

Datasheet for ABIN3131041

FLVCR Protein (AA 1-560) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	FLVCR (FLVCR1)
Protein Characteristics:	AA 1-560
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLVCR protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MARPDDEVGP AVAPGHPLGK GYLPVPKGAP DGEARLVPQN GPEALNGGPG LGPLIAGAQG GPQALIAAEE ETQARLLPAG DGEDVPCPAC PPRTALSPRR FVLLIFS LY SLVNAFQWIQ YSSISNVFED FYEVSPLHIN WLSMVYMVAY VPLIFPATWL LDTRGLRLTA LLGSGLNCLG AWVKCGSVQR HLFWVTMLGQ ILCSPAQVFI LGLPSPVASV WFGPKEVSTA CATAVLGNQL GTAVGFLLPP VLVPALGTQN STGLLAHTQN NTDLLAHNIN TMFYGTAFIS TFLFFLTIIA FKEKPPLPPS QAQAVLRDSP PEEYSYKSSI WNLCRNIPFV LLLVSYGIMT GAFYSISTLL NQIILTYVVG EEVNAGRIGL TLVAGMVGSI ILCGLWLDYT KTYKQTTLIV YVLSFIGMLI FTFTLNLGYI IVVFTGGIL GFFMTGYLPL GFEFAVEITY PESEGMSSGL LNTAAQILGI FFTQAQKIT TDYNSPEAGN IFLCAWMFVG IILTALIKSD LRRHNINTGL TNIDVKAVPV DSRVDPKPKV MVSISQESSL</p>

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®).

Purity:

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

Grade:

custom-made

Target Details

Target:	FLVCR (FLVCR1)
Alternative Name:	Flvcr1 (FLVCR1 Products)
Background:	<p>Heme transporter FLVCR1 (Feline leukemia virus subgroup C receptor-related protein 1) (Feline leukemia virus subgroup C receptor) (Major facilitator superfamily domain containing 7B) (Mfsd7b),FUNCTION: [Isoform 1]: Heme b transporter that mediates heme efflux from the cytoplasm to the extracellular compartment. Heme export depends on the presence of HPX and is required to maintain intracellular free heme balance, protecting cells from heme toxicity. Heme export provides protection from heme or ferrous iron toxicities in liver, brain, sensory neurons and during erythropoiesis, a process in which heme synthesis intensifies. Possibly export coproporphyrin and protoporphyrin IX, which are both intermediate products in the heme biosynthetic pathway. Does not export bilirubin. The molecular mechanism of heme transport, whether electrogenic, electroneutral or coupled to other ions, remains to be elucidated. {ECO:0000250 UniProtKB:Q9Y5Y0, ECO:0000269 PubMed:18258918, ECO:0000269 PubMed:23187127}., FUNCTION: [Isoform 2]: Heme transporter that promotes heme efflux from the mitochondrion to the cytoplasm. Essential for erythroid differentiation. {ECO:0000269 PubMed:23187127}.</p>
Molecular Weight:	60.5 kDa
UniProt:	B2RXV4
Pathways:	Transition Metal Ion Homeostasis

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:	<p>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.</p> <p>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</p>

Application Details

	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