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Datasheet for ABIN3093920

MROH2B Protein (AA 1-1585) (Strep Tag)

Overview

Quantity:	1 mg
Target:	MROH2B
Protein Characteristics:	AA 1-1585
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MROH2B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTLSTEEISIE MFGDINLTG MLNKEDIVNK EDIYSHLTSV IQNTDILDDA IVQRLIYYAS KDMRDNNMLR EIRMLAGEVL VSLAAHDFNS VMYEVQSNFR ILELPDEFVV LALAEATSY VSQSIPFMMM TLLTMQTMLR LAEDERMKGT FCIALEKFSK AIYKYVNHWR DFPYPRLDAN RLSDKIFMLF WYIMEKWAPL ASPMQTSLIV KAHGPTVSLL LHREDFRGYA LGQVPWLLNQ YKDKEIDFHV TQSLKQILTA AVLYDIGLPR SLRRSIFINL LQQICRAPEP PVKENEMKAS SCFLILAHSN PGELMEFFDE QVRSNNEAIR VGILTLLRLA VNADEPRLRD HIISIERTVK IVMGDLSTKV RNSVLLLIQT MCEKSYIEAR EGWPLIDYVF SQFATLNRNL EKPVKTNFHE NEKEEESVRE TSLEVLKTLT PLVIGMPQVL WPRILTFVVP AEYTEALEPL FSIIRILIMA EEKKQHSAGE STALVVSTGA VKLPSPQQLL ARLLVISMPA SLGELRGAGA IGLLKILPEI IHPKLVDLWK TRLPPELLQPL EGKNISTVLW ETMLLQLLKE SLWKISDVAW TIQLTQDFKQ QMGSYSNNST EKKFLWKALG TTLACCQDSD FVNSQIKEFL TAPNQLGDQR QGITSILGYC AENHLDIVLK VLKTFQNEK FFMNRCKSLF SGKKSLSLTKTD VMVIYGAVAL HAPKKQLLSR
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LNQDIISQVL SLHGQCSQVL GMSVMNKMMD LQMSFTRSIT EIGIAVQDAE DQGFQFSYKE
MLIGYMLDFI RDEPLDSLAS PIRWKALIAI RYLSKLPQL SLQDHLNILE ENIRRLPLP
PLENLKSEGQ TDKDKEHIQF LYERSMDALG KLLKTMMWDN VNAEDCQEMF NLLQMWLVSQ
KEWERERAFQ ITAKVLTNDI EAPENFKIGS LLGLLAPHSC DTLPTIRQAA ASSTIGLFYI
KGIHLEVERL QGLQEGLESD DVQVQIKISS KIAKIVSKFI PNEEILMFLE EMLDGLESLN
PTCTKACGIW MITVLKQQGA ALEDQLEIL GTIYHHMPVL RQKEESFQFI LEAISQIASF
HMDTVVNNLL QKPLPFDRDT KTLWKALAEK PASSGKLLQA LIDKLETELE DDIARVEAIS
VACAMYEVIS MGTSVTGLYP ELFTLLLKLVSCTLGQKMLT CPWSHRRHVM QQGEQQQIPD
PCRLSTATLK CLQAQAMREG LAKESDEGDN LWTLLSSPST HHIGVCSLAR SMAVWQHGV
LDIMEQLLSS LTSSSENYRI TGAFFSELM KEPILWKHGN LRNVLILMDQ SAWDSNATLR
QMAIRGLGNT ASGAPHKVKK HKQLMLESII RGLYHLARTE VVCESLKALK KILELLTDRD
VSFYFKEIVL QTRTFEDEDQ DDVRLTAIFL FEDLAPLTGR RWKIFFAEI KKSLSIFLLH
LWDPNPKIGV ACRDVLVCI PFLGLQELYG VLDRLDQDL PRARDFYRQF CVKLAKKNQE
ILWILHTHSF TFFTSTWEVI RSAAVKLTDV VLNLTSSQYV ELLDREQLTT RLQALRQDPC
ISVQRAAEAA LQTLLRRCKE TSIPL

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 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!

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.

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.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	MROH2B
Alternative Name:	MROH2B (MROH2B Products)
Background:	Maestro heat-like repeat-containing protein family member 2B (HEAT repeat-containing protein 7B2) (Sperm PKA-interacting factor) (SPIF),FUNCTION: May play a role in the process of sperm capacitation. {ECO:0000250 UniProtKB:Q7M6Y6}.
Molecular Weight:	180.8 kDa
UniProt:	Q7Z745

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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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

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)