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



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Overview

Quantity:	1 mg			
Target:	TCIRG1			
Protein Characteristics:	AA 1-830			
Origin:	Human			
Source:	Tobacco (Nicotiana tabacum)			
Protein Type:	Recombinant			
Purification tag / Conjugate:	This TCIRG1 protein is labelled with Strep Tag.			
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA			

Product Details

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 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 posttranslational 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 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.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System				
	(ALiCE®):				
	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.				
	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.				
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)					
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.				

Application Details

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Restrictions:

For Research Use only

Handling

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)