

Datasheet for ABIN3094926

REV1 Protein (AA 1-1251) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	REV1
Protein Characteristics:	AA 1-1251
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This REV1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MRRGGWRKRA ENDGWETWGG YMAAKVQKLE EQFRSDAAMQ KDGTSSSTIFS GVAIYVNGYT</p> <p>DPSAEELRKL MMLHGGQYHV YYSRSKTTHI IATNLPNAKI KELKGEKVIR PEWIVESIKA</p> <p>GRLLSYIPYQ LYTKQSSVQK GLSFNPVCRP EDPLPGPSNI AKQLNNRVNH IVKKIETENE</p> <p>VKVNGMNSWN EEDENNDFFS VDLEQTSPGR KQNGIPHPRG STAIFNGHTP SSNGALKTQD</p> <p>CLVPMVNSVA SRLSPAFSQE EDKAEKSSTD FRDCTLQQLQ QSTRNTDALR NPHRTNSFSL</p> <p>SPLHSNTKIN GAHHSTVQGP SSTKSTSSVS TFSKAAPSV SKPSDCNFIS NFYSHSRLHH</p> <p>ISMWKCELTE FVNTLQRQSN GIFPGREKLK KMKTGRSALV VTDTGDMSVL NSPRHQSCIM</p> <p>HVDMDCFFVS VGIRNRPDLK GKPVAVTSNR GTGRAPLRPG ANPQLEWQYY QNKILKGKAA</p> <p>DIPDSSLWEN PDSAQANGID SVLSRAEIAS CSYEARQLGI KNGMFFGHAK QLCPNLQAVP</p> <p>YDFHAYKEVA QTLYETLAS YTHNIEAVSCD EALVDITEIL AETKLTPDEF ANAVRMEIKD</p> <p>QTKCAASVGI GSNILLARMA TRKAKPDGQY HLPKEEVDDF IRGQLVTNLP GVGHSMESKL</p>

ASLGIKTCGD LQYMTMAKLQ KEFGPKTGQM LYRFCRGLDD RPYRTEKERK SVSAEINYGI
RFTQPKEAEA FLLSLSEIIQ RRLEATGMKG KRLTLKIMVR KPGAPVETAK FGGHGICDNI
ARTVTLDQAT DNAKIIGKAM LNMFHTMKLN ISDMRGVGIH VNQLVPTNLN PSTCPSRPSV
QSSHFPSGSY SVRDVFQVQK AKKSTEEHKK EVFRAAVDLE ISSASRTCTF LPPFPAHLPT
SPDTNKAESS GKWNLGHTPV SVQSRLNLSI EVPSPSQLDQ SVLEALPPDL REQVEQVCAV
QQAESHGDKK KEPVNGCNTG ILPQPVGTVL LQIPEPQESN SDAGINLIAL PAFSQVDPEV
FAALPAELQR ELKAAVDQRQ RQGENSTHQQ SASASVPKNP LLHLKAAVKE KKRNNKKKTI
GSPKRIQSPL NNKLLNSPAK TLPGACGSPQ KLIDGFLKHE GPPAEKPLEE LSASTSGVPG
LSSLQSDPAG CVRPPAPNLA GAVEFNDVKT LLREWITTIS DPMEEDILQV VKYCTDLIEE
KDLEKLDLVI KYMKRLMQQS VESVWNMAFD FILDNVQVVL QQTYGSTLVK T

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!

Product Details

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:	REV1
Alternative Name:	REV1 (REV1 Products)
Background:	DNA repair protein REV1 (EC 2.7.7.-) (Alpha integrin-binding protein 80) (AIBP80) (Rev1-like terminal deoxycytidyl transferase),FUNCTION: Deoxycytidyl transferase involved in DNA repair. Transfers a dCMP residue from dCTP to the 3'-end of a DNA primer in a template-dependent reaction. May assist in the first step in the bypass of abasic lesions by the insertion of a nucleotide opposite the lesion. Required for normal induction of mutations by physical and chemical agents. {ECO:0000269 PubMed:10536157, ECO:0000269 PubMed:10760286, ECO:0000269 PubMed:11278384, ECO:0000269 PubMed:11485998, ECO:0000269 PubMed:22266823}.
Molecular Weight:	138.2 kDa
UniProt:	Q9UBZ9
Pathways:	DNA Damage Repair , Regulation of Actin Filament Polymerization , Production of Molecular Mediator of Immune Response

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

Application Details

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.

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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