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Datasheet for ABIN3092403  
**ERCC6L Protein (AA 1-1250) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	ERCC6L
Protein Characteristics:	AA 1-1250
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERCC6L protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MEASRRFPEA EALSPEQAAH YLRYVKEAKE ATKNGDLEEA FKLFLNAKDI FPNEKVLRSRI  
QKIQEALEEL AEQGDDEFTD VCNSGLLLYR ELHNQLFEHQ KEGIAFLYSL YRDGRKGGIL  
ADDMGLGKT V QIIAFLSGMF DASLVNHVLL IMPTNLINTW VKEFIKWTPG MRVKTFHGPS  
KDERTRNLR IQQRNGVIIT TYQMLINNWQ QLSSFRGQEF VWDYVILDEA HKIKTSSTKS  
AICARAIPAS NRLLLTGTPI QNNLQELWSL FDFACQGSLL GTLKTFKMEY ENPITRAREK  
DATPGEKALG FKISENLMAI IKPYFLRRTK EDVQKKKSSN PEARLNEKNP DVDAICEMPS  
LSRKNDLIW IRLVPLQEEI YRKVSLDHI KELLMETRSP LAELGVLKKL CDHPRLLSAR  
ACCLLNLTGTF SAQDGNEGED SPDVDHIDQV TDDTLMEESG KMIFLMDLLK RLRDEGHQTL  
VFSQRSQILN IIERLLKNRH FKTLRIDGT V THLLEREKRI NLFQQNKDYS VFLTTQVGG  
VGLTLTAATR VVIFDPSWNP ATDAQAVDRV YRIGQKENVV VYRLITCGTV EEKIYRRQVF  
KDSLIRQTTG EKKNPFRYFS KQELRELF TI EDLQNSVTQL QLQSLHAAQR KSDIKLDEHI  
AYLQSLGIAG ISDHDLMYTC DLSVKEELDV VEESHYIQR VQKAQFLVEF ESQNKEFLME

QQRTRNEGAW LREPVFSSST KKKCPKLNKP QPQPSPLLST HHTQEEDISS KMASVVIDDL  
PKEGEKQDLS SIKVNVTTLQ DGKGTGSADS IATLPKGFSG VEELCTNSSL GMEKSFATKN  
EAVQKETLQE GPKQEALQED PLESFNYVLS KSTKADIGPN LDQLKDDEIL RHCNPWPIIS  
ITNESQNAES NVSIIEIADD LSASHSALQD AQASEAKLEE EPSASSPQYA CDFNLFLEDS  
ADNRQNFSSQ SLEHVEKENS LCGSAPNSRA GFVHSKTCLS WEFSEKDDEP EEVVVKAKIR  
SKARRIVSDG EDEDDSFKDT SSINPFNTSL FQFSSVKQFD ASTPKNDISP PGRFFSSQIP  
SSVNKSMNSR RSLASRRSLI NMVLHDHVEDM EERLDDSSSEA KGPEDYPEEG VEESSEGEASK  
YTEEDPSGET LSSSENKSSWL MTSKPSALAQ ETSLGAPEPL SGEQLVGSPQ DKAEEATNDY  
ETLVKRGKEL KECGKIQEAL NCLVKALDIK SADPEVMLLT LSLYKQLNNN

**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!

## Product Details

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### 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®):

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)

## Target Details

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### Target:

ERCC6L

### Alternative Name:

ERCC6L ([ERCC6L Products](#))

### Background:

DNA excision repair protein ERCC-6-like (EC 3.6.4.12) (ATP-dependent helicase ERCC6-like) (PLK1-interacting checkpoint helicase) (Tumor antigen BJ-HCC-15),FUNCTION: DNA helicase that acts as a tension sensor that associates with catenated DNA which is stretched under tension until it is resolved during anaphase (PubMed:17218258, PubMed:23973328). Functions as ATP-dependent DNA translocase (PubMed:23973328, PubMed:28977671). Can promote Holliday junction branch migration (in vitro) (PubMed:23973328).  
{ECO:0000269|PubMed:17218258, ECO:0000269|PubMed:23973328, ECO:0000269|PubMed:28977671}.

### Molecular Weight:

141.1 kDa

### UniProt:

[Q2NKX8](#)

## Application Details

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### 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.

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!

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)