

Datasheet for ABIN3136913 DACH2 Protein (AA 1-634) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DACH2
Protein Characteristics:	AA 1-634
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DACH2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAVSAPPVIS ATSSSAGVPG GLFRAEPLYS SPGEPPRLTP NMINSFMANN HNGSVLGGGI
	GGGSGGSSNT NTNECRMVDM HGVKVASFLM DGQELICLPQ VFDLFLKHLV GGLHTVYTKL
	KRLDISPVVC TVEQVRILRG LGAIQPGVNR CKLITRKDFE TLFTDCTNAR RKRQMTRKQA
	VNSSRPGRPP KRSLGVLQDN ARLLPHAVPG LLSPGLITPT GITAAAMAEA MKLQKMKLMA
	MNTLQGNGSQ NGTESEPDDL NSTTGGSESS WDKDKIQSPL AASGPQHGIA HAALAGQPGL
	GGAPTLNPLQ QNHLLSNRLD LPFMMMPHPL LPVSLPPASV AMAMNQMNHL NTIANMAAAA
	QIHSPLSRAG ASVIKERIPE SPSPAPSLEE SHRPGSQTSS HPSSSVSSSP SQMDHHSERM
	VMMPNNREEL IVDQDNGQSI KKFQRDNKEE VPAQIPVMKS PLDKIQLAPG QALHPGFPGP
	FIFADSLSSV ETLLTNIQGL LKVALDNARI QEKQIQQEKK ELRIELFRER EIRENLERQL
	AVELQSRSTM QKRLKKEKKA KRKLQEALEF ESKRREQVEQ ALKQATSGDS GLRMLKDSGI
	PDIEIENSGT PHDSAAMQGG NYYCLAMAQQ LCSA

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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 posttranslational 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.
- 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).

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Product Details

Grade:

custom-made

Target Details

Target:	DACH2
Alternative Name:	Dach2 (DACH2 Products)
Background:	Dachshund homolog 2 (Dach2),FUNCTION: Transcription factor that is involved in regulation of
	organogenesis. Seems to be a regulator for SIX1 and SIX6. Seems to act as a corepressor of
	SIX6 in regulating proliferation by directly repressing cyclin-dependent kinase inhibitors,
	including the p27Kip1 promoter. Is recruited with SIX6 to the p27Kip1 promoter in embryonal
	retina. SIX6 corepression seems also to involve NCOR1, TBL1, HDAC1 and HDAC3. May be
	involved together with PAX3, SIX1, and EYA2 in regulation of myogenesis. In the developing
	somite, expression of DACH2 and PAX3 is regulated by the overlying ectoderm, and DACH2 and
	PAX3 positively regulate each other's expression. Probably binds to DNA via its DACHbox-N
	domain. {EC0:0000269 PubMed:12112464, EC0:0000269 PubMed:12130660}.
Molecular Weight:	68.6 kDa
L luci Durati	002509
UniProt:	Q925Q8
Application Details	Q923Q0
	In addition to the applications listed above we expect the protein to work for functional studies
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Restrictions:

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needed is the DNA that codes for the desired protein!

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