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# PIGO Protein (AA 1-1093) (Strep Tag)



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#### Overview

Quantity:	1 mg
Target:	PIGO
Protein Characteristics:	AA 1-1093
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIGO protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

MRKVSVLLFL AWVCFLFYAG IALFTSGFLL TRLELTNQSS CQELPGPGPL PWGSHGKPGA
CWMPSRFSRV VLVLIDALRF DFAQPQRSHV PGEPPVSVPF LGKLGSLQRI LESQPHHGRL
YRSQVDPPTT TMQRLKALTT GSLPTFIDAG SNFASHAIVE DNVIQQLNSA GRRVVFMGDD
TWRDLFPGAF SQAFFFSSFN VRDLHTVDNG ILEHLYPTLD GGSWDVLIAH FLGVDHCGHK
HGPHHPEMAK KLSQMDQVIQ GLIERLENDT LLVVAGDHGM TMNGDHGGDS ELEVSAALFL
YSPTALFPSV PPEEPEVIPQ VSLVPTLALL LGLPIPFGNT GEVMAELFSG GSDSSHPHSS
ALAQVSALHI NAQQVSRFLH TYSAATQDLQ VKELHRLQTL FSKASARYQH FLRDPQEAEA
ALSTLTAEFQ QFLRGARALC IESWARFSLV RMAGGAALLA AACLLCLLAS QLAVAPGFLF
RPLLLIPVAW GLTWTILYAG VSVTTGSKID LVVLGAVAAA GSLLPFLWKA WVSRGSKRPL
APLLPVPRPV LILLLIRLAT FFSDSFFVVE ARATPFLLGS LVFFLVAQLH WEGQLLPPKP
LTMSRLGSSA PTAPPRHSGA HALWLGIGLL LFTRLAGLFH RCPEETPACR SSPWLSPLAS
MVGGRAKNLW YGACVGALVA LLVVVRLWLR RYGNLKSPEP PVLFVRWGMP LMVLGTAAYW

ALASGAEEAP PRLRALVAGA SAVLPRAVMG LAALGLVLLL WRPVTVLVKA GAATSRTRTI LTPFSGPPTS QADLDYVVPQ IYRHMQEEFQ GRLERTKAQG PITVAAYQLG SVYSAAMVTA LLLLAFPLML LHVERVSLVF LLLFLQSFLL LHLLAAGTPV ATPGPFTVLW QAVSAWVLLA TQTFYSTGHQ PVFSAIHWHA AFVGFPDGHG SSTWLPALLV GANTFASHLL FAVGCPLLLL WPFLCERQGP KRRQPLPGSE SEARVRPEEE EELQEPLMEV RLRDAPNHFN AALLQLGLKY LFILGAQILA CALAASILRR HLMVWKVFAP KFIFEAVGFI VSSVGLLLGI ALVMRVDVAV SSWFKKLVLA OOR

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 posttranslational 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) **Target Details** Target: PIGO Alternative Name: Pigo (PIGO Products) Background: GPI ethanolamine phosphate transferase 3 (EC 2.-.-.) (Phosphatidylinositol-glycan biosynthesis class O protein) (PIG-O), FUNCTION: Ethanolamine phosphate transferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers ethanolamine phosphate to the GPI third mannose which links the GPI-anchor to the C-terminus of the proteins by an amide bond. {ECO:0000269|PubMed:10781593}. Molecular Weight: 119.2 kDa UniProt: **Q9JJI6** Pathways: Inositol Metabolic Process, SARS-CoV-2 Protein Interactome **Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** 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

### **Application Details**

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)