

## Product datasheet for MC201998

### Zhx2 (NM\_199449) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx2 (NM_199449) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zhx2
Synonyms:	Afr-1; Afr1; mKIAA0854; Raf
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC059178 sequence for NM\_199449  
 GTGGGGGAGCCAGCAGAGTTCATTTTGAACGCCCGTGCCTCGTCTCCGCGTTCCAGCCCGGGTCCC  
 CGCGTTTCGACGCCCGGCGCAGGTCTCCATGCACTGGCTGCTCTGGGAATCTGGTGCAGATCCCCAGG  
 ATGTAAGGAACTCACAGCAGACTGATAGGAAGCTGCCTGGTTTCGCTCAGAGATTGCTACAGTTACAAT  
 TGCTGTGCTGAAATCCTTCTGAAACACTCACCCGGAAGACGTCAACCAAGGAAGCCAAAGGCATT  
 TGAGAGGGAGTAGAGCCAAAAGCTGAGAATCTCACTGCTCACCACCCACCCACTCCAGAAAGAAGC  
 TGTTGCTCAGAGGCAGACGGCATGGCAAGCAAACGGAAATCTACAACCTCCCTGCATGGTTGCGACATCAC  
 AGGTAAGGAAACAGATATGCTGGAGGAGGCAGACAGGGCCAAAGACAAAGGAGCGGGCATGCCACAGTC  
 CGATGTGACAAAGGACAGCTGGGCAGCGAACCTGAACATTCGTCCAAAGAAACCGAAGTGGTTGAGGTG  
 AAATCTATGGGGGAGAACCTGTCCAAAAACTACAGGGCGGTTATGAGTGCAAACTACTGCCCTTATTCCA  
 CGCAAAATCTGAATGAGTTCACAGAACAGTGGACATGCAACATCCTAACGTGATTCTCAACCCCTCTA  
 CGTATGTGCCGAATGTAACCTTACAACCAAAAAGTACGACTCCTTGTCTGACCACAACCTCAAGTCCAT  
 CCGGGGGAGACCAACTTCAAGCTGAAATTAATCAAGCGCAATAATCAGACGGTTCTAGAACAGTCCATCG  
 AAGCCACCAACCAGTCGTCGCCATCACTGCCAGTGGTCTGGAAGTAGTGATAACGACCCCTGGGGTCTC  
 GGTAGGAAAAACCCCATGACAAAGACAGGAAAGCTGAAGGCAGATGCCAAGAAAGTGCCCAAGAAGCCT  
 GATGAGGCTGCCCCAGAAAACCATGGAAGGGACCGCCCGCCTGGTGACAGACACAGCTGAGATCCTCG  
 CCAGACTTGGTAGCGTGGAGCTCCTTCAAGATTCAGTGGACATGTCATGCCTCCGTACAGCTGCCACC  
 AAATATCAACCTTGTCCCAAGGTCCCCGTCCCCTGAATACTACCAAAACAACCTTGCCTGGACACA  
 AATGCTACCATGATCAACTCCTTCAACAAGTTCCTTACCCACCCAGGCTGAGCTCCTGGCTGACGG  
 CGGCCTCAAACACCCAGAGGAGCATCCGAATCTGGTTTGCCACCCAGCGTTTAAAGCACGGTATCAG  
 CTGGTCCCAGAGGAGGTGGAGGAGGCCCGGAAGAAGATGTTTAAACGGCACGATTCAAGTACGACAGTCCCGG  
 ACTATCACTGTGCTTCTGCTCAGCTGACTCCCAAAAAGTGTACAGCCCATCCTCCAGACAGCCCTAC  
 CATGCCAGATCCTTGCCAGCCAGCCTGGTGCTGACTCAAGTGACAAGCGGGTCAACAACCTGTCTCCTG  
 CTCTCCCATCACACTTGCAGTGGCTGGGGTGACCAATCATGGCCAGAAGAGACCTCTGGTACTCCTCAA  
 GCTGCCCTGAGCCGAAGCGTCCACACATTGCCAGGTGCCAGAACCTCCACCAAGGTGGCCAATACCC  
 CGCTCACCCAGCTAGCGACCGCAAGAAGCAAGCTACAGATAGCTCACCTCAAGGCAAGCTTCTTACA  
 GAGCCAGTCCCTGACGATGCTGAGGTCTACCGGCTCATTGAGGTGACAGGCCTTGCAGGAGTGAGATC



