

Datasheet for ABIN3136257

MAN2A2 Protein (AA 1-1152) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	MAN2A2
Protein Characteristics:	AA 1-1152
Origin:	Mouse
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 HDPARHQNGG NFPRSQISVL QNRIEQLEQL LEENHDIISR IKDSVLELTA NAEGPPALLP YHTANGSWAV LPEPRPSFFS VSPQDCQFAL GGRGQKPELQ MLTVSEDLPF DNVEGGVWRQ GFDISYSPND WDTEDLQVFV VPHSHNDPGW IKTFDKYYTE QTQHILNSMV SKLQEDPRRR FLWAEVSFFA KWWDNISAQK RAAVRRRLVGN GQLEIATGGW VMPDEANSHY FALVDQLIEG HQWLERNLGA TPRSGWAVDP FGHSSTMPYL LRRANLTSML IQRVHYAIKK HFAATHSLEF MWRQMWDSDS STDIFCHMMP FYSYDVPHTC GPDPKICCCQF DFKRLPGGRI NCPWKVPPRA ITEANVADRA ALLLDQYRKK SRLFRSNVLL VPLGDDFRYD KPQEWDAQFF NYQRLFDLNL SKPEFHVQAQ FGTLSEYFDA LYKRTGVEPG ARPPGFPVLS GDFFSYADRE DHYWTGYYS RPFYKSLDRV LEAHLRGAEI LYSLALAHAR RSGLAGQYPL SDFALLTEAR RTLGLFQHHD AITGTAKEAV VVDYGVRLLR SLVSLKQVII NAAHYLVLGD QETYSFDPGT PFLQMDDSRV SHDALPERTV IRLDSSPRFV VVFNPLEQER</p>

LSVSLLVNS PRVRVLSEEG QPLSVQISVH WSSATDMVPD VYQVSPVRL PGLGLGVLQL
QPDLDGPYTL QSSVRVYLNG VKLSVSRQSA FPVRVVDSCA 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.

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 (By similarity). {ECO:0000250}.

Molecular Weight: 130.6 kDa

UniProt: [Q8BRK9](#)

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.

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Application Details

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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 Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months