

## Product datasheet for MR204705

### Ccnh (NM\_023243) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnh (NM_023243) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccnh
Synonyms:	6330408H09Rik; AI661354; AV102684; AW538719
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204705 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTATCACAGCAGCAGCCAGAAACGGCACTGGACCTTCGCTAGCGAGGAGCAGCTGGCGGCCTGCGGG  
CGGACGCCAACCGCAAATCAAGTGCAAAGCTGTGGCTAACGGGAAGGTTCTTCCAAATGATCCAGTGT  
TCTGGAGCCTCATGAAGAATTGACACTTTCGCAAGTACTATGAAAAAGATTATTGGAATCTGTTCAGTG  
TTTAAACCAGCTATGCCACGGTCTGTTGTGGGTACAGCTTGTATGATTTCAAGCGTTTTTATCTTAATA  
ACTCAGTAATGGAATATCACCTCGGATAATAATGCTTACTTGTGCATTTTTGGCCTGCAAAGTAGATGA  
ATTCAATGTGTCTAGTCCCAGTTTGTGGAAATCTTCGAGAGAGTCTCTTGGACAGGAGAGGGCACTG  
GAACAGATTTTGAATATGAACTACTACTTATACAACAACCTAATTTTACCTTATTGTCCACAATCCAT  
ACAGACCATTTGAAGGCTTCTCATCGATATAAAGACTCGGTACCCCATGTTGGAGAATCCGGAGATTCT  
GAGGAAAACAGCTGATGATTTTCTAGTAGAATTGCATTGACAGATGCTTATCTTTATACACACCTTCA  
CAGATTGCCCTGACCGCCATTTTATCAAGTGCCTCTAGAGCTGGAATTACTATGAAAAGCTACTTATCAG  
AGAGTCTAATGCTAAAAGAAAACAGAACCTGCCTGTCACAGTTACTGGATATAATGAAAAGCATGAGAAA  
TCTAGTAAAAAAGTACGAGCCGCCAGGTTCTGACGAGGTTGCTGTCTGAAACAGAAGCTGGAGCCGGTGT  
CATTCTTCTGACCTTGCCTTAATGCGGTTACGAAGAAGAGGAAAGGCTATGAAGATGATGACTATGTGT  
CAAAGAAACCCAAACAGGAAGAGGAGGAATGGACTGATGACGACCTGGTAGATTCTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204705 protein sequence  
 Red=Cloning site Green=Tags(s)

MYHSSSQKRHWTFASEEQLARLRADANRKFCKAVANGKVL PNDPVFLEPHEEL TLCKYYEKRLLEFCSV  
 FKPAMPRSVVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNVSSPQFVGNLRESPLGQERAL  
 EQILEYELLLIQLNFHLIVHNPYRPFEGFLIDIKTRYPMLENPEILRKTADDFLSRIAL TDAYLLYTPS  
 QIALTAILSSASRAGITMESYLSLMLKENRTCLSQLLDIMKSMRNLVKKYEPPRSDEVAVLKQKLERC  
 HSSDLALNAVTKKRKGYEEDDYVSKPKQEEEEWTDDDLVDSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023243

**ORF Size:** 972 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_023243.6](#)

**RefSeq Size:** 1976 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 66671

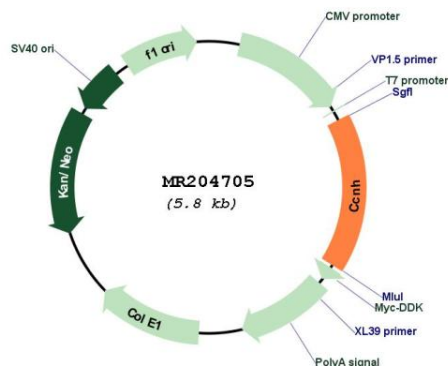
**UniProt ID:** [Q61458](#)

**Cytogenetics:** 13 C3

**MW:** 37.5 kDa

**Gene Summary:** Regulates CDK7, the catalytic subunit of the CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIF basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminal domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204705