

Product datasheet for RC215554

H1oo (H1FOO) (NM_153833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H1oo (H1FOO) (NM_153833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H1oo
Synonyms:	H1.8; H1FOO; H1oo; osH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215554 representing NM_153833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCTGGGAGCGTCACCAGCGACATCTCACCTCCTCGACTTCCACAGCAGGATCATCCAGGTCTC
CTGAATCTGAAAAGCCAGGCCCGAGCCACGGCGGTGTCCACCAGGAGGCCGAGCCACAGCAGCCTCCC
GGTGGGACGCCGCCACCCCGGTGCTACGCATGGTGTGGAGGCGTGCAGGCTGGGGAGCAGCGCCGG
GGCAGCTCGGTGGCAGCTATCAAGCTCTACATCCTGCACAAGTACCAACAGTGGACGTCCTCCGCTTCA
AGTACCTGCTGAAGCAGGCGCTGGCCACTGGCATGCGCCGTGGCCTCCTCGCCAGGCCCTCAACTCCAA
AGCCAGGGGGGCCACTGGCAGCTTCAAATTAGTTCCTCAAGCACAAGAAGAAAATCCAGCCAGGAAGATG
GCCCCCGCAGCGCTCCCAGGAGAGCGGGTGAGGCCAAGGGGAAGGGCCCCAAGAAAACCAAGTGAGGCCA
AGGAGGACCTCCCAACGTGGGCAAGGTGAAAAAGGCAGCCAAGAGGCCAGCAAAGGTGCAGAAGCCTCC
TCCAAGCCAGGCGCAGCCACAGAGAAGGCTCGCAAGCAAGGCGCGGCCAAGGACACCAGGGGCACAG
TCGGGAGAGGCTAGGAAGGTGCCCCCAAGCCAGACAAGGCCATGCGGGCACCTTCCAGTGTGTGGGC
TCAGCAGGAAGGCAAAGGCCAAGGCAGCAGGAGCAGCCAAGGAGATGCTGAGGCCTACAGGAAAACCAA
AAGGTGGTGGCCAAGGCCAAGGCCCTAAAGCTGGGCAGGGCCAAACACCAAGGCTGCTGCTCCTGCTA
AGGGCAGTGGGTCCAAGGTGGTACCTGCACATTTGTCCAGGAAGACAGAGGCCCCCAAGGCCCTAGAAA
GGCTGGGCTGCCATCAAGGCCTCATCATCAAAGTGTCCAGCCAGAGGGCTGAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215554 representing NM_153833
Red=Cloning site Green=Tags(s)

MAPGSVTSDISPSSTSTAGSSRSPSESEKPGPSHGGVPPGGPSHSSLVVGRRHPPVLRMVLEALQAGEQRR
 GTSVAAIKLYILHKYPTVDVLRFKYLLKQALATGMRRGLLARPLNSKARGATGSFKLVPKHKKKIQPRKM
 APATAPRRAGEAKGKGPKKPSEAKEDPPNVGKVKKAARKPAKVQKPPPKPGAATEKARKQGGAAKDTRAQ
 SGEARKVPPKPKDKAMRAPSSAGGLSRKAKAKGSRSSQGDAAEAYRKTAEKSSKPTASKVKNGAASPTKK
 KVVAKAKAPKAGQGPNTKAAAPAKGSGSKVVPAPHLSRKTEAPKGPRAKGLPIKASSSKVSSQRAEA

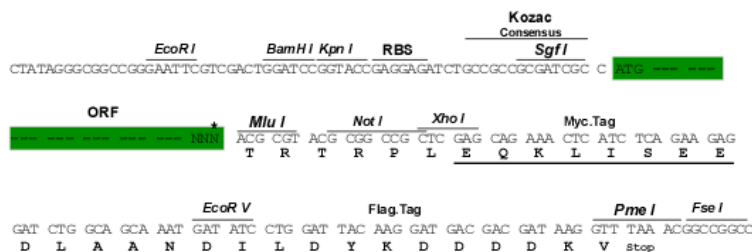
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8028_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_153833

ORF Size: 1038 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_153833.3](#)

RefSeq Size: 1067 bp

RefSeq ORF: 1041 bp

Locus ID: 132243

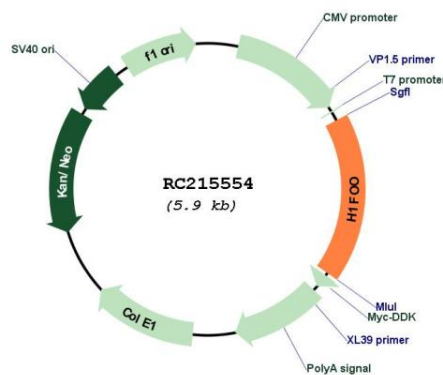
UniProt ID: [Q8IZA3](#)

Cytogenetics: 3q22.1

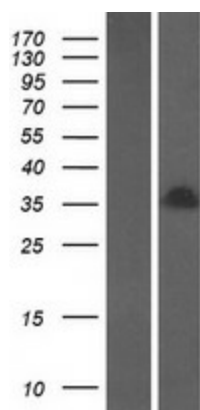
MW: 35.6 kDa

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. The protein encoded is a replication-independent histone that is a member of the histone H1 family. This gene contains introns, unlike most histone genes. The related mouse gene is expressed only in oocytes. [provided by RefSeq, Oct 2015]

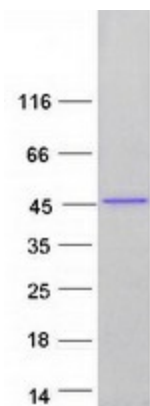
Product images:



Circular map for RC215554



Western blot validation of overexpression lysate (Cat# [LY406918]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215554 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified H1FOO protein (Cat# [TP315554]). The protein was produced from HEK293T cells transfected with H1FOO cDNA clone (Cat# RC215554) using MegaTran 2.0 (Cat# [TT210002]).