

Product datasheet for **RR207156**

Zhx1 (NM_133620) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zhx1 (NM_133620) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zhx1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207156 representing NM_133620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAGCAGACGAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGAGCAGGATCCAGATCTTGAGT
 TGATATCGGATTTGGAAGAAGGCCCTCCCGTCCTTACACCCGTAGAAAATGCTAGAGCAGAGAGTGTCTC
 CAGCGATGAAGAAGTTCACGAATCTGTGGATTCTGACAATCAGCAAAAATAGAAAAGTGAAGGGGCTAT
 GAATGTAATACTGTACTTTTCAAACCTCCAGATCTAAATATGTTTACTTTCCATGTAGATTCAGAACATC
 CCAATGTTGTGCTGAATTCATCTATGTTTGTGTTGAATGCAATTTTCTTACAAAAGGTATGATGCACT
 TTCTGAGCATAATCTGAAATACCACCCAGGAGAAGAAAATTTCAAACCTGACTATGGTGAAGCGGAATAAC
 CAGACAATCTTTGAACAGACAATAAATGATCTGACTTTTGTATGGCAGTTTTGTTAAAGAGGAGAATACAG
 AACAGGAGAATCCATAGATGTTTCTTCTCGGAATCTCCATTAGTAAAACCTCCATTATGAAAATGAT
 GAAAAATAGGTAGAAAACAAACGGATTACAGTTCACCATAACTCAGCTGAGGGCACTTCTGAAGAGAAA
 GAGAATGGAGTAAAAGCAAGCCGGGAAGAAAATGCAGAAAATACGAGTTCCTCAGCTTCAGAATCTAACA
 CAAGTACTTCCACTGTCAACCAAGTGCATCCCAGTCTGCAGGCACAGTGGTGACCCCCACAGCTGTTCT
 TCCTGGGCTAGCACAGGTGATAACTGCAGTCTCCGCTCAACAGAACTCAAACCTGGTCCCTAAGGTCTTA
 ATCCCTGTTAATAGCATTCCAACCTACAATGCTGCATTGGATAACAATCCTCTTCTACTTAAACCTTACA
 ACAAAATCCCTTATCCTACAATGTCAGAAATTACAGTTCCTTCTGCTCAAGCAAAAATACAGAGGAACA
 GATCAAGATCTGGTTTTTCAGCCCAACGTTTAAAGCATGGGGTTAGTTGGACTCCTGAAGAAGTAGAGGAG
 GCAAGAAGAAAACAATTCATGGAACAGTGCATACTGTACCTCAGACCATAACTGTTATTCCTACACACA
 TTTCCACAGGAAGTAATGGGTTACCATTATTTTACAAACATGCCAAATAGTTGGTCAGCCAGGTCTGGT
 CCTTACTCAAGTAGCTGGAGCAACACCTTGCCAGTAACGGCTCCCATTCGCTCTGACAGTGGCAGGGGTT
 CCAAATCAACAATGTACAAAAGAGTCAAGTGCTGCTGCTCAGCCTGCTGCAGAAACAAGCCAGCCA
 CAGCAGAGTTCATCATCGCAAGTGTGAGGCCTGAAGCTGCACTAGTGAACCCAGATTCATTTGGTAT
 TCGGGCCAAAAAGACTAAGGAACAGCTGGCAGAACTGAAAGTTAGCTACCTTAAAAACCAGTTTCCCCAC
 GACTCAGAGATCATCAGGCTTATGAAAATAACAGGCCTTACCAAAGGCGAGATTAATAATGGTTTAGTG
 ATACAAGGTACAACCAGAGAAAATCAAAGAGTAACCAAGTGTACATCTCAATAACGACTCCTCTGCCAC
 TATCATCATAGACTCCAGTGTGAAACCCAGAACCCCGAGCTGCAGCTGCGTCACAGCCGAAACAGTCC
 TGGAAATCCCTTCTGACTTTGCTCCCCAGAAGTTTAAAGAGAAAACCTGCAGAGCAACTCGTGTCTTC
 AGGCAAGTTTTCTCAACAGTTCGTACTTACAGATGAAGAATTAATAGTTAAGAGCGCAACCAAACCT
 TACTAGAAGAGAAAATGATGCTTGGTTTACAGAGAAAATAAAACAAAAGCTTTAAAGGATGAGAAAAGTA
 GAAGTAGATGAAAGTAATGTAGGTAGTTCCAAAGAAGAACCTGGAGAAAATCTCCTGGAGACGAAGCCG
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 TGCATTTGTCCGAACACAGTGGCCGTCAACAGAAGAGTATGACAAGCTGGCTGAAGAAAAGTGGGCTTGC
 AGAACAGACATAGTTAGTTGGTTGGAGATACCCGTTATGCTTGAAGAATGGAACTTGAATGGTACT
 ACTACTATCAAAGCTCCAATCAAGTAGTTTGAATGGTCTGTCTCCCTTAGGAAAAGAGGGAGAGGCAG
 ACCCAAAGGACGAGGCAGAGGCAGACCAGTGGCGGCCAGAGGAGGAAAAAGAATGAACACCTGGGAC
 AGGGTACCGTCGCTCATAAAGTTTTAAACTGGAACAGCAATACTTAAAGATTATTACCTGAAGCACAAAT
 TTCTTAATGAGCAAGACCTTGATGAACCTGCAACAGATCACACATGGGTTACGAGCAGGTGAGAGAGTG
 GTTTGCAGAAAGACAAAGAAGATCTGAGTTAGGTATAGAATTTTGGAGAAAATGAGGAGGAAGATGAG
 GTTATTGATGATCAGGAAGAAGATGAAGAAGAAACAGATGATAGTACACTTGGGAACCCCCACGACATG
 TGAAGCGGAAGCTTTCTAAATCGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207156 representing NM_133620
Red=Cloning site Green=Tags(s)

