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Product datasheet for SC117929

H3FD (HIST1H3E) (NM_003532) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H3FD (HIST1H3E) (NM_003532) Human Untagged Clone
Tag:	Tag Free
Symbol:	H3FD
Synonyms:	H3.1; H3/d; H3C1; H3C2; H3C3; H3C4; H3C7; H3C8; H3C10; H3C11; H3C12; H3FD; HIST1H3E
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003532, the custom clone sequence may differ by one or more nucleotides

ATGGCGCGTACTAAGCAGACGGCTCGTAAATCCACAGGCGGTAAAGCACCGCGCAAACAGCTGGCCACTA
AGGCAGCTCGCAAGAGCGCTCCGGCCACGGGCGGCGTGAAGAAGCCCCATCGCTACCGCCCTGGCACCGT
GGCTCTGCGCGAGATCCGTCGCTACCAGAAGTCTACCGAGCTTCTAATCCGGAAGCTGCCGTTTCAGCGC
CTGGTGCGAGAAATAGCTCAGGACTTCAAGACCGACCTGCGCTTCCAGAGTTCCGCGGTGATGGCGCTGC
AGGAGGCCTGCGAGGCCTACTTGGTGGGGCTTTTCGAGGACACCAACCTGTGCGCTATTCATGCCAAACG
CGTGACCATCATGCCTAAAGACATCCAGCTTGCCCGCCGCATTCGTGGGGAGAGGGCGTGA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003532 unedited
GGAAATTTGATACACTATTAGGCGGCCGGATTCGCCGAGTCTAGTGAAAATCAAAGAACC
TGTACGGAAAAGACTTGTTTGAAAGAGCCAGTTCTCTATCCAAATTTACCAATCAGAATC
TTGCACTTGAAAAAATAAACCAATCGTGAATCTCTACGGCCACTTCCGGAATTTAGCAAC
CGATCACTAACAGGGATCGTCCACAATCCAATCAGAGTGATTCTGTTCCTATATAGAGGG
GCAAACCAATCTTCCTAACTCATTTACTTTGCAGATGAACTATGGCGCGTACTAAGCAGA
CGGCTCGTAAATCCACAGGCGGTAAAGCACCGCGCAAACAGCTGGCCACTAAGGCAGCTC
GCAAGAGCGCTCCGGCCACGGGCGGCGTGAAGAAGCCCCATCGCTACCGCCCTGGCACCG
TGGCTCTGCGCGAGATCCGTCGCTACCAGAAGTCTACCGAGCTTCTAATCCGGAAGCTGC
CGTTTCAGCGCCTGGTGCGAGAAATAGCTCAGGACTTCAAGACCGACCTGCGCTTCCAGA
GTTCCGCGGTGATGGCGCTGCAGGAGGCCTGCGAGGCCTACTTGGTGGGGCTTTTCGAGG
ACACCAACCTGTGCGCTATTCATGCCAAACGCGTGACCATCATGCCTAAAGACATCCAGC
TTGCCCGCCGCATTCGTGGGGAGAGGGCGTGAATTGTTTTGAGTACAAACCTTAAATCCA
AAGGCTCTTCTCAGAGCCAACCACTNTTGTCCGTGAAAAGGGCTGTAATCCTTTGAGACG
CATTAGACCACTAAACTGCACTGATCCCAAATAGACATTTGAATAGTGGCATTCAGTTCC
CTCGATGCTTNCATTTAAATTCCAAATTTAGCGCTCCCTTCAGTTTTCGCCTAAGGGCTG
GCCTCC
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Restriction Sites: NotI-NotI

ACCN: NM_003532

Insert Size: 2910 bp

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).

Components: 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).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: NM_003532.2, NP_003523.1

RefSeq Size: 462 bp

RefSeq ORF: 411 bp

Locus ID: 8353

UniProt ID: P68431

Cytogenetics: 6p22.2

Domains: H3, histone

Protein Pathways: Systemic lupus erythematosus

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 H3 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]