

## Product datasheet for **RC201434L4V**

### Histone H2A.X (H2AFX) (NM\_002105) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Histone H2A.X (H2AFX) (NM_002105) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Histone H2A.X
Synonyms:	H2A.X; H2A/X; H2AFX
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002105
ORF Size:	429 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201434).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_002105.1</a>
RefSeq Size:	1651 bp
RefSeq ORF:	432 bp
Locus ID:	3014
UniProt ID:	<a href="#">P16104</a>
Cytogenetics:	11q23.3
Domains:	H2A, histone
Protein Families:	Druggable Genome



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**Protein Pathways:** Systemic lupus erythematosus

**MW:** 15.1 kDa

**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 encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Oct 2015]