

## Product datasheet for **RR212891**

### Zhx3 (NM\_001047097) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx3 (NM_001047097) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zhx3
Synonyms:	Tix1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212891 representing NM\_001047097  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGCAAGAGGAAGTCCACTACCCATGCATGATCCCGTTAAGACCATGGTGTGCCGGGTGCCA  
 GCACAGAGGCTCAGCCTGTGGAACCTCTACCTGAAGTCCCAGCAGGACCTTCCCTCAGAGGCCCTGA  
 AGCCAGCAGTGAGGCAGCCCAAACCCAGCAGCACTGATGGCTCTGCCCTGGCAAATGGCACCAGGGG  
 ACTTTGGACGGCTACGTATATTCTGTAAGGAGTGTGACTTCAGGTCCCAGGATGTGACCCACTTTGTAG  
 GACACATGACTTCAGAACACACGGACTTAAATAAGACCCACATTTTGTATGTACAGGGTGCAGTTTCT  
 GGCAAAAACCCCTGAAGGGCTGTCCCTGCATAATGCCAAGTGTCACTCAGGGGAAGCCAGCTTTCTGTGG  
 AATGTGACCAAGCCAGACAATCATGTGGTGGTGGAGCAGAGTGTCCCTGAGAATGCTAGCTCATCTGTCC  
 TAGCAGGTGAGTCTACTGAAGGGACTGAAATCATATTACCAAGACTCCAATCATGAAGATAATGAAAGG  
 CAAAGCTGAAGCCAAGAAAATCCATATGCTTAAAGAGAACGCTCCTACTCAGCCTGGCGGGGAGGCTTG  
 CCTAAGCCATTGGCCGGGAGACAGAGGGTAAAGAGGGGGACCACACTTTCATCAATGGGGCCACTCCAG  
 TCAGTCAGGCATCTGCTAATCCACAAAACCCCTCATACTGCCAATGGGCCCTGATAGGAACAGTGCC  
 CGTATTGCCAGCTGGCATAGCACAGTTCCTCTCCCTCCAGCAGCCACAGTACATCCCCAGCACCATCCC  
 CACCAACCCCTGCCACATCCAAGGCCCTTCCAAAAGTCATGATCCCCCTGAGCAGCATCCCACATACA  
 ATGCAGCCATGGACTCCAACAGTTTTCTGAAGAACTCCTTCCACAAAATCCCCTACCAACCAAAGCTGA  
 GCTCTGCTACTTGACTGTGGTGACCAAGTATCCAGAAGAAGCAGCTTAAATCTGGTTCACAGCCAGAGA  
 CTGAAGCAGGGAATCAGCTGGTCTCTGAGGAGATCGAAGATGCCAGGAAAAGATGTTCAATACAGTCA  
 TCCAGTCTGTGCCTCAGCCACAATCACAGTTCTAAACACACCCTTGTGGCAGTGTGCAATGTCCA  
 GCACCTCATCCAGGCTGCTCTCCAGGTATGCTGTGGGACAGCCTGAGGGCACACAGCGGGGCTGTTG  
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 AGAGTGAAGTAGAGCACCTGACCAAGTACAGGCCTCAGCACCAGAGAGGTCCGGAAGTGGTTCAGTGA  
 CCGGAGATATCACTGCCGAACCTGAAGGGCACCAGGGCCATGGTGCCTGGAGAGCATGGCTCTGTTCTC  
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 CAAATACAAAGAGAGAGCCCCAGAGCAGCTGCGAGTGCTAGAGAGCAGCTTTGCACAAAACCCACTTCCC  
 CCCGAGGAGGAGCTGGACCGCTAAGAAGTGAACAAAATGACCCGGAGGGAAATGATGGCTGGTTCT  
 CAGAGAGGCGGAAAAGGGTGAATGCGGAGGAGACAAAAGGGTGAATGGGCATGCGCCTCAGGAGGAGGC  
 AGAGGGTGCAGGAGGAGGGTGAAGATGAAGAGCTGGCCAGTGAAGTGAAGGGCTCCTGGTGAATGGC  
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 ACCTGCGGGTCACTGAAGCCAGTGGCAAGAGTGAAGTTCGGGGATGGGGATGGGTGTCTGTGAGCCTGA  
 GGAAGATGGCTTGAACAAGGCGGTAGAGCAGCCGCCCAGCAGAGTAAGCTACAAGAAGACTGCACAGCAG  
 CGCCACTTGTGCGGCAGCTCTTTGTCCAGACACAGTGGCCAGCAACCAGGACTACGACTCCATCATGG  
 CCCAAACAGGGCTGCCCGGCGGAGGTGGTTCGCTGGTTTGGTATAGCAGGTATGCCCTTAAGAACGG  
 CCAGCTCAAGTGGTACGAAGACTATAAGAGGGGCAACTTCCCACCAGTTTGTGGTGCATAGCCCCTGGC  
 AACCGAGAGCTGTGCAAGATTATTACATGACACACAAGATGCTGTGTGAGGAGGACCTGCAGACCTCT  
 GCGAGAAGACCCAGATGAGTGCCAGCAGGTCAAGCAGTGGTTTGTGAGAAAATGGGTGAAGAGACCCG  
 GGCTGTGGCAGATAAAGCAGTGAAGTCAAGGCGCTGGACACGGAGAGCCTGTGGCAGTTGACAAGGTG  
 CTGGGCGATGCCTGTGCAGCGTGTCTGAGAACAGTGAAGCATGGGAGCCAAGTGTCTCTGAGGCCGGCT  
 CAGAGCCCTTTGACACTCAAGTCCCAGTCCGGACGTGAGTCTGAAACAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR212891 representing NM\_001047097  
 Red=Cloning site Green=Tags(s)

