

Datasheet for ABIN3113744

## MAN2A2 Protein (AA 1-1150) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	MAN2A2
Protein Characteristics:	AA 1-1150
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAN2A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MKLKKQVTVC GAAIFCVAVF SLYLMLDRVQ HDPTRHQNGG NFPRSQISVL QNRIEQLEQL</p> <p>LEENHEIISH IKDSVLELTA NAEGPPAMLP YYTVNGSWVW PPEPRPSFFS ISPQDCQFAL</p> <p>GGRGQKPELQ MLTVSEELPF DNVDGGVWRQ GFDISYDPHD WDAEDLQVFV VPHSHNDPGW</p> <p>IKTFDKYYTE QTQHILNSMV SKLQEDPRRR FLWAEVSFFA KWWDNINVQK RAAVRRLVGN</p> <p>GQLEIATGGW VMPDEANSHY FALIDQLIEG HQWLERNLGA TPRSGWAVDP FGYSSTMPYL</p> <p>LRRANLTSML IQRVHYAIKK HFAATHSLEF MWRQTWSDSDS STDIFCHMMP FYSYDVPHTC</p> <p>GPDPKICCCQF DFKRLPGGRI NCPWKVPPRA ITEANVAERA ALLLDQYRKK SQLFRSNVLL</p> <p>VPLGDDFRYD KPQEWDAQFF NYQRLFDFFN SRPNLHVQAA FGTLSDYFDA LYKRTGVEPG</p> <p>ARPPGFPVLS GDFFSYADRE DHYWTGYYS RPFYKSLDRV LEAHLRGAEV LYSLAAAHAR</p> <p>RSGLAGRYPL SDFTLLTEAR RTLGLFQHHD AITGTAKEAV VVDYGVRLLR SLVNLKQVII</p> <p>HAAHYLVLGD KETYHFDPEA PFLQVDDTRL SHDALPERTV IQLDSSPRFV VLFNPLEQER</p>

FSMVSLLVNS PRVRVLSEEG QPLAVQISAH WSSATEAVPD VYQVSPVRL PALGLGVLQL  
QLGLDGHRTL PSSVRIYLHG RQLSVSRHEA FPLRVIDSGT SDFALSNRYM QVWFSGLTGL  
LKSIRRVDEE HEQQVDMQVL VYGTRTSKDK SGAYLFLPDG EAKPYVPKEP PVLRVTEGPF  
FSEVVAYYEH IHQAVRLYNL PGVEGLSLDI SSLVDIRDYV NKELALHIHT DIDSQGIFFT  
DLNGFQVQPR RYLKKLPLQA NFYPMPVMAY IQDAQKRLTL HTAQALGVSS LKDGQLEVL  
DRRLMQDDNR GLGQGLKDNK RTCNRFRLLL ERRTVGSEVQ DSHSTSYPST LSHLTSMYLN  
APALALPVAR MQLPGPGLRS FHPLASSLPC DFHLLNLRTL QAEEDTLPSA ETALILHRKG  
FDCGLEAKNL GFNCTTSQ GK VALGSLFHGL DVVFLQPTSL TLLYPLASPS NSTDVYLEPM  
EIATFRLRLG

**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.**

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### 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 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!

## Product Details

### 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.

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: MAN2A2

Alternative Name: MAN2A2 ([MAN2A2 Products](#))

Background: Alpha-mannosidase 2x (EC 3.2.1.114) (Alpha-mannosidase IIx) (Man IIx) (Mannosidase alpha class 2A member 2) (Mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase),FUNCTION: Catalyzes the first committed step in the biosynthesis of complex N-glycans. It controls conversion of high mannose to complex N-glycans, the final hydrolytic step in the N-glycan maturation pathway.

Molecular Weight: 130.5 kDa

UniProt: [P49641](#)

## 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.

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Restrictions: For Research Use only

## 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