Datasheet for ABIN3114684

TCIRG1 Protein (AA 1-830) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	TCIRG1
Protein Characteristics:	AA 1-830
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCIRG1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGSMFRSEEV ALVQLFLPTA AAYTCVSRLG ELGLVEFRDL NASVSAFQRR FVVDVRRCEE LEKTFTFLQE EVRRAGLVLP PPKGRLPAPP PRDLLRIQEE TERLAQELRD VRGNQQALRA QLHQLQLHAA VLRQGHEPQL AAAHTDGASE RTPLLQAPGG PHQDLRVNFV AGAVEPHKAP ALERLLWRAC RGFLIASFRE LEQPLEHPVT GEPATWMTFL ISYWGEQIGQ KIRKITDCFH CHVFPFLQQE EARLGALQQL QQQSQELQEV LGETERFLSQ VLGRVLQLLP PGQVQVHKMK AVYLALNQCS VSTTHKCLIA EAWCSVRDLP ALQEALRDSS MEEGVSAVAH RIPCRDMPPT LIRTNRFTAS FQGIVDAYGV GRYQEVNPAP YTIITFPFLF AVMFGDVGHG LLMFLFALAM VLAENRPAVK AAQNEIWQTF FRGRYLLLLM GLFSIYTGFI YNECFSRATS IFPSGWSVAA MANQSGWSDA FLAQHTMLTL DPNVTGVFLG PYPFGIDPIW SLAANHLSFL NSFKMKMSVI LGVVHMAFGV VLGVFNHVHF GQRHRLLLET LPELTFLLGL FGYLVFLVIY KWLCVWAARA ASAPSILIHF INMFLFSHSP SNRLLYPRQE VVQATLVVLA LAMVPILLLG TPLHLLHRHR

	RRLRRRPADR QEENKAGLLD LPDASVNGWS SDEEKAGGLD DEEEAELVPS EVLMHQAIHT IEFCLGCVSN TASYLRLWAL SLAHAQLSEV LWAMVMRIGL GLGREVGVAA VVLVPIFAAF AVMTVAILLV MEGLSAFLHA LRLHWVEFQN KFYSGTGYKL SPFTFAATDD **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:	TCIRG1
Alternative Name:	TCIRG1 (TCIRG1 Products)
Background:	V-type proton ATPase 116 kDa subunit a 3 (V-ATPase 116 kDa subunit a 3) (Osteoclastic proton pump 116 kDa subunit) (OC-116 kDa) (OC116) (T-cell immune regulator 1) (T-cell immune response cDNA7 protein) (TIRC7) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 3),FUNCTION: Subunit of the V0 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (By similarity). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Seems to be directly involved in T-cell activation (PubMed:10329006). {ECO:0000250|UniProtKB:Q29466, ECO:0000250|UniProtKB:Q93050, ECO:0000269|PubMed:10329006}.
Molecular Weight:	93.0 kDa
UniProt:	Q13488
Pathways:	Transition Metal Ion Homeostasis, Proton Transport

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

Application Details

	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