

## Product datasheet for **MG209007**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chaf1b (NM_028083) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chaf1b
Synonyms:	2600017H24Rik; C76145; CAF-I p60; CAF-Ip60; CAF1; CAF1A; CAF1P60; MPHOSPH7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209007 representing NM\_028083  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAGTGATCACGTGTGAAATCGCCTGGCACAAACAAGGAGCCAGTGTACAGCCTGGACTTCCAGCATG  
 GGGCAACCTGGAAGATCCACAGGCTGGCATCCGCGGGGGTGGACACCGCGTCAGGATCTGGAAGTTGGA  
 GAGGGGGCCAGATGGAAAGCCATTGTGGAATTTCTCTCCAATCTTGCTCGACACACAAAGCTGTCAAT  
 GTTGTACGCTTTTCTCCAAGTGGGAGATTTAGCATCTGGAGGAGATGATGCCGTCATTCTGTTGTGGA  
 AGATGAATGACAGCAAGGAGCCGGAGCAGATCGCCTTTCAGGATGAGGAGGAGGCTCAGCTGAATAAGGA  
 GAACTGGACTGTGGTAAAGACCTGAGGGGCCACTTAGAAGATGTGTATGATATTTGCTGGGCAACCGAT  
 GGGAAATTTGATGACCTCTGCCTCTGTGGATAACACAGTTATCATATGGGATGTCAGTAAAGGGCAGAAAA  
 TTTCCATTTTCAACGAGCATAAAAGTTATGTGCAAGGAGTCACCTGGGATCCTTTGGGTCATATATTGC  
 GACCCTGAGCTGTGACAGGGTGTGCGGATCTATAATACCCAGAAAAAGCGTGTGGCTTTCAACATTTCA  
 AAGATGCTCTCTGGACAGGGCCTGAAGGAGAGGCAAGAAGTTTCCGGATGTTTCCAGACGACAGCATGA  
 AGTCGTTCTTCCGAAGGCTCAGCTTTACTCCAGATGGATCTTTGCTCCTCACTCCAGCCGGATGATGGA  
 ATCTGGTGAGAATGTGACAAACACCACTTATGTGTTCTCCAGAAAAACCTGAAAAGGCCAATCGCCCAT  
 CTTCCGTGCCCTGGGAAAGCGACTTGTGCTGTCGCTGTTGTCTCTACTTTGAATTGAGGCCAGTGG  
 CAGAAACAGAGAAAGCATCAGAGGAGCCAGCCCGAGCTGGTGAACCTGCCCTACCGTATGGTGTTCGC  
 GGTGGCTCCGAGGACTGTGTTGCTCTATGACACTCAACAGTCTTTCCATTTGGCTATGTGTCTAAC  
 ATCCATTACCATACCCTGAGTGACATTTCTGGTCCAGCGATGGGGCCTTCTTGGCCATTTCTCCACGG  
 ATGGCTATTGCATTTGTGACCTTCGAGAAAGGTGAACCTGGCATAACCTTTGAAAGAGAGCCAGTGCT  
 GAGCATAAGGACTCCCGACACAGCCAAGAAAGCCAAGAACCAGACACACCAGGGATCTTCGCCGGGATCC  
 AGATCAGTCGAAGGGACCCCAAGCAACAGAACCAAGACCCAGCAGTCCCTGTACCACTCCTTCCACAA  
 CCACACAGTCTCCAGCTCCGTCGGCCATCAAGGACAGTCCCTCAGCCATCCCGGCTGGCAAAAGCCCTT  
 GCCACAACCTTCTGAAGAGAAGACCTGCAACCTGCTGGGCAAAACATGAAAGCCCCCAACCCCGCAGG  
 GTCACCCTGAACACGCTGCAGACTTGGGGCAAGACAGCCCCCGGAGAATAAATTTAACACCATTGAAAA  
 CAGACACTGTGCCAAATCCACAGCCCAATAGCGGGACCGCCCCCTCCACAGAAGAGGTCCAGCCAGAGGC  
 TCCTGGGAGCCACCGGAGGAGCCTCTGAAGTGAAGAGACCCAGGCTTGAGGAACGTGAAGGAGATGCC  
 CAAAACCTGGCCCTGATGACTTTCGAAGACTGTC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209007 representing NM\_028083  
 Red=Cloning site Green=Tags(s)

MKVITCEIAWHNKEPVYSLDFQHGTWKIHRLASAGVDTAVRIWKLERPGDKAIVEFLSNLARHTKAVN  
 VVRFSPTEILASGGDDAVILLWKMNDKSKEPEQIAFQDEEEAQLNKENWTVVKTLRGHLEDVYDIDWATD  
 GNLMTSASVDNTVIIWDVSKGQKISIFNEHKSYYQGVTDPLGQYIATLSCDRVLRINYNTQKRVAFNIS  
 KMLSGQGPEGEARSFRMFHDDSMKSFRRLLSFTPDGSLLLTPAGCMESGENTVNTTYVFSRKHLLKRP  
 IAHLPCPGKATLAVRCCPVYFELRPVAETEKASEEPSPELVNLPYRMVFAVASEDSVLLYDTQQSFPFGYVSN  
 IHYHTLSDISWSDGAFLAISSTDGYCTFVTFEKGELGIPLKEKPVLSIRTPDTAKKAKNQTHQGSSPGS  
 RSVEGTPSNRTQDPSSPCTTPSPTTQSPAPSAIKDSPAIPAGKSPLPQPSEEKTLQAPQNMKAPQPRR  
 VTLNLTQWGTAPRRINLTPLKTDTPVNPQPNSGTAPSTEEVQPEAPGEPPEPELKRPRLEEREGDA  
 QNLAPDSSSKTV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028083.1</a> , <a href="#">NP_082359.1</a>
<b>RefSeq Size:</b>	1913 bp
<b>RefSeq ORF:</b>	1719 bp
<b>Locus ID:</b>	110749
<b>UniProt ID:</b>	<a href="#">Q9D0N7</a>
<b>Cytogenetics:</b>	16 54.96 cM
<b>Gene Summary:</b>	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]