

Datasheet for ABIN3091340

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



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1 Image

Overview

Quantity:	1 mg
Target:	CECR2
Protein Characteristics:	AA 1-1484
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CECR2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MCPEEGGAAG LGELRSWWEV PAIAHFCSLF RTAFRLPDFE IEELEAALHR DDVEFISDLI ACLLQGQCYQR RDITPQTFHS YLEDIINYRW ELEEGKPNPL REASFQDLPL RTRVEILHRL CDYRLDADDV FDLLKGLDAD SLRVEPLGED NSGALYWYFY GTRMYKEDPV QGKSNGELS SRESEGQKNV SSIPGKTGKR RGRPPKRKKL QEEILLSEKQ EENSLASEPQ TRHGSQGPQ GTWWLLCQTE EEWQVQTESF RERTSLRERQ LYKLLSEDFL PEICNMIAQK GKRPQRTKAE LHPRWMSDHL SIKPVKQEET PVLTRIEKQK RKEEEEEERQI LLAQVQKKEQE QMLKEERKRE LEEKVKAVEG MCSVRVWVRG ACLSTSRPVD RAKRRKLREE RAWLLAQGKE LPPELSHLDP NSPMREEKKT KDLFELDDDF TAMYKVLVDV KAHKDSWPFL EPVDESYAPN YYQIIKAPMD ISSMEKKLNG GLYCTKEEFV NDMKTMFRNC RKYNGESSEY TKMSDNLERC FHRAMMKHFP GEDGDTDEEF WIREDEKREK RRSRAGRSGG SHVWTRSRDP EGSSRKQQPM ENGGKSLPPT RRAPSSGDDQ SSSSTQPPRE VGTSNGRGFS HPLHCGGTPS QAPFLNQMRP AVPGTFGPLR GSDPATLYGS SGVPEPHPGE PVQQRQPFTM QPPVGINSR GPRLGTPEEK QMCGGLTHLS</p>
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NMGPHPGSLQ LGQISGPSQD GSMYAPAQFQ PGFIPPRHGG APARPPDFPE SSEIPPSHMY
RSYKYLNRVH SAVWNGNHGA TNQGPLGPDE KPHLGPGPSH QPRTLGHVMD SRVMRPPVPP
NQWTEQSGFL PHGVPSSGYM RPPCKSAGHR LQPPPVPAPS SLFGAPAQAL RGVQGGDSMM
DSPEMIAMQQ LSSRVCPPGV PYHPHQPAHP RLPGPFQVA HPMSVTVSAP KPALGNPGRA
PENSEAQEPE NDQAEPLPGL EEKPPGVGTS EGVYLTQLPH PTPPLQTDCT RQSSPQERET
VGPELKSSSS ESADNCKAMK GKNPWPSDSS YGPAAQGCV RDLSTVADRG ALSENGVIGE
ASPCGSEGKG LGSSGSEKLL CPRGRTLQET MPCTGQNAAT PPSTDPGLTG GTVSQFPPLY
MPGLEYPNSA AHYHISPLQ GVGPMGGKS PASHPQHFPF RGFQSNHPS GGFPRYRPPQ
GMRYSYHPPP QPSYHHYQRT PYYACQSF S DWQRPLHPQG SPSGPPASQP PPRSLFSDK
NAMASLQGCE TLNAALTSPT RMDAVAAKVP NDGQNPGE EKLDESMEP ESPKEFLDLD
NHNAATKRQS SLSASELYG TPPPLSSGMG FGSSAFPPHS VMLQTGPPYT PQRPAHFQP
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 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 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 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">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.2. 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)
Grade:	Crystallography grade

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).

Target Details

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 (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. If you have a special request,

Handling

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process