

Datasheet for ABIN3135718  
**DPP10 Protein (AA 1-797) (Strep Tag)**



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## Overview

Quantity:	1 mg
Target:	DPP10
Protein Characteristics:	AA 1-797
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP10 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Sequence: MKQEQQTPG ARATQSQPAD QELGSNSPPQ RNWKGIAIAL LVILVVCSLI TMSVILLTPD  
ELTNSSETRL SLEELLGKGF GLHNPEPRWI NDTVVVYKTN NGHVMKLNTE SNASTLLLDN  
STFVTFKASR HSLSPDLKYV LLAYDVKQIF HYSFTASYLI YNIHTGEVWE LNPPEVEDSV  
LQYAAWGVQG QQLIYIFENN IYYQPDIKSS SLRLTSSGKE GIIFNGIADW LYEEELLHSH  
IAHWWSPDGE RLAFLMINDS LVPNMIIPRF TGALYPKAKQ YPYPKAGQAN PSVKLYVVNL  
YGPTHLELM PPDIFKSREY YITMVKWVSN TRTVVRWLN R P QNISILTLC ESTTGACSRK  
YEMTSDTWLS KQNEEPVFSR DGSKFFMTVP VKQGGGRGEFH HIAMFLVQSK SEQITVRHLT  
SGNWEVIRIL AYDETTQKIY FLSTESSPQG RQLYSASTEG LLNRDCISCN FMKEDCTYFD  
ASFSPMNQHF LLFCEGPKVP VVSLHITDNP SRYFLENNS VMKETIQKKK LAKRETRILH  
IDDYELPLQL SFPKDFMEKN QYALLIMDE EPGGQMVTDK FHVDWDSVLI DTDNVIVARF  
DGRGSGFQGL KVLQEIHRR I GSVEAKDQVA AVKYLKQPY IDSKRLSIFG KGYGGYIASM  
ILKSDEKFFK CGAVVAPISD MKLYASAFSE RYLGMPKSEE STYQASSVLH NIHGLKEENL

LIHGTADTK VHFQHSAELI KHLIKAGVNY TLQVYPDEGY HISDKSKHHF YSTILRFFSD  
CLKKEEVSVLP QEPEEDE

**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 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

## Product Details

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Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

## Target Details

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Target: DPP10

Alternative Name: Dpp10 ([DPP10 Products](#))

Background: Inactive dipeptidyl peptidase 10 (Dipeptidyl peptidase X) (DPP X),FUNCTION: Promotes cell surface expression of the potassium channel KCND2 (PubMed:22311982). Modulates the activity and gating characteristics of the potassium channel KCND2 (PubMed:22311982). Has no dipeptidyl aminopeptidase activity (Probable). {ECO:0000250|UniProtKB:Q8N608, ECO:0000269|PubMed:22311982, ECO:0000305}.

Molecular Weight: 90.8 kDa

UniProt: [Q6NXX7](#)

## 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 *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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

## Handling

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Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months