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Datasheet for ABIN3093412  
**LLGL1 Protein (AA 1-1064) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	LLGL1
Protein Characteristics:	AA 1-1064
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This LLGL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MMKFRFRRQG ADPQREKLKQ ELFAFNKTVE HGFPNQPSAL AFDPELRIMA IGTRSGAVKI  
YGAPGVEFTG LHRDAATVTQ MHFLTQGGRL LSLDDSSLH LWEIVHHNGC AHLEEALSFQ  
LPSRPGFDGA SAPLSLTRVT VLLVAASDI AALGTEGSSV FFLDVTTTLT LEGQTLAPGE  
VLRSPDDYR CGKALGPVES LQGHLRDPTK ILIGYSRGLL VIWNQASQCV DHIFLGNQQL  
ESLCWGRDSS TVVSSHSDGS YAVWSVDAGS FPTLQPTVAT TPYGPFPCKA INKILWRNCE  
SGGHFIIFSG GMPRASYGDR HCVSVLRAET LVTLDFTSRI IDFFT VHSTR PEDEFDDPQA  
LAVLLEEELV VLDLQTPGWP AVPAPYLAPL HSSAITCSAH VASVPAKLWA RIVSAGEQQS  
PQPVSSALSW PITGGRNLAQ EPSQRGLLLT GHEDGTVRFW DASGVALRPL YKLSTAGLFQ  
TDCEHADSLA QAAEDDWPPF RKGVCDFPYS DDPRLGVQKV ALCKYTAQMV VAGTAGQVLV  
LELSDVPVEQ AVSVAIIDLL QDREGFTWKG HERLSPRTGP LPWPAGFQPR VLVQCLPPAA  
VTAVTLHTEW SLVAFGTSHG FGLFDYQRKS PVLARCTLHP NDSLAMEGPL SRVKSLLKKS  
RQSFRRIRKS RVSGKKRAAN ASSKLQEANA QLAEQACPHD VEMTPVQRRI EPRSADDSLS

GVVRCLYFAD TFLRDGAHHG PTMWAGTNSG SVFAYALEVP AAAVGGEKRP EQAVEAVLGK  
EVQLMHRAPV VAIAVLDGRG RPLPEPYEAS RDLAQAPDMQ GGHAVLIASE EQFKVFTLPK  
VSAKTKFKLT AHEGCRVRKV ALATFASVAC EDYAETCLAC LTNLGDVHVF SVPGLRPQVH  
YSCIRKEDIS GIASCVFTRH GQGFYLISPS EFERFSL SAR NITEPLCSLD INWPRDATQA  
SYRIRESPKL SQANGTPSIL LAPQSLDGSP DPAHSMGPDTP PEPPEAALSP MSIDSATSAD  
TTLDTTGDVT VEDVKDFLGS SEESEKNLRN LAEDEAHACA ILIK

**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 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 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.

## Product Details

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- 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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>1. 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>2. 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:	>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)

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## Target Details

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Target:	LLGL1
Alternative Name:	LLGL1 ( <a href="#">LLGL1 Products</a> )
Background:	Lethal(2) giant larvae protein homolog 1 (LLGL) (DLG4) (Hugl-1) (Human homolog to the D-Ig1 gene protein),FUNCTION: Cortical cytoskeleton protein found in a complex involved in maintaining cell polarity and epithelial integrity. Involved in the regulation of mitotic spindle orientation, proliferation, differentiation and tissue organization of neuroepithelial cells. Involved in axonogenesis through RAB10 activation thereby regulating vesicular membrane trafficking toward the axonal plasma membrane. {ECO:0000269 PubMed:15735678, ECO:0000269 PubMed:16170365}.
Molecular Weight:	115.4 kDa
UniProt:	<a href="#">Q15334</a>
Pathways:	<a href="#">WNT Signaling</a>

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## Application Details

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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

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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>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)