

## Product datasheet for **SC110314**

### POFUT1 (NM\_172236) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POFUT1 (NM_172236) 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-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172236, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGCCGCCGCTGGGCACGGCCGCTGAGCGTGTCTTTCCTGCTGCTGCTTCTGCCGCTCCCGGGGA  
TGCCTGCGGGCTCCTGGGACCCGGCCGTTACCTGCTCTACTGCCCTGCATGGGGCGCTTTGGGAACCA  
GGCCGATCACTTCTTGGGCTCTCTGGCATTGCAAAGCTGCTAAACCGTACCTTGGCTGTCCCTCCTTG  
ATTGAGTACCAGCATCACAAGCCTCCTTTCACCAACCTCCATGTGTCTACCAGAAGTACTTCAAGCTGG  
AGCCCCCTCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTCATGGAGAAGCTGGCACCCACCCACTG  
GCCCCCTGAGAAGCGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAGCCAGATAAGAAGACGTGC  
CCCATGAAGGAAGAAACCCCTTTGGCCATTCTGGGATCAGTTTCATGTGAGTTTCAACAAGTCGGAGC  
TTTTTACAGGCATTTCTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGGCGTGAGAATCACTCCTG  
TGTTACCTTACTCTTCCAAGGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_172236 unedited GTATACGACTCCTATAGGCGGCCGCAATTCGGCACGAGGCCGACTGTGCGCCGCGGCTG GCTCGGGTCCCGGGCCGACTGGGCGCCGCCGCTGGGCACGGCCGCTGAGCGTGTCTTT CCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTAA CCTGCTCTACTGCCCCTGCATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTGGGCTC TCTGGCATTGCAAAGCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCA GCATCACAAAGCTCCTTTACCAACCTCCATGTGTCCTACCAGAAGTACTTCAAGCTGGA GCCCTCCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTTTCATGGAGAAGCTGGCACC CACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAG CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCATTCTGGGATCA GTTTCATGTGAGTTTCAACAAGTCGGAGCTTTTTACAGGCATTTCTTCACTGCTTCTTA CAGAGAACAATGGAGCCAGAGATTNTCTCAAAGGAACATCCGGTCTTGCCTGCCAGG AGCCCCAGCCAGTTCCCGCTCCTAGAGGAACACAGGCCACTACAGAAGTACATGGTATG GTCAGACGAAATGGTGAAGACGGGAGAAGGCCANNATCATGCCACCTTGTNCCGCCCTA TGTGGGCATTCTGCGCATTGGCTCTGACTGGAAGAAGCTGTGCATGCTNGANGACN NGGACTGCAGCTCGCACTTATGGCCCTCCGCAGGGTGTGGGCTACAGNCCAGCACAGCG GCCCCTCAGN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_172236
<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>	<a href="#">NM_172236.1</a> , <a href="#">NP_758436.1</a>
<b>RefSeq Size:</b>	1524 bp
<b>RefSeq ORF:</b>	585 bp
<b>Locus ID:</b>	23509
<b>UniProt ID:</b>	<a href="#">Q9H488</a>
<b>Cytogenetics:</b>	20q11.21
<b>Protein Families:</b>	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 (2) uses an alternate exon in the 3' coding region and 3' UTR, compared to variant 1. Isoform 2 has a shorter and distinct C-terminus, compared to isoform 1.