

Product datasheet for **SC124781**

POFUT2 (NM_133635) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POFUT2 (NM_133635) Human Untagged Clone
Tag:	Tag Free
Symbol:	POFUT2
Synonyms:	C21orf80; FUT13
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_133635, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACTCAGCTTCGTCTTCTGCTGCTGGGGCAGTGTCTGGCCTCCGGCTTCTGCCTCCGGCC
AGGAGTTCTGGCCCGACAATCGGCGGCCGATATTCTGTCGGGGCGGCTTCCCGCAGACGGTATCTTCT
GTATGACGTCAACCCCGGAAGGCTTCAACCTGCGCAGGGATGTCTATATCCGAATCGCCTCTCTCCTG
AAGACTCTGCTGAAGACGGAGGAGTGGGTGCTTGTCTGCCTCCATGGGGCCGCTTATCACTGGCAGA
GTCTGACATCCACCAGTCCGGATTCCCTGGTCTGAGTTTTTTGATCTCCAAGTCTCAATAAAAAACAT
CCCCGTACGAGTATGAGCAGTTCATCGCAGAACTCTGGTGGGCCCTTTATTGACCAGGTTTACGTCCTG
CAAAGTTACGCAGAGGGGTGAAAGAAGGGACCTGGGAAGAGAAGGTGGACGAGCGGCCGTGATTGATC
AGCTCCTGTACTCCAGGACAAGCACGAGTACTACAGAGGATGGTTTTGGGGTTATGAGGAGACCAGGGG
TCTAAACGTCTCCTGTCTGTCCGTCCAGGGCTCAGCCTCCATCGTGGCGCCCTGCTGCTGAGAAACACA
TCAGCCCGGTCCGTGATGTTAGACAGAGCCGAGAACCTACTTCACGACCACTATGGAGGAAAGAATACT
GGGATACCCGTCGCAGCATGGTGTGGCCAGGCACCTGCGGGAGGTGGGAGACGAGTTCAGGAGCAGACA
TCTCAACTCCACGACGACGCAGACAGGATCCCCTTCCAGGAGGACTGGATGAAGATGAAGTCAAGCTG
GGCTCCGCGCTAGGGGGCCCTACCTGGGAGTCCACCTGAGAAGAAAAGATTTTCACTGGGGTACAGAC
AGGATGTACCCAGTCTGGAAGGGCCGTGAGGAAGATCCGCAGCCTCATGAAGACCCACCGCTGGACAA
GGTGTGTTGTGGCCACAGATGCCGTGAGAAAGGAATATGAAGAGCTAAAAAAGCTGTTACCCGAGATGGT
AGGTTTGAACCCACGTGGGAGGAGCTGGAGCTCTACAAGGACGGAGGCGTTGCGATTATTGACCAGTGGA
TCTGCGCACACGCCAGGTTTTTTATTGGCACCTCAGTCTCAACATTTTCTTTTCGGATTATGAGGAAA
AGAAATCTGGGGTTGGACCCCAAGACGACGTACAACAGGTTCTGCGGAGACCAAGAGAAGGCGTGTGAG
CAACCCACCCACTGGAAGATCACCTACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_133635 unedited TTTGTATACGACTCACTATAGGCGGCCGNATTCGGCACGAGGCCATGGCGACTCAG CTTCGTCTTCTGCTGCTGGGGGAGTGTCTGGCCTCCGGCTTCTGCCTCCGGCCAGGA GTTCTGGCCCGGACAATCGGCGGCCGATATTCTGTGCGGGGGCGGTTCCCGCAGACGGTA TCTTCTGTATGACGTCAACCCCCGGAAGGCTTCAACCTGCGCAGGGATGTCTATATCCG AATCGCCTCTCTCTGAAGACTCTGCTGAAGACGAGGAGTGGGTGCTTGTCTGCCTCC ATGGGGCCGCCTCTATCACTGGCAGAGTCTGACATCCACCAGGTCGGGATCCCTGGTC TGAGTTTTTTGATCTTCCAAGTCTCAATAAAAACATCCCCGTCATCGAGTATGAGCAGTT CATCGCAGAATCTGGTGGGCCCTTTATTGACCAGGTTTACGTCCTGCAAAGTTACGCAGA GGGGTGGAAAGAAGGGACCTGGGAAGAGAAGGTGGACGAGCGGCCGTGATTGATCAGCT CCTGTACTCCCAGGACAAGCAGGACTACTACAGGTGCCTGCTGAGGCTGCTCCCCCTGCC GCAGAGGATGGTTTTGGGGTTATGAGGAGACCAGGGGTCTAAACGTCTNCTGTCTGTCCG TCCAGGGCTCAGCCTCCATCGTGGCGCCCTGCTGCTGAGAAACACATCAGCCCCGTCCG TGATGTTAGACAGAGCCGAGAACCTACTTACGAACCACTATGGAGGGAAAGAAACTG GATACCCGTCGCAGCATGGTGTGTTTGGCCANGCACCTGCCGNAGTGGGGAGACNAGTTCA GGAGCAGACTTCTAAACTCCACCGACA
Restriction Sites:	ECoRI-NOT
ACCN:	NM_133635
Insert Size:	3000 bp
OTI Disclaimer:	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).
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_133635.3 , NP_598368.2
RefSeq Size:	2878 bp
RefSeq ORF:	1290 bp
Locus ID:	23275
UniProt ID:	Q9Y2G5
Cytogenetics:	21q22.3

Gene Summary:

Fucose is typically found as a terminal modification of branched chain glycoconjugates, but it also exists in direct O-linkage to serine or threonine residues within cystine knot motifs in epidermal growth factor (EGF; MIM 131530)-like repeats or thrombospondin (THBS; see MIM 188060) type-1 repeats. POFUT2 is an O-fucosyltransferase that use THBS type-1 repeats as substrates (Luo et al., 2006 [PubMed 16464857]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (3) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (C) is longer and differs in the C-terminus compared to isoform A.