Datasheet for ABIN3080331

FUT6 Protein (AA 1-359) (Strep Tag)

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Overview

Quantity:	0.5 mg
Target:	FUT6
Protein Characteristics:	AA 1-359
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FUT6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MDPLGPAKPQ WSWRCCLTTL LFQLLMAVCF FSYLRVSQDD PTVYPNGSRF PDSTGTPAHS IPLILLWTWP FNKPIALPRC SEMVPGTADC NITADRKVYP QADAVIVHHR EVMYNPSAQL PRSPRRQGQR WIWFSMESPS HCWQLKAMDG YFNLTMSYRS DSDIFTPYGW LEPWSGQPAH PPLNLSAKTE LVAWAVSNWG PNSARVRYYQ SLQAHLKVDV YGRSHKPLPQ GTMMETLSRY KFYLAFENSL HPDYITEKLW RNALEAWAVP VVLGPSRSNY ERFLPPDAFI HVDDFQSPKD LARYLQELDK DHARYLSYFR WRETLRPRSF SWALAFCKAC WKLQEESRYQ TRGIAAWFT **Sequence without tag. The proposed Strep-Tag is based on experience s 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: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure

correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details

Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	FUT6
Alternative Name:	FUT6 (FUT6 Products)
Background:	4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase FUT6 (EC 2.4.1.152) (Fucosyltransferase 6) (Fucosyltransferase VI) (Fuc-TVI) (FucT-VI) (Galactoside 3-L-fucosyltransferase),FUNCTION: [Isoform 1]: Catalyzes the transfer of L-fucose, from a guanosine diphosphate-beta-L-fucose, to the N-acetyl glucosamine (GlcNAc) of a distal alpha2,3 sialylated lactosamine unit of a glycoprotein- or a glycolipid-linked sialopolylactosamines chain or of a distal or internal lactosamine unit of a neutral glycoprotein- or a glycolipid-linked polylactosamines chain through an alpha-1,3 glycosidic linkage and participates in surface expression of the sialyl Lewis X (sLe(x)), Lewis X (Le(x)) and non sialylated VIM2 determinants (PubMed:9451035, PubMed:1520296, PubMed:1339443, PubMed:7650030, PubMed:17604274, PubMed:9363434, PubMed:10728707, PubMed:29593094). Moreover transfers fucose to H-type 2 (Fucalpha1-2Galbeta1-4GlcNAc) chain acceptor substrates and participates in difucosylated sialyl Lewis x determinants (PubMed:17604274, PubMed:1339443). Also fucosylates a polylactosamine substrate having a 6 sulfate modification at the GlcNAc moiety and gives rise to sialyl and non-sialyl 6-sulfo lewis X (PubMed:10728707). Does not have activity towards type 1 ((Galbeta1-3GlcNAc)) and H-type 1 chain (Fucalpha1-2Galbeta1-3GlcNAc) acceptors substrates (PubMed:1339443, PubMed:17604274, PubMed:9363434). {ECO:0000269|PubMed:10728707, ECO:0000269|PubMed:1339443, ECO:0000269|PubMed:1520296, ECO:0000269|PubMed:17604274, ECO:0000269|PubMed:7650030, ECO:0000269|PubMed:9363434, ECO:0000269|PubMed:9451035}., FUNCTION: [Isoform 2]: Does not have alpha(1,3)-fucosyltransferase activity. {ECO:0000269|PubMed:7650030}.
Molecular Weight:	41.9 kDa
UniProt:	P51993

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

Application Details

	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

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