

Datasheet for ABIN7563636

CDK12 Protein (AA 1-1484) (His tag)



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Overview

Quantity:	1 mg
Target:	CDK12 (CRKRS)
Protein Characteristics:	AA 1-1484
Origin:	Mouse
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 SQPSSGGGSS NSRERHRLVS KHKRHKSKHS KDVGLVTPEA</p> <p>ASLGTIIKPL VEYDDISSDS DTFSDDTAFK SDRRENEERR GTDRSDRLHR HRHHQHRRSR</p> <p>DLLKTKQTEK EKNQEVSKSG SMKDRVSGSS KRSVEGSDDY GKAQLSKSGS KESRSSKMHK</p> <p>EKTRKERELK SGYKDRSKSH RKRETPKSYK TVASPKRRSR SPHRKWSDSS KQDDSPSGAS</p> <p>YGQDYDLSP RSHTSSNYDS YKKSPGSTSR RQSISPPYKE PSAYQSSTRS PSPYSRRQRS</p> <p>VSPYSRRRSS SYERGSYSG RSPSPYGRRR SSSPFLSKRS LSRSPGPSRK SMKSRSRSPA</p> <p>YSRHSSSHSK KKRSGSRSRH SSISPVRLPL NSSLGAELSR KKKERAAAAA AAKMDGKESK</p> <p>SSPIILPKKE KLEVKESGLE SKKLPRSIKS EKSTPDTELV TVAHSNPEVK HCLDTGKVRL</p> <p>DENLQKHPAK DLKAQGTKDV KPVAPKEVIV TSKETETSEK ETLPLPTIT SPPPLPATTP</p> <p>PPQTPPLPPL PPLPAIPLQP PLPPPQPPFS QVPVSSTSIL PSSPHRTST LSSQTNSQPP</p> <p>VQVSMKTQVS ITAAIPHLKT STLPLPLPP LLPGDDDMDS PKETLPSKPA KKEKEQRTRH</p>

LLTDLPLPPE LPGGDPSPPD SPEPKAITPP QQPYKKRPKI CCPRYGERRQ TESDWGKRCV
DKFDIIGIIG EGTYGQVYKA KDKDTGELVA LKKVRLDNEK EGFPITAIRE IKILRQLVHQ
SVVNMKEIVT DKQDALDFKK DKGAFYLVFE YMDHDLMLGGL ESGLVHFSED HIKSFMKQLM
EGLDYCHKKN FLHRDIKCSN ILLNNSGQIK LADFGRLARLY NSEESRPYTN KVITLWYRPP
ELLLGEERYT PAIDVWSCGC ILGELFTKKP IFQANLELAQ LELISRLCGS PCPAVWPDVI
KLPYFNTMKP KKQYRRRLRE EFSFIPSAAL DLLDHMLTLD PSKRCTAEQT LQSDFLKDVE
LSKMAPPDLP HWQDCHELWS KKRRRQRQSG IVIEDPPPSK ASRKETTSGT TAEPVKNNSP
APPQPAPVKA EPGPGDAVGL GDITQQLNQS ELAVLLNLLQ SQTDL SIPQM AQLLNHNSP
EMQQQLEALN QSISALTEAS SQQQDSESA PEESLKEVPS VPVVLPPAEQ TTPEASNTPA
DMQNVLAVLL SQLMKTQEPG GNLEENTNDK NSGPQGPRRT PTMPQEEAAA CPPHILPPEK
RPPEPPGPPP PPPPPPLVEG DLSSAPQELN PAVTAALLQL LSQPEAEPPG HLPHEHQALR
PMEYSTRSHP NRTYGNTDGP ETGFSSADTD ERSSGPALTE SLVQTPVKNR TFGSGVSHLG
ESNSYQGTGS VQFPGDQDLR FTRVPLALHS VVGQPFLKSE GNSNSVVAE TKLQNYGELG
PGTTGANSSG TTLQWGGPAQ SYGKPYRGAA RVLPRGGRGR GVPY **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:	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),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:22012619}.
Molecular Weight:	163.7 kDa
UniProt:	Q14AX6

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