MASKRKSTTPCMIPVKTMVLPGASTEAPVEPLPEGPQQDLPEAPEASSEAAPNPSSTDGSALANGHRG  
 TLDGYVYSCKECDFRSQDVTHFVGHMTSEHTDFNKDPHFVCTGCSFLAKTPEGLSLHNAKCHSGEASFLW  
 NVTKPDNHVVVEQSVPENASSSVLAGESTEGTEIIITKTPIMKIMKGKAEAKKIHMLKENAPTQPGGEAL  
 PKPLAGETEGKEGDHTFINGATPVSQASANSTKPPHTANGPLIGTVPVLPAGIAQFLSLQQPTVHPQHHP  
 HQPLPTSALPKVMIPLSSIPTYNAAMDSNSFLKNSFHKFPYPTKAELCYLTVVTKYPEEQKLIWFIAQR  
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 VTQPLMANGLQASSSSLPLTTASVPKPTAAPINTVCSNTTSAVKVVNAAQSLLTACPSITSQAFLDANIY  
 KNKKSHEQLSALKGSFCRNQFPQGSEVEHLTKVTGLSTREVRKWFSDRRYHCRNLKTRAMVPGEHGSVL  
 IDSVPEVPFPLSSKVPEVPCVPTATSLVSHPATKRQSWHQTPDFPTKYKERAPEQLRVLESSFAQNPLP  
 PEEELDRLRSETKMTREIDGWFERRKRVNAEETKKADGHAPQEEAEGAEEEGRDEELASELRAPGENG  
 SSEMFLSHTLAERKVSPIKINLKNLRVTEASGKSELPGMGMVCEPEEDGLNKAVEQPPSRVSYKKAQQ  
 RHLLRQLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNQGLKWYEDYKRGNFPPGLLVIAPG  
 NRELLQDYMYMTHKMLCEEDLQTLCEKTQMSAQVQKQWF AEKMGEE TRAVADT SSEDQGP GHGEPVAVDKY  
 LGDACAALSENSEAWEPSAPEAGSEPFDTSSPQSGRQLETD

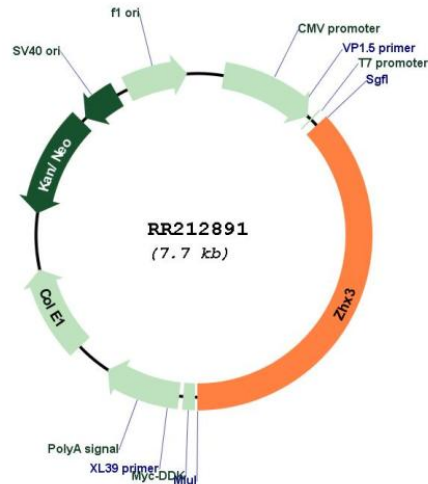
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001047097

**ORF Size:** 2853 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\\_001047097.1](#), [NP\\_001040562.1](#)

**RefSeq Size:** 3621 bp

**RefSeq ORF:** 2856 bp

**Locus ID:** 311604

**UniProt ID:** [Q80Z36](#)

**Cytogenetics:** 3q42

**MW:** 103.8 kDa

**Gene Summary:** transcriptional repressor; dimerizes with both ZHX1 and itself [RGD, Feb 2006]