

Datasheet for ABIN3136953

## PEX6 Protein (AA 1-981) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PEX6
Protein Characteristics:	AA 1-981
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PEX6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MALAVLRVLD PFPTETPLA VLLPPGGPWP ATGLGLVLAL RPASESPAKP ALLVAAVEGS</p> <p>GAQGEQRGPG PPPLLVSRA LRVLALGPGA RVRARLVRRP PALGWALLAT APGPGLGPRV</p> <p>GPLLVRGET LPVPGSRVLE TRPALQGLL PGTRLAVTEL RGRAKLGQES RDHSHPPPPP</p> <p>VVSSFAASHS VRRLRGVLGG TGDALGVSRS CLRSLGLFQG EWWVVAQVAE LPNSSQPRLA</p> <p>QVQVLEPRWE LSERLGPNSG QQPGEPLADG LVFLPATLAF NLGCDPLEVG ELRIQRYLEG</p> <p>SIAPENKGSC SPLPGPPFAR ELHIEILSSP HYSANGNYDH VLYRHFQTPR VVQEGDVLCV</p> <p>STAGQVEILE GSLERLPRWR EMFFKVKKTV GEAPEGPASA FLADTTHTSL YLAGTALSHV</p> <p>PSLPSGRSPP WDSLSPGGLE ALVNELCAIL KPHLQPGGTL LTGTSCVLLQ GPPGSGKTTA</p> <p>VTAACSRGL LLLKVPCCSL CADSSRAVET KLQATFSRAR RCRPAVLLLT AVDLLGRDRD</p> <p>GLGEDARVAA TLRHLLDED ALSRCPLMV VATTSRVQDL PTDVQTAFPH ELEVPLSEA</p> <p>QRLSILQALT AHLPLGQEVN LPQLARRCAG FVVGDL YALL THTCRAACTR IRASGSAGGL</p>

SEDEGDLVCV AGFPLLAEDF GQALDQLQTA HSQAVGAPRI PSVSWHDVGG LQDVKKEILE  
TIQLPLEHPE LLSLGLRRSG LLLHGPPGTG KTLLAKAVAT ECSLTFLSVK GPELINMYVG  
QSEENVREVF ARARAAAPCI IFFDELDSL A PSRGRSGDSG GVMDRVVSQL LAELDGLHST  
QDVFVIGATN RPDLLDPALL RPGRFDKLVF VGASEDRASQ LRVLSAITRK FKLEASVSLA  
NVLDCCPPQL TGADLYSLCS DAMMTALKRR VRDLEEGLEL RSSALLLTME DLLQAAARLQ  
PSVSEQELLR YKRIQRKFAA C

**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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- 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.

## Product Details

- 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: PEX6

Alternative Name: Pex6 ([PEX6 Products](#))

Background: Peroxisomal ATPase PEX6 (EC 3.6.4.-) (Peroxin-6) (Peroxisomal biogenesis factor 6),FUNCTION: Component of the PEX1-PEX6 AAA ATPase complex, a protein dislocase complex that mediates the ATP-dependent extraction of the PEX5 receptor from peroxisomal membranes, an essential step for PEX5 recycling. Specifically recognizes PEX5 monoubiquitinated at 'Cys-11', and pulls it out of the peroxisome lumen through the PEX2-PEX10-PEX12 retrotranslocation channel. Extraction by the PEX1-PEX6 AAA ATPase complex is accompanied by unfolding of the TPR repeats and release of bound cargo from PEX5. {ECO:0000250|UniProtKB:Q13608}.

Molecular Weight: 104.5 kDa

UniProt: [Q99LC9](#)

## 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.

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## Application Details

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Restrictions: For Research Use only

## Handling

Format: Liquid

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