

Product datasheet for **MG210894**

Zhx2 (NM_199449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx2 (NM_199449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zhx2
Synonyms:	Afr-1; Afr1; mKIAA0854; Raf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210894 representing NM_199449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAGCAAACGGAAATCTACAACCTCCCTGCATGGTTCGGACATCACAGGTAAGTGAACAAGATATGC
 TGGAGGAGGCAGACAGGGCCAAAGACAAAGGAGCGGGCATGCCACAGTCCGATGTGACAAAGGACAGCTG
 GGCAGCGGAACCTGAACATTCGTCCAAAGAAACCGAAGTGGTTGAGGTGAAATCTATGGGGGAGAACCTG
 TCCAAAAAATACAGGGCGGTTATGAGTGCAAATACTGCCCTTATCCACGCAAAATCTGAATGAGTTCA
 CAGAACACGTGGACATGCAACATCCTAACGTGATTCTCAACCCCTCTACGTATGTGCCGAATGTAACCT
 CACAACCAAAAAGTACGACTCCTTGTCTGACCACAACCTCAAGTCCATCCGGGGGAGACCAACTTCAAG
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 CACATGGAAGGGACCGCCCGCTGGTGACAGACACAGCTGAGATCCTCGCCAGACTTGGTAGCGTGGAGC
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 AGATCAGAGGGCAGCCGAGATGGCCAGGGCAGTGAGGAGAACGAGGAGTCAAGCATCGTGGACTTTGTGG
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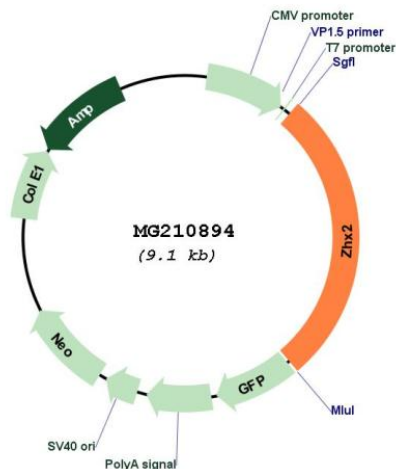
ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210894 representing NM_199449
Red=Cloning site Green=Tags(s)

MASKRKSTTPCMVRTSQVLEQDMLLEADRADKDGAGMPQSDVTKDSWAAEPEHSSKETEVVEVKSMDGENL
SKKLQGGYECKYCPYSTQNLNEFTEHVDMQHPNVILNPLYVCAECNFTTKKYDSLSDHNSKFHPGETNFK
LKLIKRNNQTVLEQSIEATNHVVPITASGPGSSDNDPGVSVGKTPMTKTGKLGKADAKKVPKKPDEAAPEN
HMEGTARLVTDTAEILARLGSVELLQDSLGHVMPVSVQLPPNINLVKVPVPLNTTKYNSALDTNATMINS
FNKFPYPTQAELSWLTAAASKHPEEHIRIWFATQRLKHGISWSPEEVEEARKKMFNGTIQSVPTITVLP
QLTPTKVSQPIQLTALPCQILGQPSLVLTQVTSGSTTVSCSPITLAVAGVTNHGQKRPLVTPQAAPEPKR
PHIAQVPEPPPKVANTPLTPASDRKKTQLIAHLKASFLQSQFPDDAEVYRLIEVTGLARSEIKKWFSDH
RYRCQRGIVHITSESLAKDQMAITGTRHGRTYHVYPDFAPQKFKEKSQGLKLTLEDSFLKSSFTQAEVE
RLRVETKLSRREIDSWFSERRKLRDSMEQAVLDSMSGKKGSDAVAPNGALSRLDQLSGAQLAGSLPSPS
SAIVQNQEQVHLLRSTFARTQWPTPQEYDQLAAKTGLVRTEIVRWFKENRCLLKTGTLWLEQYQRHHMS
DDRGRDAVSRKVAKQVAESPKNGSEAAHQYAKDPKALSEEDSEKLVPRMKVGGDPTKDCLAGKPSEATSD
RSEGRDQGGSEENEESGIVDFVEVTVGEEDAISEKWGWSRRVAEGTVERADSDSDSTPAEAGQA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_199449

ORF Size: 2508 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_199449.2](#), [NP_955520.1](#)

RefSeq Size: 4392 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]