Datasheet for ABIN3126195 SLCO4A1 Protein (AA 1-723) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SLCO4A1 (OATP-E)
Protein Characteristics:	AA 1-723
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLCO4A1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

## Product Details

Sequence:	MPQHAMGDTH FLSLPKHLFT STSSATDSGC DTPPSSRASP ASLRSAHGTL GSSSQPLFEP
	QAEKRSSQTA REVQYVSSGP QNSLCGWQAF TPKCLQVFNT PKGFLFFLCA ASFLQGMTVN
	GFINTVITSI ERRFDLHSYQ SGLIASSYDI AACLCLTFVS YFGGNGHKPR WLGWGVLVLG
	IGSLVFALPH FTAGRYEVEM DEGLGTGTCL TNQSHVECKD SASGLSNYRL IFMLGQLLHG
	VGATPLYTLG VTYLDENVKS SYSPIYIAIF YTAAILGPAA GYLIGGAMLN VYTEVGQRTE
	LTTDSPLWVG AWWIGFLGTG IAAFLIAIPI LGYPRQLPGS QRYVVMRAAE TQQLKDHSRG
	AVSNPAFGKT VRDLPLSIWL LLRNPTFILL CLAGATEATL IAGMSTFGPK FFEAQFSLSA
	SEAATLFGYL VVPAGGGGTL LGGFLVNKFK LRGSGIIRFC LFCTLTSLLA FFVFLMHCPN
	VHMAGVTTGY VGSLLPKGQL DLKAACNAIY CCQPKHYSPL CGSDGTMYYS PCYAGCPADA
	ETDLGGQKVY RGCSCILEKA SSGWGNATAG KCASTCQSKP FLLVLVFVVI IFTFLSSIPA
	LTATLRCVSD RQRSFALGIQ WIVVRTLGSI PGPIAFGWVI DKACLLWQDQ CGHQGSCFVY
	ENEAMSRYML IAGLTFKVLG FLFFVAAYFL YKSPSVSSDG LEASLPSQSS ASDSPTEQLQ SNV

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3126195 | 05/08/2024 | Copyright antibodies-online. All rights reserved. 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	$\geq$ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

# Target Details

Target:	SLCO4A1 (OATP-E)
Alternative Name:	Slco4a1 (OATP-E Products)
Background:	Solute carrier organic anion transporter family member 4A1 (Organic anion-transporting
	polypeptide E) (OATP-E) (Sodium-independent organic anion transporter E) (Solute carrier
	family 21 member 12),FUNCTION: Organic anion antiporter with apparent broad substrate
	specificity. Recognizes various substrates including thyroid hormones 3,3',5-triiodo-L-thyronine
	(T3), L-thyroxine (T4) and 3,3',5'-triiodo-L-thyronine (rT3), conjugated steroids such as estrone 3-
	sulfate and estradiol 17-beta glucuronide, bile acids such as taurocholate and prostanoids such
	as prostaglandin E2, likely operating in a tissue-specific manner (By similarity). May be involved
	in uptake of metabolites from the circulation into organs such as kidney, liver or placenta.
	Possibly drives the selective transport of thyroid hormones and estrogens coupled to an
	outward glutamate gradient across the microvillous membrane of the placenta (By similarity).
	The transport mechanism, its electrogenicity and potential tissue-specific counterions remain
	to be elucidated (Probable). {ECO:0000250 UniProtKB:Q96BD0, ECO:0000305}.
Molecular Weight:	77.7 kDa
UniProt:	Q8K078
Pathways:	Hormone Transport
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

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Storage:

Expiry Date:

Handling Advice:

Storage Comment:

	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

please contact us.

-80 °C

Store at -80°C.

Avoid repeated freeze-thaw cycles.

Unlimited (if stored properly)

The buffer composition is at the discretion of the manufacturer. If you have a special request,