Datasheet for ABIN3091340

CECR2 Protein (AA 1-1484) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CECR2
Protein Characteristics:	AA 1-1484
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CECR2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MCPEEGGAAG LGELRSWWEV PAIAHFCSLF RTAFRLPDFE IEELEAALHR DDVEFISDLI ACLLQGCYQR RDITPQTFHS YLEDIINYRW ELEEGKPNPL REASFQDLPL RTRVEILHRL CDYRLDADDV FDLLKGLDAD SLRVEPLGED NSGALYWYFY GTRMYKEDPV QGKSNGELSL SRESEGQKNV SSIPGKTGKR RGRPPKRKKL QEEILLSEKQ EENSLASEPQ TRHGSQGPGQ GTWWLLCQTE EEWRQVTESF RERTSLRERQ LYKLLSEDFL PEICNMIAQK GKRPQRTKAE LHPRWMSDHL SIKPVKQEET PVLTRIEKQK RKEEEEERQI LLAVQKKEQE QMLKEERKRE LEEKVKAVEG MCSVRVVWRG ACLSTSRPVD RAKRRKLREE RAWLLAQGKE LPPELSHLDP NSPMREEKKT KDLFELDDDF TAMYKVLDVV KAHKDSWPFL EPVDESYAPN YYQIIKAPMD ISSMEKKLNG GLYCTKEEFV NDMKTMFRNC RKYNGESSEY TKMSDNLERC FHRAMMKHFP GEDGDTDEEF WIREDEKREK RRSRAGRSGG SHVWTRSRDP EGSSRKQQPM ENGGKSLPPT RRAPSSGDDQ SSSSTQPPRE VGTSNGRGFS HPLHCGGTPS QAPFLNQMRP AVPGTFGPLR

GSDPATLYGS SGVPEPHPGE PVQQRQPFTM QPPVGINSLR GPRLGTPEEK QMCGGLTHLS NMGPHPGSLQ LGQISGPSQD GSMYAPAQFQ PGFIPPRHGG APARPPDFPE SSEIPPSHMY RSYKYLNRVH SAVWNGNHGA TNQGPLGPDE KPHLGPGPSH QPRTLGHVMD SRVMRPPVPP NQWTEQSGFL PHGVPSSGYM RPPCKSAGHR LQPPPVPAPS SLFGAPAQAL RGVQGGDSMM DSPEMIAMQQ LSSRVCPPGV PYHPHQPAHP RLPGPFPQVA HPMSVTVSAP KPALGNPGRA PENSEAQEPE NDQAEPLPGL EEKPPGVGTS EGVYLTQLPH PTPPLQTDCT RQSSPQERET VGPELKSSSS ESADNCKAMK GKNPWPSDSS YPGPAAQGCV RDLSTVADRG ALSENGVIGE ASPCGSEGKG LGSSGSEKLL CPRGRTLQET MPCTGQNAAT PPSTDPGLTG GTVSQFPPLY MPGLEYPNSA AHYHISPGLQ GVGPVMGGKS PASHPQHFPP RGFQSNHPHS GGFPRYRPPQ GMRYSYHPPP QPSYHHYQRT PYYACPQSFS DWQRPLHPQG SPSGPPASQP PPPRSLFSDK NAMASLQGCE TLNAALTSPT RMDAVAAKVP NDGQNPGPEE EKLDESMERP ESPKEFLDLD NHNAATKRQS SLSASEYLYG TPPPLSSGMG FGSSAFPPHS VMLQTGPPYT PQRPASHFQP RAYSSPVAAL PPHHPGATQP NGLSQEGPIY RCQEEGLGHF QAVMMEQIGT RSGIRGPFQE MYRPSGMQMH PVQSQASFPK TPTAATSQEE VPPHKPPTLP LDQS

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

Product Details

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:	CECR2
Alternative Name:	CECR2 (CECR2 Products)
Background:	Chromatin remodeling regulator CECR2 (Cat eye syndrome critical region protein 2),FUNCTION: Regulatory subunit of the ATP-dependent CERF-1 and CERF-5 ISWI chromatin remodeling complexes, which form ordered nucleosome arrays on chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (PubMed:15640247, PubMed:26365797, PubMed:28801535, PubMed:22464331). The complexes do not have the ability to slide mononucleosomes to the center of a DNA template (PubMed:28801535). The CERF-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the CERF-5 ISWI chromatin remodeling complex (PubMed:28801535). Plays a role in various processes during development: required during embryogenesis for neural tube closure and inner ear development. In adults, required for spermatogenesis, via the formation of ISWI-type chromatin complexes (By similarity). In histone-modifying complexes, CECR2 recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (PubMed:26365797, PubMed:22464331). May also be involved through its interaction with LRPPRC in the integration of cytoskeletal network with vesicular trafficking, nucleocytosolic shuttling, transcription, chromosome remodeling and cytokinesis

Target Details

	(PubMed:11827465). {ECO:0000250|UniProtKB:E9Q2Z1, ECO:0000269|PubMed:11827465, ECO:0000269|PubMed:15640247, ECO:0000269|PubMed:22464331, ECO:0000269|PubMed:26365797, ECO:0000269|PubMed:28801535}.
Molecular Weight:	164.2 kDa
UniProt:	Q9BXF3
Pathways:	Tube Formation

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 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