

Product datasheet for **SC319745**

Cyclin H (CCNH) (NM_001239) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin H (CCNH) (NM_001239) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin H
Synonyms:	CAK; Cych; p34; p37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001239.2
 GGGGGTGGGGTACGGGTGTTTTACGCCAGGACGCTGATGCGTTGGGTCTCGTCTGC
 AGACCCTCTGGACCTGGTCACGATTCCATAATGTACCACAACAGTAGTCAGAAGCGGCAC
 TGGACCTTCTCCAGCGAGGAGCAGCTGGCAAGACTGCGGGCTGACGCCAACCGCAAATTC
 AGATGCAAAGCCGTGGCCAACGGGAAGGTTCTTCCGAATGATCCAGTCTTTCTTGAGCCT
 CATGAAGAAATGACACTCTGCAAATACTATGAGAAAAGGTTATTGGAATTCTGTTCCGGT
 TTTAAGCCAGCAATGCCAAGATCTGTTGTGGGTACGGCTTGATGATTTCAAACGTTTT
 TATCTTAATAACTCAGTAATGGAATATCACCCAGGATAATAATGCTCACTTGTGCATTT
 TTGGCCTGCAAAGTAGATGAATTCAATGTATCTAGTCCTCAGTTTGTGGAAACCTCCGG
 GAGAGTCTCTTGACAGGAGAAGGCCTTGAACAGATACTGGAATATGAACTACTTCTT
 ATACAGCAACTTAATTTCCACCTTATTGTCCACAATCCTTACAGACCATTTGAGGGCTTC
 CTCATCGACTTAAAGACCCGCTATCCCATATTGGAGAATCCAGAGATTTGAGGAAAACA
 GCTGATGACTTTCTTAATAGAATTGCATTGACGGATGCTTACCTTTTATACACGCCTTCC
 CAAATTGCCCTGACTGCCATTTTATCTAGTGCCTCCAGGGCTGGAATTACTATGGAAGT
 TATTTATCAGAGAGTCTGATGCTGAAAGAGAACAGAATTGCCTGTCACAGTTACTAGAT
 ATAATGAAAAGCATGAGAACTTAGTAAAGAAGTATGAACCCAGATCTGAAGAAGTT
 GCTGTTCTGAAACAGAAGTTGGAGCGATGTCATTCTGCTGAGCTTGCCTAACGTAATC
 ACGAAGAAGAGGAAAGGCTATGAAGATGATGATTACGTCCTCAAAGAAATCCAAACATGAG
 GAGGAAGAGTGGACTGATGACGACCTGGTAGAATCTCTAACCATTTGAAGTTGATTTCC
 TCAATGCTAACTAATCAAGAGAAGTAGGAAGCATATCAAACGTTTAACTTTATTTAAAAA
 GTATAATGTGAAAACATAAAATATATTAATAAATTTTCTATTGTTTTCTTTCCCTTTCACA
 GTAACCTTATGTAATAAACCATCTTCAAAGAGCTAGAATACCAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_001239



[View online »](#)

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001239.2</u> , <u>NP_001230.1</u>
RefSeq Size:	1398 bp
RefSeq ORF:	972 bp
Locus ID:	902
UniProt ID:	<u>P51946</u>
Cytogenetics:	5q14.3
Domains:	CYCLIN, cyclin
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Cell cycle, Nucleotide excision repair

Gene Summary:

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK7 kinase and ring finger protein MAT1. The kinase complex is able to phosphorylate CDK2 and CDC2 kinases, thus functions as a CDK-activating kinase (CAK). This cyclin and its kinase partner are components of TFIIH, as well as RNA polymerase II protein complexes. They participate in two different transcriptional regulation processes, suggesting an important link between basal transcription control and the cell cycle machinery. A pseudogene of this gene is found on chromosome 4. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Nov 2010]

Transcript Variant: This variant (1) differs in the 3' UTR and coding sequence compared to variant 3. The resulting isoform (1) has a shorter and distinct C-terminus compared to isoform 3.