

Datasheet for ABIN3135980

## LRRC7 Protein (AA 1-1490) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	LRRC7
Protein Characteristics:	AA 1-1490
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MTTKRKLIGR LVPCRCFRGE EEIISVLDYS HCSLQQVPKE VFNFERTLEE LYLDANQIEE</p> <p>LPKQLFNCQA LRKLSIPDND LSSLPTSIA S LVNLKELDIS KNGVQEFPEN IKCKCLTII</p> <p>EASVNPISK L PDGFTQLNL TQLYLNDAFL EFLPANFGRL VKLRILELRE NHLKTLPKSM</p> <p>HKLAQLERLD LGNNEFSELP EVLDQIQNLR ELWMDNNALQ VLPGSIGKLK MLVYLDMSKN</p> <p>RIETVMDIS GCEALEDLL SSNMLQQLPD SIGLLKKLTT LKVDDNQLTM LPNTIGNLSL</p> <p>LEEFDCSCNE LESLPPTIGY LHSLRTLAVD ENFLPELPRE IGSCKNVTVM SLRSNKLEFL</p> <p>PEEIGQMQR L RVLNLSNRL KNL PFSFTKL KELAALWLS D NQSKALIPLQ TEAHPETKQR</p> <p>VL TNYMFPQQ PRGDEDFQSD SDSFNPTLWE EQRQQRMTVA FEFEDKKEDD ESAGKVKALS</p> <p>CQAPWDRGQR GITLQPARLS GDCCTPWARC DQIQDMPVP QSDPQLAWGC ISGLQQRSM</p> <p>CAPLPVAAQS TTLPSLSGRQ VEINLKRYPT PYPEDLKNMV KSVQNLVGKP SHGVRVENS N</p> <p>PTANTEQTVK EKFEHKWPVA PKEITVEDSF VHPANEMRIG ELHPSLAETP LYPPKLVLLG</p>

KDKKESTDES EVDKTHCLNN SVSSGTYSYD SPSQASSASS NTRMKVGS LQ ATAKDAVHNS  
LWGNRIAPPF PQPLDAKPLL SQREAVPPGN IPQRPDRLPM SDAFPDNWTD GSHYDNTGFV  
SEEAAGENAN NNPLLSSKAR SVPAHGRRPL IRQERIVGVP LELEQSTHRH TPETEVPPSN  
PWQNWTRTPS PFEDRTAFPS KLETTPTTSP LPERKDHMKE PTETPGPFSP GVPWEYHDPT  
PNRSLGNVFS QIHCRPDSSK GVIAISKSTE RLSPLMKDIK SNKFKKSQSI DEIDVGTYKV  
YNIPLENYAS GSDHLGSHER PDKFLGPEHG MSSMSRSQSV PMLDDEMLMY GSSKGPPQKQ  
ASMTKKVYQF DQSFNPQGAV EVKAEKRIPP PFAHNSEYVQ QPSKNIADL VSPRAYRGYP  
PMEQMFSSSQ PSVNEDAMVN AQFASQGPRG GFLRRADSLA SSTEMAMFRR VSEPHELPPG  
DRYGRATYRG GLEGQSSISM TDPQFLKRNG RYEDEHPSYQ EVKAQAGSFP AKNLTQRRPL  
SARSYSTESY GASQTRPVSA RPTMAALLEK IPSDYNLGN YGDKTSDNSDI KTRPTPVKGE  
ESCGKMPADW RQQLLRHIEA RRLDRTPSQQ SNILDNGQED VSPSGQWNPY PLGRRDVPPD  
TITKAGSHI QTLMGSQLQ HRSREQQPYE GNINKVTIQQ FQSPLPIQIP SSQATRGPPQ  
GRCLIQTKGQ RSMDGYPEQF CVRIEKNPGL GFSISGGISG QGNPFKPSDK GIFVTRVQPD  
GPASNLLQPG DKILQANGHS FVHMEHEKAV LLLKSFQNTV DLVIQRELTV

**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

## Product Details

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:	LRRC7
Alternative Name:	Lrrc7 ( <a href="#">LRRC7 Products</a> )
Background:	Leucine-rich repeat-containing protein 7 (Densin-180) (Densin) (Protein LAP1),FUNCTION: Required for normal synaptic spine architecture and function. Necessary for DISC1 and GRM5 localization to postsynaptic density complexes and for both N-methyl D-aspartate receptor-dependent and metabotropic glutamate receptor-dependent long term depression. {ECO:0000269 PubMed:22072671}.
Molecular Weight:	166.9 kDa
UniProt:	<a href="#">Q80TE7</a>
Pathways:	<a href="#">Synaptic Membrane</a>

## 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.
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## Application Details

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 needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b></p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months