

Product datasheet for MR231961

Zdbf2 (NM_001267872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zdbf2 (NM_001267872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zdbf2
Synonyms:	4930431J08Rik; 9330107J05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231961 representing NM_001267872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCTCAGAGCTATCAGGAAGTAATGAAGAACAATGGACAGCACTTGTTTAGTTCTCAGCACAGAA
GCCTGACCAGACAGAGCAGACGTCGGACAGCTACTAATAACACTCTGATGGAACGCTTTTTGCAGGATGT
TCTGCGACACCACCCATATAATTACCAAGACAACAGATCTGCACCAAATGAGCCAGAGCGCGGCAGCA
GCGGCAGCAGCAGAGATCCTGGATCACCTGAAGTGGTGGTGGTTTTGGATGATTCTGATGAGAAGGAGG
ATGATACTGCAGATAGCGGTGCAGAGAGGAACCCGAGGATTCAGGATCTGTTGAAGAGATAGATTATAG
ACCTGGTACTTCTCAGGAACACGCAGAAGTTGCAGTTCGACCATCAGTTATTCAAAACTGGAACGGGGA
CAGCAGCAGTCCCTTGAATTGGCTCATAAAGTTGAGAGTGGTGTGAAAAAGTTAATTCAGTCGGTGTG
TTCAGGCTACAAC TAGTGGAAAAAGTTAGTGCCTCCCTCTGTGATTTGTAATGCTCCTGCCAGCTCTTT
GCCTAGCGGCTCTTTTCGAGAGACCAGTTGCGGCTAACAGTGTTCCTCGGTTAGTACTGGCAGTTGCTTCA
GATTCCTTTCCAGCTTGTGACACAGAGAACCCTGAAACATACTTTGACTCCCCAGATCAGGGCCCTAGCA
ACCCATCATCTCAACCCAAAACCTAAAGACCCAAAAAGAACTAAGTATAAATTTAGACAAATGCTTGC
ACAGAGAAATCTTAGGGCTAAGGGTGCCTCTTTTCCCCTGTGTCGACGAGTCCGTGAGCTAACAGGTTCT
GAGCTTTGTTCTGTAAGAGCTGAGTCTTCTGAGTTAGAGGCAGGTACAGCAGGAAACCCGAGGGGACTG
ACACACTACCAGAACAAGCACGTGAAGGTGCCATTCCAAAGCGTCGTGAGGCATCTCGTTCAAATACAGT
TCGTCCCCAAGAAGAACACGTTTGGTCTTAACAAGCCAACACTTCTGAAACAGAAAGCGCTCAGTGAGT
TCTGAAGAGAGGTTCAAGTTGTGGTCTCGTCAGGCAGTACCTGGTCTTCCCAAGCTGCTGTACGTGACT
TAAGTCTTTGGAGGAGGAAGTGGAGGAGGAGAAGCAGGAAGAAGAGGAAGAGGAGGAGCAGGAAGAAGA
GGAGGAGCATGAAGAGGAGGAGGAGGGAGTTGACCAAGAAGATGCGAGTTATGAATCTAGAGGTTCTGAC
ATGAGTTTGTGTTGTTCTTGTGTCAGTGCCTGAGTGCCTATCTGAACTGACCGCCAGAGAAATAA
ATGTATCAGAAGAAACACATGCTTATTCTCAGCCTAGGAATGAAACCCCACTGTTTCTGGAGCACTTC
