

## Recombinant Human POFUT2, His-tagged

**Cat. No.** POFUT2-27511TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 196-429 of Human POFUT2 with N terminal His tag; Predicted MWt 28 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	196-429 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Isoform A is expressed in fetal liver and peripheral blood lymphocytes. Isoform B is expressed in spleen, lung, testis, bone marrow, thymus, pancreas, prostate, fetal brain, fetal liver and fetal kidney. Isoform C is expressed in brain, heart, spleen, liv
<b>Form</b>	Lyophilised:Reconstitute with 133 µl aqua dest.
<b>Storage buffer</b>	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	QGSASIVAPLLLRNTSARSVMLDRAENLLHDHYGGKEYWD TRRSMVFARHLREVG DEFRRHLNSTDDADRIPFQEDW MKMKVKLGSGALGGPYLGVHLRRKDFIWHGRQD VPSLEG AVRKIRSLMKTHRLDKVAVATDAVRKEYEELKLLPEM VRFEPTWEELEL YKGGVAIIDQWICAHARFFIGTSVSTF SFRIHEEREILGLDPKTTYNRFCDQEKAC EQPTHWKI TY
<b>Sequence Similarities</b>	Belongs to the glycosyltransferase 68 family.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">POFUT2 protein O-fucosyltransferase 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">POFUT2</a>
<b>Synonyms</b>	POFUT2; protein O-fucosyltransferase 2; C21orf80, chromosome 21 open reading frame 80; GDP-fucose protein O-fucosyltransferase 2; FUT13; KIAA0958;
<b>Gene ID</b>	<a href="#">23275</a>
<b>mRNA Refseq</b>	<a href="#">NM_015227</a>
<b>Protein Refseq</b>	<a href="#">NP_056042</a>
<b>MIM</b>	<a href="#">610249</a>
<b>Uniprot ID</b>	<a href="#">Q9Y2G5</a>
<b>Chromosome Location</b>	21q22.3

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<b>Pathway</b>	Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;
<b>Function</b>	peptide-O-fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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