Datasheet for ABIN7561664

FUT2 Protein (AA 1-347) (His tag)

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Overview

Quantity:	1 mg
Target:	FUT2
Protein Characteristics:	AA 1-347
Origin:	Mouse
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:	MASAQVPFSF PLAHFLIFVF VTSTIIHLQQ RIVKLQTLSE KELQAVQMSS PNAARTDMQQ SAKLQGIFTI NSIGRLGNQM GEYATLFALA RMNGRLAFIP ESMHNALAPI FRISLPVLHS DTARRIPWQN YHLNDWMEER YRHIPGQYVR FTGYPCSWTF YHHLRPEILK EFTLHDHVRE EAQAFLRGLR VNGSQPSTFV GVHVRRGDYV HVMPKVWKGV VADRGYLEKA LDRFRARYSS PVFVVTSNGM AWCRENINTS LGDVVFAGNG IEGSPAKDFA LLTQCNHTIM TIGTFGIWAA YLAGGDTIYL ANYTLPDSPF LKIFKPAAAF LPEWMGIPAD LSPLLKH **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 mammalien 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
Grade:	custom-made

Target Details

Target:	FUT2
Alternative Name:	Fut2 (FUT2 Products)
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) (GDP-fucose: beta-galactoside alpha1,2-fucosyltransferase) (MFUT-II) (Secretory blood group protein 2) (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:11018479, PubMed:11368156, PubMed:14967068, PubMed:11323419, PubMed:27161092, PubMed:19706747). Preferentially fucosylates gangliosides GA1 and GM1 in the antrum, cecum and colon and in the female reproductive organs (PubMed:11713270, PubMed:14967068). Fucosylated host glycoproteins or glycolipids mediate interaction with intestinal microbiota influencing its composition (PubMed:27161092, PubMed:19706747). Creates a soluble precursor oligosaccharide FuC-alpha ((1,2)Galbeta-)

Target Details

	called the H antigen which is an essential substrate for the final step in the soluble ABO blood group antigen synthesis pathway (PubMed:11323419). {ECO:0000269|PubMed:11018479, ECO:0000269|PubMed:11323419, ECO:0000269|PubMed:11368156, ECO:0000269|PubMed:11713270, ECO:0000269|PubMed:14967068, ECO:0000269|PubMed:19706747, ECO:0000269|PubMed:27161092}.
Molecular Weight:	39.2 kDa
UniProt:	Q9JL27

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