

## Product datasheet for **TP750003**

### H3FT (HIST3H3) (NM\_003493) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Histone H3 (HIST3H3) produced in E. coli.
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region (Met1-Ala13polyhistidinetone H3
Tag:	Tag Free
Predicted MW:	15.5 kDa
Concentration:	Resuspend the protein to the desired concentration in proper buffer.
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a sterile solution containing 20 mM PB, pH 7.4
Endotoxin:	< 0.1 EU per 1 µg of the protein by the LAL
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_003484</a>
Locus ID:	8290
UniProt ID:	<a href="#">Q16695</a>
RefSeq Size:	481
Cytogenetics:	1q42.13
RefSeq ORF:	408
Synonyms:	H3.4; H3/g; H3FT; H3t; HIST3H3



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**Summary:**

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]

**Protein Pathways:**

Systemic lupus erythematosus

**Product images:**