

Product datasheet for **MG219718**

H2bc6 (NM_178194) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H2bc6 (NM_178194) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: H2bc6
Synonyms: Gm11398; H2bc4; H2bc8; Hist1h2; Hist1h2be
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219718 representing NM_178194
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCCAGCCAAGTCCGCTCCCGCCCCGAAGAAGGGCTCCAAGAAGGCTGTACCAAGGCCAGAG
AGAAGGACGGCAAGAAGCGCAAGCGCAGCCGCAAGGAGAGCTACTCGGTGTACGTGTACAAGGTGCTGAA
GCAAGTGCACCCCGACACCGGCATCTCTCCAAGGCCATGGGCATCATGAACTCGTTCGTGAACGACATC
TTCGAGCGCATCGCGGGGAGGGCTCCCGCCTGGCGCATTACAACAAGCGCTCGACCATCACATCCCGGG
AGATCCAGACGGCCGTGCGCCTGCTGCTGCCCGGGGAGCTGGCCAAGCACGCGGTGTCGGAGGGCACCAA
GGCTGTCACCAAGTACACCAGCTCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219718 representing NM_178194
Red=Cloning site Green=Tags(s)

MPEPAKSAPAPKKGSKAVTKAQKKGKGRKRSRSESYSVYVYKVLKQVHPDTGISSKAMGIMNSFVNDI
FERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGLAKHAVSEGTKAVTKYTSSK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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|-------------------------------|---|
| 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: | <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: | <u>NM_178194.4</u> , <u>NP_835501.1</u> |
| RefSeq Size: | 2509 bp |
| RefSeq ORF: | 381 bp |
| Locus ID: | 319179 |
| UniProt ID: | <u>Q6ZWY9</u> |
| Cytogenetics: | 13 A3.1 |
| Gene Summary: | Histones are basic nuclear proteins that are responsible for the 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 encodes a replication-dependent histone that is a member of the histone H2B family and generates multiple transcripts through alternative splicing, the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Aug 2015] |