

Product datasheet for **SC324043**

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_133635.4
CGGGCCATGGCGACTCAGCTTCGTCTTCTGCTGCTGGGGCAGTGTCTGGCCTCC
GGCTTCTGCCTCCGGCCAGGAGTTCTGGCCCGACAATCGGCGCCGATATTCTGTGGG
GGCGGCTTCCCGCAGACGGTATCTTCTGTATGACGTCAACCCCCGGAAGGCTTCAACCT
GCGCAGGATGTCTATATCCGAATCGCCTCTCTCTGAAGACTCTGCTGAAGACGGAGGA
GTGGGTGCTTGTCTGCCTCCATGGGGCCGCTCTACTGCGCAGAGTCTGACATCCA
CCAGTCCCGATTCCCTGGTCTGAGTTTTTTGATCTTCCAAGTCTCAATAAAAAACATCCC
CGTCATCGAGTATGAGCAGTTTCATCGCAGAATCTGGTGGGCCCTTTATTGACCAGGTTTA
CGTCTGCAAAGTTACGCAGAGGGGTGGAAGAAGGGACCTGGGAAGAGAAGGTGGACGA
GCGGCCGTGATTGATCAGCTCCTGTACTCCAGGACAAGCACGAGTACTACAGAGGATG
GTTTTGGGGTTATGAGGAGACCAGGGTCTAACGTCCTCTGTCTGTCCGTCCAGGGCTC
AGCCTCCATCGTGGCGCCCTGTGCTGAGAAACACATCAGCCCGGTCCGTGATGTTAGA
CAGAGCCGAGAACCTACTTCACGACCACTATGGAGGAAAGAATACTGGGATACCCGTCCG
CAGCATGGTGTGGCCAGGCACCTGCGGGAGGTGGGAGACGAGTTCAGGAGCAGACATCT
CAACTCCACGGACGACGACAGACAGGATCCCTTCCAGGAGGACTGGATGAAGATGAAGGT
CAAGCTGGGCTCCGCGCTAGGGGGCCCTACCTGGGAGTCCACCTGAGAAGAAAAGATTT
CATCTGGGGTACAGACAGGATGTACCCAGTCTGGAAGGGGCCGTGAGGAAGATCCGCGAG
CCTCATGAAGACCCACCGGCTGGACAAGGTGTTTGTGGCCACAGATGCCGTGAGAAAGGA
ATATGAAGAGCTAAAAAGCTGTTACCCGAGATGGTGAGGTTTGAACCCACGTGGGAGGA
GCTGGAGCTCTACAAGGACGGAGGCGTTGCGATTATTGACCAGTGGATCTGCGCACACGC
CAGGTTTTTTATTGGCACCTCAGTCTCAACATTTCTTTTCGGATTATGAGGAAAGAGA
AATCCTGGGGTTGGACCCCAAGACGACGTACAACAGTTCTGCGGAGACCAAGAGAAGGC
GTGTGAGCAACCCACCCACTGGAAGATCACCTACTGAGGAGGATCCTCCAGGGCCGCTCC
CCGGACCCGACAGCGCGGGTGGATGCAGGTTCTGTGCGCGTGGAGTACCCTCTACTGC
CAGCCGGGAGCTGGGCGGACAGGACCGTCCCTCGCAGGGTCCCAGGCCAGAAAGAGGCC
CACGCCTCTAGAGCTGGGCTCCGTCTCGGCGTTGCCAGCCGCATGGCTGATGAAGAGG
CTCCGCTGCTCTCGGGGTGGCGGTTGTTTTAGGCAGCGTCTGTGAACCCACAGCTCGG
TTGCCAGCAGTGCCTCGGTGGTACCCAGAAGCAGGAGTGTGTCAGGCTCCCGCTCTG
GCCTTCCAGCCACCTTTCATGTCTTCATATTTAAGTGCATTGAGGATAGATGCAGGCG
GGTGAGCTGCCCTCCGTGAGTGGACCCGGGCTGACATTTCCCTGGGAGCTGGTGAAGG
AGAAGCGTCATTTAAATGTCTGCAGAGCGACCAGGGCCCTCATGAATCTCTCCGTTGCC
CTCCGCGCAGCAGGAGGCTGCCTGTGTGTTTCTCCTGGGATGCGTGCAAGGCAGACCTG
GTGCTGCAAAGGAAAGGGCCTGAGGCCTCAGGGAGCCCGTGGAGGGATGACAGTTCAGG
CCCTACTGCTGGCACGTGAGGCACTGGGAAGTTTTTCAGTGACGTCTCTGGGGCACTCA
GTGGATTGTCTGTAGGAACTTGACGCTCTGCTCCTCACACCAGGCCCGGCTGGCCACCC
ACCCTCGCCCCACTGGCCACCCCTCCCTCGCCCCGACTGCCCGCCCCACCCCTCACCC
GACTGCCCCGCTCGCCCGGCTGGCCGTCCTGCCCTCGCCCCGGCTGGCAGGTGCACA
TGGGGCTCCAGGTCTGCCATTCGCTATTGAGAAGTAAATGAGGAAGGACAGTTACGC
TAACTCCAAAAGGCTGTCTAGGATGAGTGTCTTATCAGGGAGTCTTGTACCCATTTT
ACAGAAATCATTTTTAGTCTTTGTGCCACCACAGAGGGCATCTGCAAAGAGGGCAA
CGTAGACACAGAATCCGTGGAAGGTGCAGCAGTGCCTCAGGGGTCTCAGGGTCAAGGA
GCCCCCTCACCTCTTGGCCGTTACCCTTTGTGACTTCCACCATGGTGTCTGTGAC
CCTCAGTCAGGTTGGTGGGGCTGAGTCTCACTGAGCAGCCACTTCCACATCTGCTAG
AGGAACAGTGACATGGACACCTGTGACAGAGAGAGGACAGTTAGGAGGGACAGACAGCTC
TTCCTTTCGGAGCCTGGTAGTCTAGGACATCACCTTGTGTGTCTTCTCAAGCTTTTAA
AATTGACCCTGAACGTGTGACAGGGTCTATGGTGTACTCAAAGCTGTGCAGGGTAAAT
GATGACATATTTATCTTTTCCATTTGTTCTAGAAACAGTGCCTTTTTTTCATCAGTTGCA
TTTTCCAGGCTGAGAGCTGTATAAAACATTTTGGACTGTGACCATGTACCTTCTTTTTTA
AGAAAAATAAACTGCTTTATGAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

ECORI-NOT

ACCN:	NM_133635
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_133635.4 , NP_598368.2
RefSeq Size:	2878 bp
RefSeq ORF:	1290 bp
Locus ID:	23275
UniProt ID:	Q9Y2G5
Cytogenetics:	21q22.3
Gene Summary:	<p>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]</p> <p>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.</p>