

Product datasheet for **MR216834**

Zxdb (NM_001081473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zxdb (NM_001081473) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zxdb
Synonyms:	Zxda
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216834 representing NM_001081473, codon optimized. Due to the complexity of NM_001081473, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGATCCCCGCCTCTGCCTGCCCCGGGAAGTCCACAGGGCGCCGGTGGGGGTGGTTGTCCGGCCG
 GAGGGGGCGGGTGCATAGAGCCCTGCCTCTTTGGCATGCCAAGCCCCACAAGCGACTGCTCCTTCT
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 GAGGCGGCGGTGGGGATCCGGCGGTGGCGGGGCGGTGGAGGTGGAGGGGGGGAGGGGAGGTGGCGG
 GGGATCAAGGGGGGGTCTGATGATTTCTCTCTCTCTCTGATCCTGTTGGCGGCGACGTGGAGACA
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 GGCAAAGCGCTGGCCCCCTGCTGGCAGGCCAGAGCCCGACCCAGATGTCTGTCCGCGTCCCGGCCG
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 GGTACCATAACTATACAAACCAGGACCTGCTTCTCCGGTTTGAGAACGGCGTTCTGACCTGACGACCC
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 CTTGATTGCGCTCAGGCCGCCGCCGCGGATTCCACCCGCGGCGGCGCTGCGGCCGAGCCGAGCA
 GCTGGCGCACAGCTGGGTGATTGTCCAGAGCTCCCTCTGATCTCTTGTGTCAGAGCCCGCCGAACCTG
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 CCCAGCAGGGCTGGGCTGGGCCCGGCGTGGTCTGTATCTCTGTCCCAGCCCAATGTGGACAACT
 TTCGAAAAAAGCACCAGCTGAAGGTGCACCTTTGACACACAGCTCTAGCCAAGGTCAAAGACCATTTA



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AGTGTCTCTGTCTGGCTGCGGCTGGACTTTTACAACATCTTATAAGCTCAAGCGCCATCTGCAGTCTCA
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GAGCAAAATTGCTGAGACACAAACGAAACACGAAGATGATCGCCGGTTCAGTTGCCCTGTTGAAGGATGC
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TTTGTCCAGTGGAGGTTGCTGCGCCAGATTTAGCGCCAGATCTTCTTGATATCCACTCCAAGAAGCA
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TCACAGTCACAGGCACGCCATTTTGGTT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>MR216834 representing NM_001081473
Red=Cloning site Green=Tags(s)

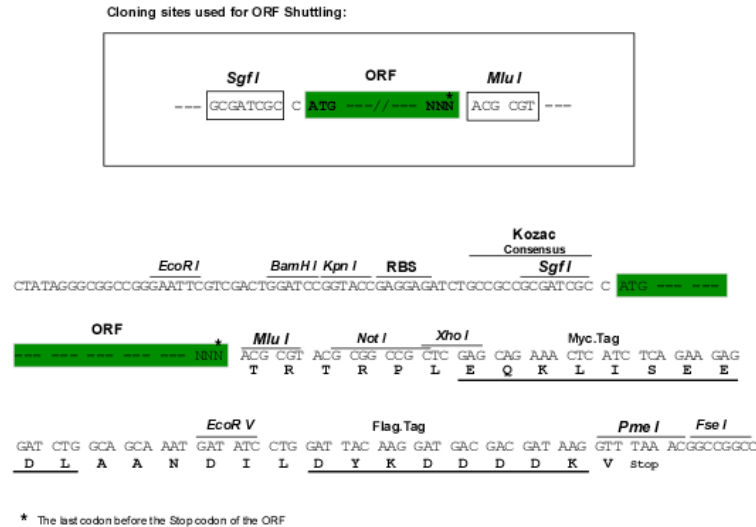
MEIPRLLPARGTPQGAGGGGCPAGGGGVHRAPASLACQAPTRRLLLLRLGAQDGGPGPRSAEQRASRGLG
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GTITIHNQDLLLRFENGVLTLTPPLPAWEPGVAPFPQPQPPQPGALIAQAAAAGFPAAAAAFAFA
AGAQLGDCPELPPDLLAEPAEPAACPAPPEEEAEAPAAAAAQSPRGPAGPGPGVVLVLCPEAQCGQT
FAKKHQLKVHLLTHSSSQGRPFKCPKPLSGCGWTFSTSYKLKRHLQSHDKLRPFPGCPVQCGKSFTTVYNL
KAHMKGHEQENSFKCEVCEESFPTQAKLSTHQRSHFERPERPYQCAFSGCKKTFITVSALFSHNRAHFREQ
ELFACSFPGCSKQYDKACRLKIHLRSHTGERPFLCDFDGCWNFTSMSKLLRHKRKHEDDRRFTCPVEGC
GKSFTRAEHLKGHSITHLGTKPFVCPVEGCCARFSARSSLYIHSKKHLQDVGAWKSRCPVPTCNKLFSTK
HSMKTHMTKRHNLSQDLLAQLEAANSLTPSSELTSPGQSDLSGAELVSLFSDVPGHGSAAVLDTALVNSG
ILTIDVASVNSSLAGSLPADNNSNNHSLGQAAEPRALRGAPSDLPQSLDTSLSFFGTSVAGYQHSPDMDD
VSAGNVGLFGSLALKNSSLEPQALTSPSNKLTVDTEALTPSSTLCENSVELLTPAKAEWNVHPESDFFGH
EETQFGFSHPTGSHGSQKDTDLITVTGTPFLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001081473

ORF Size: 2619 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.

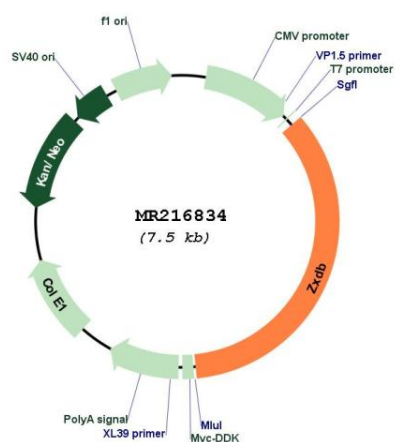
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001081473.1, NP_001074942.1</u>
RefSeq Size:	5623 bp
RefSeq ORF:	2622 bp
Locus ID:	668166
UniProt ID:	<u>A2CE44</u>
Cytogenetics:	X C3
MW:	90.4 kDa
Gene Summary:	Cooperates with CIITA to promote transcription of MHC class I and MHC class II genes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216834