

Datasheet for ABIN3094314

p63 Protein (AA 1-680) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	p63 (TP63)
Protein Characteristics:	AA 1-680
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This p63 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	<p>MNFETSRCAT LQYCPDPYIQ RFVETPAHFS WKESYYRSTM SQSTQTNEFL SPEVFQHIWD</p> <p>FLEQPICSVQ PIDLNFVDEP SEDGATNKIE ISMDCIRMQD SDLSDPMWPQ YTNLGLLNSM</p> <p>DQQIQNGSSS TSPYNTDHAQ NSVTAPSPYA QPSSTFDALS PSPAIPSNTD YPGPHSFDVS</p> <p>FQQSSTAKSA TWTYSELKK LYCQIAKTCP IQIKVMTPPP QGAVIRAMPV YKKAEHVTEV</p> <p>VKRCPNHELK REFNEGQIAP PSHLIRVEGN SHAQYVEDPI TGRQSVLPY EPPQVGTEFT</p> <p>TVLYNFMENS SCVGGMNRPP ILIIVTLETR DGQVLGRRCF EARICACPPR DRKADEDSIR</p> <p>KQQVSDSTKN GDGTRKPRFQ NTHGIQMTSI KKRRSPDDEL LYLPVRGRET YEMLLKIKES</p> <p>LELMQYLPQH TIETVRQQQQ QHQHLLQKQ TSIQSPSSYG NSSPPLNKMN SMNKLPSVSQ</p> <p>LINPQQRNAL TPTTIPDGMG ANIPMMGTHM PMAGDMNGLS PTQALPPPLS MPSTSHCTPP</p> <p>PPYPTDCSIV SFLARLGCSS CLDYFTTQGL TTIYQIEHYS MDDLASLKIP EQFRHAIWKG</p> <p>ILDHRQLHEF SSPSHLLRTP SSASTVSVGS SETRGERVID AVRFTLRQTI SFPPRDEWND</p> <p>FNFDMDARRN KQQRKEEGE</p>
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**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.**

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### 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®):

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## Product Details

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: p63 (TP63)

Alternative Name: TP63 ([TP63 Products](#))

Background: Tumor protein 63 (p63) (Chronic ulcerative stomatitis protein) (CUSP) (Keratinocyte transcription factor KET) (Transformation-related protein 63) (TP63) (Tumor protein p73-like) (p73L) (p40) (p51),FUNCTION: Acts as a sequence specific DNA binding transcriptional activator or repressor. The isoforms contain a varying set of transactivation and auto-regulating transactivation inhibiting domains thus showing an isoform specific activity. Isoform 2 activates RIPK4 transcription. May be required in conjunction with TP73/p73 for initiation of p53/TP53 dependent apoptosis in response to genotoxic insults and the presence of activated oncogenes. Involved in Notch signaling by probably inducing JAG1 and JAG2. Plays a role in the regulation of epithelial morphogenesis. The ratio of DeltaN-type and TA\*-type isoforms may govern the maintenance of epithelial stem cell compartments and regulate the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Required for limb formation from the apical ectodermal ridge. Activates transcription of the p21 promoter. {ECO:0000269|PubMed:11641404, ECO:0000269|PubMed:12374749, ECO:0000269|PubMed:12446779, ECO:0000269|PubMed:12446784, ECO:0000269|PubMed:20123734, ECO:0000269|PubMed:22197488, ECO:0000269|PubMed:9774969}.

Molecular Weight: 76.8 kDa

UniProt: [Q9H3D4](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

## Application Details

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as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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### Comment:

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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!

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### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

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### Buffer:

The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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### Handling Advice:

Avoid repeated freeze-thaw cycles.

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### Storage:

-80 °C

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### Storage Comment:

Store at -80°C.

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### Expiry Date:

Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process