

Product datasheet for **MR210894**

Zhx2 (NM_199449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx2 (NM_199449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zhx2
Synonyms:	Afr-1; Afr1; mKIAA0854; Raf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210894 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAAGCAAACGGAAATCTACAACCTCCCTGCATGGTTCGGACATCACAGGTAAGTGAACAAGATATGC
TGGAGGAGGCAGACAGGGCCAAAGACAAAGGAGCGGGCATGCCACAGTCCGATGTGACAAAGGACAGCTG
GGCAGCGGAACCTGAACATTCGTCCAAAGAAACCGAAGTGGTTGAGGTGAAATCTATGGGGGAGAACCTG
TCCAAAAAATACAGGGCGGTTATGAGTGCAAATACTGCCCTTATCCACGCAAAATCTGAATGAGTTCA
CAGAACACGTGGACATGCAACATCTAACGTGATTCTCAACCCCTCTACGTATGTGCCGAATGTAACCTT
CACAACCAAAAAGTACGACTCCTTGTCTGACCACAACCTCAAGTCCATCCGGGGGAGACCAACTTCAAG
CTGAAATTAATCAAGCGCAATAATCAGACGGTTCTAGAACAGTCCATCGAAGCCACCAACCAGTCGTGC
CCATCACTGCCAGTGGTCTGGAAGTAGTGATAACGACCCTGGGGTCTCGGTAGGAAAAACCCCATGAC
AAAGACAGGAAAGCTGAAGGCAGATGCCAAGAAAGTGCCCAAGAAGCCTGATGAGGCTGCCCCAGAAAAC
CACATGGAAGGGACCGCCCGCTGGTGACAGACACAGCTGAGATCCTCGCCAGACTTGGTAGCGTGGAGC
TCCTTCAAGATCACTGGGACATGTCATGCCTCCGTACAGCTGCCACCAAAATATCAACCTTGTCCCCAA
GGTCCCGTCCCGCTGAATACTACCAAATAACAACCTCTGCCCTGGACACAAATGCTACCATGATCAACTCC
TTCAACAAGTTCCTTACCCACCCAGGCTGAGCTCTCCTGGCTGACGGCGGCCTCCAAACCCAGAGG
AGCACATCCGAATCTGGTTTGCCACCCAGCGTTTAAAGCACGGTATCAGCTGGTCCCCAGAGGAGGTGGA
GGAGGCCCGGAAGAAGATGTTTAAAGGCACGATTCACTCAGTACCCCGACTATCACTGTGCTTCTCTGCT
CAGCTGACTCCCACAAAAGTGTCACAGCCATCCTCCAGACAGCCCTACCATGCCAGATCCTTGGCCAGC
CCAGCCTGGTCTGACTCAAGTGACAAGCGGGTCAACAACCTGTCTCCTGCTCTCCATCACACTTGGCGT
GGCTGGGGTGACCAATCATGGCCAGAAGAGACCTCTGGTGACTCCTCAAGCTGCCCTGAGCCGAAGCGT
CCACACATTGCCAGGTGCCAGAACCTCCACCCAGGTGGCCAATACCCCGCTCACCCAGCTAGCGACC
GCAAGAAGACCAAGCTACAGATAGCTCACCTCAAGGCAAGCTTCTTACAGAGCCAGTTCCCTGACGATGC
TGAGGTCTACCGCTCATTGAGGTGACAGGCCTTGCAGGAGTGAGATCAAGAAGTGGTTCACTGACCAC
CGCTACCGGTGTGAGAGGGGCATCGTCCACATCACCAGCGAATCCCTTGCCAAAGACCAGATGGCCATTA
CTGGCACCCGGCACGGCCGACCTACCATGTATACCCAGACTTTGCCCGCAGAAGTTCAAAGAGAAAAG
CCAAGGACAGTTGAAAACCTGGAAGACAGCTTTCTAAAAAGCTCCTTTCCACCCAGGCAGAAGTGGA
CGGCTGAGGGTGGAGACCAAGCTGAGCAGGAGGAAATCGACTCCTGGTTCTCAGAGAGGCGGAAGCTTC
GAGACAGCATGGAGCAGGCTGTGTTGGATTCCATGGGGTCTGGCAAAAAGGGCTCAGACGCGGTAGCCCC
CAATGGTCTCTATCCCGACTTGATCAGCTCTCTGGTGCCAGTTAGCTGGTTCTTTGCCAGTCCCTTCA
TCAGCAATTGTACAAAATCAAGAACAGGTTACCTGCTCAGGAGCACTTTTGCAAGAACCAGTGGCCCA
CTCCTCAGGAGTACGATCAGTTAGCTGCCAAGACCGGCCTGGTCCGAAGTGAATTTGTCGCTGGTTCAA
GGAGAACAGATGCTTACTAAAACTGGAACGTTGAGCTGGCTGGAGCAGTACCAGCGGCATCACATGTCA
GATGACCGTGGTCTGATGCCGTATCAAGAAAGGTGGCAAAACAAGTTGCTGAGAGCCCAAGAATGGAA
GCGAGGCCGCACATCAGTATGCCAAGGACCCAAAGCACTCAGCGAGGAGGACTCCGAGAAGCTGGTCCC
GAGGATGAAAAGTGGTGGTATCCAACCAAGACTGTTTGGCAGGCAAGCCCTCAGAGGCCACCTCAGAC
AGATCAGAGGGCAGCCGAGATGGCCAGGGCAGTGAGGAGAACGAGGAGTCAAGCATCGTGGACTTTGTGG
AGGTGACAGTTGGTGGAGGAGACCCATCTCAGAGAAGTGGGGTAGCTGGAGCCGGAGAGTAGCAGAAGG
CACAGTGGAGAGGGCAGACTCCGACTCCGACAGCACCCCTGCAGAGGCCGGCCAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210894 protein sequence
Red=Cloning site Green=Tags(s)

