

Datasheet for ABIN3092212 DYRK2 Protein (AA 1-601) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DYRK2
Protein Characteristics:	AA 1-601
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DYRK2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MLTRKPSAAA PAAYPTGRGG DSAVRQLQAS PGLGAGATRS GVGTGPPSPI ALPPLRASNA
	AAAAHTIGGS KHTMNDHLHV GSHAHGQIQV QQLFEDNSNK RTVLTTQPNG LTTVGKTGLP
	VVPERQLDSI HRRQGSSTSL KSMEGMGKVK ATPMTPEQAM KQYMQKLTAF EHHEIFSYPE
	IYFLGLNAKK RQGMTGGPNN GGYDDDQGSY VQVPHDHVAY RYEVLKVIGK GSFGQVVKAY
	DHKVHQHVAL KMVRNEKRFH RQAAEEIRIL EHLRKQDKDN TMNVIHMLEN FTFRNHICMT
	FELLSMNLYE LIKKNKFQGF SLPLVRKFAH SILQCLDALH KNRIIHCDLK PENILLKQQG
	RSGIKVIDFG SSCYEHQRVY TYIQSRFYRA PEVILGARYG MPIDMWSLGC ILAELLTGYP
	LLPGEDEGDQ LACMIELLGM PSQKLLDASK RAKNFVSSKG YPRYCTVTTL SDGSVVLNGG
	RSRRGKLRGP PESREWGNAL KGCDDPLFLD FLKQCLEWDP AVRMTPGQAL RHPWLRRRLP
	KPPTGEKTSV KRITESTGAI TSISKLPPPS SSASKLRTNL AQMTDANGNI QQRTVLPKLV S
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 fo 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:

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custom-made

Target:	DYRK2
Alternative Name:	DYRK2 (DYRK2 Products)
Background:	Dual specificity tyrosine-phosphorylation-regulated kinase 2 (EC 2.7.12.1), FUNCTION:
	Serine/threonine-protein kinase involved in the regulation of the mitotic cell cycle, cell
	proliferation, apoptosis, organization of the cytoskeleton and neurite outgrowth. Functions in
	part via its role in ubiquitin-dependent proteasomal protein degradation. Functions downstream
	of ATM and phosphorylates p53/TP53 at 'Ser-46', and thereby contributes to the induction of
	apoptosis in response to DNA damage. Phosphorylates NFATC1, and thereby inhibits its
	accumulation in the nucleus and its transcription factor activity. Phosphorylates EIF2B5 at 'Ser-
	544', enabling its subsequent phosphorylation and inhibition by GSK3B. Likewise,
	phosphorylation of NFATC1, CRMP2/DPYSL2 and CRMP4/DPYSL3 promotes their subsequent
	phosphorylation by GSK3B. May play a general role in the priming of GSK3 substrates.
	Inactivates GYS1 by phosphorylation at 'Ser-641', and potentially also a second phosphorylation
	site, thus regulating glycogen synthesis. Mediates EDVP E3 ligase complex formation and is
	required for the phosphorylation and subsequent degradation of KATNA1. Phosphorylates
	TERT at 'Ser-457', promoting TERT ubiquitination by the EDVP complex. Phosphorylates SIAH2,
	and thereby increases its ubiquitin ligase activity. Promotes the proteasomal degradation of
	MYC and JUN, and thereby regulates progress through the mitotic cell cycle and cell
	proliferation. Promotes proteasomal degradation of GLI2 and GLI3, and thereby plays a role in
	smoothened and sonic hedgehog signaling. Plays a role in cytoskeleton organization and
	neurite outgrowth via its phosphorylation of DCX and DPYSL2. Phosphorylates
	CRMP2/DPYSL2, CRMP4/DPYSL3, DCX, EIF2B5, EIF4EBP1, GLI2, GLI3, GYS1, JUN, MDM2,
	MYC, NFATC1, p53/TP53, TAU/MAPT and KATNA1. Can phosphorylate histone H1, histone H3
	and histone H2B (in vitro). Can phosphorylate CARHSP1 (in vitro).
	{ECO:0000269 PubMed:11311121, ECO:0000269 PubMed:12588975,
	ECO:0000269 PubMed:14593110, ECO:0000269 PubMed:15910284,
	ECO:0000269 PubMed:16511445, ECO:0000269 PubMed:16611631,
	ECO:0000269 PubMed:17349958, ECO:0000269 PubMed:18455992,
	ECO:0000269 PubMed:18599021, ECO:0000269 PubMed:19287380,
	EC0:0000269 PubMed:22307329, EC0:0000269 PubMed:22878263,
	ECO:0000269 PubMed:23362280, ECO:0000269 PubMed:9748265}.
Molecular Weight:	66.7 kDa
UniProt:	Q92630
Pathways:	Regulation of Carbohydrate Metabolic Process

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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