

## Product datasheet for SC111782

### POFUT1 (NM\_015352) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POFUT1 (NM_015352) Human Untagged Clone
Tag:	Tag Free
Symbol:	POFUT1
Synonyms:	DDD2; FUT12; O-Fuc-T; O-FucT-1; O-FUT; OFUCT1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111782 sequence for NM_015352 edited (data generated by NextGen Sequencing)

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ATGGGCGCCGCGCTGGGCACGCCGCTGAGCGTGTCTTTCCTGCTGCTTCTGCCG
CTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGCGCGTTACCTGCTCTACTGCCCTGC
ATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGCAAAGCTG
CTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTC
ACCAACCTCCATGTGTCTACCAGAAGTACTTCAAGCTGGAGCCCTCCAGGCTTACCAT
CGGGTCATCAGCTTGGAGGATTCATGGAGAAGCTGGCACCCACCCACTGGCCCCCTGAG
AAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAGCCAGATAAGAAGACGTGC
CCCATGAAGGAAGGAAACCCCTTTGGCCATTCTGGGATCAGTTTCATGTGAGTTTCAAC
AAGTCGGAGCTTTTTACAGGCATTTCTTCAGTGCTTCTACAGAGAACAATGGAGCCAG
AGATTTTCTCAAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCGAGCCAGTTCCCC
GTCTAGAGGAACACAGGCCACTACAGAAGTACATGGTATGGTCAGACGAAATGGTGAAG
ACGGGAGAGGCCAGATTCATGCCACCTTGTCGGCCCTATGTGGGCATTCATCTGCGC
ATTGGCTCTGACTGGAAGAACGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTCGCAC
TTCATGGCCTCTCCGAGTGTGTGGGCTACAGCCGAGCACAGCGGCCCCCTCACGATG
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CTGGATGCCAGTCGGTCTACGTTGCTACTGATTCCGAGAGTTATGTGCCTGAGCTCAA
CAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAAGCTGAAGCCTGAGGTGGCCAGGTCGAC
CTGTACATCCTCGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTCACTGCC
TTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGTCTTCTTTCTTCGGCATGGACAGG
CCCCCTAAGCTGCGGGACGAGTTCTGA

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Clone variation with respect to NM\_015352.1



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_015352 unedited  AACTCCC GCCCGTTCCCGCATTACTGCGGTAGGCGTGCACGGTGGGAGGTCTATATAAG  CAGAGTTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC  GAATTCGGCACGAGGCCCGACTGTGCGCCGCGGCTGGCTCGGGTCCCGGGCCGACATGG  GCGCCCGCGGTGGGACGGCCGCTGAGCGTGTCTTCTGCTGCTGCTTCTGCCGCTCC  GGGGATGCCCGGGCTCCTGGGACCCGGCGTTACCTGCTCTACTGCCCTGCATGG  GGCGCTTTGGGAACCGAGCCGATCACTTCTTGGGCTCTCTGGCATTGCAAAGCTGCTAA  ACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTCACCA  ACCTCCATGTGTCTACCAGAAGTACTTCAAGCTGGAGCCCTCCAGGCTTACCATCGGG  TCATCAGCTTGGAGGATTTATGGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAGC  CGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAGCCAGATAAGAAGACGTGCCCC  ATGAAGGAAGGAAACCCCTTTGGCCATTCTGGGATCAGTTCATGTGAGTTCAACAAGT  CGGAGCTTTACAGGCTTCCCTCAGTGTCTACCGAGAACATGGAGCCCGAGATTTCC  TCCAAAGAACATTCGGTCTTGGCCTTGCAGGAACCCAGCCAGTTCGCCGCCACAG  GAACACAGGCCCTCAGCAACACATGGTATGGTACCACAAATGGTGAAGACCGGAGAAG  GCCACATCATTCCCACCTTGTCCGGGCTATGGGGGCCCATATTTGGCCCCGGCCTC  TGACTTGAAAAACCGGGCCCTGCTCTAAGAACGGGAATGAAGCGCCCACTTATTGCC  CTCCTCCAAGGTGGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_015352 unedited  TTTTTTTCTCTTTNNTTTTTNNTTTTTNNTTTTTTTTTTTTTTTTTTTTTNTTTTTNTNNTTT  TTTNTTT  CTCCCCCGGGGAAAACCTGGTCCCCTTTAAGTAAAACCCCGGGCCTTAAATTGGTT  TTTTTACCTGGTTAAAACCTTGTAAATTTTGGATCTTTGAAAAAACTGGAAAAATTT  TCCTTTGTTCAAATCTAATTTTTTCCCCCCCCCTTAATGCAATGGCCTTTGTCTTTTG  GGGAAGGGGGCCCTGGGGTCTATTCTAGGGGGCCCAACCCCATTTTTTTGGCTGG  AACCTGTAAAAACCCCGCGGGGCTTTTTGGTTTTACCTTTTTTTTTTCCAACCCCC  TTAACTGGCCATTTAAGGGGGCCCTCAAAATGGGAATTACTTATGCCCTTTTTTG  GTAAAACCTAGGGGGTCTCGGTTTTCTCCCACTAAAACTCCTGCCCTGGCCCGC  CCGGCTGAAAAATGGCACCTTCCCGGTCTGACCCGGTGGTGGTCCCCGGCTATGGCT  GGCTTTCAAACATGCTGGGCCCTGGGGTGTTTTTTAGAACACCCTCCAATTTTGGGGC  CTTTTGACCGGCTGTTTTCTGTGCCGAAAGGGCCCCCTCCCCCTTTTGAAGCTCT  TTAGAAAGGGGCTTCCCCGGGCCCCCTAAAAAAATCCCCCCCCCTTTTGGGCCCAA  CCCCTTTTTTTTTTATAGCCCTTTTTAAATGTGGCCACGGACATTTTTACACCCCCC  CCTTCAAAGGCAATCCCTGGGAAAAAACTTTTCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015352
<b>Insert Size:</b>	4700 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).

**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\\_015352.1](#), [NP\\_056167.1](#)

**RefSeq Size:** 5249 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 23509

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

**Cytogenetics:** 20q11.21

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

**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]

Transcript Variant: This variant (1) encodes the longer isoform (1) of this protein.