

# Datasheet for ABIN3118029

# XYLT2 Protein (AA 1-865) (Strep Tag)



### Overview

Quantity:	250 μg
Target:	XYLT2
Protein Characteristics:	AA 1-865
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XYLT2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Brand:	AliCE®
Sequence:	MVASARVQKL VRRYKLAIAT ALAILLLQGL VVWSFSGLEE DEAGEKGRQR KPRPLDPGEG
	SKDTDSSAGR RGSTGRRHGR WRGRAESPGV PVAKVVRAVT SRQRASRRVP PAPPPEAPGR
	QNLSGAAAGE ALVGAAGFPP HGDTGSVEGA PQPTDNGFTP KCEIVGKDAL SALARASTKQ
	CQQEIANVVC LHQAGSLMPK AVPRHCQLTG KMSPGIQWDE SQAQQPMDGP PVRIAYMLVV
	HGRAIRQLKR LLKAVYHEQH FFYIHVDKRS DYLHREVVEL AQGYDNVRVT PWRMVTIWGG
	ASLLRMYLRS MRDLLEVPGW AWDFFINLSA TDYPTRTNEE LVAFLSKNRD KNFLKSHGRD
	NSRFIKKQGL DRLFHECDSH MWRLGERQIP AGIVVDGGSD WFVLTRSFVE YVVYTDDPLV
	AQLRQFYTYT LLPAESFFHT VLENSLACET LVDNNLRVTN WNRKLGCKCQ YKHIVDWCGC
	SPNDFKPQDF LRLQQVSRPT FFARKFESTV NQEVLEILDF HLYGSYPPGT PALKAYWENT
	YDAADGPSGL SDVMLTAYTA FARLSLHHAA TAAPPMGTPL CRFEPRGLPS SVHLYFYDDH
	FQGYLVTQAV QPSAQGPAET LEMWLMPQGS LKLLGRSDQA SRLQSLEVGT DWDPKERLFR

NFGGLLGPLD EPVAVQRWAR GPNLTATVVW IDPTYVVATS YDITVDTETE VTQYKPPLSR
PLRPGPWTVR LLQFWEPLGE TRFLVLPLTF NRKLPLRKDD ASWLHAGPPH NEYMEQSFQG
LSSILNLPQP ELAEEAAQRH TQLTGPALEA WTDRELSSFW SVAGLCAIGP SPCPSLEPCR
LTSWSSLSPD PKSELGPVKA DGRLR

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 posttranslational 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details		
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).	
Grade:	custom-made	
Target Details		
Target:	XYLT2	
Alternative Name:	XYLT2 (XYLT2 Products)	
Background:	Xylosyltransferase 2 (EC 2.4.2.26) (Peptide O-xylosyltransferase 1) (Xylosyltransferase II) (XT-II) (XyIT-II),FUNCTION: Catalyzes the first step in the biosynthesis of chondroitin sulfate, heparan sulfate and dermatan sulfate proteoglycans, such as DCN. Transfers D-xylose from UDP-D-xylose to specific serine residues of the core protein. {ECO:0000269 PubMed:17189265, ECO:0000269 PubMed:26027496}.	
Molecular Weight:	96.8 kDa	
UniProt:	Q9H1B5	
Pathways:	Glycosaminoglycan Metabolic Process	
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.	
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	

Restrictions: For Research Use only

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## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.  Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months