AGATAATGGTAGCAGTTCTCGTCAGGTGATTACACAGAACATACAGCTCATTAGTCTGGTTGATGAAAGC



[View online »](#)

TATGAGTCTAGTGGCTCTGAAGTGAATTTTGATGGTGATGACTACTACCGTCAACTAGTCACCGTCCCC
 CACAGCCCGTGGAAAGTAGTAGTGCCTTCGTTTGGTTGACAAGAGCTATGGAAGTGGTAGCTCTGAACC
 ATGTGAGGATCCGGGTCTCAGCTGATGAGACTCCAGCAGCATCAAGACAGCAGAATCCTGTGAGGAAC
 ACCCATGCAAACCTGGTTGATGAGAACTACGGGTCAAGTAGTTTCAGCTCTGACAGTGATGCAGCTCTGG
 ACCATCCCCAGGTGCCTGTTCAAGAAGGAAGCCCCAGAGGCAGAGCTGTCGGACAGGGAATGAAGAGCA
 GCCCAGTAGTGTGAAGCACATCTGAACGTGATGGTTCTCTTGAGACAGTGGCTCATGAACTCCAGAGA
 GAATCACAAGAAAATAAACCTTCCGAACCAAGAATAACCAGCCTTGGGGATATGAACTGTGAGTCTCATG
 GTCCTGAAGTGGGTTTTTCATGCTGATGCTCAATTAGAGGCTGATCAATCTCCAGTAAACCCGTGAGGAAGT
 AGATCTTGACCTAGAAAATCAGAGTGTTCACTCTGGCATTCTAACCTAAGTTTTGATTCCAATGCTTCT
 TATCAGTCAGCTAATGATCAACCTCAAGGGGCTTGGGGTGAAGTAAATCTCGATGAGTAAATGTCGACA
 TGGAAAGTAAAGCAATGGCTGCTCCAGTTCTGAGTTGACATTTGATTCCGATTCCCCTCTTCTGTCAGT
 TACTGAGCGTCTCTGCTGGATTTGAAGGATTAACGAAGATGACTTTAACCTGGAAGATGAAAACCTGT
 GTGTCAAGTAGTCTGACATAACTTTTGATTCTGATATCCCGATGACTCAGTAGCTGACCAACCTCAAG
 TAGCTGTTTATGAGGAGGAACCTGTTGGTCTGGAAAATAAGAGTAAATGAATCTTGTGTTTCTGGAATAAC
 ATTTGATTCTGATATTCCTCTTCATTGAGAAAATGATCACCTGAAGTAGCTGTTAAAGAAGTAATCATT
 AAGGAAGACGAAAACGTTCACTTGAAGGGAAGAAATGACAATCCCAAGTGGTTCTGAAATATGTTTGGATT
 CTAATGTCCTCTTCATTGAGTACTAATCTGATGTAGCTGTTAAAAAGATAAAATCCCCCAAAGAAGA
 TCAGGTACAAATAGAACAATGAACAAGGAAAATGAACCTACTGATTCTGAATTAATTTGGATTGT
 AACTCTGTTAATTCAAAGCCCGGATGTTCTGAAGATCCCATTATATTACGTGTTTCTGAAACAAGATTGG
 ATTCATGTCCTCTTCAGTCAGTTATTCGCAAAATGTGAAGTAGTTGTCAAAAATGTCTGTCTTCAAAA
 AGAAAAGCATGCTGAGTTAAAGTAAAAGCACGGAATCTCATTCTGAAGTAAGTTCAGCTTCTACTGCT
 TCTCACCCAGTGACAGAACCTTATGTAGTAAAAAGGCAAGAGAAAAGACAAAGCATCTTGAGGAAGTCA
 ACAGTAGATGAATATGGTGGCTCTCAACCACTTTCAAGTTTGTGTTTTTCTCGACAATGACTGA
 AAAACCTCAACCAGTGCCTTGAAGAGGGCCATGCTGACCCAAAAGATAAAAATTAAGTCTAGAGGG
 ATGGCCGTAATGTGAATACTGCTGATTGTCTTGATTGATCCTTAGCCAGCCTCAGTTAGCCTCAAACG
