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Product datasheet for SC102235

H10 (H1F0) (AK091372) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H10 (H1F0) (AK091372) Human Untagged Clone
Tag:	Tag Free
Symbol:	H10
Synonyms:	H1FV; H10
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for AK091372, the custom clone sequence may differ by one or more nucleotides

AGACGCGGAGCTGGGAAAAGGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGCCCGGTGCCGAGA
CCAAGCGACAGACCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGG
GGAGGAAAAGCAGCGACTCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGG
CTCAGGAGCAGATCCCGAGGCAGGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTC
AACAGCCGGACCAGACAGGCCACCCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAA
CCGCGCTGGCTCCTCGCGCCAGTCCATTCAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCT
GACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGG
GGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGGACCCAAGAAGTCAGTGGCCTTCAAGAAGACCAA
GAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCCAAGAAGGCTGCCTCCAAAGCCCCA
ACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCTGCCACGCCCAAGAAAGCCA
AAAAAACCCAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCAAAAAGGCCAAACCAGTGAAAC
CCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTGCGGACACT
CCCTCCTGTCTCCTATTTTCTGTAAATAATTTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCTTTT
GCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCACTTT
TCCTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTTGTTTTGC
TATTAACCTACTTACGGGGTTAGGGATTTGCGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAA
GGTAGATGTGGGTGGGGAGAAGACACAAGGCAGTTTGTTCTGGCTAGATGAGAGGGAACCCAGGAATTGT
GAGGTTAGCAGGAATATCTTTAGGGTGAGTGAGTTTTCCTTGAGTTGGGCACCCGTTGTGAGAGTTTCAG
AACCTTTGGCCAGCAGGAGAGAGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGTGGAAAAAAACC
GCCACCGGGCTGACTTCCACCTCCCAGTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCCTTCTCATTTTT
GTTAGTTTGCCCTTTCGGCCTCCCTATTTTCTTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGG
GAGAAGCCATAGTTTCTCCCAGTCAGCTAGGATGTAGCCATTGGGGGATCTTTGTGGCTTCAGCAAATTC
TCTTGTTAAACCGGAGTGAAAACTTCAGGGGAAGGGTGGGGAGTCAGCCAAGTGCCTCAGTGTGCCCTGT
TGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCCTAGGAAGACTTTTCTTTTCCTCTGGATTTT
TGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTGGTGGGGCTGCGGCCACTTAAAACCTCCCGATCT
CTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGGGCGGGCAGTGGATA
GTAAGACTTACTGCAGTCGATTTGGGATTTGCTAAGTAGTTTTACAGAGCTAGATCTGTGTGCATGTGTG
TGTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTCACACCCGGGAGCTGGGAGAAAAAACCTG
TACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGCGCGTCCCCCCCCCACCCCC
TTTTTTAAACAAGTGTTACTTGTGCCGGGAAAATTTTGCTGTCTTTGTAATTTTAAAACTTTAAAATAAA
TTGGAAAAGGGAGAAACTG

5' Read Nucleotide Sequence:

>OriGene 5' read for AK091372 unedited
ACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGGAAAAGGAGGCAGAGGAGGC
GGAGGCAGAGGCAGAGGCAGAGCCCGGTGCCGAGACCAAGCGACAGACCGGCGGGGCTGG
GCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCG
ACTCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAG
GAGCAGATCCCGAGGCAGGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCG
CCTTCAACAGCCGGACCAGACAGGCCACCATGACCGAGAATTCCACGTCCGCCCCTGCGG
CCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCCAAGTATTCAGACA
TGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATTC
AGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGT
CCATCAAGCGCCTGGTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCCTCG
GGTCCTTCCGGCTAGCCAAGAGCGACGAACCCAAGAGTCAGGGGCCTTCAAGAAGACCAA
GAAGGAAATCAGGAAGGTGCCACCCCAAAGAGGCATCCAGCCCCAGAAGGCCTGCTCCAA
GCCCCCACCAAGAAACCCAAGCCACCCCGGTCAAGAGGCCCAGAAGAGCCGGGCTGCCCG
CCCCAGAAGCCCAAAAACCAGGACTGTAAAGCCCAAGCGGTCAGAGCATCCAAGCCCAAA
AGGGCAAACCATGAAACCCAAGCCAATTCCATGCCCAAGAAGGCCGGCAAGAAAAGGGGA
CACAGGAATTTTTTTTGCCGAACACCCCTCCTGGGCCCTATTTCGGAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for AK091372 unedited
AATCACTTGNACCGCGCCCGCTTTCTATGATCGATTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGTTTCCCCCTTTTCCAATTTAT
TTTAAAGTTTTAAAATTCCAAGAACCGCAAATTTTTCCCGGCCCAAGTAACACTTGTTTA
AAAAAGGGGGTGGGGGGGGGACCCCCAAGGCCCCTTTTTTTCTATTTTATTAAAAATAAA
AAAAAGACAACTGTCCAGGTTTTTTCCCCCACCCCCCGGGGGGGAAACTAATTCCTACCC
CTAGATTTGTTTTTTTCCCCAAACCCCCCCTTGCCCCCAGATTTAGCTCTGTAAAACTAC
TTAACAAATCCCAAATCGACTGCGGTAAGTTTTACTATCCACTGCCCGCCCATTCCCCCT
CCCCCTCCCGGAGTTACAGTTACTTTTAATAAAGGACTCAAAAAAAAATCGGGAGGTTTT
AAGTGGCCGCACCCCCCCCAAACCAAGCAAAGACCCCTCTTGTCCAGGAGGAACAAAAAT
CCAAAGGAAAAAAAAAGTCTTCCTAGGACACAACCCATCGATTGCGTGGAAAAACCTAAT
TTTCAACAGGGCACACTGGGGCACTTGGCTGACTCCCCCCCCTTCCCCTGAAGTTTTCCC
TCCGGTTAAACAAAAAAATTTGCTGAACCCCCAAAGATCCCCCCATGGCCTCCATCCCAA
CCTGACTGGGGAAAAACTATGGCTTTCTCCCCTCCCCGCTGGTCCCTGTGACCCCCCCCT
CCCCCTTCCCTAAAAAAAAAAGGAGGGGCCCAAGGCGCACACTTCCAAATATGAAAGGAA
ATCTGGGTTTGGGCCCCCCCTGCTCCCCCTGGGAAGGGGAAACCCCCCCCGGTGGCGTTT
TTTTCCCCCCCCTCCCTTTCCCGGTGGGTGTGTCCCTCCCCCT

Restriction Sites: NotI-NotI

ACCN: AK091372

Insert Size: 2250 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:	AK091372.1
RefSeq Size:	2119 bp
RefSeq ORF:	2119 bp
Locus ID:	3005
Cytogenetics:	22q13.1
Domains:	linker_histone
Protein Families:	Druggable Genome
Gene 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-independent histone that is a member of the histone H1 family. [provided by RefSeq, Oct 2015]