

Datasheet for ABIN3084504

Mare/Nprl3/C16orf35 Protein (AA 1-569) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Mare/Nprl3/C16orf35 (C16orf35)
Protein Characteristics:	AA 1-569
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Mare/Nprl3/C16orf35 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MRDNTSPISV ILVSSGSRGN KLLFRYPFQR SQEHPASQTS KPRSRYAASN TGDHADEQDG</p> <p>DSRFSDVILA TILATKSEMC GQKFELKIDN VRFVGHPTLL QHALGQISK T DPSPKREAPT</p> <p>MILFNVVFAL RANADPSVIN CLHNLSRRIA TVLQHEERRC QYL TREAKLI LALQDEV SAM</p> <p>ADGNEGPQSP FHHILPKCKL ARDLKEAYDS LCTSGVVRLH INSWLEVSFC LPHKIHYAAS</p> <p>SLIPPEAIER SLKAIRPYHA LLLLSDEKSL LGELPIDCSP ALVRVIKTT S AVKNLQQLAQ</p> <p>DADLALLQVF QLA AHLVYWG KAI IYPLCE NNVYMLSPNA SVCLYSPLAE QFSHQFPSHD</p> <p>LPSVLAKFSL PVSLSEFRNP LAPAVQETQL IQMVVWMLQR RLLIQLHTYV CLMASPSEEE</p> <p>PRPREDDVPF TARVGGRSLS TPNALSFGSP TSSDDMTLTS PSMDNSSAEL LPSGDSPLNQ</p> <p>RMTENLLASL SEHERAAILS VPAAQNPEDL RMFARLLHYF RGRHHLEEIM YNENTRRSQL</p> <p>LMLFDKFRSV LVVTTTHEDPV IAVFQALLP</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:	Mare/Nprl3/C16orf35 (C16orf35)
Alternative Name:	NPRL3 (C16orf35 Products)
Background:	<p>GATOR1 complex protein NPRL3 (-14 gene protein) (Alpha-globin regulatory element-containing gene protein) (Nitrogen permease regulator 3-like protein) (Protein CGTHBA),FUNCTION: As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the mTORC1 pathway (PubMed:23723238, PubMed:29590090, PubMed:35338845). In response to amino acid depletion, the GATOR1 complex has GTPase activating protein (GAP) activity and strongly increases GTP hydrolysis by RagA/RRAGA (or RagB/RRAGB) within heterodimeric Rag complexes, thereby turning them into their inactive GDP-bound form, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling (PubMed:23723238, PubMed:29590090, PubMed:35338845). In the presence of abundant amino acids, the GATOR1 complex is negatively regulated by GATOR2, the other GATOR subcomplex, in this amino acid-sensing branch of the TORC1 pathway (PubMed:23723238). {ECO:0000269 PubMed:23723238, ECO:0000269 PubMed:29590090, ECO:0000269 PubMed:35338845}.</p>
Molecular Weight:	63.6 kDa
UniProt:	Q12980

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 needed is the DNA that codes for the desired protein!</p>
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