Datasheet for ABIN3092184

DLGAP4 Protein (AA 1-992) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DLGAP4
Protein Characteristics:	AA 1-992
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLGAP4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKGLGDSRPR HLSDSLDPPH EPLFAGTDRN PYLLSPTEAF AREARFPGQN TLPGDGLFPL NNQLPPPSST FPRIHYNSHF EVPEESPFPS HAQATKINRL PANLLDQFEK QLPIHRDGFS TLQFPRGEAK ARGESPGRIR HLVHSVQRLF FTKAPSLEGT AGKVGGNGSK KGGMEDGKGR RAKSKERAKA GEPKRRSRSN ISGWWSSDDN LDGEAGAFRS SGPASGLMTL GRQAERSQPR YFMHAYNTIS GHMLKTTKNN TTELTAPPPP PAPPATCPSL GVGTDTNYVK RGSWSTLTLS HAHEVCQKTS ATLDKSLLKS KSCHQGLAYH YLQVPGGGGE WSTTLLSPRE TDAAAEGPIP CRRMRSGSYI KAMGDEDSDE SGGSPKPSPK TAARRQSYLR ATQQSLGEQS NPRRSLDRLD SVDMLLPSKC PSWEEDYTPV SDSLNDSSCI SQIFGQASLI PQLFGHEQQV REAELSDQYE AACESACSEA ESTAAETLDL PLPSYFRSRS HSYLRAIQAG CSQEEDSVSL QSLSPPPSTG SLSNSRTLPS SSCLVAYKKT PPPVPPRTTS KPFISVTVQS STESAQDTYL DSQDHKSEVT SQSGLSNSSD SLDSSTRPPS VTRGGVAPAP EAPEPPPKHA ALKSEQGTLT SSESHPEAAP

KRKLSSIGIQ VDCIQPVPKE EPSPATKFQS IGVQVEDDWR SSVPSHSMSS RRDTDSDTQD ANDSSCKSSE RSLPDCTPHP NSISIDAGPR QAPKIAQIKR NLSYGDNSDP ALEASSLPPP DPWLETSSSS PAEPAQPGAC RRDGYWFLKL LQAETERLEG WCCQMDKETK ENNLSEEVLG KVLSAVGSAQ LLMSQKFQQF RGLCEQNLNP DANPRPTAQD LAGFWDLLQL SIEDISMKFD ELYHLKANSW QLVETPEKRK EEKKPPPPVP KKPAKSKPAV SRDKASDASD KQRQEARKRL LAAKRAASVR QNSATESADS IEIYVPEAQT RL

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 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:	DLGAP4
Alternative Name:	DLGAP4 (DLGAP4 Products)
Background:	Disks large-associated protein 4 (DAP-4) (PSD-95/SAP90-binding protein 4) (SAP90/PSD-95-associated protein 4) (SAPAP-4),FUNCTION: May play a role in the molecular organization of synapses and neuronal cell signaling. Could be an adapter protein linking ion channel to the subsynaptic cytoskeleton. May induce enrichment of PSD-95/SAP90 at the plasma membrane.
Molecular Weight:	108.0 kDa
UniProt:	Q9Y2H0

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. 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!

Application Details

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