Datasheet for ABIN3127828

RNF112 Protein (AA 1-654) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RNF112
Protein Characteristics:	AA 1-654
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF112 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPRPVLSVTA FCHRLGKRES KRSFMGNSSN SWVLPREEAQ GWMGQAVQGG TRTSRSHASF PKLELGLGHR PSPTREPPTC SICLERLREP ISLDCGHDFC IRCFSTHRIP GCELPCCPEC RKICKQRKGL RSLGERMKLL PQRPLPPALQ ETCAVRAERL LLVRINASGG LILRMGAINR CLKHPLARDT PVCLLAVLGE QHSGKSFLLD HLLSGLPSLE SGDSGRPRAE GSLPGIRWGA NGLTRGIWMW SHPFLLGKEG KKVAVFLVDT GDVMSPELSK ETRVKLCALT MMLSSYQILN TSQELKDTDL GYLEMFVHVA EVMGKHYGMV PIQHLDLLVR DSSHHNKSGQ GHVGDILQKL SGKYPKVQEL LLGKRARCYL LPAPERQWVN KDQASPRGNT EDDFSHHFRA YILDVLSTAP QHAKSRCQGY WSEGRAVARG DRRLLTGQQL AQEIKNLSGW MGKTGPSFNS PDEMAAQLHD LRKVEAAKKE FEEYVRQQDI ATKRIFSALR VLPDTMRNLL STQKDAILAR HGVALLCKER EQTLEALEAE LQAEAKAFMD SYTMRFCGHL AAVGGAVGAG LMGLAGGVVG AGMAAAALAA EAGMVAAGAA VGATGAAVVG GGVGAGLAAT VGCMEKEEDE RVQGGDREPL LQEE

Product Details

	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).

Product Details

Grade:	custom-made

Target Details

Target:	RNF112
Alternative Name:	Rnf112 (RNF112 Products)
Background:	RING finger protein 112 (EC 2.3.2.27) (Brain finger protein) (Neurolastin) (Zinc finger protein 179),FUNCTION: E3 ubiquitin-protein ligase that plays an important role in neuronal differentiation, including neurogenesis and gliogenesis, during brain development. During embryonic development initiates neuronal differentiation by inducing cell cycle arrest at the G0/G1 phase through up-regulation of cell-cycle regulatory proteins (PubMed:21566658, PubMed:28684796). Plays a role not only in the fetal period during the development of the nervous system, but also in the adult brain, where it is involved in the maintenance of neural functions and protection of the nervous tissue cells from oxidative stress-induced damage (PubMed:27918959, PubMed:26792191, PubMed:26951452). Exhibits GTPase and E3 ubiquitin-protein ligase activities. Regulates dendritic spine density and synaptic neurotransmission, its ability to hydrolyze GTP is involved in the maintenance of dendritic spine density (PubMed:26212327). {ECO:0000269|PubMed:21566658, ECO:0000269|PubMed:26212327, ECO:0000269|PubMed:26792191, ECO:0000269|PubMed:26951452, ECO:0000269|PubMed:27918959, ECO:0000269|PubMed:28684796}.
Molecular Weight:	71.3 kDa
UniProt:	Q96DY5

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 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

Application Details

	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