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Datasheet for ABIN3135088

**PEG3 Protein (AA 1-1571) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	PEG3
Protein Characteristics:	AA 1-1571
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEG3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MYHHEDDTNS DMNSDDDDMSR SGRETPPPRP SHAFGSERDL ERRGRSRDVE PRDRWPYTRN PRSRLPQRDL SLPVMSRPHF GLDRDDDDRRS MDYESRSQDA ESYQNVVELK EDKKPQNPIQ DNLENYRKLL SLGVQLAEDD RSHMTQGHs SRSKRTAYPS TSRGLKPMPE AKKPSHRRGI CEDESSHGVI MEKFIKDVAR NPKSGRAREL NERPPPRFPR PNDNWKDSSS SRRESVIQER GYEGSAFRGG FRFNADLASR SRALERKRRY HFDSDERGSG HEHKSCVRKK PFECGAEMRQ AMSMGNLNSP SFSESQSIDF GANPYVCDEC GRQFSVISEF VEHQIMHTRE NLYEYGESFI HSVAVNEVQK GQGGGKRFEC KECGETFSRS AALAEHRQIH AREYLAECDR QEDEETIMPS PTFSELQKMY GKDKFYECKV CKETFLHSSA LIEHQKIHDR GNSDDRDNER ERERDRLRAR AREQRERERE RERERELGEP FLTCPNFNEF RKMYRKDIY ECKVCGESFL HLSSLREHQK IHTRGNPFEN KSRMCEETFV PSQSLRRRQK TYREKLFDEN NARDALMGNS DSSEHQKNRS RRNFFEGRGF EKPfVESQKS HTITRPPENK DDDKPFTISV NPNDKLFPI MENGSQGKSY ERSVIHSLGS AEAQKSHGGL GFSKPRPVAE SSTQSSSSY YPRAHSGGNT YEGKEYKDSI
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IHSLPAPRPL KRHRANDHIQ CDEGGESSIY IPDIINKGRK IPAREDAYEG SSSSNYHTPN  
VSRAEPPSLG GESHDSKQDV TFSVPSSSVR EHQAARAKKK YIEPRNNETS VIHSLPFGEL  
LAGHRRAKFF ECQECGEAFA RRSELIEHQK IHDRERPSGS RHYERSVIRS LAPSDPQTSY  
AQERFIQEQV RKFRAFGQRS TTSNNLSVQK IYAQETFNAE EPHDKETHGQ KIHDKEPYGK  
EPGKKEPHGD EPQDKEPLDQ EMRSEEPHDD KPHGQEPHDD KPHGQEPHDD KPHGQEPHGD  
EPHGQEPHGD EPHDKKEPIDQ EMRSEEPHSE ESHGDEPHGE ESHGQEKVED ATIQASVSEE  
HQKDDAGDAI YECQDCGLGF TDLNDLTSHQ DTHSRKALVD SREYAHSEVH AHSVSEFEKK  
CSGEKLYECP KCGESFIHSS LLFEHQRVHE QDQLYSVKAC DDAFIALLPV RPRRNCTVER  
NPAVSGSAIR CRQCGQGFIH SSALNEHMRQ HRDNEIMEQS ELSDEIFIQG LALTEYQGSE  
TEEKLFECTI CGECFFTAKQ LGDHHTKVHK DEPYEYGPSY THASFLTEPL RKHIPLYECK  
DCGQSFLDDT VIAERMVFHP EREGGSEIVA ATAEVEANV LIPQEVLRQ GSNAEAAEPE  
VEAAEPEVEA AEPEVEAAEP NGEAEGPDGE AAEPDGEAEQ PNGEAEQPNG DADEPDGAGI  
EDPEERADEP EEDVEEPEGD ADEPDGADIE DPEEEGEDQE IEVEEPYYNC HECAETFASS  
SAFGEHLKSH ASVIIFEPAN APGECSGYIE RASTSAGGAE QADDKYFKCD VCGQLFNDRL  
SLARHQNSHT G

**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-

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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.
- 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:	PEG3
Alternative Name:	Peg3 ( <a href="#">PEG3 Products</a> )
Background:	Paternally-expressed gene 3 protein (ASF-1),FUNCTION: Induces apoptosis in cooperation with SIAH1A. Acts as a mediator between p53/TP53 and BAX in a neuronal death pathway that is activated by DNA damage. Acts synergistically with TRAF2 and inhibits TNF induced apoptosis through activation of NF-kappa-B. Plays a role in regulating maternal behavior and offspring growth. {ECO:0000269 PubMed:10195900, ECO:0000269 PubMed:10681424, ECO:0000269 PubMed:11943780, ECO:0000269 PubMed:9500555}.

## Target Details

Molecular Weight: 178.9 kDa

UniProt: [Q3URU2](#)

## 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: 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

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)