

Product datasheet for SC313401

POFUT2 (NM_015227) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: POFUT2 (NM_015227) Human Untagged Clone
Tag: Tag Free
Symbol: POFUT2
Synonyms: C21orf80; FUT13
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015227 edited
CGCCCCGGGGCCATGGCGACACTCAGCTTCGTCTTCCTGCTGCTGGGGCAGTGCCTGGC
CTCCGGCTTCTGCCTCCGGCCAGGAGTTCTGGCCCGACAATCGGCGGCCGATATTCTGT
CGGGGGCGGCTTCCCGCAGACGGTATCTTCTGTATGACGTCAACCCCGGAAGGCTTCA
ACCTGCGCAGGGATGTCTATATCCGAATCGCCTCTCTCCTGAAGACTCTGCTGAAGACGG
AGGAGTGGGTGCTTGCTCCTCCATGGGGCCGCTCTACTGCGCAGAGTCTGACA
TCCACCAGGTCGGATTCCCTGGTCTGAGTTTTTTGATCTTCCAAGTCTCAATAAAAAACA
TCCCTGTCATCGAGTATGAGCAGTTCATCGCAGAATCTGGTGGGCCCTTTATTGACCAGG
TTTACGTCCTGCAAAGTTACGCAGAGGGGTGGAAAGAAGGGACCTGGGAAGAGAAGTGG
ACGAGCGGCCGTGATTGATCAGCTCCTGTACTCCAGGACAAGCAGACTACAGAG
GATGGTTTTGGGTTATGAGGAGACCAGGGTCTAAACGTCTCCTGTCTGTCCGTCAGG
GCTCAGCCTCCATCGTGGCGCCCTGCTGCTGAGAAACACATCAGCCCGTCCGTGATGT
TAGACAGAGCCGAGAACCTACTTCACGACCACTATGGAGGGAAAGAACTGGGATACCC
GTCGCAGCATGGTGTTTCCAGGCACCTGCGGGAGGTGGGAGACGAGTTCAGGAGCAGAC
ATCTCAACTCCACGGACGACGCAGACAGGATCCCTTCCAGGAGGACTGGATGAAGATGA
AGGTCAAGCTGGGCTCCGCGCTAGGGGGCCCTACCTGGGAGTCCACCTGAGAAGAAAAG
ATTTCTCTGGGGTCACAGACAGGATGTACCCAGTCTGGAAGGGGCCGTGAGGAAGATCC
GCAGCCTCATGAAGACCCACCGCTGGACAAGGTGTTTGTGGCCACAGATGCCGTCAGAA
AGGAATATGAAGAGCTAAAAAGCTGTTACCCGAGATGGTGGGTTTGAACCCACGTGGG
AGGAGCTGGAGCTTACAAGGACGGAGGCGTTGCGATTATTGACCAAGTGGATCTGCGCAC
ACGCCAGGTGCCTGCCACGTCCTGTCGGCCGAGAGCGGGTCCGGTGGCTTTCAAAGGT
TCTTCTGTCCCAAGTACTCGGTGTGAGCAGATGGTCGCTGTGTTACAGTGGTCATT
TCCATACTGTTTGCCTCCTCGTCTGA

Restriction Sites: Please inquire
ACCN: NM_015227



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Insert Size:	1300 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).
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:	<u>NM_015227.3</u> , <u>NP_056042.1</u>
RefSeq Size:	4828 bp
RefSeq ORF:	1275 bp
Locus ID:	23275
UniProt ID:	<u>Q9Y2G5</u>
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 (1) represents the longest transcript and encodes isoform A.