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Datasheet for ABIN3135778  
**HERC4 Protein (AA 1-1057) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	HERC4
Protein Characteristics:	AA 1-1057
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This HERC4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Sequence: MLCWGNASYG QLGLGGIDEE IVLEPRRSDF FVNKKVRDVG CGLRHTVFVL DDGTVYTCGC  
NDLQQLGHEK SRKKPEQVVA LDAQNIVAVA CGEAHTLALN DKGQVYAWGL DSDGQLGLQG  
SEECIRVPRN IKSLSDIQIV QVACGYHSL ALSKASEVFC WGQNKYGQLG LGIDCQKQTS  
PQLIKSLLGI PFMQVAAGGA HSFVLTLSGA IFGWGRNKFG QLGLNDENDR YVPNLLKSLR  
SQKIVYICCG EDHTAALTKE GGVFTFGAGG YGQLGHNSTS HEINPRKVFE LMGSIVTQVA  
CGRQHTSAFV PSSGRIYSFG LGGNGQLGTG STSNRKSPFT VKGNWFSYNG QCPQDIGSED  
YFCVKRIFSG GDQSFSHYSS PQNCGPPDDF RCSDPSKQIW TVNEALIQKW LSYPGRFPV  
EIANEIDGTF SSSGCLNGSF LAISNDDHYR TGTRFSGVDM NAARLLFHKL IQPDHPQISQ  
QVAASLEKNL IPKLTSSLPD VEALRFYLT PECLPLMSDCN NFTTIAIPFG TALVNLEKAP  
LKVLENWWSV LEPPLFLKIV ELFKEVVVHL LKLYKIGIPP SERRIFNSFL HTALKVLEIL  
HRVNEKTGQL IQYDKFYIHE VQELIDIRND YINWVQQQAY GVDVSHGVTE LADIPVTICT  
YPFVFDAQAK TTLQTDAVL QMQMAIDQAH RQNVSSLFLP VIESVNPCLI LVVRRENIVG

DAMEVLRKTK NIDYKKPLKV IFVGEDAVDA GGVKKEFFLL IMRELLDPKY GMFRYYEDSR  
LIWFSDKTFE DSDLFHLIGV ICGLAIYNFT IVDLHFPLAL YKKLLKRKPS LDDLKELMPA  
VGRSMQQLLD YPEDDIEETF CLNFTITVEN FGATEVKELV LNGADTAVNR QNRQEFVDAY  
VDYIFNKSVA SLFDAFHAGF HKVCGGKVLV LFQPNELQAM VIGNTNYDWK ELEKNTEYKG  
EYWADHPTIK IFWEVFHELP LEKKKQFLLF LTGSDRIPIL GMKSLKLVQ STGGGESYLP  
VSHTCFNLLD LPKYTEKETL RCKLIQAIDH 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 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.

## Product Details

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- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expsy'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®): <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)

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## Target Details

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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:0000269 PubMed:17967448}.
Molecular Weight:	118.4 kDa
UniProt:	<a href="#">Q6PAV2</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.
Comment:	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

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## Application Details

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Restrictions: For Research Use only

## Handling

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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)