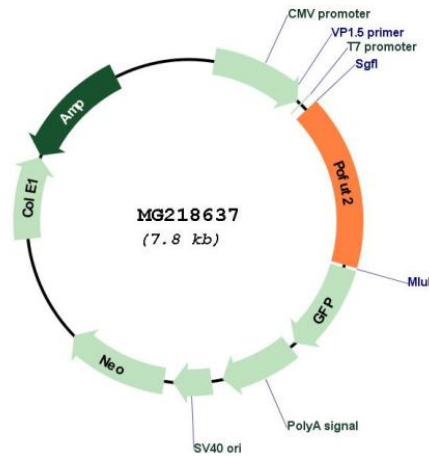
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_030262

ORF Size:	1287 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:	<ol style="list-style-type: none">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_030262.3 , NP_084538.2
RefSeq Size:	2219 bp
RefSeq ORF:	1290 bp
Locus ID:	80294
UniProt ID:	Q8VHI3
Cytogenetics:	10 C1
Gene Summary:	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]