Product datasheet for SC303323

HIST1H2AK (HIST1H2AI) (NM_003509) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HIST1H2AK (HIST1H2AI) (NM_003509) Human Untagged Clone
Tag: Tag Free
Symbol: HIST1H2AI
Synonyms: H2A/c; H2AFC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >NCBI ORF sequence for NM_003509, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGGGCGTGGCAAGCAGGGAGGCAAAGCTCGCGCCAAGGCCAAGACCCGCTCTTCTCGGGCCGGGC
TTCAGTTTTCCCGTAGGCCGAGTGCATCGCCTGCTCCGCAAAGGCACAATCGCAAGCGGTCGCTGCTGG
AGCGCGGTGTCACCTGGCGGCGGTGCTGGAGTACCTGACCGCCGAGATCCTGGAGCTGGCTGGCAACGC
GCCCGCGACAACAAGACTCGCATCATCCCGCGTCACCTCCAGCTGGCCATCCGCAACGATGAGGAGC
TCAACAAGCGTCTGCGGAAGTCACCACCGCACAGGAGGGTCGTACCTGCTGCCAACATCCAGGCGGTGTACT
GCCCAAGAGACGACAGGACCACCAAGGCGGAGGCGAGTAG
```

Restriction Sites: Sgfl-MluI
ACCN: NM_003509
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene’s pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frame shifts, and is delivered as lyophilized plasmid DNA.

RefSeq: NM_003509.2, NP_003500.1
RefSeq Size: 469 bp
RefSeq ORF: 393 bp
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]