 AAAACTGTGTTGAACTGAAAGACACCGATGGCAAACCCAGTACTCTAAAGCAAGTGTGATTCTACTGG
 CCATTTTCACTCCCTGCCTAAACAAGAGTTCGATGTGGTTTCAAAAATGAACGAGTGGAAAAAGAGGCA
 AAGTTCTTGAACAGAAGATCAGTGATCTTATTTATTCAAAAATAATACATGACTCTAATGTTTCTTTTC
 GTTCTGCAATGGATCAACTGAACTAGCTCTTAAACAAAATAAGTCTTGGTAATAATGACCAAGTGCCTT
 GGAAGATAACAGCCAAGATACATGTTCTGAGACAAAATTTGGATTCTGGTTTCTCAGTCCAGGCAGTAGT
 GAACCACCTGAACCTGAAGTAACTGTTTTGAGGCCTGAACATGTTGAACAAGAAGGTAGAATAACGTGC
 CTTGTGATTCTGAAGTAAGCGTTGATGCTAATGGCTCTGTCCAGTTAGAGGCTGGTCAGCATAGTGAAG
 TGGTGA AAAACAGAAGTCAGAAGGATACAGATGACACAGAAGGTAAGAGGGATGATGCTCAGGGTTTTGGA
 ATTACATGTGATTCCAATGTCCCCAGCCATTGGCCGGCCACATTGAAGTAGTTCAGGACATTGACCATT
 GGAAGGATCATGTTGACTTGAAGATAAGCTTGGTGAATCTAAAAACTCAAAAGTAACTTTTCAATCTGA
 TGAACCACTTCAGGCTGTGACTAACGCAACACAAGAGCCTGTTGAAGAAAATAAATTTACCGAGGGGACGT
 GCTAGTCCAAATGGTAATGGCTGTGAGCCCTATGGCTCTACAATAGTTCCTGTTACGAATGTCATTTTT
 GCTCAGTGATTTCAAAAACCACAACGTTTGCAAAAAAAGTGTACCAGTTTGAAGAAAACAGCAGCAATCC
 TTGCTCCTGAAGTAAATGTTGATTCTCTGTGATGGTCTGAAGTGAAGTGTGATTCTAATGATCCCTGTG
 TCAGTAGCAGGCCACCTTCAAAAACCTGACAAGGAAATGAATCTGAAGGAAGACCATATTTACCTGGAAG
 ATAAGAGTACAAGCTAGTTGACTTTGAACCAACTTATGATTCTGACGATCCTGTTGAGTTTGTGACAGT
 TCCATCTGTAGAGGCTGTGCTATCAAAGAAGTAACTTGCAAAAAGGAGAATCCTGATGACCTAGAAAAT
 GAGAACTTTCAGCCATGTTGTTCTGAAGTAGCATGTAATTCTGCTGTTTCTGACAGTCAAGGCTGACC
 CACCTCAAGTGGCTTGAAGAAGCAGACCTTGACAAGAAAGCGCTTGACATAGAAGACAAGGGCAGTGT
 AACTGTGTGCCTGAAGTGGTGTATGATTCTGACGCTCTTTTTCAGATAGTAGTTAACAGGTTTCAGACA
 TCAGATGGAGAAACAGACTCACACAGGTGGTGTGTTGTTGATGTTGTGTCAGTGTAGTACTGTGACC
 GGAAGTAATTTCTGATTCAAATATCCCTTTCAGCTAGAGCCACCTCAGATGACTGTCAAAGAAACCAG
 TGATATAAACACAGATTCTCTTGGTTCTGACGCAACGAAAAGTACTATTGTAATTTCTGTGTTTGTGAT
 TATGAAGCCTCTCAGTCAAGTGAACAACCAATCCAAGGAAAGTTTTAAAATAATAAACAGGAAAAATGACT
 ATATTATCCTAGGCGATTCTACTTGTCCATCTTGTGGTCACTGAACTCAATTTCAATGTTGATCCTTCTGA
