

Datasheet for ABIN3116856

LRRC8C Protein (AA 1-803) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	LRRC8C
Protein Characteristics:	AA 1-803
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC8C protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MIPVTEFRQF SEQQPAFRVL KPWWDVFTDY LSVAMLMIGV FGCTLQVMQD KIICLPKRVQ</p> <p>PAQNHSSLSN VSQAVASTTP LPPPKPSAN PITVEMKGLK TDLDLQQYSF INQMCYERAL</p> <p>HWYAKYFPYL VLIHTLVFML CSNFWFKFPG SSSKIEHFIS ILGKCFDSPW TTRALSEVSG</p> <p>EDSEEKDNRK NNMNRSNTIQ SGPEDSLVNS QSLKSIPEKF VVDKSTAGAL DKKEGEQAKA</p> <p>LFEKVKKFRL HVEEGDILYA MYVRQTVLKV IKFLIIAYN SALVSKVQFT VDCNVDIQDM</p> <p>TGYKNFSCNH TMAHLFSKLS FCYLCFVSIY GLTCLYTLYW LFYRSLREYS FEYVRQETGI</p> <p>DDIPDVKNDF AFMLHMIDQY DPLYSKRFAV FLSEVSENKL KQLNLNNEWT PDKLRQKLQT</p> <p>NAHNRLELPL IMLSGLPDTV FEITELQSLK LEIKNVMIP ATIAQLDNLQ ELSLHQCSVK</p> <p>IHSAALSFLK ENLKVLVKF DDMRELPPWM YGLRNLEELY LVGSLSHDIS RNVLTLESLRD</p> <p>LKSLKILSIK SNVSKIPQAV VDVSSHLQKM CIHNDGTKLV MLNNLKKMTN LTELELVHCD</p> <p>LERIPHAVFS LLSLQELDLK ENNLKSIEEI VSFQHLRKLK VLKLWHNSIT YIPEHIKLT</p>

SLERLSFSHN KIEVLPSHLF LCNKIRYLDL SYNDIRFIPP EIGVLQSLQY FSITCNKVES
LPDELYFCKK LKTLKIGKNS LSVLSPKIGN LLFLSYLDVK GNHFEILPPE LGDCRALKRA
GLVVEDALFE TLPSPDVREQM KTE

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

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	LRRC8C
Alternative Name:	LRRC8C (LRRC8C Products)
Background:	<p>Volume-regulated anion channel subunit LRRC8C (Factor for adipocyte differentiation 158) (Leucine-rich repeat-containing protein 8C),FUNCTION: Non-essential component of the volume-regulated anion channel (VRAC, also named VSOAC channel), an anion channel required to maintain a constant cell volume in response to extracellular or intracellular osmotic changes (PubMed:24790029, PubMed:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (PubMed:24790029, PubMed:26824658, PubMed:28193731). Plays a redundant role in the efflux of amino acids, such as aspartate and glutamate, in response to osmotic stress (PubMed:24790029, PubMed:26824658, PubMed:28193731). The VRAC channel also mediates transport of immunoreactive cyclic dinucleotide GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol (PubMed:33171122). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E), channel characteristics depend on the precise subunit composition (PubMed:24790029, PubMed:26824658, PubMed:28193731).</p> <p>{ECO:0000269 PubMed:24790029, ECO:0000269 PubMed:26824658, ECO:0000269 PubMed:28193731, ECO:0000269 PubMed:33171122}.</p>
Molecular Weight:	92.5 kDa
UniProt:	Q8TDW0

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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
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