

Datasheet for ABIN7547811
FUT2 Protein (AA 1-343) (His tag)



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Overview

Quantity:	1 mg
Target:	FUT2
Protein Characteristics:	AA 1-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat FUT2 Protein expressed in mammalien cells.
Sequence:	MLVVQMPFSF PMAHFILFVF TVSTIFHVQQ RLAKIQAMWE LPVQIPVLAS TSKALGPSQL RGMWTINAIG RLGNOQMGEYA TLYALAKMNG RPAFIPAQMH STLAPIFRIT LPVLHSATAS RIPWQNYHLN DWMEEEYRHI PGEYVRFYGY PCSWTFYHHL RQEILQEFTL HDHVREEAQK FLRGLQVNGS RPGTFVGVHV RRGDYVHVMP KVKWKGVVADR RYLQQALDWF RARYSSLIFV VTSNGMAWCR ENIDTSHGDV VFAGDGI EGS PAKDFALLTQ CNHTIMTIGT FGIWAAYLTG GDTIYLANYT LPDSPFLKIF KPEAAFLPEW TGIAADLSPL LKH Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	FUT2
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Alternative Name:	FUT2 (FUT2 Products)
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Background:	Galactoside alpha-(1,2)-fucosyltransferase 2 (Alpha(1,2)FT 2) (Fucosyltransferase 2) (GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 2) (SE2) (Secretor blood group alpha-2-fucosyltransferase) (Secretor factor) (Se) (Type 1 galactoside alpha-(1,2)-fucosyltransferase FUT2) (EC 2.4.1.69) (Type 2 galactoside alpha-(1,2)-fucosyltransferase FUT2) (EC 2.4.1.344),FUNCTION: Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the terminal galactose on both O- and N-linked glycans chains of cell surface glycoproteins and glycolipids and the resulting epitope regulates several processes such as cell-cell interaction including host-microbe interaction, cell surface expression and cell proliferation (PubMed:7876235, PubMed:8018146, PubMed:12692541). Preferentially fucosylates gangliosides GA1 and GM1 in the antrum, cecum and colon and in the female reproductive organs (By similarity). Fucosylated host glycoproteins or glycolipids mediate interaction with intestinal microbiota influencing its composition (PubMed:22068912, PubMed:21625510, PubMed:24733310). Creates a soluble precursor oligosaccharide FuC-alpha ((1,2)Galbeta-) called the H antigen which is an essential substrate for the final step in the
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Target Details

soluble ABO blood group antigen synthesis pathway (PubMed:7876235).
{ECO:0000250|UniProtKB:Q9JL27, ECO:0000269|PubMed:12692541,
ECO:0000269|PubMed:21625510, ECO:0000269|PubMed:22068912,
ECO:0000269|PubMed:24733310, ECO:0000269|PubMed:7876235,
ECO:0000269|PubMed:8018146}.

Molecular Weight: 39.0 kDa

UniProt: [Q10981](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months