 TCAGCCCACTACCTGCCAGTTACAACAGCCTGATCGTAATTTTATTGACCCAGAAGATAAGAAGTTTGG
 TCTAAATGTCCTAAAAGAAAATTAATTTGGGAAGATACTGCTCATCCAGTACTCACAACCTACAGAAAA

CTGGAGAAGCCACCAGTCTTCGGAAAGATCAAAAAATAGATTCAAAGAGATAGGGGCTGGGAATCCAG
 TAGTTTTGCAGGAGACCATGCTGCCTATGCTGTGTGAGTATTGCGCAAACAGCTTTGAACCTCTGTGGA
 TCTGAGCTAAACTTTCAAGATGATACCTTCTATCACTCTGACATTGACCCACCTCAACCTAAGAAAAAG
 GCCAGGGTAAGAAAGTGACTTTTGACTTGAGAGTAAGTAAAGTATGAATATCCACCAACCCAATGTACGG
 GGAAGGAGAAGAGGTTGCAGAAGATGATCTTAAGGAAGTAGTATTGATGAAGCCTCACCTCAGGGTCAG
 GCTCCTCCATCAATTGTTGAAAAACATGCTCAGGGGAGAGAAGATGATGTAAGACAAACACACAGG
 CATGTCAAGGTTATTTCTATAGTTACTATGATGGTGGCTCTGAGACCAAGAAAAATCTTTTGGGTGAAGA
 AGAAAAGACCATTAGGTCTGACCTTAATCAGAACCACATCAATTCAACATGTTAAAGGTAAGTTGGA
 GACACTGGTGACTTTTTCAGTGGACTTAGGTAAACAGTCTTGTTCCTTAGCAGAGGGGCTTCATCAGCAAC
 ATGGGCAGGTGACTTCTCAGAACCAAGTAGAAGTGAAGTGTGGAATCAAGCAAGTTCTGGGAAGAAAAAG
 GAAAATTACAGAACAAGAAGAGGACTCACCAAAGAGGAAGTGTTCACCATGATAGCCAGAAGAAGAAA
 AAGGCTCAAGCTGGGATAACTGAGCTACCTGAACCACAACTAAAGTTTTAGAGCCTGTACAGCCCGATT
 CCTTGGTCTATATTTTTCTTCTAAGTATGAAGGAAGTACAGTCTTTGAATCCACCTAAAACAAAGCC
 TGGCAGTGACAGTATTGCCACATATACAGTTGTAGAGAACACACCTCTTGGCCACGACGTAAG
 AGAACTGTAATTAATCCTCCACAGAACCTAATGGTACCAGAAGTTGGCATTGATCTTAATAGGCATGACC
 CAAAGCCCAATGCAGGAGACGATAGTGCCAAAAGACAAAACCTGGTTTCAACATCTTTTATGGCAATGCC
 GAAAAATCTGTGTTAAAGTTCCAGAGGACCAATCAATCTTCATTTCTAAAAAATCAGAAGATGTGGGT
 GCTACTCAAGTTCCAAAGGATAATTTCCAGCAGACTCTTGTAATCGTGATGGTGCCAAAAAATTTCCCA
 AATCAGTTAAAAAGGAAGATCTTGAAAGTCAAAATCAAAGGAAATTTGGAAAAAGAAGATGGTTGCTGC
 AAATAAATTATGCCTCATCAAAAATGCGTATAAAACAATGGTTCTCCGGAAAAAATCAAACTAGCTTCA
 GAAAAGCTGGCTATTTGGATTGAGTGAAGCGACCGACATCATCAGGAAGTATGTCTCTAGATGCCATG
 GTCTTATGCCCGGAGGCATCTATCAAAGACTGTTCTTAAGAATGCAACTGAGGAAGAAGAAAAATAGT
 TGCCAGGAAGATAAAGGAAGCCAAGAGAGCAGCTGAAGCACTAGCGCTCAAGCTCTCGCGCCCCTCGTGT
