

## Product datasheet for MR209007

### Chaf1b (NM\_028083) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chaf1b (NM_028083) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chaf1b
Synonyms:	2600017H24Rik; C76145; CAF-I p60; CAF-Ip60; CAF1; CAF1A; CAF1P60; MPHOSPH7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR209007 representing NM_028083 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCAGGGAACCTCACATGGGTGTCAGAGTTTGTCTTCCTGGGTTCTCAGAGATCTGGGAGCTTC  
AGGTCTTCCTGTTTGTGGTGTCTTGTGTGTCTACAGCACGACCGTGGTGGAAACCTCCTCATCATAGT  
TACGGTTTCTCAGACCCAGGCTCCACACACCTATGTAATTCCTGCTCCGCAACCTGGTGTCTTAGAC  
CTCTGCTTCTCCTCAGTCACTGCCCCAAGATGCTGGTGGACTTCTCTCTGAGAAGAAGACTATCTCCT  
ACCGAGGTGCATGGTACAGATCTTCTTCTCCACTTCTGGGAGGGCCATGGTCTTCTCCTCTCAGT  
AATGGCTTATGACCGCTGGTGGCTATTTCCGACCTCTCCACTATGTCACCATCATGAACAGCCAGCTT  
TGTATGGGGCTGGTGGTGGCTTCTGGGTAGGAGGCTTTGCCACTCGATTGTCCAGCTGTCTCTGATGC  
TCCCGTTGCCGTTCTGTGGACCAATGTCTGGATAAATTCTACTGTGATGTCCCAAGTACTGAGACT  
TGCTTGCATGGACACCTCCCTCTGGAGTTCCTCATGATCTCCAACAGTGGGATGCTGGATGTCATCTGG  
TTCTTTCTCCTTCTCATCTCCTACTTGGTCATCTGGTGTCTATGATCTTCAATCCAAGCATTACCT  
GATGCCCGGCCCTTACCCCCTTACCCATGGACAAGGCTGTGTCCATCAGCCATACGGTCATGACCCCC  
ATGCTCAACCCCATGATCTACACGCTCAGGAACCAGGAGATGCAGGCAGCCATGAAGAGACTAGCAAAGC  
GCTTAGCGCTTTGCAACAGGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR209007 representing NM\_028083  
Red=Cloning site Green=Tags(s)

MEPGNLTWSEFVFLGFSEIWELQVFLFVVFLCVYSTTVVGNLLIIVTVSSDPR LHTPMYFLLRNLAVLD  
 LCFSSVTAPKMLVDFLSEKKTISYRGC MVQIFFHFLGGAMVFFLSVMAYDR LVAISRPLHYVTIMNSQL  
 CMGLVVASWVGGFAHSIVQLSLMLPLFCGPNVLDNFYCDVPQVLR LACMDTSLLEFLMISNSGMLDVIW  
 FFLLLISYLVILVMLRSHSGEARRKAASTCTTHIIVVS MIFIPSIYLYARPFTPF TMDKAVSISHTVMTP  
 MLNPMIYTLRNQEMQAAMKRLAKRLALCNRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9022\\_g09.zip](https://cdn.origene.com/chromatograms/mm9022_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_028083

**ORF Size:** 933 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\\_028083.1](#), [NP\\_082359.1](#)

**RefSeq Size:** 1913 bp

**RefSeq ORF:** 1719 bp

**Locus ID:** 110749

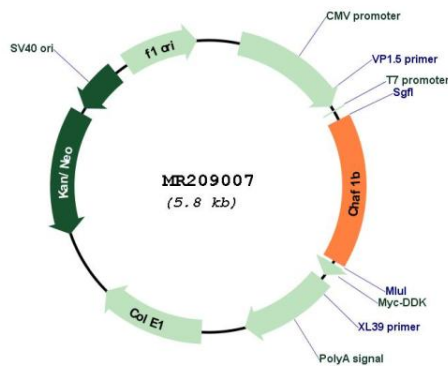
**UniProt ID:** [Q9D0N7](#)

**Cytogenetics:** 16 54.96 cM

**MW:** 63.6 kDa

**Gene Summary:** Complex that is thought to mediate chromatin assembly in DNA replication and DNA repair. Assembles histone octamers onto replicating DNA in vitro. CAF-1 performs the first step of the nucleosome assembly process, bringing newly synthesized histones H3 and H4 to replicating DNA; histones H2A/H2B can bind to this chromatin precursor subsequent to DNA replication to complete the histone octamer (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209007