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Datasheet for ABIN3080727 GGA2 Protein (AA 1-613) (Strep Tag)





Overview

Quantity:	1 mg
Target:	GGA2
Protein Characteristics:	AA 1-613
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GGA2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	VKDFPDLAVL GAA
	SMRVKLQPAS SSKLPAFSPL MPPAVISQML LLDNPHKEPI RLRYKLTFNQ GGQPFSEVGE
	VKPSSLPPLI VYDRNGFRIL LHFSQTGAPG HPEVQVLLLT MMSTAPQPVW DIMFQVAVPK
	LLSAQPAPCP LNYVSQKSVP KEVPPGTKSS PGWSWEAGPL APSPSSQNTP LAQVFVPLES
	MGTVVPSLLH QDLAALGISD APVTGMVSGQ NCCEEKRNPS SSTLPGGGVQ NPSADRNLLD
	DLLTQGVLLY KQVMEGRVTF GNRVTSSLGD IPVSRVFQNP AGCMKTCPLI DLEVDNGPAQ
	HVKVLQEMLS MYRRPGQAPP DQEALQVVYE RCEKLRPTLF RLASDTTDDD DALAEILQAN
	KSSIFDADEE KSKLLTRLLK SNHPEDLQAA NRLIKNLVKE EQEKSEKVSK RVSAVEEVRS
	SWATGKVKGR VIEILFSWTV WFPEDIKIRD AYQMLKKQGI IKQDPKLPVD KILPPPSPWP
	THAPWLLAHK IQSPQEKEAL YALTVLEMCM NHCGEKFHSE VAKFRFLNEL IKVLSPKYLG
Sequence:	MAATAVAAAV AGTESAQGPP GPAASLELWL NKATDPSMSE QDWSAIQNFC EQVNTDPNGP
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	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-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

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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)</td>Grade:Crystallography grade

Target Details

Target:	GGA2
Alternative Name:	GGA2 (GGA2 Products)
Background:	ADP-ribosylation factor-binding protein GGA2 (Gamma-adaptin-related protein 2) (Golgi-
	localized, gamma ear-containing, ARF-binding protein 2) (VHS domain and ear domain of
	gamma-adaptin) (Vear),FUNCTION: Plays a role in protein sorting and trafficking between the
	trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of
	clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a
	cytosolic acidic cluster-dileucine (DXXLL) motif (PubMed:10747088). Mediates export of the
	GPCR receptor ADRA2B to the cell surface (PubMed:27901063). Regulates retrograde transpor
	of phosphorylated form of BACE1 from endosomes to the trans-Golgi network
	(PubMed:15615712). {ECO:0000269 PubMed:10747088, ECO:0000269 PubMed:15615712,
	ECO:0000269 PubMed:27901063}.
Molecular Weight:	67.2 kDa
UniProt:	Q9UJY4
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.

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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. 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)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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