

Product datasheet for **MR211285**

Zhx3 (NM_177263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx3 (NM_177263) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zhx3
Synonyms:	1810059C13Rik; 4932418O04Rik; 9530010N21Rik; mKIAA0395; Tix1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211285 representing NM_177263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCAAAAAGGAAGTCCACCACCCCATGCATGATCCCCGTTAAGACCGTGGTGTGCCGGGTGCCA
 GCACAGAGCCTCAGCCTGTGGAGTCTCTGCCTGAAGTCCCAGCAGGATCTTCCCTCAGAGGCACCTGA
 TCGCAGCAGCGAGGCAGCCCCAAACCCAGCAGCACTGATGGCTCTGCCCTGGCAAATGGCACCAGGAGC
 ACTTTGGATGGCTATGTATATTGCTGTAAGAGTGTGAGTTCAGGTCCCAGGATGTGACCCACTTTATAG
 GACATATGAACTCAGAGCACACAGACTTTAATAAAGACCCAACTTTTGTATGTACAGGGTGCAGTTTCT
 GGCAAAAAACCTGAAGGACTTTCCCTGCATAATGCCAAGTGTCACTCAGGGGAAGCCAGCTTTTGTGG
 AATGTGACCAAGCCAGACAATCATGTAGTAGTGGAGCAGAGTGTCCCTGACAGTGTAGCTCATCTGTCC
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 AGGCAAGCTGAAGCCAAAAAATCCATATGCTTAAAGAGAACGCTCCTAATCAGCTGGGAGTGAGGCC
 TTGCCTAAGCCATTGGCAGGGGAGAGAGAGGTTAAAGAGGGGGACCACACTTTCATCAATGGGGCAGCTC
 CAGGCAGTCAGGCATCTGCTAAGTCCACAAAACCCCTCCTGCTGCCAATGGGCCCTGATAGGAACAGT
 GCCTGTCTTGGCAGCTGGTATAGCACAGTTCCTCTCCCTCCAGCAGCAGCCCCAGTACATGCCAACAC
 CACACCACCAACCCCTGCCTACATCCAAGACCCTCCGAAAGTCATGATCCCCTTGAGCAGCATCCCAA
 CATATAATGCAGCTATGGACTCCAACAGCTTTCTGAAGAACTCCTTCCACAAATCCCCTACCCAACAA
 AGCTGAGCTCTGCTATTTGACTGTGGTGACCAAGTATCCAGAAGAACAGCTTAAATCTGGTTACAGCC
 CAGAGGCTGAAGCAAGGAATCAGCTGGTCTCCTGAGGAGATTGAAGATGCCAGGAAAAAGATGTTCAATA
 CAGTATCCAGTCTGTGCCTCAGCCACAATCACAGTTCTAAACACCCCGCTTGTGCCAGTGTGCCAA
 TGTACAGCACCTCATCCAGGCTACTCTCCAGGTCATGCTGTGGGACAGCCTGAGGGCACAGCAGGGGGG
 CTGTTGGTCACTCAACCACTGATGGCCAATGGGTTACAAGCATCAAGCTCATCTCTCCCTCTGACAACTG
 CATCTGTTCCCAAGCCAAGTGTGGCACCCATTAACACTGTGTGTTCAAATTCGGCATCAGCTGTGAAAGT
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 CTGGGCAGAGTGAAGTAGAGCATCTGACCAAGTACAGGCTCAGTACCAGAGAGGTGCCGAAGTGGTT
 CAGTGACCGGAGATCACTGCCGAATCTGAAGGGCTCCAGGGCCATGATGCCCGGAGAGCATGGCTCT
 GTTCTCATTGACTCTGTGCCAGAGGTGCCCTTTCCCTGGCATCTAAAGTTCAGAGGTGACCTGTATCC
 CAACAGCAACCTCACTAGTAAGCCACCCTGCCACCAACGACAATCTTGGCACCAGACCCAGACTTCAC
 ACCAACCAAAATACAAAGAAAGAGCCCCAGAGCAGCTGCGAGTCTAGAGAACAGCTTTGCACAAAACCCA
 CTTCCCCCGAGGAGGAGCTGGACCCGCTAAGAAGTGAACGAAAATGACTCGAAGGGAAATGATGGCT
 GGTTCTCAGAGAGGGCGGAAAAAGGTGAATACTGAGGAGACAAAGAAAGCTGATGGGCACATGCCTAAGGA
 GGAGGAGGAGGGTGTGAGCAGGAGGGTAGAGATGAAGAGTTGGCCAATGAGCTGAGGGTCCCTGGTGAA
 AATGGCTCTCTGAAATGTTCTTAGCCATGCCTTGGCAGAACGGAAGGTGAGCCCATCAAAATCAACC
 TCAAGAACCTGCGGGTCACTGAAGCCAGTGGCAAGAGTGAAGTTCCAGGGATGGGTGTCTGTGAGCCTGA
 GGAAGATGGTTTGAACAAGTTGGTGAACAGCCACCAAGCAAAGTAAGCTACAAAAAGACCGCACAGCAG
 CGTCAATTTGCTTCGGCAGCTCTTTGTCCAAACACAGTGGCCAAGCAACCAGGACTATGACTCCATTATGG
 CCCAAACAGGGCTGCCCGGCCAGAGGTGGTACGCTGGTTTGGAGATAGCAGGTATGCCCTTAAGATGG
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 AACCGAGAGCTGTGCAAGATTATTACATGACACACAAGATGTTGTGAGGAAGATCTGCAGACCCCTCT
 GTGATAAGACCCAGATGAGTGCCAGCAGGTCAAGCAGTGGTTTGTGAGAGATGGGTGAAGAGACCCG
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 CAGAGCCTTTTGACACTCAAGTCCCAGTCTGGACGTCAACTCGAAGCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211285 representing NM_177263
 Red=Cloning site Green=Tags(s)

