

Datasheet for ABIN3075640 XRCC2 Protein (AA 1-280) (Strep Tag)



Overview

Quantity:	1 mg
Target:	XRCC2
Protein Characteristics:	AA 1-280
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRCC2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	Alice®
Sequence:	MCSAFHRAES GTELLARLEG RSSLKEIEPN LFADEDSPVH GDILEFHGPE GTGKTEMLYH
	LTARCILPKS EGGLEVEVLF IDTDYHFDML RLVTILEHRL SQSSEEIIKY CLGRFFLVYC
	SSSTHLLLTL YSLESMFCSH PSLCLLILDS LSAFYWIDRV NGGESVNLQE STLRKCSQCL
	EKLVNDYRLV LFATTQTIMQ KASSSSEEPS HASRRLCDVD IDYRPYLCKA WQQLVKHRMF
	FSKQDDSQSS NQFSLVSRCL KSNSLKKHFF IIGESGVEFC
	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.

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- 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.
- 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:	XRCC2
Alternative Name:	XRCC2 (XRCC2 Products)

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Target Details

DNA repair protein XRCC2 (X-ray repair cross-complementing protein 2),FUNCTION: Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD51 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA
repair chromosomal fragmentation, translocations and deletions. Part of the RAD51 paralog
damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment.
BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction
and to junction of replication forks. The BCDX2 complex was originally reported to bind single-
stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.
{ECO:0000269 PubMed:11751635, ECO:0000269 PubMed:11834724,
ECO:0000269 PubMed:21276791, ECO:0000269 PubMed:23149936,
ECO:0000269 PubMed:27233470}.
32.0 kDa
043543
DNA Damage Repair
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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For Research Use only
Liquid

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Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months