

## Product datasheet for RC217185

### POFUT1 (NM\_015352) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POFUT1 (NM_015352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POFUT1
Synonyms:	DDD2; FUT12; O-Fuc-T; O-FucT-1; O-FUT; OFUCT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217185 representing NM_015352 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGCCCGCGTGGGCACGGCCGCTGAGCGTGTCTTCTGCTGCTGCTTCTGCCGCTCCCGGGA  
TGCCTGCGGGCTCCTGGACCCGGCGTTACCTGCTCTACTGCCCTGCATGGGCGCTTTGGGAACCA  
GGCCGATCACTTCTGGGCTCTCTGGCATTGCAAAGTGCTAAACCGTACCTGGCTGTCCCTCCTTGG  
ATTGAGTACCAGCATACAAGCCTCCTTACCAACCTCCATGTGTCTACCAGAAGTACTTCAAGCTGG  
AGCCCCCAGGCTTACCATCGGGTTCATCAGCTTGGAGGATTTTCATGGAGAAGCTGGCACCCACCCACTG  
GCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAGCCAGATAAGAAGAGCTGC  
CCCATGAAGGAAGAAACCCCTTTGGCCATTCTGGGATCAGTTTCATGTGAGTTTCAACAAGTCGGAGC  
TTTTTACAGGCATTTCTTTCAGTCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCCAAGGAACA  
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ACTATGTGCCTGCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGTCTGCTGGATGCC  
AGTCGGTCTACGTTGCTACTGATTCCGAGAGTTATGTGCCTGAGCTCCAACAGCTCTTCAAAGGGAAGGT  
GAAGGTGGTGAAGCCTGAGGTGGCCAGGTGACCTGTACATCTCGGCCAAGCCGACCACTTT  
ATTGGCAACTGTGTCTCCTCCTTCACTGCCTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGCTCT  
CTTTCTCGGCATGGACAGGCCCCCTAAGCTGCGGGACGAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC217185 representing NM\_015352  
Red=Cloning site Green=Tags(s)

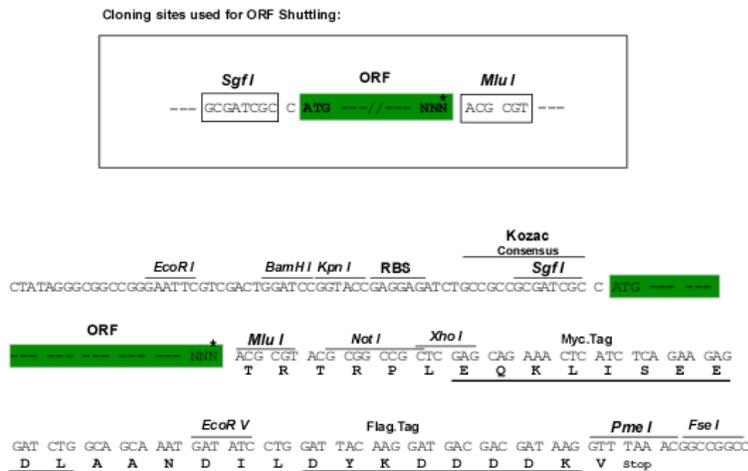
MGAAAWARPLSVSFLLLLPLPGMPAGSWDPAGYLLYPCMGFRFGNQADHFLGSLAFAKLLNRTLAVPPW  
 IEYQHHKPPFTNLHVSQYKFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAQRSPDKKTC  
 PMKEGNPFGPFDQFHVSNKSELTGTSFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQK  
 YMVWSDVMVKTGEAQIHAHLVRPYVGIHLRIGSDWKACAMLDKGTAGSHFMA SPQCVGYSRSTAAPLTM  
 TMCLPDLKEIQRAVKLWVRSLDAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHF  
 IGNCVSSFTAFVKRERDLQGRPSSFFGMDRPPKLRDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6478\\_d01.zip](https://cdn.origene.com/chromatograms/mk6478_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_015352

**ORF Size:** 1164 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\\_015352.2](#)

**RefSeq Size:** 5249 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 23509

**UniProt ID:** [Q9H488](#)

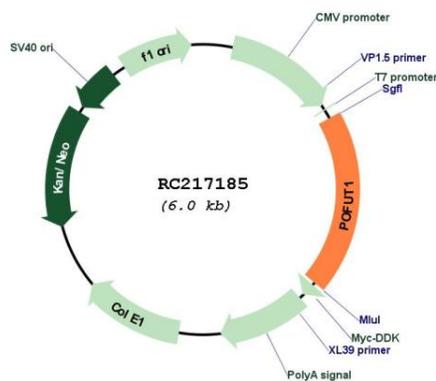
**Cytogenetics:** 20q11.21

**Protein Families:** Druggable Genome, Transcription Factors

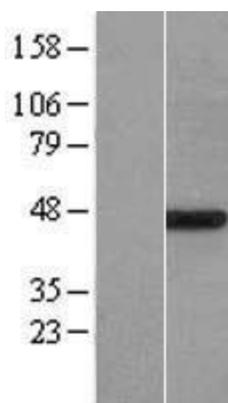
**MW:** 43.96 kDa

**Gene Summary:** This gene encodes a member of the glycosyltransferase O-Fuc family. This enzyme adds O-fucose through an O-glycosidic linkage to conserved serine or threonine residues in the epidermal growth factor-like repeats of a number of cell surface and secreted proteins. O-fucose glycans are involved in ligand-induced receptor signaling. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

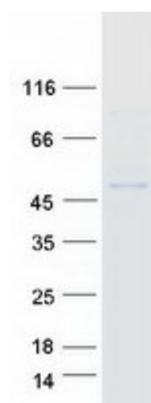
### Product images:



Circular map for RC217185



Western blot validation of overexpression lysate (Cat# [LY414612]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217185 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POFUT1 protein (Cat# [TP317185]). The protein was produced from HEK293T cells transfected with POFUT1 cDNA clone (Cat# RC217185) using MegaTran 2.0 (Cat# [TT210002]).