

Datasheet for ABIN3135220
Aox2 Protein (AA 1-1345) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Aox2 (AOX2P)
Protein Characteristics:	AA 1-1345
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aox2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPCPAQISDD LEFFVNGRKV TEKNVDPEVT LLAFLRKNLG LTGTKDACGT GGCGACTVMV SQHDPVCKKT RHFSVMACLV PLCSLHGA AV TTEGVGSIK TRLHPVQERI AKSHGTQCGF CTPGMVMSIY TLLRNHPQPS EEQLMEALGG NLCRCTGYRP ILESGRTFCM EPDGCPQKGT GQCCLDQKES DSSGSKSDIC TKLFVKDEFQ PLDPTQELIF PPELLRMAEN PEKQTLTFYG ERITWIAPGT LQELLVLKAK YPEAPLISGN TALGPAMKSQ GHFYPVLLSP ARIPDLRMVT KTSGGLTIGA CCSLAQVKDI LAESISLPQ EKTQTYRALL KHLRSLAGQQ IRNMA SLGGH VISRHCYSDL NPILSVGN TT L NLLSEEGPR QIPLSGHFLA GLASADLKPE EILGSVYIPH SQKREFVSAF RQAQCHQNAL PDVNAGMRVL FREGTDVIEE LSIAYGGVGP TTVSAQRSCQ QLLGRRWNAL MLDEACRLLL DEVSLPGSAL GGVKVEFRRTL IVSLFFKFYL EVLQELKADQ KLPPESTDSQ RYPEIADRFL SSLGDFQVTL PRGVQTYQRV DSHQPLQDPV GRPIMHLSGL KHATGEAVFC DDIPRVKEL FMALVTSTRA HARIISIDSS EVLDLPGVVD VITAEDIPGN

NGEEDDKLLA VDKVLCVGQV ICAVVAETDV QAKRATEKIK ITYEDLKPVI FTIEDAIKHN
SFLCPEKKLE QGNIEEAFEN VDQVAEGTVH VGGQEHFYME TQRVLVIPKT EDKELDMYVS
TQDPAHVQKT VSSTLNIPIS RITCHVKRVG GFGGKVGSRP AVFGAIAAVG AVKTGHPIRL
VLDREDDMLI TGGRHPLFAK YKVGFMNSGR IKALDIECYI NGGCTLDDSE LVTEFLVLKL
ENAYKIRNLR LRGRACMTNL PSNTAFRGFG FPQALVTES CITAVAAKCG LPPEKIREKN
MYKTVDKTIY KQAFNPDLI RCWNECLDKS SFHIRRTRVD EFNKKSYPWK RGIIVPMKF
SVGFAATSYH QAAALVHIYT DGSVLVAHGG NELGQGIHTK MLQVASRELK IPLSYLHICE
TSTTTVPNTI ATAASVGADV NGRAVQNACQ ILLKRLEPVI KKNPEGTWRD WIEAAFEKRI
SLSATGYFRG YKAFMDWEKG EGDPPFYVY GAACSEVEID CLTGAHKIR TDIVMDACCS
LNPAIDIGQI EGAFIQMGL YTTEELLYSP EGVLYSRSPD KYKIPTVTDV PEQFNVSLLP
SSQTPLTLYS SKGLGESGMF LGSSVFFAIV DAVAAARRQR DIAEDFTVKS PATPEWVRMA
CADRFTDMIP RDDPKTFKPW SIPIA

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

Product Details

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:	Aox2 (AOX2P)
Alternative Name:	Aox2
Background:	Aldehyde oxidase 2 (EC 1.2.3.1) (Aldehyde oxidase homolog 3) (Azaheterocycle hydroxylase 2) (EC 1.17.3.-),FUNCTION: Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as phthalazine, as well as aldehydes, such as benzaldehyde and retinal. Cannot use hypoxanthine as substrate. {ECO:0000269 PubMed:15383531}.
Molecular Weight:	147.9 kDa
UniProt:	Q5SGK3

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 <i>Nicotiana tabacum</i> 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

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.
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