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AAGAAGTGGTTTCAGTGACCACCGCTACCGGTGTCAGAGGGGCATCGTCCACATCACCAGCGAATCCCTTG  
 CCAAAGACCAGATGGCCATTACTGGCACCCGGCACGGCCGCACCTACCATGTATACCCAGACTTTGCCCC  
 GCAGAAGTTCAAAGAGAAAAGCCAAGGACAGTTGAAAACCTGGAAGACAGCTTTCTAAAAAGCTCCTTT  
 CCCACCCAGGCAGAAAGTGAACGGCTGAGGGTGGAGACCAAGCTGAGCAGGAGGGAAATCGACTCCTGGT  
 TCTCAGAGAGGCGGAAGCTTCGAGACAGCATGGAGCAGGCTGTGTGGATTCCATGGGGTCTGGCAAAAA  
 GGGTCAGACGCGGTAGCCCCAATGGTGCTCTATCCCGACTTGATCAGCTCTCTGGTGCCAGTTAGCT  
 GGTCTTTGCCAGTCTTCATCAGCAATTGTACAAAATCAAGAACAGGTTACCTGCTCAGGAGCACTT  
 TTGCAAGAACCCAGTGGCCACTCCTCAGGAGTACGATCAGTTAGCTGCCAAGACCCGGCCTGGTCCGAAC  
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 TACCAGCGGCATCACATGTCAGATGACCCTGGTGTGATGCCGTATCAAGAAAGGTGGCAAAACAAGTTG  
 CTGAGAGCCCAAAGAATGGAAGCGAGGCGGCACATCAGTATGCCAAGGACCCCAAAGCACTCAGCGAGGA  
 GGACTCCGAGAAGCTGGTCCGAGGATGAAAGTGGGTGGTATCCAACCAAGGACTGTTTGGCAGGCAAG  
 CCCTCAGAGGCCACCTCAGACAGATCAGAGGGCAGCCGAGATGGCCAGGGCAGTGAGGAGAACGAGGAGT  
 CAGGCATCGTGGACTTTGTGGAGGTGACAGTTGGTGAGGAGGACGCCATCTCAGAGAAGTGGGTAGCTG  
 GAGCCGGAGAGTAGCAGAAGGCACAGTGGAGAGGGCAGACTCCGACTCCGACAGCACCCCTCAGAGGCC  
 GGCCAAGCCTAGACAGGGCATCGGTCTGAACCTCCGCACTGACGAGGGAGGTGCTGTCTTTGAAAGAG  
 AGAAGAAAGCCCCGCCAGTGGCTGTGGGCCACCTCACCAGCGACTCTGAGCAGGCGTGTTCAGTGGT  
 GCCTGGAGGCCACAGAACTCCGGAGCTCTCAATGTCCCTCCCAGAGGCTGGGTGGGAGTTGTTCAAGT  
 GCCAAAGTCTACTACTGCGTTTTCAATGGGTCCCTGTGCGTAGCCTTTGCCTTCGCCCCAGCCCCGCT  
 CTTGCTATACTGGAAGTATTTAACAATGTGGGAATTTTGTACCTTTTTAATCGAGGGCAACTTCCTT  
 TTTCCAGCACTTCTGTGGTAAGGCGTTTGCAATTTGTTTTGTTTTGTTTTGTTTCACCCCAGGAAGGAG  
 GGCTAACACATTGCTTTTCTTTCTTTCTTTCTTTCACTTTAGTAAAGGGGGAGGGAGCATTAGC  
 ATAAGTACCAGTGTATCTACTGGATTTTAGGTAGGACGGATTTCTTTAAGGTAGTTGACATGGGAG  
 ATGCCTTGGTGGGAAGGGCTGACGCTGTGGCGCAAAGTGGGATGAGCTCACAAAGAGCCTTCCCATCAAA  
 CCTTCCAGTTCACCGCTGCCTTTTGGGACCCCTGCCTCAGCTGGCTTCTCAACTGCCTTGATAATT  
 GGGGAACAGTGGTTGCCTCTTTACAAATCGTTTTGAAATACCAGCAGAAAGGGCTCCCACAACACTTG  
 ATGTCACCATCACTCTTGGGAAATTAAGAGAGTGGTCTTCCCGCCTAGGTGTAGTACCAGGTAACAT  
 CCCTGCTTTTCTTTCTTTCTCACCACCTTTCTTGGTGTGGCTTTTGGCAAGATTTAGCTCAAAGCC  
 TCACTAATGGATTGATTTGTTGTTGTTGTTCTGTGTCTGTGTGTGTGCGCGCGTGCCTGCGTGT  
 GTTGGGCAATTTAGATACTGAGTGCCTTTTTTTTTTTTTTTAGTTAGTCTAGCTTTTAAAGAAAG  
 AAAGCCAAGAGATCTAGTTGGTGTAAATGTGGAGACAGGATTCTGTTGCTGTCTTGTCCCTCCCC  
 ACCCCGACAGCCCCGACCCACTGGAGTACACTGCACAAATTAATGCTAGGGAGTTTGAATAAAAGCA  
 GTTTTTCTAACTTGTGCTCATCTGTTGTAACCAATAAAGCAAAGACTAAACGTTTTTCTAAAAA AAAAAAAAAA

**Restriction Sites:**

AclI-NotI

**ACCN:**

NM\_199449

**Insert Size:**

2511 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:** [BC059178](#), [AAH59178](#)

**RefSeq Size:** 4143 bp

**RefSeq ORF:** 2511 bp

**Locus ID:** 387609

**UniProt ID:** [Q8C0C0](#)

**Cytogenetics:** 15 24.01 cM

**Gene Summary:** Acts as a transcriptional repressor (PubMed:19515908). Represses the promoter activity of the CDC25C gene stimulated by NFYA (By similarity). May play a role in retinal development where it regulates the composition of bipolar cell populations, by promoting differentiation of bipolar OFF-type cells (PubMed:30146259). In the brain, may promote maintenance and suppress differentiation of neural progenitor cells in the developing cortex (PubMed:19515908).[UniProtKB/Swiss-Prot Function]