

Datasheet for ABIN3095536
Sp3 Protein (AA 1-781) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	Sp3
Protein Characteristics:	AA 1-781
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Sp3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTAPEKPVKQ EEMAALDVDS GGGGGGGGGH GEYLQQQQQH GNGAVAAAAA AQDTQPSPLA LLAATCSKIG PPSPGDDEEE AAAAAGAPAA AGATGDLASA QLGGAPNRWE VLSATPTTIK DEAGNLVQIP SAATSSGQYV LPLQNLQNQQ IFSVAPGSDS SNGTVSSVQY QVIPQIQSAD GQQVQIGFTG SSDNGGINQE SSQIQIIPGS NQTLLASGTP SANIQNLIPQ TGQVQVQGVA IGGSSFPGQT QVVANVPLGL PGNITFVPIN SVDLDSLGLS GSSQTMTAGI NADGHLINTG QAMDSSDNSE RTGERVSPDI NETNTDSDLF VPTSSSSQLP VTIDSTGILQ QNTNSLTSS GQVHSSDLQG NYIQSPVSEE TQAQNIQVST AQPVVQHLQL QESQQPTSQA QIVQGITPQT IHGVQASGQN ISQQALQNLQ LQLNPGTFLI QAQTVTPSGQ VTWQTFQVQG VQNLQNLQIQ NTAAQQITLT PVQTLTLGQV AAGGAFTSTP VSLSTGQLPN LQTVTVNSID SAGIQLHPGE NADSPADIRI KEEEPDPEEW QLSGDSTLNT NDLTHLRVQV VDEEGDQQHQ EGKRLRRVAC TCPNCKEGGG RGTNLGKKKQ HICHIPGCGK VYGKTSHLRA HLRWHSGERP FVCNWMYCGK RFTRSDQLQR HRRHTHTGEKK FVCPECKSRF MRSDHLAKHI KTHQNKKGIH SSSTVLASVE
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AARDDTLITA GGTTLILANI QQGSVSGIGT VNTSATSNDQD ILTNTEIPLQ LVTVSGNETM E

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.

Purification:

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

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	Sp3
Alternative Name:	SP3 (Sp3 Products)
Background:	<p>Transcription factor Sp3 (SPR-2),FUNCTION: Transcriptional factor that can act as an activator or repressor depending on isoform and/or post-translational modifications. Binds to GT and GC boxes promoter elements. Competes with SP1 for the GC-box promoters. Weak activator of transcription but can activate a number of genes involved in different processes such as cell-cycle regulation, hormone-induction and house-keeping. {ECO:0000269 PubMed:10391891, ECO:0000269 PubMed:11812829, ECO:0000269 PubMed:12419227, ECO:0000269 PubMed:12837748, ECO:0000269 PubMed:15247228, ECO:0000269 PubMed:15494207, ECO:0000269 PubMed:15554904, ECO:0000269 PubMed:16781829, ECO:0000269 PubMed:17548428, ECO:0000269 PubMed:18187045, ECO:0000269 PubMed:18617891, ECO:0000269 PubMed:9278495}.</p>
Molecular Weight:	81.9 kDa
UniProt:	Q02447

Application Details

Application Notes:	<p>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.</p>
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>
Restrictions:	For Research Use only

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)