

## Product datasheet for **MR230417**

### Zyx (NM\_001289618) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zyx (NM_001289618) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zyx
Synonyms:	9530098H06Rik; R75157
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230417 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCCCGCCCGCCCTCCCGCATCTCCGTCTCCGTCTCGGCCCGCGTTTTACGCCCGCAGA  
 AGAAGTTCGCCCCGTTGTGCCCCAAAGCCCAAAGTGAATCCTTCCGGCTGGGGACAGCGAGCCTCC  
 TGTAGCAGCCGGGGCCAAAGAGCGCAGATGGGTGGGTGGGCGAGATCCACCACCACCCCGGAAGAC  
 TTTCTTTGCCCCCTCTCCCTTATTGGGGAGGGCGACGACTCAGAGGGTGCCTGGGAGGTGCCTTCC  
 CACCTCCACCTCCCCGATGATCGAGGAACATTCCCCCTGCTCCTCTGGAGGAGGACATTTCCCTC  
 CCCTCCACCTCCACTGGAGGAGGAGGGAGGGCCTGAGGCCCTACCCAGCTCCACCCGAGGTATCATCC  
 GGATATGTACCCACCAGTTGCCACTCCATTTGTTCCCAAGCCTAGTACCAAACCTGCCCTGGGGCA  
 CAGCACCTTGCCTCCTTGAAGACCCCTTCTAGCTCCAGCCACCACCTCAGCCGAGGCCAAGCCTCA  
 GGTCCAGCTCCATGTCCAGCCTCAGGCCAAGCCCATGTCCAACCCAGCCTGTGTCTTCTGCTAATACA  
 CAGCCCCGGGGTCCCCTTCTCAGGCACCAACTCCAGCACCTAAGTTTGCTCCAGTGGCTCCTAAATTTA  
 CTCCCCTGGTTTCCAAGTTCAGCCCTGGTGTCTCAAGTGGACCTGGGCCACAGCCCAATCAAAAAATGGT  
 GCCTCCGGATGCTCCTTCTGTGAGCACAGGCTCCCCTCAGCCCCCTAGCTTACCTATGCTCAGCAG  
 AAGGAGAAGCCCTAGTTCAAGAGAAGCAGCACCACAGCCTCCACCAGCTCAAAACCAAAACCAGGTAC  
 GCTCTCCTGGAGGCCAGGCCCTTGACCCTGAAGGAGGTAGAGGAGTTGGAGCAGCTGACCCAGCAGCT  
 GATGCAGGACATGGAACCCCTCAGAGGCAGAGCGTGGCAGTGAATGAGTCTGTGGCAATGCAATCAG  
 CCACTGGCCCGTGACAGCCTGCGGTTCTGACTGGGACAAGTGTCCACATCACCTGCTTCACTTGCCT  
 ATCAGTGTGACGACAGCTGACGGGACAGCAGTCTATAGCCTGGAGGGAGCACCATATTGTGAGGGTGT  
 CTACACCGACACTTTGGAGAAGTGAACACCTGTGGGCAGCCCATCACTGACCGCATGCTGAGGGCCACT  
 GGCAAAGCCTACCACCCACAGTCTTCACTGTGTGGTGTGCGCCTGTCCCCTGGAGGGCACCTCCTTCA  
 TTGTGGACCAGGCCAATCAGCCCCACTGTGTCCCTGACTATCACAAGCAATACGCTCCAAGTGTCCGT  
 CTGCTCGGAGCCAATCATGCCTGAGCCTGGCCGAGACGAGACTGTGCGAGTAGTGGCGCTGGATAAGAAC  
 TTTCATATGAAGTGTACAAGTGTGAGGACTGTGGAAACCTCTGTCCATTGAGGCAGATGACAACGGCT  
 GTTCCCTCTGGATGGCCAGTCTTTGTGCGAAGTGCCACTCCGCTAGAGCCAGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230417 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAPRPPPAISVSVSAPAFYAPQKKFAPVVAPKPKVNPFRPGDSEPPVAAGAQRQMGRVGEIPPPPPED  
 FPLPPPPLIGEGDDEGALGGAFPPPPPMIEEPFPPAPLEEDIFSPPPPLEEEGGPEAPTQLPPQVSS  
 GYVPPVATPFVVPKSTKPAPGGTAPLPPWKTPSSSQPPQPQAKPQVQLHVQPQAKPHVQPQPSSANT  
 QPRGPLSQAPTPAPKFAVPAPKFTPVVSKFSPGAPSGPGPQPNQKMPDPDAPSSVSTGSPQPPSFTYAQQ  
 KEKPLVQEKQHPQPPPAQNQNQVRSPGGPGLTLKEVEELEQLTQQLMQDMEHPQRQSVAVNESCGKCNQ  
 PLARAQPAVRALGQLFHITCFTCHQCQQQLQGQFYSLEGAPYCEGCTDTLEKNTCGQPITDRMLRAT  
 GKAYHPQCFTCVVCACPLEGTSFIVDQANQPHCVDPYHKQYAPRCSVCSEPIPEPGRDETIVRVVALDKN  
 FHMCKYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHSARAQT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001289618

**ORF Size:** 1602 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\\_001289618.1](#), [NP\\_001276547.1](#)

**RefSeq Size:** 2329 bp

**RefSeq ORF:** 1602 bp

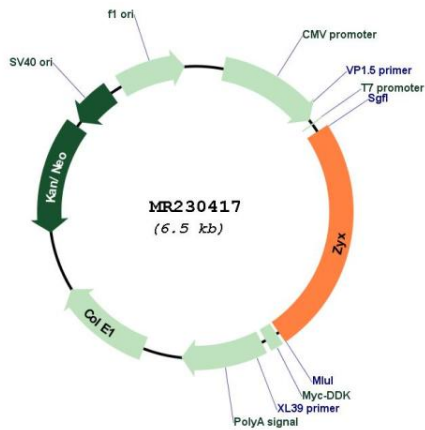
**Locus ID:** 22793

**UniProt ID:** [Q62523](#)

**Cytogenetics:** 6 B2.1  
**MW:** 57 kDa

**Gene Summary:** Adhesion plaque protein. Binds alpha-actinin and the CRP protein. Important for targeting TES and ENA/VASP family members to focal adhesions and for the formation of actin-rich structures. May be a component of a signal transduction pathway that mediates adhesion-stimulated changes in gene expression (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230417