

## Product datasheet for **SC115644**

### ZHX1 (NM\_007222) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZHX1 (NM_007222) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZHX1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007222, the custom clone sequence may differ by one or more nucleotides

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ATGGCAAGCAGGCGAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGAACAAGATCCAGACCTTGAGT
TGATATCAGATTTGGATGAAGGTCCTCCTGTGCTTACACCTGTAGAAAACACCAGAGCAGAGAGTATCTC
AAGTGATGAAGAGGTTTCATGAATCTGTGGATTCAGACAATCAGCAAAAATAAAAAAGTTGAAGGTGGAT
GAATGTAATATTGTACTTTTCAAACCTCCAGATCTAAATATGTTTACTTTTCATGTGGATTCCGGAACATC
CCAATGTAGTGCTAAATTCATCCTATGTTTGTGTGCAATGCAATTTTCTTACCAAAGGTATGATGCACT
TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTTAAAGTTGACTATGGTGAACGTAATAAC
CAGACAATCTTTGAACAAAACAATAAATGATCTGACTTTTGATGGTAGTTTTGTTAAAGAGGAGAATGCAG
AGCAAGCAGAATCTACAGAAGTTTCTTCTCGGGAATATCTATCAGTAAAACCTCTATCATGAAAATGAT
GAAAAATAAAGTGAAAAATAACCGGATTGCAGTTCATCATAACTCAGTTGAGGACGTTCTGAAGAGAAA
GAGAATGAAATCAAACCAGACCGTGAAGAAATTGTAGAAAATCCAAGTTCTTCAGCTTCTGAATCTAATA
CAAGTACTTCCATTGTAACAGAATACATCCAAGTACTGCCAGCACGGTAGTGACACCAGCAGCAGTTCT
TCTCGGATTGGCACAGGTGATAACTGCTGTATCTGCTCAGCAGAAATCTAATTTGATTCCCAAAGCTTA
ATCCCTGTTAATAGCATTCCCACCTACAATGCTGCATTGGATAACAATCCCTTTTACTTAAACCTTACA
ACAAGTCCCTTACCCAACAATGTCAGAAATTACAGTTCTTTCTGCTCAAGCAAAAATATACAGAGGAAACA
GATCAAGATATGGTTTTAGCCCAACGTTTAAAACATGGTGTAGTTGGACTCCCAGGAAAGTAGAGGAG
GCAAGAAGGAAACAATTCATGGAACAGTGCATACTGTACCTCAGACCATAACTGTTATTCCTACACACA
TTTCCACAGGGAGTAATGGTTTACCATCTATTTTACAGACATGCCAAATAGTTGGTCAGCCTGGTCTGGT
CCTTACTCAAGTGGCTGGAACAAAACACCTTGCCAGTTACAGCACCTATAGCCTTGACAGTGGCAGCGCTT
CCAAGTCAAAAATAATATACAGAAAAGTCAGGTACCTGCTGCTCAGCCTACTGCAGAAAACAAGCCAGCAA
CAGCAGCAGTTCCAACCTCTCAAAGTGTCAAACATGAAAACGATTGGTAAACCTGATTCATTTGGCAT
TCGGGCAAAAAAGACAAAAGAGCAACTGGCAGAATTAAGAGTTAGCTACCTTAAAAATCAGTTTCCCAT
GATTCAGAAATATCAGACTTATGAAAATAACAGGCCTGACGAAAGGAGAGATTAATAAATGGTTTAGTG
ACACAAGGTACAACCAGAGAAAATCAAAGAGTAATCAGTGCTTACATCTCAACAATGATTCCTTACCAC
CATTATTATAGACTCCAGTGATGAAACCACGGAATCCCAACTGTTGGTACTGCACAGCCTAAGCAATCC
TGGAACTCTTTCTGACTTTACTCCCCAAAAGTTTAAAGAGAAAACGAGAGCAGCTTCGTGTCCTT
AGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGAATTAATAGGTTAAGGGCACAAACCAACT
TACCAGAAGAGAAATCGATGCTTGGTTTACAGAGAAGAAGAAATCAAAGCTTTAAAGGAAGAGAAAATG
GAAATAGATGAAAGTAATGCAGGTAGTTCCAAAGAAGAAGCTGGAGAACTTCTCCTGCAGATGAATCTG
GTGCACCTAAGTCAGGGAGTACAGGCAAGATATGTAAAAAACACCTGAGCAGCTGCACATGCTTAAAG
TGCATTTGTCCGGACACAGTGGCCATCACCAGAAGAGTATGACAAGTTGGCCAAAGAAAGCGGGCTTGCT
AGAACAGACATAGTTAGTTGGTTTGGGGACACCCGTTATGCTTGGAAAGATGAAACTTGAATGGTACT
ACTACTATCAGAGCGCAATTCAGTAGTATGAATGGTCTGTCTCCCTTAGGAAAAGAGGGAGAGGGAG
ACCCAAAGGACGGGGAAGAGGAAGACCCGCTGGGCGGCCTAGAGGAAGCAAAAAGAATTAACAACCTGGGAC
AGGGGACCATCACTCATAAAATTTAAAACCTGGAAGTCAATACTTAAGGATTAATACCTGAAGCACAAAGT
TTCTTAATGAGCAAGACCTTGATGAACCTGTTAACAAATCACATATGGGCTATGAGCAGGTGAGAGAGTG
GTTTGCAGAAAGACAGAGAAGATCAGAATTAGGTATAGAATTTTGGAGAAAATGAGGAGGAAGATGAA
GTTATTGATGACCAGGAAGAGGATGAAGAAGAAACAGATGATAGTGACACTTGGGAACCTCCACGACATG
TGAACCGGAAGCTGTCTAAATCAGATGACTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007222 unedited  
