

Product datasheet for **MR230533**

Zyx (NM_001289617) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zyx (NM_001289617) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zyx
Synonyms:	9530098H06Rik; R75157
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230533 representing NM_001289617
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCCCGCCCGCCCTCCCGCATCTCCGTCCTCCGTCCTCGGCCCGCGTTTTACGCCCCGAGAG
 AGAAGTTCGCCCCGGTTGTGGCCCCAAAGCCAAAGTGAATCCTTTCCGGCCTGGGGACAGCGAGCCTCC
 TGTAGCAGCCGGGGCCAAAGAGCGCAGATGGGTGGGTGGGCGAGATCCACCACCACCCCGGAAGAC
 TTTCTTTGCCCCCTCTCCCTTATTGGGGAGGGCGACGACTCAGAGGGTGCCTGGGAGGTGCCTTCC
 CACCTCCACCTCCCCGATGATCGAGGAACATCCCCCTGCTCCTCTGGAGGAGGACATTTCCCTC
 CCCTCCACCTCCACTGGAGGAGGAGGGAGGCCCTGAGGCCCTACCCAGCTCCACCCGACGCCAGGGAG
 AAAGTGTGCAGTATTGACCTGGAGATTGACTCTGTCTCCTACTGCTGGACGACATGACCAAGAACGATC
 CCTTCAAAGCCCGGTATCATCCGGATATGTACCCACCAGTTGCCACTCCATTTGTTCCCAAGCCTAG
 TACCAAACCTGCCCTGGGGCACAGCACCTTGCCTCCTTGAAGACCCCTTCTAGCTCCAGCCACCA
 CCTCAGCCGACAGCCAAGCCTCAGGTCCAGCTCCATGTCCAGCCTCAGGCCAAGCCCATGTCCAACCC
 AGCCTGTGCTTCTGCTAATACACAGCCCCGGGTCCCTTTCTCAGGCACCAACTCCAGCACCTAAGTT
 TGCTCCAGTGGCTCCTAAATTTACTCCCGTGGTTTCCAAGTTCAGCCCTGGTGTCCAAGTGGACCTGGG
 CCACAGCCCAATCAAAAAATGGTGCCTCCGGATGCTCCTTCTTCTGTGAGCACAGGCTCCCTCAGCCCC
 CTAGCTTACCTATGCTCAGCAGAAGGAGAAGCCCTAGTTCAAGAGAAGCAGCACCCACAGCCTCCACC
 AGCTCAAACCAAAACCAGGTACGCTCTCTGGAGGCCAGGCCCTTACCCCTGAAGGAGGTAGAGGAG
 TTGGCAGCTGACCCAGCAGCTGATGCAGGACATGGAACACCCCTCAGAGGCAGAGCCTGGCAGTGAATG
 AGTCTGTGGCAAATGCAATCAGCCACTGGCCCTGCACAGCCTGCGGTTCTGTGCATGGGACAATGTT
 CCACATACCTGCTTCACTTGCATCAGTGTGACGACGCTGCAGGGACAGCAGTTCTATAGCCTGGAG
 GGAGCACCATATTGTGAGGGCTGTACACCCGACACTTTGGAGAAGTGAACACCTGTGGGACGCCATCA
 CTGACCGCATGCTGAGGGCCACTGGCAAAGCCTACCACCCACAGTCTTACCTGTGTGGTCTGCGCCTG
 TCCCTGGAGGGCACCTCCTTATTGTGGACCAGGCCAATCAGCCCCACTGTGTCCTGACTATCACAAG
 CAATACGCTCAAAGTGTCCGCTGCTCGGAGCCAATCATGCCTGAGCCTGGCCGAGACGAGACTGTGC
 GAGTAGTGGCGCTGGATAAAGACTTTCATATGAAGTGTACAAGTGTGAGGACTGTGGAAACCTCTGTC
 CATTGAGGCAGATGACAACGGCTGTTCCCTCTGGATGGCCACGTCCTTTGTCGGAAGTGCCACTCCGCT
 AGAGCCAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230533 representing NM_001289617
 Red=Cloning site Green=Tags(s)

MAAPRPPPAISVSVSAPAFYAPQKKFAPVVAPKPKVNPFRPGDSEPPVAAGAQRQMGRVGEIPPPPPED
 FPLPPPPLIGEGDSEALGGAFPPPPPMIEEPFPPAPLEEDIFPSPPPPLEEEGPEAPTQLPPQPRE
 KVCSIDLEIDSLSSLLDDMTKNDPDKARVSSGYVPPVATPFVVKPSTKPAPGGTAPLPPWKTPSSQPP
 PQPQAKPQVQLHVQPQAKPHVQPQPVSSANTQPRGPLSQAPTPAPKFAVAPKFTPVVSKFSPGAPSGPG
 PQPNQKMVPPDAPSSVSTGSPQPPSFTYAQQKEKPLVQEKQHPQPPPAQNQNQVRSPPGGPGLTLKEVEE
 LEQLTQQLMQDMEHPQRQSVAVNESCGKCNQPLARAQPAVRALGQLFHITCFTCHQCQQQLQGQQFYSL
 GAPYCEGCYTDLTLEKNTCGQPIIDRMLRATGKAYHPQCFTCVVCACPLEGTSFIVDQANQPHCVDPYHK
 QYAPRCSVCSEPIPEPGRDETVRVVALDKNFHMCKYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHSA
 RAQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

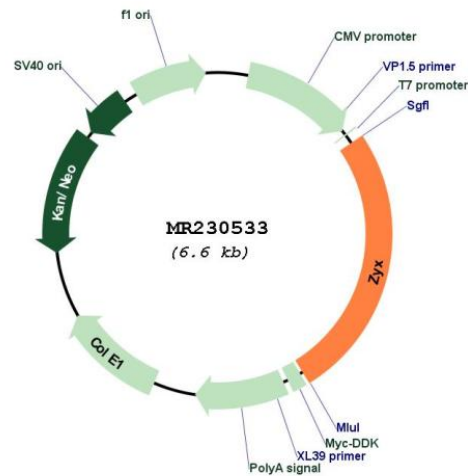
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001289617

ORF Size: 1692 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_001289617.1 , NP_001276546.1
RefSeq Size:	3412 bp
RefSeq ORF:	1695 bp
Locus ID:	22793
UniProt ID:	Q62523
Cytogenetics:	6 B2.1
MW:	61 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]