

Product datasheet for **RG201643**

H10 (H1F0) (NM_005318) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H10 (H1F0) (NM_005318) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: H1-0
Synonyms: H1.0; H1F0; H1FV; H10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201643 representing NM_005318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAGAATTCACGTCCGCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAG
ACCACCCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCG
CCAGTCCATTAGAAGTATATCAAGAGCCACTACAAGTGGGTGAGAACGCTGACTCGCAGATCAAGTTG
TCCATCAAGCGCCTGGTACCACCGGTGTCTCAAGCAGACCAAGGGGTGGGGCTCGGGTCTCTCC
GGCTAGCCAAGAGCGACGAACCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGAAATCAAGAAGGT
AGCCACGCCAAAGAAGGCATCCAAGCCCAAGAAGGCTGCCTCCAAGCCCAACCAAGAAACCCAAAGCC
ACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCTGCCACGCCCAAGAAAGCCAAAAACCCAAAGACTGTCA
AAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAGGCCAAACCAAGTCAAACCCAAAGCAAAGTCCAGTGC
CAAGAGGGCCGGCAAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201643 representing NM_005318
Red=Cloning site Green=Tags(s)

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQYIKSHYKVGENADSQIKL
SIKRLVTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFKTKKEIKKVATPKKASKPKKAASKAPTKKPKA
TPVKKAKKKLAATPKKAKPKTKAKPKVSKPKKAKPKVVKAKSSAKRAGKKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

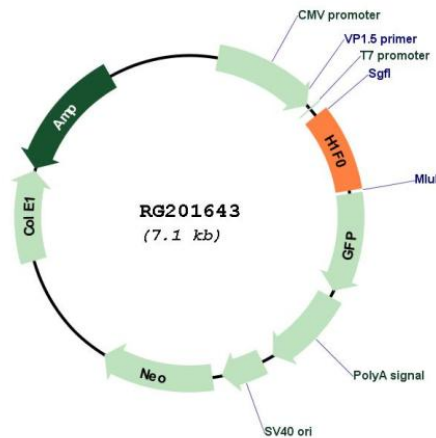


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Cloning Scheme:



Plasmid Map:



ACCN: NM_005318

ORF Size: 582 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_005318.4](#)

RefSeq Size: 2336 bp

RefSeq ORF: 585 bp

Locus ID: 3005

UniProt ID: [P07305](#)

Cytogenetics: 22q13.1

Domains: linker_histone

Protein Families: Druggable Genome

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 is intronless and encodes a replication-independent histone that is a member of the histone H1 family. [provided by RefSeq, Oct 2015]