Product datasheet for **RC203097**

**HIST1H4E (NM_003545) Human Tagged ORF Clone**

**Product data:**

- **Product Type:** Expression Plasmids
- **Product Name:** HIST1H4E (NM_003545) Human Tagged ORF Clone
- **Tag:** Myc-DDK
- **Symbol:** HIST1H4E
- **Synonyms:** H4/j; H4FJ
- **Vector:** pCMV6-Entry (PS100001)
- **E. coli Selection:** Kanamycin (25 μg/mL)
- **Cell Selection:** Neomycin
- **ORF Nucleotide Sequence:**

```
>RC203097 representing NM_003545
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCCATCGCC
ATGTCTGGTCGCGGCAAAGGCGGAAAGGGACTGGTGTAAGGAGGCCTGTAAGGTTCTGC
GAGATAACATCCAGGCGATTACAAAGCTGCCATCGCGGGCCCTTCTCTCTCGTCGGGGGTCAAGGCGAT
TTCTGGTCTCATACGAGGAGACTCGCGGGTTCTCTAACTTTCTGGAACACGATTCCTCGTAGCT
GTGACTTACAGGACACGCAGCAAGCGACAGTGACAGCGATGGATGTGGTCTACGCGCTGAAGAGAC
AGGACGCCACTCTTACTGGCTCGGCC

ACGCCGTACCGCGCGCCTCGAGCAGGAGCTACCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAGGTGTTAA
```

- **Protein Sequence:**

```
>RC203097 representing NM_003545
Red=Cloning site Green=Tags(s)

MSGRGGKGGKGLGKGGAKRHRKVLRDNQITKPAAIRRLARRGGVKRISGLIYEETRGLKVFLENVIRDA
VTYEHAKRTVTVMDVYALKRQGRTLGYFGG

TRTRPLEQKLSEEDLAANDILDYKDDDKV
```

- **Chromatograms:**

https://cdn.origene.com/chromatograms/mk6435_f12.zip

- **Restriction Sites:**

SgfI-MluI
Cloning Scheme:

Plasmid Map:

ACCN: NM_003545

ORF Size: 309 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
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

RefSeq: NM_003545.4
RefSeq Size: 377 bp
RefSeq ORF: 312 bp
Locus ID: 8367
Protein Pathways: Systemic lupus erythematosus
MW: 11.2 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 is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq, Aug 2015]

Product images:

Western blot validation of overexpression lysate (Cat# [LY418588]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203097 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).