

Datasheet for ABIN3132293 ABCD4 Protein (AA 1-606) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ABCD4
Protein Characteristics:	AA 1-606
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCD4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAVPGPTARA GARPRLDLQL VQRFVRIQKV FFPSWSSQNV LMFMTLLCVT LLEQLVIYQV
	GLIPSQYYGV LGNKDLDGFK ALTLLAVTLI VLNSTLKSFD QFTCNLLYVS WRKDLTEHLH
	HLYFRARVYY TLNVLRDDID NPDQRISQDV ERFCRQLSSV TSKLIISPFT LTYYTYQCFQ
	STGWLGPVSI FGYFIVGTMV NKTLMGPIVT KLVQQEKLEG DFRFKHMQIR VNAEPAAFYR
	AGLVEHMRTD RRLQRLLQTQ RELMSRELWL YIGINTFDYL GSILSYVVIA IPIFSGVYGD
	LSPTELSTLV SKNAFVCIYL ISCFTQLIDL STTLSDVAGY THRIGELQEA LLDMSRKSQD
	CEALGESEWD LDKTPGCPTT EPSDTAFLLD RVSILAPSSD KPLIKDLSLK ICEGQSLLIT
	GNTGTGKTSL LRVLGGLWEG MKGSVQMLAD FGPHGVLFLP QKPFFTDGTL REQVIYPLKE
	IYPDSGSADD ERIVRFLELA GLSSLVARTG GLDQQVDWNW YDVLSPGEMQ RLSFARLFYL
	QPKYAVLDEA TSALTEEAES ELYRIGQQLG MTFISVGHRP SLEKFHSWVL RLHGGGSWEL TRIKLE
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 fo 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.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Grade:

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custom-made

Target Details

Target:	ABCD4
Alternative Name:	Abcd4 (ABCD4 Products)
Background:	Lysosomal cobalamin transporter ABCD4 (EC 7.6.2.8) (ATP-binding cassette sub-family D member 4) (PMP70-related protein) (P70R) (Peroxisomal membrane protein 1-like) (PXMP1-L) (Peroxisomal membrane protein 69) (PMP69),FUNCTION: Lysosomal membrane protein that transports cobalamin (Vitamin B12) from the lysosomal lumen to the cytosol in an ATP- dependent manner. Targeted by LMBRD1 lysosomal chaperone from the endoplasmic reticulum to the lysosomal membrane. Then forms a complex with lysosomal chaperone LMBRD1 and cytosolic MMACHC to transport cobalamin across the lysosomal membrane. {ECO:0000250 UniProtKB:014678}.
Molecular Weight:	68.6 kDa
UniProt:	089016
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 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.

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Handling

	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