

Product datasheet for **RG201735**

Histone H1x (H1FX) (NM_006026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1x (H1FX) (NM_006026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H1-10
Synonyms:	H1.10; H1FX; H1X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201735 representing NM_006026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGTGGAGCTCGAGGAGGCCCTGCCAGTGACGACCGCCGAGGGAATGGCCAAGAAGGTGACCAAGG
CTGGCGGCTCGGCGCGTTGTCCCATCTAAGAAGAGGAAGAATAGCAAGAAGAAGAACCCAGCCGGGCAA
GTACAGCCAGCTGGTGGTGGAGACCATCCGTAGGCTGGGCGAGCGCAACGGCTCGTCGCTGGCCAAGATC
TACACCGAGGCCAAGAAGTTCCGTGGTTCGACCAGCAGAATGGGCGCACCTACCTCAAGTACTCGATCA
AGGCGCTGGTGCAGAACGACACGCTTCTGCAGGTGAAGGGCACCGCGCCAACGGTTCCTCAAGCTCAA
CCGCAAGAAGCTGGAGGGCGGCGGGAGCGGCGCGGAGCCCCGGCGGCGCCACCGCCCCGCCCCACC
GCGCACAAGCGAAGAAGGCAGCCCCGGGCGCGGCGGCTCCCGCGCGCGGACAAGAAGCCCGCCAGGG
GCCAGAAGCCGGAGCAGCGCTCGCACAAGAAGGGCGCTGGCGCCAAGAAGGACAAGGCGCAAGGCCAA
GAAGACGGCGGCCCGGGGCAAGAAGGTGAAGAAGGCGCCAAGCCCAGCGTCCCAAAGTGCCCAAG
GGCCGCAAG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201735 representing NM_006026
Red=Cloning site Green=Tags(s)

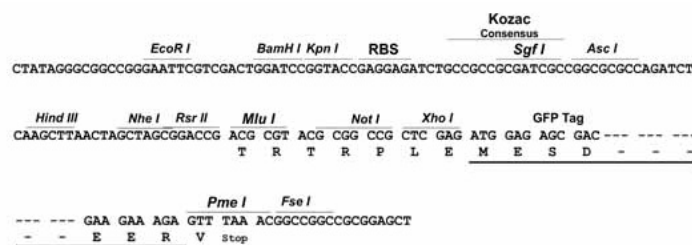
MSVELEEALPVTTAEGMAKKVTKAGGSAALSPSKKRKNSKKKNQPGKYSQLVVETIRRLGERNGSSLAKI
 YTEAKKVPWFDQQNGRTYLKYSIKALVQNDTLLQVKG TGANGSFKLNRKLEGGGERRGAPAAATAPAPT
 AHKAKKAAPGAAGSRRADKKPARGQKPEQRSHKKGAGAKKDKGGKAKKTAAGGKKVKKAAKPSVPKVPK
 GRK

TRTRPLE - GFP Tag - V

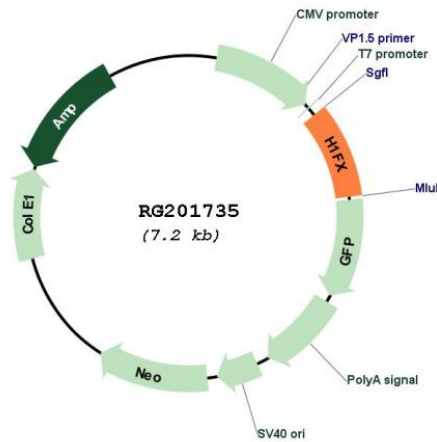
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_006026

ORF Size: 639 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_006026.4
RefSeq Size:	1503 bp
RefSeq ORF:	642 bp
Locus ID:	8971
UniProt ID:	Q92522
Cytogenetics:	3q21.3
Domains:	linker_histone
Protein Families:	ES Cell Differentiation/IPS
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 H1 family. [provided by RefSeq, Oct 2015]