

## Product datasheet for **MR222328**

### H1f1 (NM\_030609) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H1f1 (NM_030609) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H1f1
Synonyms:	H1; H1-1; H1.1; H1a; H1v; H1var3; Hist1; Hist1h1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222328 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGAGACGGCGCCAGTCGCTCAGGCTGCTTCTACTGCCACGGAGAAACCTGCTGCTGCAAAGAAGA  
CCAAGAAGCCGGCAAAGCTGCCGCTCCTCGGAAGAAGCCCGGGACCTTCGGTGTGGAGCTCATCGT  
GCAGGCAGTTTCTTCTTCCAAGAGCGCAGTGGCGTGCCTTGGCCGCGCTCAAGAAGTCGCTGGCTGCC  
GCGGGATACGATGTGGAGAAGAACAACAGCCGCATCAAAGTGGGCTGAAAAGCCTGGTGAATAAAGGCA  
CACTGGTGCAGACCAAGGACCCGGCGTCTGGCTCTTTAAGCTGAACAAGAAGGCTGAGTCCAAGGC  
CATCACCAAGGTGTCAAGTGAAGGCCAAGCATCCGGGCTGCTAAGAAACCTAAGAAGACTGCTGGG  
GCTGCAGCTAAGAAGACTGTCAAGACTCCGAAGAAGCCCAAGAAGCCTGCAGTTTCCAAGAAGACTTCCA  
AGAGCCCCAAGAAGCCGAAGGTGGTGAAGGCCAAGAAGGTAGCCAAAAGCCCTGCCAAGGCCGAAGGCAGT  
GAAGCCTAAGGCTTCCAAGGCCAAGGTGACAAAGCCAAAGACCCAGCTAAGCCCAAGAAGGCAGCGCCC  
AAGAAAAAG

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222328 protein sequence  
Red=Cloning site Green=Tags(s)

MSETAPVAQAASTATEKPAAAKTKKPAKAAAPRKKPAGPSVSELIVQAVSSSKERSGVSLAALKKSLAA  
 AGYDVEKNNSRIKLGKSLVNGKTLVQTKGTGAAGSFKNKKAESKAITTKVSVKAKASGAACKPKKTAG  
 AAAKKTVKTPKKPKPAVSKKTSKPKPKVVKAKKVAKSPAKAKAVKPKASKAKVTKPKTPAKPKKAAAP  
 KKK

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\_030609

**ORF Size:** 642 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\\_030609.3](#), [NP\\_085112.1](#)

**RefSeq Size:** 745 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 80838

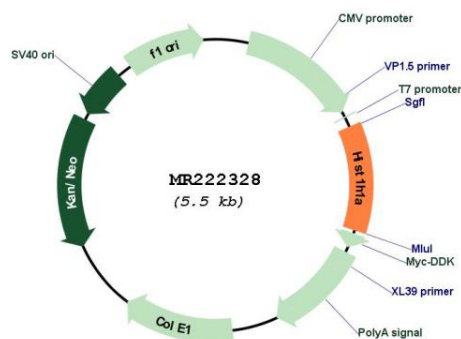
**UniProt ID:** [P43275](#)

**Cytogenetics:** 13 A3.1

**MW:** 21.8 kDa

**Gene Summary:** Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H1 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. [provided by RefSeq, Aug 2015]

### Product images:



Circular map for MR222328