

Datasheet for ABIN3136450

## PARG1 Protein (AA 1-1266) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PARG1 (ARHGAP29)
Protein Characteristics:	AA 1-1266
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARG1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MIAHKQKKAK KKRWWASGQP SAAITSEMGLKSVSSSSSF DPEYIKELVN DVRKFHMLL</p> <p>YLKEAILSDC FKEVIHRLD ELLRVLSIL SKHQNLSSVD LQSAAEVLTA KVKAVNFTEV</p> <p>NEENKNDIFR EVFSSITLA FTFGNILTNF LMGDVGSDSI LRLPISRESK SFENISVDSV</p> <p>DLPHEKGNFS PIELDNLLK NTDSIELALS YAKTWSKYTK NIVSWVEKKL NLELESTRNI</p> <p>VKLAEATRSS IGIQEFMPLQ SLFTNALLSD IHSSHLLQQT IAALQANKFV QPLLGRKNEM</p> <p>EKQRKEIKDL WKQQQNKLE TETALKKAKL LCMQRQDEYE KAKSSMFRAE EEQLSSSVGL</p> <p>AKNLNKQLEK RRRLEEEALQ KVEEANEHYK VCVTNVEERR NDLENTKREI LTQLRTL VFQ</p> <p>CDLTLKAVTV NLFHMQQLQA ASLANSLQSL CDSAKLYDPG QEYSEFVKAT SSSELEEKVD</p> <p>GNVKNQMTNS PQTSGYEPAD SLEDVARLPD SCHKLEEDRC SNSADMTGPS FVRSWKFGMF</p> <p>SDSESTGGSS ESRSLDESI SPGDFHRKLP RTPSSGTMS ADDLDEREPP SPSEAGPNLS</p> <p>GAFKKTLMK AALTHKFRKL RSPTKCRDCD GIVMFPGVEC EECLLVCHRK CLENLVIICG</p>

HQKLQGKMHI FGAEFIQVAK KEPDGIPFVL KICASEIENR ALCLQGIYRV CGNLIKTEKL  
CQALENGMHL VDISEFSSHD ICDVLKLYLR QLPEPFILFR LYKEFIDLAK EIQHVNEEQE  
AKKDSPEDKK HPHVSIEVNR ILLKSKDLLR QLPASHFNSL HYLIAHLRRV VDHAENKMN  
SKNLGVIFGP TLIRPRPTTA PVTISSLAAY SNQARLVEFL ITYSQKIFDG SLQPQAVVIS  
NTGAVAPQVD QGYLPKPLLS PDERDTDHSM KPLFFSSKED IRSSDCESKS FELTTSFEES  
ERRQNALGKC DAPLLDNKVH LLFDQEHESA SQKMEDVCKS PKLLLLKSNR AANSVQRHTP  
RTKMRPVSLP VDRLLLLASS PTERSSRDVG NVDSKDFGKN PAFEGLHRKD NSNTRSKVN  
GFDQQNVQKS WDTQYVRNNF TAKTTMIVPS AYPEKGLTVN TGNNRDHPGS KAHAEPARAA  
GDVSERRSSD SCPATAVRAP RTLQPQHWTT FYKPPNPTFS VRGTEEKAL PSIAVPPVLV  
HAPQIHVTKS DPDSEATLAC PVQTSGQPKE SSEEPALPEG TPTCQRPRLK RMQQFEDLED  
EIPQFV

**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 -

## Product Details

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.
- 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®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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## Target Details

Target:	PARG1 (ARHGAP29)
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Alternative Name:	Arhgap29 ( <a href="#">ARHGAP29 Products</a> )
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Background:	Rho GTPase-activating protein 29 (Rho-type GTPase-activating protein 29),FUNCTION: GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state. Has strong activity toward RHOA, and weaker activity toward RAC1 and CDC42. May act as a specific effector of RAP2A to regulate Rho (By similarity). In concert with RASIP1, suppresses RhoA signaling and dampens ROCK and MYH9 activities in endothelial cells and plays an essential role in blood vessel tubulogenesis. {ECO:0000250, ECO:0000269 PubMed:21396893}.
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Molecular Weight:	142.3 kDa
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UniProt:	<a href="#">Q8CGF1</a>
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## 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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Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.
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Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months