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Datasheet for ABIN3136257  
**MAN2A2 Protein (AA 1-1152) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MAN2A2
Protein Characteristics:	AA 1-1152
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAN2A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence: MKLKKQVTVC GAAIFCVAVF SLYLMLDRVQ HDPARHQNGG NFPRSQISVL QNRIEQLEQL  
LEENHDIISR IKDSVLELTA NAEGPPALLP YHTANGSWAV LPEPRPSFFS VSPQDCQFAL  
GGRGQKPELQ MLTVSEDLPF DNVEGGVWRQ GFDISYSPND WDTEDLQVFV VPHSHNDPGW  
IKTFDKYYTE QTQHILNSMV SKLQEDPRRR FLWAEVSFFA KWWDNISAQK RAAVRRLVGN  
GQLEIATGGW VMPDEANSHY FALVDQLIEG HQLWLERNLGA TPRSGWAVDP FGHSSTMPYL  
LRRANLTSML IQRVHYAIKK HFAATHSLEF MWRQMWDSDS STDIFCHMMP FYSYDVPHTC  
GPDPKICCCQF DFKRLPGGRI NCPWKVPPRA ITEANVADRA ALLLDQYRKK SRLFRSNVLL  
VPLGDDFRYD KPQEWDQFF NYQRLFDLFLN SKPEFHVQAQ FGTLSEYFDA LYKRTGVEPG  
ARPPGFPVLS GFFSYADRE DHYWTGYYS RPFYKSLDRV LEAHLRGAEI LYSLALAHAR  
RSGLAGQYPL SDFALLTEAR RTLGLFQHHD AITGTAKEAV VVDYGVRLLR SLVSLKQVII  
NAAHYLVLGD QETYSFDPGT PFLQMDDSRV SHDALPERTV IRLDSSPRFV VVFNPLEQER  
LSVSVLLVNS PRVRVLSEEG QPLSVQISVH WSSATDMVPD VYQVSPVRL PGLGLGLVQL

QPDLDGPYTL QSSVRVYLNG VKLSVSRQSA FPVRVVDGSA SDFAINRYM QVWFSGLTGL  
LKSIRRVDEE QEQQMELEFL VYGTRTSKDK SGAYLFLPDS EAKPYVPKKP PVLRVTEGPF  
FSEVAVYYEH FHQVIRLYNL PGVEGLSLDM SFQVDIRDYV NKELALRIHT DIDSQGTFFT  
DLNGFQIQPR QYLKKLPLQA NFYPMPVMAY IQDSQRRLTL HTAQALGVSS LGNGQLEVL  
DRRLMQDDNR GLGQGLKDNK ITCNRFRLLL ERRTTMSPEV HQEQERSTSY PSLLSHLTSM  
YLSTPPLVLP VAKRQGTSPA LRSFHPLASP LPCDFHLLNL RMLPAEDTLP ATDSALILHR  
KGFDCGLEAK NLGFNCTTSQ GKLALGSLFH GLDVTFLQPT SLTLLYPLAS PSNSTDISLE  
PMEISTFRLR LG

**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 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!

## Product Details

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### 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.

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### 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.

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### Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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### Target:

MAN2A2

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### Alternative Name:

Man2a2 ([MAN2A2 Products](#))

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### 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 (By similarity). {ECO:0000250}.

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### Molecular Weight:

130.6 kDa

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### UniProt:

[Q8BRK9](#)

## Application Details

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### 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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### Comment:

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## Application Details

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Restrictions: For Research Use only

## Handling

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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)