

Datasheet for ABIN3135013  
**DENND4B Protein (AA 1-1499) (Strep Tag)**



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## Overview

Quantity:	250 µg
Target:	DENND4B
Protein Characteristics:	AA 1-1499
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DENND4B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	<p>MAEERPPRLV DYFVVAGLAG NGAPIPEEKW VPEPTGPLRP PRPAEPITDV AVIARALGEE</p> <p>VPQGYTCIQT SAGGHPLELS AGLLGGTQPV ICYRRGRDKP PLVELGVLYE GKERPCLGFQ</p> <p>VLDTPPYSHS ANLAPPGPGH PRTYLMYRRA AEGAGLHALG ITDLCLVLPS KEGTPHTYC</p> <p>RLPRNLNPGM WGPAVYLCYK VGLAKANTLV YEAELLGRYP EEDNEAFPLP ESNPVFCLPM</p> <p>GATIECWPAQ TKYPVPVFST FVLTGAAGDK VYGAALQFYE AFPRARLSER QARALGLMSA</p> <p>VERGRALGGR AVRSRRAIAV LSRWPAFPAP RAFLTFLYRY SVSGPHRLPL EAHISHFIHN</p> <p>VPFPSPQRPR ILVQMSPYDN LLLCQPVSSP LPLSGASFLQ LLQNLGPELA ITLLAVLTE</p> <p>HKLLVHSLRP DLLTSVCEAL VSMIFPLHWQ CPYIPLCPLV LADVLSAPVP FIVGIHSSYF</p> <p>DLHDPPADVI CVDLDTNTLF QKEEKKPLSA RTLPRRPYKL LLATLTSLYQ QLDQTYTGPE</p> <p>EEASLEFLLT DYEAVCGRRRT RLEREVQGAF LRFMACLLKG YRNFLRPLTQ APSEGSRDVD</p> <p>NLFYLQGFLK SRERSSHKLY SQLLHTQMFS QFIECSFGS ARHAALEFFD SCVDKVHPEQ</p>

EKPEPTPLVE LEELSGSELT VFITPPEEPP VLEGSESTPQ YCYDGFPELK AELFESPQEQ  
QGALPVPGPS RSAPSSPAPR RTKQEMKVAQ RMAQKSATVP ELWARCLLGH CYGLWFLCLP  
AYVRSVPSRV RALHTAYHVL REMENRKVVL PDEVCYRVLM QLCSHYGQPV LSVRVMLEMR  
RAGIVPNTIT YGYYNKAVLE SKWPSGTPGG RLRWAKLRNV VLGAQFRQP LKDRRQQQQQ  
QQQQQQKQQ VAEQQKSGSS QTEPYLERPS PTRPLQRQT WAGRSLREPS SPMGRLVKSG  
SLGSARGTQP TVEAGVAHMI EALGVLEPRG SPVPWQDGS LSDLTGEEM APGGSPGGSG  
SALSAQSTEAL EGISGRGSK TSGCQEEVGT PRKGLGARLQ QLLTPSRRAS ASRIPPELP  
SDLPPAARRS PMDSLLWPRE RPGSTASESS ASLGSEWDIS ESSLSSLSLR RSSERLSDTP  
GAFQPPSLEI LMSSCSLCHA CDSLVDYDEI MAGWAPDDSN LNTTCFPCAC HFVPLLSVQT  
LDSRPSAPSP KSSLAGASGC KDAPAPGGPG PVLSDRRFCL ALDQPQLCNG HMGSASRRVE  
NGAWAYLSPL VLRKEESLV ENEGSEVLAL PELPAAHP II FWNLLWYFQR LRLPSVLPGL  
VLASCNGPPP SQLSQGPSPW LTPDPASVHV HLLWDVLTPD PNSCPPLYVL WRVHSQIPQR  
VWVGPPVPSC LSLALLESVL RHVGLNEVHK AVGLLLET LG PPPTGLHLQR GIYREILFLT  
MAALGKDHDV IVAFDKKYKS AFNKLASSMG KEELRQRRQA MPTPKAIDCR KCFGAPLEC

**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

## Product 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!

### 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:	DENND4B
Alternative Name:	Dennd4b ( <a href="#">DENND4B Products</a> )
Background:	DENN domain-containing protein 4B (Brain-specific gene 4 protein) (Brain specific protein 4),FUNCTION: Guanine nucleotide exchange factor (GEF) which may activate RAB10. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form (By similarity). {ECO:0000250}.
Molecular Weight:	164.7 kDa
UniProt:	<a href="#">Q3U1Y4</a>

## 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

Application Details

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!

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