

Datasheet for ABIN3092911

## HERC4 Protein (AA 1-1057) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HERC4
Protein Characteristics:	AA 1-1057
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HERC4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MLCWGNASFG QLGLGGIDEE IVLEPRKSDF FINKRVRDVG CGLRHTVFVL DDGTVYTCGC</p> <p>NDLGQLGHEK SRKKPEQVVA LDAQNIVAVS CGEAHTLALN DKGQVYAWGL DSDGQLGLVG</p> <p>SEECIRVPRN IKSLSDIQIV QVACGYHSL ALSKASEVFC WGQNKYQQLG LGTDCKKQTS</p> <p>PQLLKSLGI PFMQVAAGGA HSFVLTLSGA IFGWGRNKFG QLGLNDENDR YVPNLLKSLR</p> <p>SQKIVYICCG EDHTAALTKE GGVFTFGAGG YGQLGHNSTS HEINPRKVFE LMGSIVTEIA</p> <p>CGRQHTSAFV PSSGRIYSFG LGGNGQLGTG STSNRKSPFT VKGNWYPYNG QCLPDIDSEE</p> <p>YFCVKRIFSG GDQSFSHYSS PQNCGPPDDF RCPNPTKQIW TVNEALIQKW LSYPSGRFPV</p> <p>EIANEIDGTF SSSGCLNGSF LAVSNDDHYR TGTRFSGVDM NAARLLFHKL IQPDHPQISQ</p> <p>QVAASLEKNL IPKLTSSLPD VEALRFYLT TLPECLMSDSN NFFTIAIPFG TALVNLEKAP</p> <p>LKVLENWWSV LEPPFLKIV ELFKEVVVHL LKLYKIGIPP SERRIFNSFL HTALKVLEIL</p> <p>HRVNEKMGQI IQYDKFYIHE VQELIDIRND YINWVQQQAY GMDVNHGLTE LADIPVTICT</p>

YPFVFDAQAK TTLLQTD AVL QMQMAIDQAH RQNVSSLFLP VIESVNPCLI LVVRRENIVG  
DAMEVLRKTK NIDYKKPLKV IFVGEDAVDA GGVKKEFFLL IMRELLDPKY GMFRYYEDSR  
LIWFSDKTFE DSDLFHLIGV ICGLAINYNT IVDLHFPLAL YKLLKKKPS LDDLKELMPD  
VGRSMQQLD YPEDDIEETF CLNFTITVEN FGATEVKELV LNGADTAVNK QNRQEFVDAY  
VDYIFNKSVA SLFDAFHAGF HKVCGGKVLL LFQPNELQAM VIGNTNYDWK ELEKNTEYKG  
EYWA EHPTIK IFWEVFHELP LEKKKQFLLF LTGSDRIPIL GMKSLKLVQ STGGGEEYLP  
VSHTCFNLLD LPKYTEKETL RSKLIQAIDH NEGFSLI

**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 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.

## Product Details

- 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:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	HERC4
Alternative Name:	HERC4 ( <a href="#">HERC4 Products</a> )
Background:	Probable E3 ubiquitin-protein ligase HERC4 (EC 2.3.2.26) (HECT domain and RCC1-like domain-containing protein 4) (HECT-type E3 ubiquitin transferase HERC4),FUNCTION: Probable E3 ubiquitin-protein ligase involved in either protein trafficking or in the distribution of cellular structures. Required for spermatozoon maturation and fertility, and for the removal of the cytoplasmic droplet of the spermatozoon. E3 ubiquitin-protein ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer it to targeted substrates. {ECO:0000250 UniProtKB:Q6PAV2}.
Molecular Weight:	118.6 kDa
UniProt:	<a href="#">Q5GLZ8</a>

## 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</p>

## Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months