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Product datasheet for RG211272

HIST1H2AK (HIST1H2AL) (NM_003511) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIST1H2AK (HIST1H2AL) (NM_003511) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HIST1H2AK
Synonyms:	dJ193B12.9; H2A.i; H2A/i; H2AC11; H2AC13; H2AC15; H2AC17; H2AFI; HIST1H2AL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG211272 representing NM_003511
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGGACGCGGCAAGCAGGGAGGCAAAGCTCGCGCCAAAGCCAAGACCCGCTCTTCTCGTGCCGGTC
TCCAGTTCCCCGTGGGCCGAGTGCACCGACTGCTCCGCAAGGGCAACTATGCTGAGCGGGTCGGGGCCGG
CGCGCCGGTGTACCTGGCGGCGGTGCTGGAGTACCTGACTGCCGAGATCCTGGAGCTGGCGGGCAACGCC
GCCCGCGACAACAAGAAGACCCGCATTATCCCGCGCCACTTGCAGCTGGCCATCCGCAACGACGAGGAGC
TCAACAAGCTGCTGGGCAAAGTAACCATCGCTCAGGGTGGTGTCCTGCCCAACATCCAGGCTGTGCTACT
GCCCAAGAAGACCGAGAGTCACCACAAGGCCAAAGGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211272 representing NM_003511
Red=Cloning site Green=Tags(s)

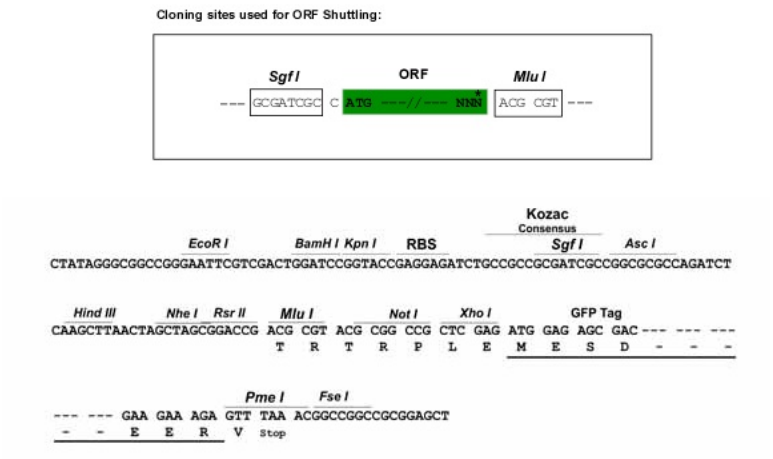
MSGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAAVLEYLTAEILELAGNA
ARDNKKTRIIPRHLQLAIRNDEELNKLLGKVTIAQGGVLPNIQAVLLPKKTESHHKAKGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

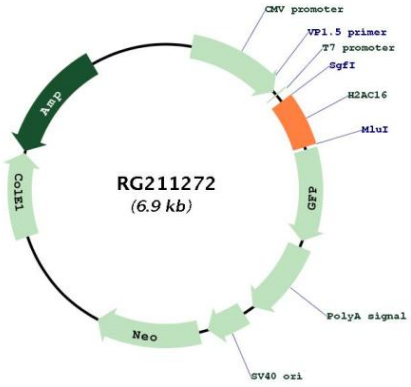
Cloning Scheme:



ACCN:	NM_003511
ORF Size:	390 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_003511.3
RefSeq Size:	470 bp
RefSeq ORF:	393 bp

Locus ID:	8332
UniProt ID:	P0C0S8
Cytogenetics:	6p22.1
Domains:	H2A, histone
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. 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 is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG211272