

Product datasheet for **TP302442M**

CDC45L (CDC45) (NM_003504) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CDC45 cell division cycle 45-like (<i>S. cerevisiae</i>) (CDC45L), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202442 protein sequence Red=Cloning site Green=Tags(s)

MFVSDFRKEFYEVVQSQRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQELETAFLEHKEQFH
YFILINCGANVDLLDILQPDEDTIFFVCDTHRPVNVVNVYNDTQIKLLIKQDDLEVPAYEDIFRDEEED
EEHSGNDSGSEPSEKRTRLEEEIVEQTMRRRQRREWEARRRDILFDYEQYEHGTSSAMVMFELAWMLS
KDLNDMLWWAIVGLTDQWVQDKITQMKYVTDVGLVQRHVSRRHNHRNEDEENTLSVDCTRISFEYDLRLVL
YQHWSLHDSL CNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFQAMDISLKENLREMIIESANK
FGMKDMRVQTFSIHFGFKHKFLASDVVFATMSLMESPEKDGSGTDHFIQALDSLRSNLDKLYHGLELAK
KQLRATQQTIASCLCTNLVISQGPFLYCSLMEGTPDVMLFSRPASLSLLSKHLLKSFVCSTKNRRCKLLP
LVMAAPLSMEHGTVTVVGIPPETDSSDRKNFFGRAFEKAAESTSSRMLHNFHDLVIELKAEDRSKFLDA
LISLLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	65.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003495
Locus ID:	8318
UniProt ID:	O75419
RefSeq Size:	1998
Cytogenetics:	22q11.21
RefSeq ORF:	1698
Synonyms:	CDC45L; CDC45L2; MGORS7; PORC-PI-1
Summary:	The protein encoded by this gene was identified by its strong similarity with <i>Saccharomyces cerevisiae</i> Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in <i>Xenopus</i> suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle

Product images:



Coomassie blue staining of purified CDC45 protein (Cat# [TP302442]). The protein was produced from HEK293T cells transfected with CDC45 cDNA clone (Cat# [RC202442]) using MegaTran 2.0 (Cat# [TT210002]).