

Datasheet for ABIN3135248
GPRASP1 Protein (AA 1-1347) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	GPRASP1
Protein Characteristics:	AA 1-1347
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPRASP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MTRAEVEPGA QAKAENKPGD ENANAAEVEP EAPLVVRPKV RTQIMTGARP KVKPKGTPGA RPGKETSTPG GAYAKCKPKA IPIARSKHDA QVWAPNKFRG ESMSKMGKQC QISAADPPLL SNDSGMVAQA KCLPVDRELA NMDTESIPKK ANSPAGFQPS YGSEEGTNMG SWYRARPVPK GEAYENSDFK WADKPSGSPS FWNRDEASTR FRPRKSMKAN NRFRHMAKQE ANTMPRHKNK QEFYNISSSD SEDESGKTPW FWPDKDKVW SKPKEEPNSR SWFRSKKEVR VESTSGSECE NPTKSLFWSG EEAKSRSKPR ARKGVNMRAR QQAKREACSD AMSGAIDTNK KESWFLPEEK ANVFSKSKTK KEPRTRAVPK EEVKT KARAS TKQEARPEEE VLVGAWFWDT QESTMADRIS IKTTFVEEEP IVGDWFWSEE EASVDSETH TSRPRAKEEQ VSSFCLGSGK KSSMESGPKA TSKSMPVAKE DEVVIGSWFW ADDEEINLQA DDESIFGSWF WGTGENSLRS VGVNCEKMPK AGEKEVTD SW FWAGDVNTEA EVEEQARSAS TKATIFVPWF WSEKQPNMDL GSEPCSDIMA GAE EEP IIGP WFWAKVDNSV EAEVNSKSSL EDEEEPIRSP WFGAREQTDM KYAAGIRYKP

MAEAEDANKK SCVWAKEPCL YPTNRECLKS TLGEKEDTVD PWLWSNNYPR TKTITGSWLW
AAEEGNIDDE TGEKIKLPTL EDNAFNSWFW KENEEESIVEA PKREEFRPEA EEEDIIGSWF
WAGDEDRFEP AAKINEENKI ASEDEDTVGS WFWGNEEASL EAVRRGTFES APGIKEEKVT
GSWFWTDKAK VGAGSQTVET GSETEEEAIF ESLIWAAKGD SIQAGVKRVS KPKDDGNIAV
GSWLWSSDKA TKEAKTLIVS EASPENGKES VVKFGSRAKD EVINKTGSGD NCKHSTEAE
IVGAWFWECD EASFESNPVP VCKAVCEPES SAEHEPDPSR RPQSWDEVTV QFKAGPWGKA
GFPPMNPFRF PKEAASLFAE MFGGKPKLVE VGPEREPEPQ PPFQYDPSYR SVREIREHLK
ARESAQPENW SCNCIQCELR IGSEEFEEELL LLMDRNRDPF IHEISKIAMG MRGASQFTRD
FIRNSGVVSL IEALLNYPSS RVRTRFLENM VRMAPPYDL NMIETYVCQI CEDTFDYDLD
SPDQLSGLTM ITHLTATSDY HKVVVNYLAG FFYLLNSGNT KTRFHVLKLL LNLSENLMVT
KRLLVTDSVS EFMDLINREE SDENIQIVLA IFETISKHIQ KEALFSDDDD DDEEEDAVNL
EPFISAFREA EKIAKELKRK PGNQKAP

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 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

Product Details

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.
- 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:	GPRASP1
Alternative Name:	Gprasp1 (GPRASP1 Products)
Background:	G-protein coupled receptor-associated sorting protein 1 (GASP-1),FUNCTION: Modulates lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors. Targets receptors for degradation in lysosomes via its interaction with BECN2. {ECO:0000269 PubMed:23954414}.
Molecular Weight:	151.7 kDa
UniProt:	Q5U4C1

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 <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. During lysate production, the cell wall and other cellular components that are not required for

Application Details

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 **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