MASKRKSTTPCMIPVKTVVLPGASTEPQVPELPEGPQQDLPEAPDASSEAAPNPSSDGSALANGHRS
 TLDGYVYCCKECEFRSQDVTHFIGHMNSEHTDFNKDPTFVCTGCSFLAKNPEGLSLHNAKCHSGEASFLW
 NVTKPDNHVVVEQSVPSASSSVLAGESTTEGTEIIITKTPIMKIMKGKAEAKKIHMLKENAPNQPGSEA
 LPKPLAGEREVKEGDHTFINGAAPGSQASAKSTKPPPAANGPLIGTVPVLPAGIAQFLSLQQQPPVHAQH
 HTHQPLPTSKTLPKVMIPPLSSIPTYNAAMDSNFLKNSFHKFPYPTKAELCYLTVVTKYPEEQLKIWFTA
 QRLKQGISWSPEEIEDARKKMFNTVIQSVQPQTITVLTNPLVASAGNVQHLLIQATLPGHAVGQPEGTAGG
 LLVTQPLMANGLQASSSSLPLTTASVPKPTVAPINTVCSNSASAVKVVNAAQSLLTACPSITSQAFLDAN
 IYKNKSHEQLSALKGSFCRNQFPQSEVEHLTKVTGLSTREVRKWFSDRRYHCRNLKGSRAMMPGEHGS
 VLIDSVPVEVFPPLASKVPEVTCIPTATSLVSHPATKRQSWHQTPDFTPKYKERAPEQLRVLENSFAQNP
 LPPEEELDRLRSETKMTRREIDGWFSERRKKNTEETKKADGHMPKEEEEAEQEGRDEELANELRVPGE
 NGSPMFSLHALAERKVSPIKINLKNLRVTEASGKSEFPGMGVCEPEEDGLNKLVEQPPSKVSYKKTAAQQ
 RHLLRQLFVQTQWPSNQDYDSIMAQTGLPRPEVVRWFGDSRYALKNQGLKWYEDYKRGNFPPGLLVIAPG
 NRELLQDYMYMTHKMLCEEDLQTLCDKTQMSAQVQKQWFAEKMGEE TRAVADISSEDDQGRNGEPVAVHKV
 LGDAYSELSENSESWEPSAPEASSEPFDTSSPQSGRQLEAD

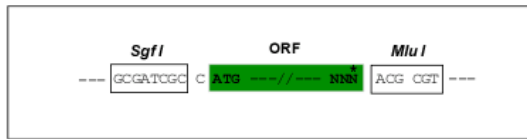
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



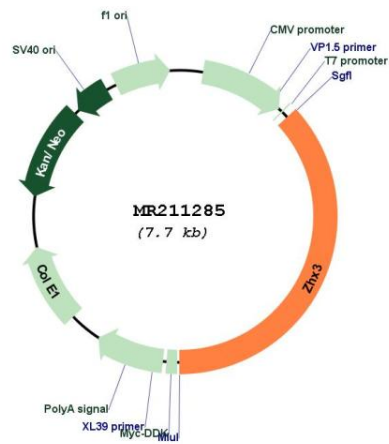
* The last codon before the Stop codon of the ORF

ACCN: NM_177263

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:	<ol style="list-style-type: none">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_177263.3 , NP_796237.2
RefSeq Size:	4499 bp
RefSeq ORF:	2856 bp
Locus ID:	320799
UniProt ID:	Q8C0Q2
Cytogenetics:	2 H2
MW:	104.3 kDa
Gene Summary:	Acts as a transcriptional repressor. Involved in the early stages of mesenchymal stem cell (MSC) osteogenic differentiation. Is a regulator of podocyte gene expression during primary glomerula disease. Binds to promoter DNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211285