

## Product datasheet for **RR212301**

### Zyx (NM\_053761) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zyx (NM_053761) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zyx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212301 representing NM\_053761  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGCCCGCCCGCTCCCGCATCTCCGTCTCGTCTCGGCCCGCGTTTTACGCCCGCAGA  
 AGAAGTTCGCCCGGTTGTGGCCCGAAGCCAAAGTGAATCCTTCCGGCCTGGGGACAGCGAGTCTCC  
 TGTGGCAGCCGGGGCCAGAGAGCACAGATGGCCGGGTGGGCGAGATCCCCCACC GCCCCCGAAGAC  
 TTTCTTTGCCCCCTCTCCCGTATTGGGGAGGGCGACGACTCAGAGGGGGCCCTGGGAGGTGCCTTCC  
 CACCTCCACCTCCCCGTGATCGAAGAACCATCCCCCTGCTCCTCTGGAGGAGGACATTTCCCTC  
 CCCTCCACCTCCACTGGAGGAGGAGGGAGGACCTGAGGCCCTACCCAGCTCCACCCGACGCCAGGGAG  
 AAAGTGAAGCAGTATTGACCTGGAGATCGACTCTGTCTCCTACTGCTGGATGACATGACCAAGAACGATC  
 CCTTCAAAGCCCGGTGTCATCTGGATATGTACCTCCACCAGTTGCTACTCCATTTGTTCCCAAACCTAG  
 TACCAAGCCTGCCCTGTGGGCACAGCACCTTACCTCCTTGAAGGCCCTTCTAGCTCTCAGCCACCA  
 CCTCAGCCGACAGGCCAAGCCTCAGGTCCAGCTCCATGCCAGCCTCAGGCCAAGCCCATGTCCAACCC  
 AGTCTGTGTCTCCGCTAATACACAGCCCGAGGTCCCTTTCTCAGGCTCCAACCTCCAGCACCTAAGTT  
 TGCTCCAGTGGCACCTAAATTTACTCCCGTGGCTTCAAATTCAGCCCTGGTGTCCAAGTGGACCTGGG  
 CCACAGCCAGTCAAAAATCGGTGCCTCTGGAAGCTCCTTCTTGTGGGCACAGGCTCCCCCAGCCCC  
 CTAGCTTACCTATGCTCAGCAGAAGGAGAAGCCCTAGTTCAAGAGAAGCAGCACCCACTGCCTCCACC  
 AGCTCAAACCAAAACCAGGTACGTTCTCCTGGAGGCCAGGCCCTTACCCCTGAAGGAGTGGAAAGAG  
 TTGGAGCAGCTGACCCAGCAGCTGATGCAGGACATGGAGCACCCCTCAGAGGCAGAGCGTGGCAGTAAATG  
 AGTCTGTGGCAAATGCAGTCAGCCACTGGCCCGAGCACAGCCTGCAGTCCGTGCCTGGGACAACTGTT  
 CCATATACCTGCTTCACTTGTATCATAGTGTGACGAGCAGCTGCAGGGACAGAGTTCTATAGCCTGGAG  
 GGGCACCATATTGTGAGGGCTGTACTGACTCTGGAGAAGTGCAACACTTGTGGGACGCCATCA  
 CTGACCGAATGCTGAGGGCCACTGGCAAAGCTACCACCCACATTGCTTACCTGTGTGCTGCGCCTG  
 TCCCTGGAGGGCACTTCTTCTTGTGGACCAGGCCAATCAGCCCCACTGTGTTCTGACTATCACAAG  
 CAATATGCTCAAAGTGTCTGTCTGCTCGAGCCCATCATGCCTGAGCCTGGCCGGATGAGACTGTGC  
 GAGTAGTCGCGCTGGATAAAGCTTTCATATGAAGTGTACAAGTGTGAGGACTGTGGAAAGCCCTGTC  
 CATTGAGGCAGATGACAACGGCTGTTCCCTCTGGATGGCCATGTCTTTGTGCGAAGTGCCACTCTGCT  
 AGAGCCAGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212301 representing NM\_053761  
 Red=Cloning site Green=Tags(s)

MAAPRPPPAISVSVSAPAFYAPQKKFAPVVAPKPKVNPFRPGDSESPVAAGAQRAQMGRVGEIPPPPPED  
 FPLPPPPVIGEGDDSEGALGGAFPPPPPLIEEPFPPAPLEEDIFPSPPPPLEEEGGPEAPTQLPPQPRE  
 KVSSIDLEIDSLSSLLDDMTKNDPDKARVSSGYVPPPVATPFVVKPSTKPAPVGTAPLPPWKAPSSSQPP  
 PQPQAKPQVQLHAQPQAKPHVQPSVSSANTQPRGPLSQAPTAPKFAVPVAPKFTPVASKFSPGAPSGPG  
 PQPSQKSVPLEAPSSVGTGSPQPPSFTYAQQKEKPLVQEKQHPLPPPAQNQNQVRSPPGGPPLTLKEVEE  
 LEQLTQQLMQDMEHPQRQSVAVNESCGKCSQPLARAQPAVRALGQLFHITCFTCHQCQQQLQGQQFYSL  
 GAPYCEGCYDTLEKNCNTCGQPIIDRMLRATGKAYHPCFTCVVCACPLEGTSFIVDQANQPHCVDPYHK  
 QYAPRCSVCSEPIPEPGRDETVRVVALDKNFHMCKYKCEDCGKALSIEADDNGCFPLDGHVLCRKCHSA  
 RAQT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

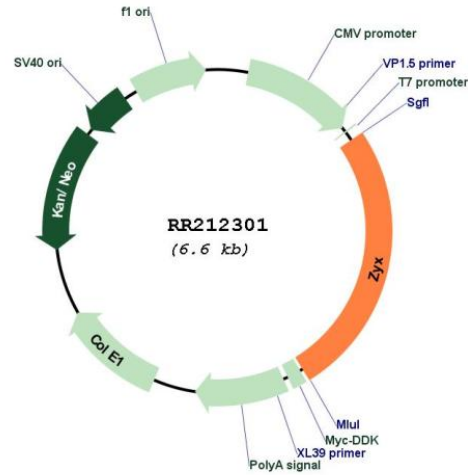
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM\_053761

<b>ORF Size:</b>	1692 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>RefSeq:</b>	<a href="#">NM_053761.1</a> , <a href="#">NP_446213.1</a>
<b>RefSeq Size:</b>	2558 bp
<b>RefSeq ORF:</b>	1695 bp
<b>Locus ID:</b>	114636
<b>Cytogenetics:</b>	4q24
<b>MW:</b>	60.3 kDa
<b>Gene Summary:</b>	may be involved in regulation of inflammatory response; displays decreased mRNA expression in vascular smooth muscle cells treated with cytokines IL-1 and TNF alpha [RGD, Feb 2006]