

Datasheet for ABIN3108951

## DISP2 Protein (AA 1-1401) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	DISP2
Protein Characteristics:	AA 1-1401
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DISP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MDGDSSSSSG GSGPAPGPGP EGEQRPEGEP LAPDGGSPDS TQTKAVPPEA SPERSCSLHS</p> <p>CPLEDPSSSS GPPPTTSTLQ PVGPSSPLAP AHFTYPRALQ EYQGGSSLPG LGDRAALCSH</p> <p>GSSLSPSPAP SQRDGTWKPP AVQHHVSVR QERAFQMPKS YSQLIAEWPV AVLMLCLAVI</p> <p>FLCTLAGLLG ARLPDFSKPL LGFEPRDTDI GSKLVVWRAL QALTGPRKLL FLSPDLELNS</p> <p>SSSHNTLRPA PRGSAQESAV RPRRMVEPLE DRRQENFFCG PPEKSYAKLV FMSTSSGSLW</p> <p>NLHAIHSMCR MEQDQIRSHS SFGALCQRTA ANQCCPSWSL GNYLAVLSNR SSCLDTTQAD</p> <p>AARTLALLRT CALYYHSGAL VPSCLGPGQN KSPRCAQVPT KCSQSSAIYQ LLHFLLDRDF</p> <p>LSPQTTDYQV PSLKYSLLFL PTPKGASLMD IYLDRLATPW GLADNYTSVT GMDLGLKQEL</p> <p>LRHFLVQDTV YPLLALVAIF FGMALYLRSL FLTLMVLLGV LGSLLVAFFL YQVAFRMAYF</p> <p>PFVNLAALLL LSSVCANHTL IFFDLWRLSK SQLPSGGLAQ RVGRTMHHFG YLLLVSGLTT</p> <p>SAAFYASYLS RLP AVRCLAL FMGTAVLVHL ALTLVWLPAS AVLHERYLAR GCARRARGRW</p>

EGSAPRRLLL ALHRRRLRLR RAAAGTSRLL FQRLPCGVI KFRYIWICWF AALAAGGAYI  
AGVSPRLRLP TLPPPGGQVF RPSHPFERFD AEYRQLFLFE QLPQGEGGHM PVVLVWGVLP  
VDTGDPLDPR SNSSLVRDPA FSASGPEAQR WLLALCHRAR NQSFDTLQE GWPTLCFVET  
LQRWMESPSC ARLGPDLCCL HSDFPWAPQF FLHCLKMMAL EQGPDGTQDL GLRFDAGHSL  
AALVLQFQTN FRNSPDYNQT QLFYNEVSHW LAAELGMAPP GLRRGWFTSR LELYSLQHSL  
STEPAVLGL ALALAFATLL LGTWNVPLSL FSVAAGTV LTVGLLVLL EWQLNTAEAL  
FLSASVGLSV DFTVNYCISY HLCPPHDLRLS RVAFLSRQTS CATAVGAAAL FAAGVLMPLA  
TVLLYRKLG ILMVVKCVSC GFASFFQSL CCFGPEKNC GQILWPCAHL PWDAGTGDPG  
GEKAGRPRPG SVGGMPGSCS EQYELQPLAR RRSPSFDST ATSKLSHRPS VLSEDQLHLD  
GPCCSRPPPA PASPRELLLD HQAVFSQCPA LQTSSPYKQA GPSPKTRARQ DSQGEAEPL  
PASPEAPAHS PKAKAADPPD GFCSSASTLE GLSVDETCL STSEPSARVP DSVGVSDDL  
DDTGQPVLER GQLNGKRDITL WLALRETVYD PSLPASHHSS LSWKGRGGPG DGSPVLPNS  
QPDLPDVWLR RPSTHTSGYS S

**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 protein production are removed, leaving only the protein production machinery and the

## Product Details

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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

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Target:	DISP2
Alternative Name:	DISP2 ( <a href="#">DISP2 Products</a> )
Background:	Protein dispatched homolog 2
Molecular Weight:	152.0 kDa
UniProt:	<a href="#">A7MBM2</a>
Pathways:	<a href="#">Hedgehog Signaling</a>

## Application Details

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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 modifications.  During lysate production, the cell wall and other cellular components that are not required for

## Application Details

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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

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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