

## Product datasheet for **MR224935**

### **Zxdc (NM\_173002) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Zxdc (NM_173002) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Zxdc                                    |
| Synonyms:                 | A930012H20; B930086F11Rik; BC003332     |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide  
Sequence:**

>MR224935 representing NM\_173002  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGACCTCCCGCGGTGCTGGCCGCCCGGCCACGCGCGGAGACCAACATGGCGGTGGCCGAGCCGAC  
 TTCGCCGCGGCGCGGGGCGTCCCTCGGTGCCGTCCCGGCGCGCTCGCTGCTGCTGAGGGGCC  
 GGAAGATGGCGGGCCCGGCCGCGTCCAGAGGAGGCCCGGGGCCAGCCCGCGCCCCGAGGACGGC  
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 CCGATTCGGGCGCGAGCCCCACGGAACAGGTCCCGGCCCGCCCCGGCGCAGCTCTGGCAGGCAGGT  
 CACCATCCACAACCAGGACCTCCTGGTGCCTTCGACCGCGCGCTCTCACGCTGGCTGCGGCGCCGCG  
 CCAGCCGCCCCGAGCCTGCATCCCGCGACACCCGGGCTGGAGCCCTCGAGCGCTGCTGCGTCCCGCC  
 GCGGGCCGGTGGCGCTAGCGCTGGCTCCCGGCCCTACCGCTGTCCGAGCCGAGTGCAGCTGAGCTT  
 CGCCAAGAAGCACAGTTGAAGGTGCACCTGCTGACGCACGGCAGCTCCAGGGCCGGCGCCCTTCAAG  
 TGCCCGCTGGATGGCTGCGGCTGGGCCTTCAACACCTCCTACAAGCTCAAACGGACCTGCAGTCGATG  
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 TGCCCTGTGGAAGGTGCTGTGCCAGGTTCTCAGCTCGCAGCAGTCTGTACATTATTCTAAGAAACATC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
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**Protein Sequence:** >MR224935 representing NM\_173002  
 Red=Cloning site Green=Tags(s)

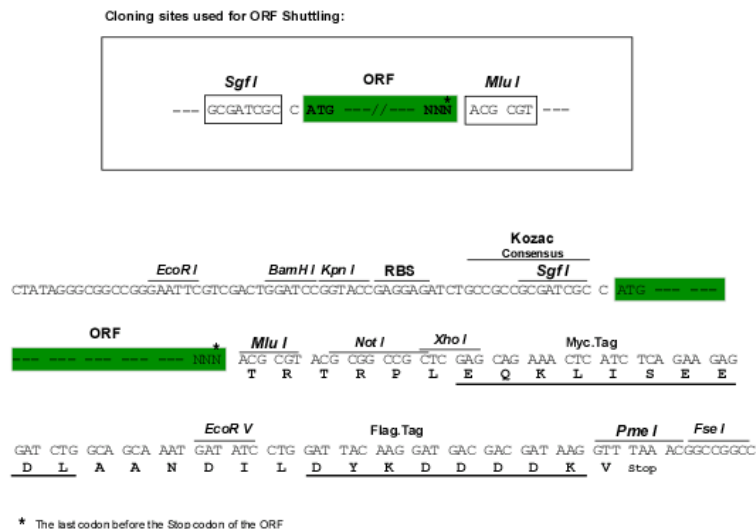
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 CPVEGCCARFSARSSLYIHSKKHLQDVGTPKSRCPVSSCNRLFTSKHSMKAHVVRQHSRRQDLVPQLEAP  
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 SNNLTAPGTTPTSSDTTQETGSVPDLLVPIKVEQDLSPVPDVVQGGKESHGSPQSLSSTERPGAQKDS  
 ELSAGTGSLEYESGGSARTDYRAIQLVKKKKQKGTGSDEGASDSAHRKVKGGTINPPHVHSGQHSFCGT  
 LMVPSGGLTVPAPAAGLQCVQIPVLQDDPSGEGGLPLGLSPQRSFAHPYFTVDLPVYVLQEVLPAPGGFA  
 GLETAQVPGSTINLRDLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9102\\_g06.zip](https://cdn.origene.com/chromatograms/mm9102_g06.zip)

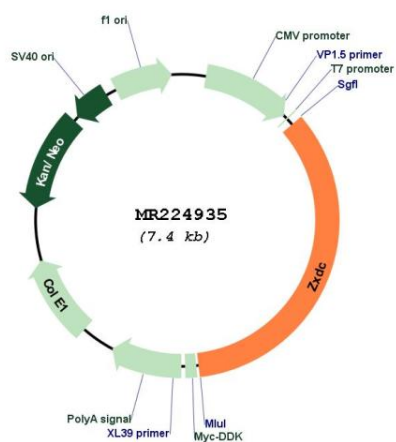
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_173002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ORF Size:</b>              | 2574 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_173002.3</a> , <a href="#">NP_766590.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>           | 4122 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2577 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 80292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q8C8V1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MW:</b>                    | 90.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | Cooperates with CIITA to promote transcription of MHC class I and MHC class II genes. [UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                   |

## Product images:



Circular map for MR224935