

Product datasheet for **MG215388**

H2bw2 (NM_027067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2bw2 (NM_027067) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H2bw2
Synonyms:	1700014N06Rik; H2bfm; H2bfw; H2BL; H2bl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215388 representing NM_027067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTACCACGGCTATGGACGTTCTGGAGGAGCTATCTTCGGATAGTTCCGAAAAACAGGTACAAC
CAAGAAAGCCTGAGAAAGCTAAAAGGGAAAAGGACAAACCAAAGAAAGGGGGCCGGAGAAGAAGGCCAA
GAAAGAGAACAGGAGAAAGCAAAGCCGGAGAAAAAGCCGAAGAAGAAGCCAGAGAAAGAGAAGCCGGAG
GGAGAGAAGCTGGAGAAGAAACCAAGAAAGACAAGCGGGAGAAAGCGAAGCCGAAGAAGAAGCCCGAGC
AAGAGAACCGTGAGCAAGAGACTCCTGAGCAGGAGAAGCCTGAGGTGCAGCGGCGTCTGCTCACTTACCA
AAGCATCAGGGAAGATGAGCGTAGAGCCCGTCTGATCAGACGCCGTAAAGAACAGCTTCGCTATCTACTTT
CCGAAGGTGCTGAAAAATATCCACGTGGGTCTCTCCCTCTCGCAGCGGTCTGTGAACATCTGGATTCAT
TCGTGAAGGATATGTTTGAAAGAATTGCATCCGAAGCCAGCTTCTTGGCGCGTCAAGCCAGAAACTCTAC
TATCAACTCCAGAGAGATCCAGACCGCTATTGACTTCTGCTTCTGCGGAGCTCTGCCGGGTGCAGTG
GCTGAAGGAACCATGGCGATGGTCCGGTATATCTCAACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215388 representing NM_027067
Red=Cloning site Green=Tags(s)

MASTTAMDVLEELSSDSSEKQVQPRKPEKAKREKDKPKKGGPEKKAKKEKQEKAKPEKPKKKKEPEKPE
 GEKLEKPKKDKREKAKPKKKPEQENREQETPEQEKPEVQRRRSLHQSIREDERRARLIRRRKNSFAIYF
 PKVLKNIHVGLSLSQRSVNILDSFVKDMFERIASEASFLARQARNSTINSREIQTAIRLLLPGELCRRAV
 AEGTMAMVRYISNK

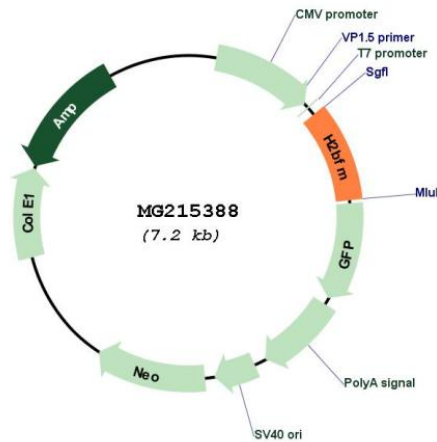
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027067

ORF Size: 672 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:	<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_027067.2 , NP_081343.1
RefSeq Size:	1050 bp
RefSeq ORF:	675 bp
Locus ID:	69389
Cytogenetics:	X F1
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-independent histone that is a member of the H2B histone family. [provided by RefSeq, Nov 2015]