MASKRKSTTPCMVRTSQVLEQDMLLEADRADKDGAGMPQSDVTKDSWAAEPEHSSKETEVVEVKSMDGENL
SKKLQGGYECKYCPYSTQNLNEFTEHVDMQHPNVILNPLYVCAECNFTTKKYDSLSDHNSKFHPGETNFK
LKLIKRNNQTVLEQSIEATNHVVPITASGPGSSDNDPGVSVGKTPMTKTGKLGKADAKKVPKKPDEAAPEN
HMEGTARLVTDTAEILARLGSVELLQDSLGHVMPVSVQLPPNINLVKVPVPLNTTKYNSALDTNATMINS
FNKFPYPTQAELSWLTAAASKHPEEHIRIWFATQRLKHGISWSPEEVEEARKKMFNGTIQSVPTITVLP
QLTPTKVSQPIQLTALPCQILGQPSLVLTQVTSGSTTVSCSPITLAVAGVTNHGQKRPLVTPQAAPEPKR
PHIAQVPEPPPKVANTPLTPASDRKKTQLIAHLKASFLQSQFPDDAEVYRLIEVTGLARSEIKKWFSDH
RYRCQRGIVHITSESLAKDQMAITGTRHGRTYHVYPDFAPQKFKEKSQGLKLTLEDSFLKSSFTQAEVE
RLRVETKLSRREIDSWFSERRKLRDSMEQAVLDSMSGKKGSDAVAPNGALSRLDQLSGAQLAGSLPSPS
SAIVQNQEQVHLLRSTFARTQWPTPQEQYDQLAAKTGLVRTEIVRWFKENRCLLKTGLSWLEQYQRHHMS
DDRGRDAVSRKVAKQVAESPKNGSEAAHQYAKDPKALSEEDSEKLVPRMKVGGDPTKDCLAGKPEATSD
RSEGRDQGGSEENEESGIVDFVEVTVGEEDAISEKWGWSRRVAEGTVERADSDSDSTPAEAGQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_199449.2](#), [NP_955520.1](#)

RefSeq Size: 4392 bp

RefSeq ORF: 2511 bp

Locus ID: 387609

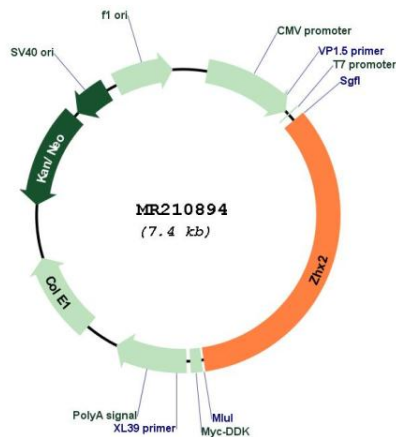
UniProt ID: [Q8C0C0](#)

Cytogenetics: 15 24.01 cM

MW: 92.3 kDa

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]

Product images:



Circular map for MR210894