 CCCCCGCGGGCCCGTGCCCCCGCGGGCCCTGTGCCCCCTCGCGCCCGTGCCCCCGCGGGCCCTGT
 GCCCCCTCGCGCCCGTGCCCCCGCGGGCCCTGTGCACCCCTCGCGCCCGTGCCCCCGCGGGCCCT
 GTGCACCCCTCGCGCTCCGTGCCCCCGCGGGCCCTGTGCACCCCTCGCGCCCGTGCCCCCGCGGGCC
 CTGCGCGCCCCCTGCCCCACGGGCTCTGTGCTCCCCGCGCGCCCGTGCCCCCGCGGGCCCTGTGCC
 CCCCTCGTCCCCGTGCCCCCGCGAGCCCGCGGGCCCGTGCCCTCCGCGGGCCCGTGCCCTCCGCG
 GGCCCGTGCTCCCGCGGGCTCCGTGCCCCCGCGCGCTCCGTGCCCCCGCGCGCCCGTGCTCCCA
 CGCGCCCGTGCTCCCGCAGGCTCCGTGCCCCCGCGGGCCCTGTGCTCCCGGGTTTCGTGCCCC
 CGTCCCCTGTGCGCCCGTGCCCCCGTGCGCCCGGTTCTCCAGCTGGTGTGAAGAGCAGTTGAG
 CACTACTGAGGACCTGCAGAGCTGCCTGCTCATCTTTCAATGCTGGAGGAATAAAGCGCTACAGGAAA
 ACTTACTCCGGAGAAGGAAGAGACTTCTTCCAGTGAGAGAATATGACCTGAGAAGCTTGAGTTCCACAA
 CAATACCGACAGGATGGTGACACGGCTTGAAGCAAGTCGAAAAGCAATGAGGCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231961 representing NM_001267872
 Red=Cloning site Green=Tags(s)

```

MEASQSYQEVMMKNGQHLFSSQHRSLTRQSRRTATNNTLMERFLQDVLRHHPYNYQDNRSAPNEPEAAAA
AAAAADPGSPEVVVLLDSDSEKEDDTADSGAERNSEDSGSVVEEIDYRPGTQSEHAEVAVRPSVIQKLERG
QQQSLELAHKVESGVKKVNSVGVVQATTSGKKLVRPPVICNAPASSLPSGSFERPVAANSVPRLVLAVAS
DSFPACDNTENLETYFDSPDQGPSNPSSQPKTKDPKKKLSINLDKLLAQRNLRAGKASFPVVRVRELTGS
ELCSVRAESSELEAGTAGNPRETDTLPEQAREGAIPKRREASRSNTVRPQEETRLVLNKPTLLKQKRSVS
SEERFSCGSRQAVPGPSQAAVRDLSLEEEVEEEKQEEEEEEQEEEEHEEEEEQVDEADASYESRGS
MSFDCGSSCQSLSALSLETAREINVSEETHAYSQPRNETPTVSGATSDNGSSSRQVITQNIQLISLVDES
YESSGSEVNFDDSLPSTSHRPPQPVVVPLRLVDKSYGSGSSEPCEDSGSSADETPAASRQNPVRN
THANLVDENYGSSSFSSDSDAALDHPQVPVQEGSPRGRAVQGNEEQSSAEAHPERDGSLETVAHELQR
ESQEIINLPNQNTSLGDMNCESHGPEVGFHADAQLEADQSPVNPEEVDLLENQSVHSGISNLSFDSNAS
YQSANDQPQGAWEVNLDELNVDMEVKSNGCSSLTFDSDSPLL SVTERSLDFEGLNEDDFNLEDENC
VSSSDITFDSDIPDDSVADQPQVAVYEEEPVGLENKSNESC SVGITFDSDIPLHSGNDHPEVAVKEVII
KEDENVHLEGNKDNPSGSEICLDSNVPLHSVTNSDVAVKINPPKEDQVQIEQIEQKENEPTDSELNLD
