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## Datasheet for ABIN3093181 IQSEC2 Protein (AA 1-1478) (His tag)

### Overview

Quantity:	1 mg
Target:	IQSEC2
Protein Characteristics:	AA 1-1478
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IQSEC2 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

### Product Details

Sequence:	<p>MEAGSGPPGG PGSESPNRAV EYLLELNNII ESQQQLLETQ RRRIEELEGQ LDQLTQENRD</p> <p>LREESQLHRG ELHRDPHGAR DSPGRESQYQ NLRETQFHHR ELRESQFHQA ARDVGYPNRE</p> <p>GAYQNREAVY RDKERDASYP LQDTTGYTAR ERDVAQCHLH HENPALGRER GGREAGPAHP</p> <p>GREKEAGYSA AVGVGPRPPR ERGQLSRGAS RSSSPGAGGG HSTSTSTSPA TTLQRNVEGD</p> <p>APGSDLSTAV DSPGSQPPYR LSQLPPSSSH MGGPPAGVGL PWAQRARLQP ASVALRKQEE</p> <p>EElKRSKALS DSYELSTD LQ DKKVEMLERK YGGSFLSRRA ARTIQTAFRQ YRMNKNFERL</p> <p>RSSASESRMS RRIILSNMRM QFSFEEYEKA QNPAYFEGKP ASLDEGAMAG ARSHRLERGL</p> <p>PYGGSCGGGI DGGGSSVTTS GEFSNDITEL EDSFSKQVKS LAESIDEALN CHPSGPMSEE</p> <p>PGSAQLEKRE SKEQQEDSSA TSFSDLPLYL DDTVPQQSPE RLPSTEPPPPQ GRPEFWAPAP</p> <p>LPPVPPPVPS GTREDGSREE GTRRGPGCLE CRDFRLRAAH LPLLIEPPS DSSVDLSDRS</p> <p>DRGSVHRQLV YEADGCSPHG TLKHKGPPGR APIPHRHYP APEGPAPAPP GPLPPAPNSGT</p> <p>GPSGVAGGRR LGKCEAAGEN SDGGDNESLE SSSNSNETIN CSSGSSSRDS LREPPATGLC</p>
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KQTYQRETRH SWDSPAFNND VVQRRHYRIG LNLFNKKPEK GIQYLIERGF LSDTPVGVAH  
FILERKGLSR QMIGEFLGNR QKQFNRDVLD CVVDEMDFSS MDLDDALRKF QSHIRVQGEA  
QKVERLIEAF SQRYCVCNPA LVRQFRNPDT IFILAFAIL LNTDMYSPSV KAERKMKLDD  
FIKNLRGVDN GEDIPRDLLV GIYQRIQGRE LRTNDDHVSQ VQAVERMIVG KKPVLSLPHR  
RLVCCCQLYE VPDPNRPQRL GLHQREVFLF NDLLVVTIKF QKKKILVTYS FRQSFPLVEM  
HMQLFQNSYY QFGIKLLSAV PGGERKVLII FNAPSLQDRL RFTSDLRESI AEVQEMEKYR  
VESELEKQKG MMRPNASQPG GAKDSVNGTM ARSSLEDTYG AGDGLKRGAL SSSLRDLSDA  
GKRGRNSVG SLDSTIEGSV ISSPRPHQRM PVPVPVPVPPE EYKSQRVPSN SSSFLGSLFG  
SKRGKGPFGM PPPPTGQASA SSSSASSTHH HHHHHHHHGHG HGGLGVLPDG QSKLQALHAQ  
YCQGGPGAPP PYLPPQQPSL PPPPQQPPPL PQLGSIPPPP ASAPPVGPGR HFHAHGPVPG  
PQHYTLGRPG RAPRRGAGGH PQFAPHGRHP LHQPTSPLPL YSPAPQHPPA HKQGPKHFIF  
SHHPQMMPAA GAAGGPGSRP PGGSYSHPHH PQSPLSPHSP IPPHPSYPPL PPPSPHTPHS  
PLPPTSPHGP LHASGPPGTA NPPSANPKAK PSRISTVV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human IQSEC2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use

## Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

Target: IQSEC2

Alternative Name: IQSEC2 ([IQSEC2 Products](#))

Molecular Weight: 162.7 kDa Including tag.

UniProt: [Q5JU85](#)

## 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.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

Format: Liquid

## Handling

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Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)