

## Product datasheet for **SC303317**

### H3FT (HIST3H3) (NM\_003493) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H3FT (HIST3H3) (NM\_003493) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** H3FT  
**Synonyms:** H3.4; H3/g; H3FT; H3t; HIST3H3  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003493 edited  
 GGCCAACAGTTTTCGATTTCATGGCCCCGAACCAAGCAGACTGCCGCAAGTCAACGGGTGG  
 CAAGGCCCGCGCAAGCAGCTGGCCACCAAGGTGGCTCGCAAGAGCGCACCTGCCACTGG  
 CGGCGTGAAGAAGCCGCACCGCTACCGGCCCGGCACGGTGGCGCTTCGCGAGATCCGCCG  
 CTACCAGAAGTCCACTGAGCTGCTAATACGCAAGTTGCCCTTCCAGCGGCTGATGCGCGA  
 GATCGCTCAGGACTTTAAGACCGACCTGCGCTTCCAGAGCTCGGCCGTGATGGCGTGCA  
 GGAGGCGTGCGAGTCTTACCTGGTGGGGCTGTTTGAGGACACCAACCTGTGTGTCATCCA  
 TGCCAAACGGGTCACCATCATGCCTAAGGACATCCAGCTGGCACGCCGTATCCGCCGGGA  
 GCGGGCTAGGAGGGCTATCTCGCCACCTGAGAGGTTG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003493 unedited  
 NNCGGCCGCGNAATCTCGCCCTNNTGGCCAACAGTTTTCGNATTCATGNGCCGAACCAA  
 GCAGACTGCGCGCAAGTCAACGGGTGGCAAGGCCCGCGCAAGCAGCTGGCCACCAAGGT  
 GGCTCGCAAGAGCGCACCTGCCACTGGCGGCGTGAAGAAGCCGCACCGCTACCGGCCCGG  
 CACGGTGGCGCTTCGCGAGATCCGCCGCTACCAGAAGTCCACTGAGCTGCTAATACGCAA  
 GTTGCCCTTCCAGCGGCTGATGCGCGAGATCGCTCAGGACTTTAAGACCGACCTGCGCTT  
 CCAGAGCTCGGCCGTGATGGCGCTGCAGGAGGCGTGCAGTCTTACCTGGTGGGGCTGTT  
 TGAGGACACCAACCTGTGTGTCATCCATGCCAAACGGGTCACCATCATGCCTAAGGACAT  
 CCAGCTGGCACGCGTATCCGCCGGGAGCGGGCTAGGAGGGCTATCTCGCCACCTGAGA  
 GGTGAAGGGCGAATTCAGATCTGGTACCGATATCAAGCTTGTCGACTCTAGATTGCGGC  
 CGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAGT  
 GCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACACAGCCTTGTCCTAATAAAATT  
 AAGTTGCATATTTGTCTGACTAGGTGCTCTTAAATATTAGGGGTGGAGGGGGGTT  
 GGTATGGNNCAAGNGGCAAGTTGGGAAGACAACTGTAGGGCTGCGGGGTCTATTGGG  
 AACCAAGCCTGAATGCAGTGGCACAATCTTGGCTACTGCAATCTCGCCTCTGGGGTC  
 AAGCGATTCTCCTG

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_003493
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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 frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_003493.2</a></u> , <u><a href="#">NP_003484.1</a></u>
<b>RefSeq Size:</b>	481 bp
<b>RefSeq ORF:</b>	411 bp
<b>Locus ID:</b>	8290
<b>UniProt ID:</b>	<u><a href="#">Q16695</a></u>
<b>Cytogenetics:</b>	1q42.13
<b>Protein Pathways:</b>	Systemic lupus erythematosus
<b>Gene Summary:</b>	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 is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]