

Datasheet for ABIN3096399

ERCC4 Protein (AA 1-916) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ERCC4
Protein Characteristics:	AA 1-916
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERCC4 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MESGQPARRI AMAPLLEYER QLVLELLDTD GLVVCARGLG ADRLLYHFLQ LHCHPACLVL VLNTQPAEEE YFINQLKIEG VEHLPRRVTN EITSNSRYEV YTQGGVIFAT SRILVWDFLT DRIPSDLITG ILVYRAHRII ESCQEAFILR LFRQKNKRGF IKAFTDNAVA FDTGFCHVER VMRNLFVRKL YLWPRFHVAV NSFLEQHKPE VVEIHVSMTP TMLAIQTAIL DILNACLKEL KCHNPSLEVE DLSLENAIGK PFDKTIRHYL DPLWHQLGAK TKSLVQDLKI LRTLLQYLSQ YDCVTFNLNL ESLRATEKAF GQNSGWLFLD SSTSMFINAR ARVYHLPDAK MSKKEKISEK MEIKEGEETK KELVLESNPK WEALTEVLKE IEAENKESEA LGGPGQVLIC ASDDRTCSQL RDYITLGAEA FLLRLYRKTF EKDSKAEVW MKFRKEDSSK RIRKSHKRPK DPQNKERAST KERTLKKKKR KLTLTQMVGK PEELEEEGDV EEGYRREISS SPESCPEEIK HEEFDVNLS DAAFILKEP LTIHPLLGC SDPYALTRVL HEVEPRYVVL YDAELTFVRQ LEIYRASRPG KPLRVYFLIY GGSTEEQRYL TALRKEKEAF EKLIREKASM VVPEEREGRD ETNLDLVRGT ASADVSTDTR KAGGQEQNGT QQSIVVDMRE FRSELP SLIH RRGIDIEPVT LEVGDIYILTP
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EMCVERKSIS DLIGSLNNGR LYSQCISMSR YYKRPVLLIE FDPSKPFSLT SRGALFQEIS
SNDISSKLTL LTLHFPRLRI LWCPSPHATA ELFEELKQSK PQPDAATALA ITADSETLPE
SEKYNPGPQD FLLKMPGVNA KNCRSLMHHV KNIAELAALS QDELTSILGN AANAKQLYDF
IHTSFAEVVS KGKGKK

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.

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.

Product Details

- 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)
Grade:	Crystallography grade

Target Details

Target:	ERCC4
Alternative Name:	ERCC4 (ERCC4 Products)
Background:	DNA repair endonuclease XPF (EC 3.1.-.-) (DNA excision repair protein ERCC-4) (DNA repair protein complementing XP-F cells) (Xeroderma pigmentosum group F-complementing protein),FUNCTION: Catalytic component of a structure-specific DNA repair endonuclease responsible for the 5-prime incision during DNA repair, and which is essential for nucleotide excision repair (NER) and interstrand cross-link (ICL) repair. {ECO:0000269 PubMed:10413517, ECO:0000269 PubMed:11790111, ECO:0000269 PubMed:19596235, ECO:0000269 PubMed:24027083, ECO:0000269 PubMed:32034146, ECO:0000269 PubMed:8797827}.
Molecular Weight:	104.5 kDa
UniProt:	Q92889
Pathways:	DNA Damage Repair

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.
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Application Details

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 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!</p>
Restrictions:	For Research Use only

Handling

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)

Images



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