

## Product datasheet for **RC214398**

### ZHX1 (NM\_001017926) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZHX1 (NM_001017926) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZHX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214398 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAGCAGGGCAAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGAACAAGATCCAGACCTTGAGT  
 TGATATCAGATTTGGATGAAGGTCTCCTGTGCTTACACCTGTAGAAAACACCAGAGCAGAGAGTATCTC  
 AAGTGATGAAGAGGTTTCATGAATCTGTGGATTCAGACAATCAGCAAAAATAAAAAAGTTGAAGGTGGATAT  
 GAATGTAATATTGTAATTTTCAAACCTCCAGATCTAAATATGTTTACTTTTCATGTGGATTCGGAACATC  
 CCAATGTAGTGCTAAATTCATCTATGTTTGTGTCGAATGCAATTTTCTTACAAAAGGTATGATGCACT  
 TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTAAGTTGACTATGGTGAACGTAATAAC  
 CAGACAATCTTTGAACAAAACAATAAATGATCTGACTTTTGTGTTAGTTTGTAAAGAGGAGAATGCAG  
 AGCAAGCAGAATCTACAGAAGTTTCTTCTCGGAATATCTATCAGTAAAACCTCATGAAAATGAT  
 GAAAAATAAAGTGAAAAATAACGGATTGCAGTTCATCATAACTCAGTTGAGGACGTTCCGTAAGAGAAA  
 GAGAATGAAATCAAACAGACCGTGAAGAAATGTAGAAAATCCAAGTTCTTCAGCTTCTGAATCTAATA  
 CAAGTACTTCCATTGTAACAGAATACATCCAAGTACTGCCAGCACGGTACTGACACCAGCAGCAGTTCT  
 TCCTGGATTGGCAGAGATGATAACTGCTGTATCTGCTCAGCAGAAATCTAATTTGATTCCCAAAGCTTA  
 ATCCCTGTTAATAGCATTCCACCTACAATGCTGCATTGGATAACAATCCCCTTTTACTTAAACCTTACA  
 ACAAGTCCCTTACCAACAATGTCAGAAATACAGTTCTTTCTGCTCAAGCAAAAATAACAGAGGAACA  
 GATCAAGATATGGTTTTAGCCCAACGTTTAAACATGGTGTAGTTGGACTCCCGAGGAAGTAGAGGAG  
 GCAAGAGGAAACAATCAATGGAACAGTGCATACCTGACCTCAGACCATAACTGTTATTCCTACACACA  
 TTTCCACAGGGAGTAATGGTTTACCATCTATTTTACAGACATGCCAAATAGTTGGTCAGCTGGTCTGGT  
 CCTTACTCAAGTGGCTGGAACAAACACCTTGCCAGTTACAGCACCTATAGCCTTGACAGTGGCAGCGGTT  
 CCAAGTCAAAAATAATATACAGAAAAGTCAAGTACCTGCTGCTCAGCCTACTGCAGAAAACAAAGCCAGCAA  
 CAGCAGCAGTTCCAATTCTCAAAGTGTCAAACATGAAACTGCATTGGTAAACCTGATTCAATTTGGCAT  
 TCGGGCAAAAAGACAAAAGAGCAACTGGCAGAAATTAAGGTTAGCTACCTTAAAAATCAGTTTCCCAT  
 GATTTCAGAAATATCAGACTTATGAAAATAACAGGCTGACGAAAGGAGAGATTAATAATGGTTTAGTG  
 ACACAAGGTACAACCAGAGAAATCAAAGAGTAATCAGTGTACATCTCAACAATGATTCTCTACCAC  
 CATTATTATAGACTCCAGTGTAAACACGGAATCCCAACTGTTGGTACTGCACAGCCTAAGCAATCC  
 TGGAACTCTTTCTGACTTTACTCCCCAAAAGTTTAAAGAGAAAACGCAGAGCAGCTTGTGTCCTTC  
 AGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGAATTAATAGGTTAAGGGCACAAACCAAAC  
 TACCAGAAGAGAAATCGATGCTTGGTTTACAGAGAAGAAGAAATCAAAGCTTTAAAGGAAGAGAAAATG  
 GAAATAGATGAAAGTAATGCAGGTAGTTCCAAAGAAGAAGCTGGAGAAACTTCTCCTGCAGATGAATCTG  
 GTGCACCTAAGTCAGGGAGTACAGGCAAGATATGTAACAAAACACCTGAGCAGCTGCACATGCTTAAGAG  
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 AGAACAGACATAGTTAGTTGGTTTGGGGACACCCGTTATGCTTGGAAAGATGAAACTTGAATGGTACT  
 ACTACTATCAGAGCGCAATTCAAGTAGTATGAATGGTCTGTCTCCCTTAGGAAAAGAGGGAGAGGGAG  
 ACCCAAAGGACGGGAAGAGGAAGACCGGCTGGGCGCCTAGAGGAAGCAAAAAGAAATTAACAACCTGGGAC  
 AGGGGACCATCACTCATAAAATTTAAACTGGAAGTGAATACTTAAGGATTATTACCTGAAGCGCAAGT  
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 GTTTGCAGAAAGACAGAGAAGATCAGAATTAGGTATAGAATTTTGGAGAAAATGAGGAGGAAGATGAA  
 GTTATTGATGACCAGGAAGAGGATGAAGAAGAAACAGATGATAGTACACTTGGGAACCTCCACGACATG  
 TGAACCGAAGCTGTCTAAATCAGATGAC

