

Datasheet for ABIN3092117 DENND3 Protein (AA 1-1198) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DENND3
Protein Characteristics:	AA 1-1198
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DENND3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MRSLRKKREK PRPEQWKGLP GPPRAPEPED VAVPGGVDLL TLPQLCFPGG VCVATEPKED
	CVHFLVLTDV CGNRTYGVVA QYYRPLHDEY CFYNGKTHRE CPGCFVPFAV CVVSRFPYYN
	SLKDCLSCLL ALLKPCKDFE VDSHIKDFAA KLSLIPSPPP GPLHLVFNMK SLQIVLPARA
	DPESPILDLD LHLPLLCFRP EKVLQILTCI LTEQRIVFFS SDWALLTLVT ECFMAYLYPL
	QWQHPFVPIL SDQMLDFVMA PTSFLMGCHL DHFEEVSKEA DGLVLINIDH GSITYSKSTD
	DNVDIPDVPL LAAQTFIQRV QSLQLHHELH AAHLLSSTDL KEGRAHRRSW QQKLNCQIQQ
	TTLQLLVSIF RDVKNHLNYE HRVFNSEEFL KTRAPGDHQF YKQVLDTYMF HSFLKARLNR
	RMDAFAQMDL DTQSEEDRIN GMLLSPRRPT VEKRASRKSS HLHVTHRRMV VSMPNLQDIA
	MPELAPRNSS LRLTDTAGCR GSSAVLNVTP KSPYTFKIPE IHFPLESKCV QAYHAHFVSM
	LSEAMCFLAP DNSLLLARYL YLRGLVYLMQ GQLLNALLDF QNLYKTDIRI FPTDLVKRTV
	ESMSAPEWEG AEQAPELMRL ISEILDKPHE ASKLDDHVKK FKLPKKHMQL GDFMKRVQES

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	GIVKDASIIH RLFEALTVGQ EKQIDPETFK DFYNCWKETE AEAQEVSLPW LVMEHLDKNE
	CVCKLSSSVK TNLGVGKIAM TQKRLFLLTE GRPGYLEIST FRNIEEVRRT TTTFLLRRIP
	TLKIRVASKK EVFEANLKTE CDLWHLMVKE MWAGKKLADD HKDPHYVQQA LTNVLLMDAV
	VGTLQSPGAI YAASKLSYFD KMSNEMPMTL PETTLETLKH KINPSAGEAF PQAVDVLLYT
	PGHLDPAEKV EDAHPKLWCA LSEGKVTVFN ASSWTIHQHS FKVGTAKVNC MVMADQNQVW
	VGSEDSVIYI INVHSMSCNK QLTAHCSSVT DLIVQDGQEA PSNVYSCSMD GMVLVWNVST
	LQVTSRFQLP RGGLTSIRLH GGRLWCCTGN SIMVMKMNGS LHQELKIEEN FKDTSTSFLA
	FQLLPEEEQL WAACAGRSEV YIWSLKDLAQ PPQRVPLEDC SEINCMIRVK KQVWVGSRGL
	GQGTPKGKIY VIDAERKTVE KELVAHMDTV RTLCSAEDRY VLSGSGREEG KVAIWKGE
	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 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!

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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

Comment:

Target:	DENND3
Alternative Name:	DENND3 (DENND3 Products)
Background:	DENN domain-containing protein 3,FUNCTION: Guanine nucleotide exchange factor (GEF)
	activating RAB12. Promotes the exchange of GDP to GTP, converting inactive GDP-bound
	RAB12 into its active GTP-bound form (PubMed:20937701). Regulates autophagy in response
	to starvation through RAB12 activation. Starvation leads to ULK1/2-dependent phosphorylation
	of Ser-472 and Ser-490, which in turn allows recruitment of 14-3-3 adapter proteins and leads to
	up-regulation of GEF activity towards RAB12 (By similarity). Also plays a role in protein
	transport from recycling endosomes to lysosomes, regulating, for instance, the degradation of
	the transferrin receptor and of the amino acid transporter PAT4 (PubMed:20937701).
	Starvation also induces phosphorylation at Tyr-858, which leads to up-regulated GEF activity
	and initiates autophagy (By similarity). {ECO:0000250 UniProtKB:A2RT67,
	ECO:0000269 PubMed:20937701}.
Molecular Weight:	135.9 kDa
UniProt:	A2RUS2
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.

ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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	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!
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