

Datasheet for ABIN7556124
ZRANB3 Protein (AA 1-1079) (His tag)



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Overview

Quantity:	1 mg
Target:	ZRANB3
Protein Characteristics:	AA 1-1079
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZRANB3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZRANB3 Protein expressed in mammalian cells.
Sequence:	<p>MPRVHNIKKS LTPHISCVTN ESDNLLDFLP DRLRAKLLPF QKDGIIIFALK RNGRCMVADE MGLGKTIQAI GITYFYKEEW PLLIVVPSSL RYPWTEEIEK WIPELSPEEI NVIQNKTDVR RMSTSKVTVL GYGLLTADAK TLIDALNNQN FKVVIVDESH YMKS RNATRS RILLPIVQKA RRAILLTGTP ALGRPEELFM QIEALFPQKF GRWTDYAKRY CNAHIRYFGK RPQWDCRGAS NLNELHQLLS DIMIRRLKTE VLTQLPPKVR QRIPFDLPSA AAKELNTSFE EWEKIMRTPN SGAMETVMGL ITRMFKQTAI AKAGAVKDYI KMMLQNDSLK FLVFAHHLSM LQACTEAVIE NKTRYIRIDG SVSSSERIHL VNQFQKDPDT RVALSIQAA GQGLTFTAAS HVVFAELYWD PGHIKQAEDR AHRIGQCSSV NIHYLIANGT LDTLMWGMLN RKAQVTGSTL NGRKEKIQAE EGDKEKWDFL QFAEAWTPND SSEELRKEAL FTHFEKEKQH DIRSFFVPQP KKRQLMTSCD ESKRFREENT VVSSDPTKTA ARDIIDYESD VEPETKRLKL AASEDHCSPS EETPSQSKQI RTPLVESVQE AKAQLTTPAF PVEGWQCCLC TYINNSELPY CEMCETPQGS AVMQIDSLNH IQDKNEKDDS QKDTSKKVQT ISDCEKQALA QSEPGQLADS KEETPKIEKE DGLTSQPGNE</p>

Product Details

QWKSSDTLPV YDTLMFCASR NTDRHIHYTK DGKQMSCNFI PLDIKLDLWE DLPASFQLKQ
YRSLILRFVR EWSSLTAMKQ RIIKSGQLF CSPILALEEI TKQQTQNCT KRYITKEDVA
VASMDKVKNV GGHVRLITKE SRPRDPFTKK LLEDGACVPF LNPYTVQADL TVKPSTSKGY
LQAVDNEGNP LCLRCQQPTC QTKQACKANS WDSRFCSLKC QEEFWIRSNN SYLRAKVFET
EHGVCQLCNV NAQELFLRLR DAPKSQRKNL LYATWTSKLP LEQLNEMIRN PGEHFWQVD
HIKPVYGGGG QCSLDNLQTL CTVCHKERTA RQAKERSQVR RQSLASHGGS DITRFLVKK

Sequence without tag. The proposed Purification-Tag is based on experiences 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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: ZRANB3

Alternative Name: ZRANB3 ([ZRANB3 Products](#))

Background: DNA annealing helicase and endonuclease ZRANB3 (Annealing helicase 2) (AH2) (Zinc finger Ran-binding domain-containing protein 3) [Includes: DNA annealing helicase ZRANB3 (EC

Target Details

3.6.4.-), Endonuclease ZRANB3 (EC 3.1.-.-)],FUNCTION: DNA annealing helicase and endonuclease required to maintain genome stability at stalled or collapsed replication forks by facilitating fork restart and limiting inappropriate recombination that could occur during template switching events (PubMed:21078962, PubMed:22704558, PubMed:22705370, PubMed:22759634, PubMed:26884333). Recruited to the sites of stalled DNA replication by polyubiquitinated PCNA and acts as a structure-specific endonuclease that cleaves the replication fork D-loop intermediate, generating an accessible 3'-OH group in the template of the leading strand, which is amenable to extension by DNA polymerase (PubMed:22759634). In addition to endonuclease activity, also catalyzes the fork regression via annealing helicase activity in order to prevent disintegration of the replication fork and the formation of double-strand breaks (PubMed:22705370, PubMed:22704558). {ECO:0000269|PubMed:21078962, ECO:0000269|PubMed:22704558, ECO:0000269|PubMed:22705370, ECO:0000269|PubMed:22759634, ECO:0000269|PubMed:26884333}.

Molecular Weight: 123.2 kDa

UniProt: [Q5FWF4](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months