

Product datasheet for **MC222524**

Chaf1a (NM_013733) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chaf1a (NM_013733) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chaf1a
Synonyms:	AL023013; AL024058; Cac1p; CAF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222524 representing NM_013733
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGAGGAGCCGGAGGCCGCGACGCGGACAGCCGCGCCGCTGGATTGCAAAGACAGACCCGGTTCC
 CAGTGAAGAGGTTAATACAAGCCCGCTTCCCTTCAAACGCCTGAACCTGTTCCCAAGGAGAAAGTTGA
 GGAAGACACATCACAAAAGCAGCTGTGAAAAGCAAAGTCCCGGATCTACAATTGCTTTGGGCACTTTT
 GAAAGCCAGTGTACACAGGCTCTCACGTAGGCTTGAGTACAAAGTTGGTCGGTGCCAGGGCCCCATTG
 ATAGCTTCTTGAGGGCAACAATCAAGCCAGTACCGAGTGTGGTATTATCGACCTGACGGAGAACTGCAG
 TGACATTCAGACAGCCCTGAGGGCCACAGTGAACCTAAGTCTGACACTGCTGGTGTGGTACCACAGTG
 GAAGGAGTGCCTAAGCAGCAGGAGCACTCTGCAGCAGAGCTGTGTCTCTAGAGACCCCTTCAGACATCA
 CTTGTACATGGAAGAGGAGCCTGGGAGTCCAGGAGACCCAAAGAGGACGGGTGACTGTCAGGCTGGTTC
 ACTACAGAGCTGTCCGGAGCTGACCCAGGTTCTAGGACATGCCCAAGGAGTTATCAAGCTGGAGC
 AAGGCAGGGGATCTCCTATTTATAGAGAAAGTGCCTGTGGTGGTCTAGAGGACATCCTGGCCACTAAGC
 CCTCCATTGCCTCTTCCCATGATGTCCTGGATAGGAGTGTCACTTCAGAGAGTGAAATACTGGAGTC
 CTGCCCGAGGATGACTCCATACTGAGCCACTCCTCCACCAACTCCTTCTCCAACCAGCTCTCCTGAG
 GGACATCCACACCCCGAGAACAACCGGGTGGGAGAAGCTCCCCCTCCACCCAGCTGCAGAGTTGCCA
 AGAACTTTGTCAAAGGCTCCACAGAGAAGGGCAGGAGCAAAGTGCACAGAGATAGAGAACAGCAGAGGGA
 AGAGAAGGAAAAGCTGAGGGAAGAGATACGACGAGCCAAGGAGGAGGCACGGAAGAAGAAGGAGGAGGAG
 AAGGAGCTGAAGGAAAAGGAGCGGAGGGAAAAGCGGGAGAAGATGAGAAGGAGAAGCGGAGAAGCAGC
 GGCTAAAGGAGGAAAAACGCAAGGAGCGGCAGGAAGCTCTGGAGGCTAACTGGAGGAGAAGGGAAGAA
 GGAGGAAGAGAAGCGGTTACGGGAGGAAGAGAAGCGGTTACGGGAAGAAGAGAAGCGCATTAAAGGCAGAA
 AAGGCAGAGATCACTCGATTCTTCCAGAAAACCAAGACTCCGCGAGCTCCCAAGACCCTGGCCGGTCTCT
 GTGGTAAGTTTGCCTTTGAAATCAAAGAACACATGGTGTGGCTCCACGGTGCAGCTGCCTTGGAA
 TCAAGACCTGTGCGATCAGCTGGACCAGCTCCTGCAGCAGCAGAGTGTGGCAAGCACCTTCTCAGTGAC
 CTAAAAAGCCGGTGCCTTGTAGATCGGGGCCACCCGGGTCTGTGGCCATGACACAGACATCATGAACA
 GGGATGTGGTATTGTGGAGAGCAGCAAGGTGGACGGTGTGTCTGAAAGGAAGAAGTTTGGCCGATGAA
 GCTTCTGCAGTTCTCAGAGAACCACCGCCAGCATACTGGGGACGTGGAACAAGAAGACAGCCATCATC
 CGCCCCGGAACCCTGGGCCAGGACAAAGACCTTCTTACTATGAGGTAGACAGTGCAGATGAGTGGG
 AAGAGGAGGAACCTGGGGAGTCTTTGTCCACAGTGGGGGATGAGGATGACGATGTGGGGGAAGATGA
 GGATGAGGACGATGGCTTCTTTGTGCCCATGGTACTTATCTGAAGATGAAGGCGTGACTGAGGAGTGT
 GCAGACCTGAGAACCACAAAGTACACCAGAAGCTGAAGGCCAAGGAGTGGGATGAGCTCTAGCCAAGG
 GCAAGCGCTTTCGTGTGCTGCAGCCTGTGCACGTGGGATGTGTATGGGCATCAGAGGCAGCCAAGTGCAC
 GAGTTCGACTTGAAGCTGCTGCAGCAGTTCACATGCATGCCTGCTGGATGTGGCATCCCTGATGAGCCA
 GAACCCGGGGCTCCAGGAGGAAAAGAGGGACCAGCATATCCTGGCCAGTTGCTTCCGCTGCTACATG
 GCAATGTGAATGGGAGCAAGGTGATCATCCATGAATCCAGGAGCAATGCCGAGGGGCTGCTGACCCT
 TCCAAGTCCCACCCACACCTGCAGATGCCCAACTTGGAGGATGCTGTTGCTGTGCCATCCAAGGCCAGG
 CTGAAGCGCCTTATCTCTGAGAACTCTGCCTATGAGAAGCGGCCCAACTTCCGTATGTGCTGGTATGTGC
 ACCCAGAGGTGCTCAAGAGCTTTGGCCAGGAGTGCTGCCAGTGCCCTGCCAGTGACCTACATCACCAC
 CATGCCCTCAGCACCCAGGGAAGACAGTGGCAGTGCTTCTACTGAGGGGCTGGCCAGAGCACACCTATG
 CTAAGCGGAAGCCAGCGGCCACCATGTGCATCACGCAGTTTATGAAGAAGCGGCGCTATGATGGAC
 AGGTTGGGTCTGGGGACATGGATGGCTTCCAGGCAGACACAGAAGAGGATGAAGAGGATGACACAGACTG
 TATGATCATAGATGTGCCAGATGTTGGGAGTGACGTGTCAGAAGCTCCCATACCTGCTCCACACTTTGC
 AAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_013733
Insert Size:	2736 bp
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).
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:	NM_013733.3 , NP_038761.1
RefSeq Size:	3308 bp
RefSeq ORF:	2736 bp
Locus ID:	27221
UniProt ID:	Q9QWF0
Cytogenetics:	17 D
Gene Summary:	Core component of the CAF-1 complex, a complex 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. CHAF1A binds to histones H3 and H4. It may play a role in heterochromatin maintenance in proliferating cells by bringing newly synthesized cbx proteins to heterochromatic DNA replication foci.[UniProtKB/Swiss-Prot Function]