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Datasheet for ABIN3094922
RBM25 Protein (AA 1-843) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RBM25
Protein Characteristics:	AA 1-843
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM25 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MSFPPHLNRP PMGIPALPPG IPPPQFPGFP PPVPPGTPMI PVPMSIMAPA PTVLVPTVSM VGKHLGARKD HPGLKAKEND ENCGPTTTVF VGNISEKASD MLIRQLLAKC GLVLSWKRQV GASGKLQAFG FCEYKEPEST LRALRLLHDL QIGEKLLVK VDAKTKAQLD EWKAKKKASN GNARPETVTN DDEEALDEET KRRDQMIKGA IEVLIREYSS ELNAPSQESD SHPRKKKKEK KEDIFRRFPV APLIPYPLIT KEDINAIEME EDKRD LISRE ISKFRDTHKK LEEKGKKEK ERQEIEKERR ERERERERER ERRERERERE REREREKEKE RERERERDRD RDRTKERDRD RDRERDRDRD RERSSDRNKD RSR SREKSRD RERERERERE RERERERERE RERERERERE REREREKDKK RDREEDDEDA YERRKLERKL REKEAAYQER LKNWEIRERK KTREYEKEAE REEERRREMA KEAKRLKEFL EDYDDDRDDP KYRGSALQK RLRDREKEME ADERDRKREK EELEEIRQRL LAEGHPDPDA ELQRMEQEAE RRRQPQIKQE PESEEEEEEEK QEKEEKREEP MEEEEPEQK PCLKPTLRPI SSAPSVSSAS GNATPNTPGD ESPCGIIIPH ENSPDQQQPE EHRPKIGLSL KLGASNSPGQ PNSVKRKKLP VDSVFNKFED ESDDDVPRKR KLVPLDYGED DKNATKGTVN
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TEEKRKHIKS LIEKIPTAKP ELFAYPLDWS IVDSILMERR IRPWINKKII EYIGEEEATL VDFVCSKVMA
HSSPQSILDD VAMVLDEEAE VFIVKMWRLL IYETEAKKIG LVK

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.

Product Details

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:	RBM25
Alternative Name:	RBM25 (RBM25 Products)
Background:	<p>RNA-binding protein 25 (Arg/Glu/Asp-rich protein of 120 kDa) (RED120) (Protein S164) (RNA-binding motif protein 25) (RNA-binding region-containing protein 7),FUNCTION: RNA-binding protein that acts as a regulator of alternative pre-mRNA splicing. Involved in apoptotic cell death through the regulation of the apoptotic factor BCL2L1 isoform expression. Modulates the ratio of proapoptotic BCL2L1 isoform S to antiapoptotic BCL2L1 isoform L mRNA expression. When overexpressed, stimulates proapoptotic BCL2L1 isoform S 5'-splice site (5'-ss) selection, whereas its depletion caused the accumulation of antiapoptotic BCL2L1 isoform L. Promotes BCL2L1 isoform S 5'-ss usage through the 5'-CGGGCA-3' RNA sequence. Its association with LUC7L3 promotes U1 snRNP binding to a weak 5' ss in a 5'-CGGGCA-3'-dependent manner. Binds to the exonic splicing enhancer 5'-CGGGCA-3' RNA sequence located within exon 2 of the BCL2L1 pre-mRNA. Also involved in the generation of an abnormal and truncated splice form of SCN5A in heart failure. {ECO:0000269 PubMed:18663000, ECO:0000269 PubMed:21859973}.</p>
Molecular Weight:	100.2 kDa
UniProt:	P49756

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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Application Details

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)