 GTCAAAATTTGTATACGACTCCTATAGGGCGGCCGCGATTCCGGCAGGAGCCTCGTGCCG  
 AATTCCGGCAGCAGGCCTTTGCGGGCCCGCCGAGCGGTTCCGGGTTTAGGGTTCACAGGTC  
 AGAGTTGACTCCCTGAAAAGTGCAGCCGGTTTAAAATGCAAGATGGCGCGCGGCTGGCGC  
 TGAGAGGCGCGCGGCCCTGCAGGTAGTGGCGCGAGCCGGCTCCGCGACCAGCGGGCCC  
 GGAGACTCTGGGCTGCGGGTGGAACTGGAGCGCAGAGTCCGCGCGCCGGCACGGGAAAGG  
 AGAAGACAGACTGCTGCTTTGGACCTGTTGGTAATGATGGCCTGAGCTAAACATCTAACT  
 AGAAGGGATACCCTTCCATTTCAAAGAACAAGTCTAAGGAAGCTGTGGCAAGTGATTG  
 GAGTTGTGCTTCAAAAATTTAGAAAATTCAGCAGTATTTTATCTGCCAACAAAGCTCT  
 TTACTIONGATTGCACCATGAGAAAGCTGCTAATGAGACTTGTGAGCACAAAAATGGACTT  
 GAAGAACCAAAAGCCATTGTTTTCAAATGAAGAACAAGTGAACAGTTTTAAGCCTCGATGC  
 TTTTAAATCACCCTGAGCTTTTCTCATAACATCAGAATGGCAAGCAGGCGAAAATCAA  
 CAACACCTTGCATGGTCTTGCCAGTGAACAAGATCCAGACCTTGAGTTGATATCAGATT  
 TGGATGAAGGTCCTCTGTGCTTACACCTGTAGAAAACACCAGAGCAGAGATATCTCAA  
 GTGATGAAGAGGTTCACTGAATCTGTGNATTACAGACATCAGCAAAAATAAAAAGTTGA  
 ANGGTGGATATGAATNGGTAATATTGTACTTTTCAACTNCAGATCTAAAATGTTTACTTT  
 TCATGTGGATTCCGACATCCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007222 unedited  
 TGGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACCCATTTCTAACAA  
 TTTTTACTGTAATAATTTTGGTCAAAGTCTAAGCTTAATCACATCTCAAAGAATAGAGG  
 CAATATATAGCCATCTTACTAGACATACAGTATTAAGTGGACTGAATATGAGGACAAG  
 CTCTAGTGGTCATTAAACCCCTCAGAAAAGTCTAAGATTCAGAATGTCTCCATCATATTA  
 AAAAAAATGTACTGTATTAATAATTTAAATGGCATTTTTACAAGTGGATCTTTAATTAG  
 AGCTTCTATTCCACATTGCAGAACTCCACCAACTGCAGTAGCTTAACCTTGGCACAACA  
 TTAAGTTCATCTCTTTTGGGATTGGATCCTGCTTTCTGAGTGTGTATGCCCAAAACG  
 CTCCCAATGCCCTCAAAGATTGGGCAATTGACCCCAAATCCAACCTCCTGAGTAGAAGA  
 ACCGATTCTCCTCCACGCTTTCATGCATATTTAGACATCTGATTTAGACCGCTCCCGCG  
 TCACATGTCCCGAGAGCTCCCAAGTGTGCCTATCCTCCGTCGGTCTGTATCACTGTTCC  
 CTGGGGGCAATGGCTCGGTGTCCTGCTGACACTCCCTGCTACAATCCTATACCTCTC  
 CCTCCATCGTCCCTGTGCCCTTCCCTTCCAGCGCACATTCCCTGCGCCTGGTACCTGCCCT  
 ATGCTCCGCCCTGCGCCCCCATCAATGTTCCGCCCTCCCTACTGACCCCGCCCTCCCG  
 CCATTATCCCCAGTCTTGCCGTGACGCCTTCTTTTCCCTCCCCCGCTGTGCACCGTACC  
 CCTTTCAACCCTCCCGTCCACGATAGCGGGGCCACCACCGGTGCCCCCGTCTTGGG  
 CCGTGTCCCCCCCCCTGAGGCGAAAAAGAAACG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007222

**Insert Size:**

4340 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\\_007222.3](#), [NP\\_009153.3](#)

**RefSeq Size:** 4937 bp

**RefSeq ORF:** 2622 bp

**Locus ID:** 11244

**UniProt ID:** [Q9UKY1](#)

**Cytogenetics:** 8q24.13

**Domains:** homeobox, zf-C2H2

**Protein Families:** Transcription Factors

**Gene Summary:** The members of the zinc fingers and homeoboxes gene family are nuclear homodimeric transcriptional repressors that interact with the A subunit of nuclear factor-Y (NF-YA) and contain two C2H2-type zinc fingers and five homeobox DNA-binding domains. This gene encodes member 1 of this gene family. In addition to forming homodimers, this protein heterodimerizes with members 2 and 3 of the zinc fingers and homeoboxes family. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 8 open reading frame 76 (C8orf76) gene. [provided by RefSeq, Feb 2011]  
Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.