

Datasheet for ABIN3094493

PAX3 and PAX7 Binding Protein 1 (PAXBP1) (AA 1-917) protein (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PAX3 and PAX7 Binding Protein 1 (PAXBP1)
Protein Characteristics:	AA 1-917
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MFRKARRVNV RKRNDSEEEE RERDEEQEPP PLLPPPGTGE EAGPGGGDRA PGGESLLGPG</p> <p>PSPPSALTPG LGAEAGGGFP GGAEPGNGLK PRKRPRENKE VPRASLLSFQ DEEEENEVVF</p> <p>KVKKSSYSKK IVKLLKKEYK EDLEKSKIKT ELNSSAESEQ PLDKTGHVKD TNQEDGVIIS</p> <p>EHGEDEMDME SEKEEEKPKT GGAFSNALSS LNVLRPGEIP DAAFIHAARK KRQMARELGD</p> <p>FTPHDNEPGK GRLVREDEND ASDDEDDDEK RRIVFSVKEK SQRQKIAEEI GIEGSDDDAL</p> <p>VTGEQDEELS RWEQEQIRKG INIPQVQASQ PAEVNMYQYQY TYQTMPYGSS YGIPYSYTAY</p> <p>GSSDAKSQKT DNTVPFKTPS NEMTPVTIDL VKKQLKDRLD SMKELHKTNR QQHEKHLQSR</p> <p>VDSTRAIERL EGSSGGIGER YKFLQEMRGY VQDLLECFSE KVPLINELES AIHQLYKQRA</p> <p>SRLVQRRQDD IKDESSEFSS HSNKALMAPN LDSFGRDRAL YQEHAKRRIA EREARRTRRR</p> <p>QAREQTGKMA DHLEGLSSDD EETSTDITNF NLEKDRISKE SGKVFEDVLE SFYSIDCIKS</p> <p>QFEAWRSKYY TSYKDAYIGL CLPKLFNPLI RLQLLTWTPL EAKCRDFENM LWFESLLFYG</p>

CEEREQEKDD VDVALPTIV EKVILPKLTV IAENMWDPFS TTQTSRMVGI TLKLINGYPS
VVNAENKNTQ VYLKALLRM RRTLDDDVFM PLYPKNVLEN KNSGPYLFFQ RQFWSSVKLL
GNFLQWYGIF SNKTLQELSI DGLLNRYILM AFQNSEYGDD SIKKAQNVIN CFPKQWFMNL
KGERTISQLE NFCRYLVHLA DTIYRNSIGC SDVEKRNARE NIKQIVKLLA SVRALDHAMS
VASDHNVKEF KSLIEGK

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!

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.

Product Details

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:	PAX3 and PAX7 Binding Protein 1 (PAXBP1)
Alternative Name:	PAXBP1 (PAXBP1 Products)
Background:	<p>PAX3- and PAX7-binding protein 1 (GC-rich sequence DNA-binding factor 1),FUNCTION: Adapter protein linking the transcription factors PAX3 and PAX7 to the histone methylation machinery and involved in myogenesis. Associates with a histone methyltransferase complex that specifically mediates dimethylation and trimethylation of 'Lys-4' of histone H3. Mediates the recruitment of that complex to the transcription factors PAX3 and PAX7 on chromatin to regulate the expression of genes involved in muscle progenitor cells proliferation including ID3 and CDC20 (By similarity). {ECO:0000250}.</p>
Molecular Weight:	104.8 kDa
UniProt:	Q9Y5B6

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:	<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</p>

Application Details

	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. 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