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214398 protein sequence  
Red=Cloning site Green=Tags(s)

MASRRKSTTPCMVLASEQDPDLELISDLDEGPPVLTVENTRAESISSDEEVHESVSDSNQNKKEGGY  
ECKYCTFQTPDLNMFTHVDSEHPNVVLNSSYVCVECNFLTKRYDALSEHNLKYHPGEENFKLTMVKRNN  
QTIFEQTINDLTFDGSFVKEENAEQAESTEVSSTSGISISKTPIMKMMKKNVENKRIAVHHNSVEDVP  
ENEIKPDREEIIVENPSSSASESNTSTSIVNRIHPSTASTVVTPAAVLPGLAQMITAVSAQQNSNLIPKVL  
IPVNSIPTYNAALDNNPLLLNTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFSAQRLKHGVSWTPEEVEE  
ARRKQFNGTVHTVPQTITVIPHTISTGSNGLPSILQTCQIVGQPLVLTQVAGTNTLPVTAPIALTVAGV  
PSQNNIQKSQVPAQAQPTAETKPATAAVPTSQSVKHETALVNPDSFGIRAKKTKEQLAELKVSYLKNQFPH  
DSEIIRLMKITGLTKGEIKKWFSDTRYNQNRNSKNQCLHLNNDSTTIIIDSSDETTEPTVGTAPKQS  
WNPFPDFTPQKFEKTAEQLRVLQASFLNSSLTDEELNRLRAQTKLTRREIDAWFTEKKKSKALKEEK  
EIDESNAGSSKEEAGETSPADES GAPKSGSTGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAKESGLA  
RTDIVSWFGDTRYAWKNGNLKYYYYYSANSSSMNGLSSLRKRGRGRPKGRGRGRPRGRPRGSKRINND  
RGPSLIKFKTGTAIILKDYLLKRFLEQDLDELVNKSHMGYEQVREWF AERQRRESELGIELFEENEDEE  
VIDDQEEDEEETDDSDTWEPPRHVKRKLKSSDD

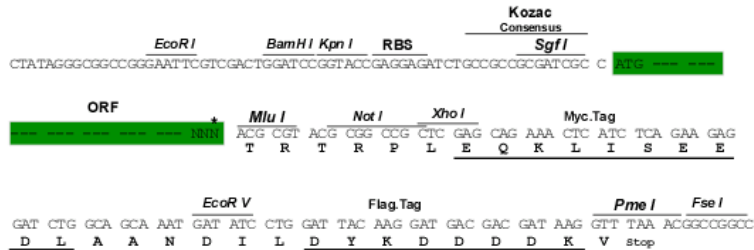
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6694\\_h04.zip](https://cdn.origene.com/chromatograms/mk6694_h04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

- ACCN:** NM\_001017926
- ORF Size:** 2619 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- 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\\_001017926.2](#)

**RefSeq Size:** 5234 bp

**RefSeq ORF:** 2622 bp

**Locus ID:** 11244

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

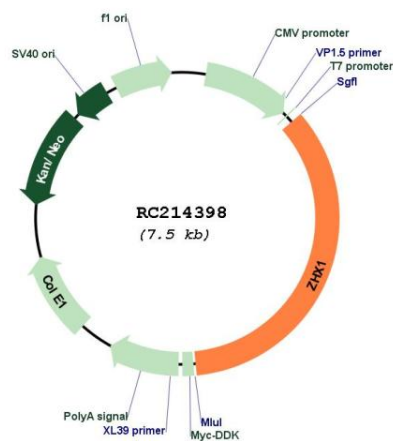
**Cytogenetics:** 8q24.13

**Protein Families:** Transcription Factors

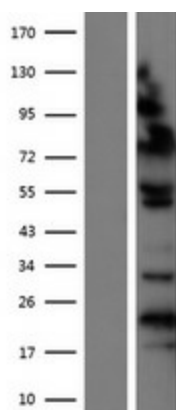
**MW:** 98.1 kDa

**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]

### Product images:



Circular map for RC214398



Western blot validation of overexpression lysate (Cat# [LY422755]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214398 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).