

Product datasheet for **RG200564**

H2AZ2 (NM_012412) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H2AZ2 (NM_012412) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: H2AZ2
Synonyms: H2A.Z-2; H2AFV; H2AV
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200564 representing NM_012412
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGAGGCAAAGCTGGAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTATCTCGCTCACAGAGAG
CTGGGCTACAGTTTCTGTGGCCGCATCCACAGACACTGAAGACTCGCACCACAAGCCATGGAAGGGT
GGGTGCCACTGCTGCCGTGTACAGTGTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAGCTGGCA
GGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTGCAGCTTGAATCCGTGGT
ATGAAGAGTTGGATTCTTATCAAGGCTACCATAGCTGGGGTGGTGTGATCCCTCACATCCACAAATC
TCTGATTGAAAGAAGGGACAGCAGAAAAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200564 representing NM_012412
Red=Cloning site Green=Tags(s)
MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRHRLKTRTTSHGRVGGTAAVYSAAILEYLTAEVLELA
GNASKDLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSLIGKKGQKTA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_012412

ORF Size: 384 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.

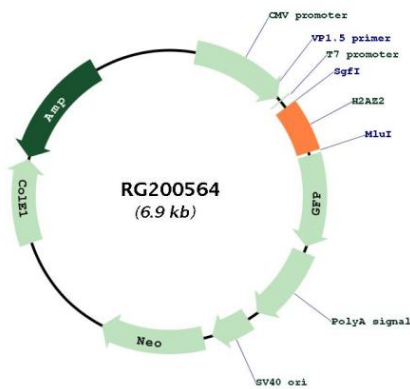
RefSeq: [NM_012412.5](#)

RefSeq Size: 1153 bp

RefSeq ORF: 387 bp

Locus ID: 94239
UniProt ID: [Q71UI9](#)
Cytogenetics: 7p13
Domains: H2A, histone
Protein Families: Druggable Genome
Protein Pathways: Systemic lupus erythematosus
Gene Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent histone that is a member of the histone H2A family. Several transcript variants encoding different isoforms, have been identified for this gene. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG200564