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Datasheet for ABIN3094248

## WHSC1L1 Protein (AA 1-1437) (Strep Tag)

### 1 Image

#### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | WHSC1L1  |
| Protein Characteristics:      | AA 1-1437  |
| Origin:                       | Human  |
| Source:                       | Tobacco ( <i>Nicotiana tabacum</i> )             |
| Protein Type:                 | Recombinant                                      |
| Purification tag / Conjugate: | This WHSC1L1 protein is labelled with Strep Tag. |
| Application:                  | ELISA, Western Blotting (WB), SDS-PAGE (SDS)     |

#### Product Details

Sequence: MDFSFSFMQG IMGNTIQQP QLIDSANIRQ EDAFDNNSDI AEDGGQTPYE ATLQQGFQYP  
ATTEDLPPLT NGYPSSISVY ETQTKYQSYN QYPNGSANGF GAVRNFSPD YYHSEIPNTR  
PHEILEKPS PQQPPPPSVP QTVIPKKTGS PEIKLKITKT IQNGRELFES SLCGDLLENEV  
QASEHTKSKH ESRKEKRKKS NKHDSSRSEE RKSHKIPKLE PEEQNRPNR VDTVSEKPRE  
EPVLKEEAPV QPILSSVPTT EVSTGVKFQV GDLVWSKVGT YPWWPCMVSS DPQLEVHTKI  
NTRGAREYHV QFFSNQPERA WVHEKRVREY KGHKQYEELL AEATKQASNH SEKQKIRKPR  
PQRERAQWDI GIAHAEKALK MTREERIEQY TFIYIDKQPE EALSQAKKSV ASKTEVKKTR  
RPRSVLNTQP EQTNAGEVAS SLSSTEIRRH SQRRHTSAEE EEPVVKIAW KTAARKSLP  
ASITMHKGS DLQKCNMSPV VKIEQVFALQ NATGDGKFID QFVYSTKGIG NKTEISVRGQ  
DRLIISTPNQ RNEKPTQSVS SPEATSGSTG SVEKKQRRS IRTRESEKS TEVVPKPKIK  
KEQVETVPA TVKTGLQKGA SEISDCKPL KKRSTASTDV EMTSSAYRDT SDSRGLSD  
LQVGFQKQVD SPSATADADV SDVQSMDSLL SRRGTGMSKK DTVCQICSS GDSLIPCEGE

CCKHFHLECL GLASLPDSKF ICMECKTGQH PCFSCKVSJK DVKRCVSGAC GKFYHEACVR  
KFPTAIFESK GFRCPQHCCS ACSMEKDIHK ASKGRMMRCL RCPVAYHSGD ACIAAGSMLV  
SSYLICSNH SKRSSNSSAV NVGFCFVCAR GLIVQDHSDP MFSSYAYKSH YLLNESNRAE  
LMKLPMPSS SASKKKCEKG GRLLCCESCP ASFHPECLSI EMPEGCWNCN DCKAGKLLHY  
KQIVVVKLGN YRWWPAEICN PRSVPLNIQG LKHDLGDFPV FFFGSHDYYW VHQGRVFPYV  
EGDKSFAEQG TSINKTFKKA LEEAAKRFQE LKAQRESKEA LEIEKNSRKP PPYKHIKANK  
VIGKVQIQVA DLSEIPRCNC KPADENPCGL ESECLNRMLQ YECHPQVCPA GDRCQNQCFT  
KRLYPDAEII KTERRGWGLR TKRSIKKGEF VNEYVGELID EEECLRIKR AHENSVTNFY  
MLTVTKDRII DAGPKGNYSR FMNHSCNPNC ETQKWTVNGD VRVGLFALCD IPAGMELTFN  
YNLDCLGNR TECHCGADNC SGFLGVRPKS ACASTNEEKA KNAKLLKQRR KIKTEPKQMH  
EDYCFQCGDG GELVMCDKGD CPKAYHLLCL NLTQPPYGKW ECPWHQCDEC SSAAVSFCEF  
CPHSFCKDHE KGALVPSALE GRLCCSEHDP MAPVSPEYWS KIKCKWESQD HGEEVKE

**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

## Product Details

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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.

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|                  |   |
|------------------|---|
| Purification:    | Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):<br><ol style="list-style-type: none"><li>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.</li><li>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.</li></ol> |
| 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   |

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## Target Details

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|                   |   |
|-------------------|---|
| Target:           | WHSC1L1   |
| Alternative Name: | NSD3 ( <a href="#">WHSC1L1 Products</a> )   |
| Background:       | Histone-lysine N-methyltransferase NSD3 (EC 2.1.1.370) (EC 2.1.1.371) (Nuclear SET domain-containing protein 3) (Protein whistle) (WHSC1-like 1 isoform 9 with methyltransferase activity to lysine) (Wolf-Hirschhorn syndrome candidate 1-like protein 1) (WHSC1-like protein 1),FUNCTION: Histone methyltransferase. Preferentially dimethylates 'Lys-4' and 'Lys-27' of histone H3 forming H3K2me2 and H3K27me2. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation, while 'Lys-27' is a mark for transcriptional repression. {ECO:0000269 PubMed:16682010}. |
| Molecular Weight: | 161.6 kDa   |
| UniProt:          | <a href="#">Q9BZ95</a>  |

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## Application Details

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**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:** 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!

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**Restrictions:** For Research Use only

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## 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

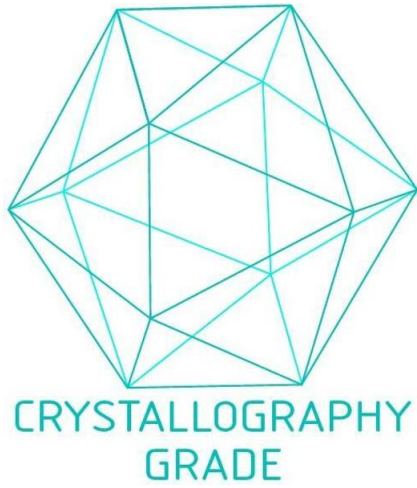
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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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