

Datasheet for ABIN3135090

## ESRP1 Protein (AA 1-680) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	ESRP1
Protein Characteristics:	AA 1-680
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESRP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MTASPDYLVV LFGITAGATG AKLGSDEKEL ILLWVKVVDL ANKKVQQLHE VLVRPDQLEL</p> <p>TEDCKEETKI DAENLSSAPQ LDQALRQFNQ SVSNELNIGV GTSFCLCTDG QLHIRQILHP</p> <p>EASKKNVLLP ECFYSFFDLR KEFKKCCPGS PDIDKLDVAA MTESLNFEKS DSVSRYGASQ</p> <p>VEDMGNIILA MISEPYNHRF SDPERVNYKF ESGTCKMELI DDSTVVRARG LPWQSSDQDI</p> <p>ARFFKGLNIA KGGAALCLNA QGRRNGEALV RFVSEEHRDL ALQRHKHHMG TRYIEVYKAT</p> <p>GEDFLKIAGG TSNEVAQFLS KENQVIVRMR GLPFTATAEE VVAFFGQHCP ITGGKEGILF</p> <p>VTYPDGRPTG DAFVLFACEE YAQNALRKHK ELLGKRYIEL FRSTAAEVQQ VLNRFSSAPL</p> <p>IPLPTPIIP VLPQQFVPPT NVRDCIRLRG LPYAATIEDI LDFLGEFSTD IRTGHVHMVL</p> <p>NHQGRPSGDA FIQMKSTDRA FMAAQKYHKK TMKDRYVEVF QCSAEEMNFV LMGGTLNRNG</p> <p>LSPPPCKLPC LSPPSYTFPA PTAVIPTEAA IYQPSLLLNP RALQPSTAYY PAGTQLFMNY</p> <p>TAYYPSPPGS PNSLGYFPTA ANLSSVPPQP GTVVRMQGLA YNTGVKEILN FFQGYQYATE</p>

DGLVHTNDQA RTLPKEWVCI

**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 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.

---

### Purification:

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

---

## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: ESRP1

Alternative Name: Esrp1 ([ESRP1 Products](#))

Background: Epithelial splicing regulatory protein 1 (RNA-binding motif protein 35A) (RNA-binding protein 35A),FUNCTION: mRNA splicing factor that regulates the formation of epithelial cell-specific isoforms. Specifically regulates the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2. Also regulates the splicing of CD44, CTNND1, ENAH, 3 transcripts that undergo changes in splicing during the epithelial-to-mesenchymal transition (EMT). Acts by directly binding specific sequences in mRNAs. Binds the GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region present in the mRNA of FGFR2 (By similarity). Regulates splicing and expression of genes involved in inner ear development, auditory hair cell differentiation, and cell fate specification in the cochlear epithelium (PubMed:29107558).  
{ECO:0000250|UniProtKB:Q6NXG1, ECO:0000269|PubMed:29107558}.

Molecular Weight: 75.5 kDa

UniProt: [Q3US41](#)

## 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 *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!

## Application Details

---

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