

Datasheet for ABIN7553302

CDK12 Protein (AA 1-1490) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CDK12 (CRKRS)
Protein Characteristics:	AA 1-1490
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK12 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CDK12 Protein expressed in mammalian cells.
Sequence:	<p>MPNSERHGGK KDGSGGASGT LQPSSGGGSS NSRERHRLVS KHKRHKSKHS KDMGLVTPEA</p> <p>ASLGTVIKPL VEYDDISSDS DTFSDDMAFK LDRRENDERR GSDRSDDLHK HRHHQHRRSR</p> <p>DLLKAKQTEK EKSQEVSSKS GSMKDRISGS SKRSNEETDD YGKAQVAKSS SKESRSSKLH</p> <p>KEKTRKEREL KSGHKDRSKS HRKRETPKSY KTVDSPKRRS RSPHRKWSDS SKQDDSPSGA</p> <p>SYGQDYDLSP SRSHTSSNYD SYKKSPGSTS RRQSVPPYK EPSAYQSSTR SPSPYSRRQR</p> <p>SVSPYSRRRS SSYERSGSYS GRSPSPYGRR RSSSPFLSKR SLSRSPSPSR KSMKSRSRSP</p> <p>AYSRHSSSHS KKKRSSRSR HSSISPVRLP LNSSLGAELS RKKKRAAAA AAKMDGKES</p> <p>KGSPVFLPRK ENSSVEAKDS GLESKKLPRS VKLEKSAPDT ELVNVTHLNT EVKNSSDTGK</p> <p>VKLDENSEKH LVKDLKAQGT RDSKPIALKE EIVTPKETET SEKETPPPLP TIASPPPLP</p> <p>TTTPPPQTPP LPPLPIPAL PQQPPLPPSQ PAFSQVPASS TSTLPPSTHS KTSAVSSQAN</p> <p>SQPPVQVSVK TQVSVTAAIP HLKTSTLPLP PLPPLPGDD DMDSPKETLP SKPVKKEKEQ</p>

RTRHLLTDLP LPPELPGGDL SPPDSPEPKA ITPPQQPYKK RPKICCPRYG ERRQTESDWG
KRCVDKFDII GIIGEGTYGQ VYKAKDKDTG ELVALKKVRL DNEKEGFPIT AIREIKILRQ
LIHRSVVNMK EIVTDKQDAL DFKKDKGAFY LVFEYMDHDL MGLLESGLVH FSEDHIKSFM
KQLMEGLEYC HKKNFLHRDI KCSNILLNNS GQIKLADFGL ARLYNSEESR PYTNKVITLW
YRPPELLLGE ERYTPAIDVW SCGCILGELF TKKPIFQANL ELAQLELISR LCGSPCPAVW
PDVIKLPYFN TMKPKKQYRR RLREEFSFIP SAALDLLDHM LTLDPSCRCT AEQTLQSDFL
KDVELSKMAP PDLPHWQDCH ELWSKKRRRQ RQSGVVVEEP PPSKTSRKET TSGTSTEPVK
NSSPAPPQPA PGKVESGAGD AIGLADITQQ LNQSELAVLL NLLQSQTDLN IPQMAQLLNI
HSNPEMQQL EALNQSISAL TEATSQQQDS ETMAPEESLK EAPSAPVILP SAEQTTLEAS
STPADMQNIL AVLLSQLMKT QEPAGSLEEN NSDKNSGPQG PRRTPTMPQE EAAACPPHIL
PPEKRPPEPP GPPPPPPPPP LVEGDLSSAP QELNPAVTAA LLQLLSQPEA EPPGHLPEH
QALRPMEYST RPRPNRTYGN TDGPETGFSA IDTDERNSGP ALTESLVQTL VKNRTFSGSL
SHLGESSSYQ GTGSVQFPGD QDLRFARVPL ALHPVVGQPF LKAEGSSNSV VHAETKLQNY
GELGPGTTGA SSSGAGLHWG GPTQSSAYGK LYRGPTRVPP RGGGRGVVY **Sequence without**
tag. The proposed Purification-Tag is based on experiences 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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CDK12 (CRKRS)
Alternative Name:	CDK12 (CRKRS Products)
Background:	<p>Cyclin-dependent kinase 12 (EC 2.7.11.22) (EC 2.7.11.23) (Cdc2-related kinase, arginine/serine-rich) (CrkRS) (Cell division cycle 2-related protein kinase 7) (CDC2-related protein kinase 7) (Cell division protein kinase 12) (hCDK12),FUNCTION: Cyclin-dependent kinase that phosphorylates the C-terminal domain (CTD) of the large subunit of RNA polymerase II (POLR2A), thereby acting as a key regulator of transcription elongation. Regulates the expression of genes involved in DNA repair and is required for the maintenance of genomic stability. Preferentially phosphorylates 'Ser-5' in CTD repeats that are already phosphorylated at 'Ser-7', but can also phosphorylate 'Ser-2'. Required for RNA splicing, possibly by phosphorylating SRSF1/SF2. Involved in regulation of MAP kinase activity, possibly leading to affect the response to estrogen inhibitors. {ECO:0000269 PubMed:11683387, ECO:0000269 PubMed:19651820, ECO:0000269 PubMed:20952539, ECO:0000269 PubMed:22012619, ECO:0000269 PubMed:24662513}.</p>
Molecular Weight:	164.2 kDa
UniProt:	Q9NYV4

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months