MASRRKSTTPCMVLASEQDPDLELISDLEEGPPVLTPTVENARAESVSSDEEVHESVSDSNQONKKVEGGY
ECKYCTFQTPDLNMFTHVDSEHPNVVLNSSYVCVECNFLTKRYDALSEHNLKYHPGEENFKLTMVKRNN
QTIFEQTINDLTFDGSFVKEENTEQGESIDVSSSGISISKTPIMKMMKNKVENKRITVHHNSAEGTSEEK
ENGVKASREENAENTSSSASESNTSTSTVNQVHPSPAGTVVTPTAVLPGLAQVITAVSAQQNSNLVPKVL
IPVNSIPTYNAAALDNNPLLLNTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFSAQRLKHGVSWTPEEVEE
ARRKQFNGTVHTVPQTITVIPTHTSTGSNGLPSILQTCQIVGQPGLVLTQVAGANTLPVTAPIALTVAGV
PNQTNVQKSQVPAAQPAAEKTPATAAASPSSVRPEAALVNPDSFGIRAKKTKEQLAELKVSYLKNQFPH
DSEIIRLMKITGLTKGEIKKWFSDTRYNQNRNSKNQCLHLNNDSSATIIIDSSDETPPEPAAAAASQPKQS
WNPFPDFAPQKFEKTAEQLRVLQASFLNSSVL TDEELNRLRAQTKL TRREIDAWFTEKNKTKALKDEKV
EVDESNGVSSKEEPGENSPGDEAVAPKSAGTGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAEESGLA
RTDIVSWFGDTRYAWKNGNLKWYYYQSSNSSLNGLSSLRKRGRGRPKGRGRGRPRGRPRGGKRMNTWD
RVPSLIKFKTGTAILKDYYLKHKFLNEQDLDELVNRSHMGYEQVREWF AERQRRESELGIELFEENEEDE
VIDDQEEDEEETDDSDTWEPPRHVKRKLKSKSDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

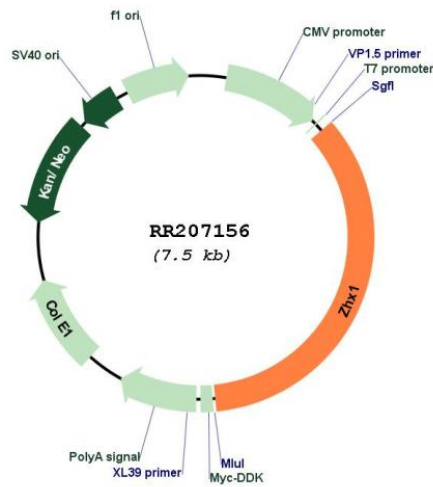
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_133620
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:	<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_133620.1 , NP_598304.1
RefSeq Size:	4539 bp
RefSeq ORF:	2622 bp
Locus ID:	171159
UniProt ID:	Q8R515
Cytogenetics:	7q33
MW:	97.6 kDa
Gene Summary:	may bind the activation domain of the A subunit of nuclear factor-Y to regulate transcription; localized to the nucleus; can form a homodimer in vitro [RGD, Feb 2006]