NSVNSKPGCSEDPIILRVSETRLD SHVPFQSVIRKCEVVVKNVCLQKEKHAELT SKSTESHSEVSSASTA
SHPVTEPYVGGKAKRKT KHL EEVNSDDEYGGSQPTFKFDVFPRTMTEKQPAALKEGHADPKDKITELRG
MAVNVNTADCLDSVLSQPQLASNENCVELKDTDGKPSDSKASADSTGHFHSLPKQEFDDVSKMNEWKKEA
KVLEQKISDLIYSKIIHDSNVFSRSMQLELALQKISLGNNDQVSLLEDNSQDTCSETNLD SGFSVQAVV
EPPEPEVTVLEPEHVEQEGRNVPDSEVSDANGSVQLEAGQHSESGENRSQKDTDDTEGKRDDAQGFG
ITCDSNVPOPLAGHIEVVQIDHWKDHVLEDKLGESKNSKVNFSDEPLQAVTNATQEPVEEINLPRGR
ASPNGGCEPYGSTIIPVTNVIFCSVIQKQRLQKCTSLKENSNPCEVNVSDCDGPEVSVSDSDNDCQ
SVAGHLQKPKDKEMNLKEDHIYLEDKSYKLVDFEPTYDSDDPVQFVTVPSVEAVSIKEVNLQKENPDDL
ENFQPCCEVACNSAVHLQSEADPPQVACKEADL DKKALDIEDKGSVTCVPEVVYSDVSFQIVVNVQVT
SDGETDSPQVVFDVVSSDSDCDREVISDSNIPLQLEPPQMTVKETSDINTDSLGSAAANEKYYCKFCGCD
YEASQSVTNQSKESFKIINRKNDYIILGDSTCPSCGHELNFNVDPSDQPTTCQLQQPDRNFIDPEDKNFG
SKCPKRKLNWEDTAHPVTHQLQKTGEATSLRKDQKNRFRDRGWESSFAGDHAAYAVSVIRQTALNSCG
SELNFQDDTFYHSDIDPPQPKKKGQKVTFDL RVTKYEYPPNPMYGE GEEVAEDDLKEVVVHEASPOGQ
APPSIVGKTC PQGREDDVKTNTQACQGYFYSYDGGSETKKILLGEEKTIRSDLNQNTTSIQHVKGKVG
DTGDFSVDLGKQCSLAEGLHQHGQVTSQNQVEVRCGIQASSGKKRKITEQEEDSPKRKCFHHSQKKK
KAQAGITELPEPQTKVLEPVQPSLVYIFSSLSMKEDQSLNPPKTKPGSDSLPHIYSCREHTSSGPRRK
RTVINPPQNLMPVEVGIDLNRHDPKPNAGDSDAKRQNLVSTSFMAMPKKSVLKQRTNQSSFLKKSSEDVG
ATQVPKDNFQQT LVNRDGAKKFPKSVKKEDESQNRKFWKKMVAANKLCLIKNAYKTMVLRKSKLAS
EKLAIWILKATDIIRKYVSRCHGLMPPRHL SKTVLIRMQLRKKKIVARKIKEAKRAAEALALKLSRPS
PPRACPPRALCPPRACPPRALCPPRACPPRALCTPRACPPRALCTPRACPPRALCTPRACPPRALCTPRACPPRA
LRACPPRALCSPRACPPRALCPPRACPPRAPRACPPRACPPRACPPRACPPRACPPRACPPRACPPRACPPRA
RAPCLPQAPCPPRALCLPRVSCPLPLCAPCPPCAPVLPAGAEELSTTAGPAELPAHLSNAGGIKRYRK
TYFRRRKRLLPVREYDLRSLSSTTNTDRMVTRLASKSKSNEAK
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001267872

ORF Size: 7479 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_001267872.1](#), [NP_001254801.1](#)

RefSeq Size: 12571 bp

RefSeq ORF: 7482 bp

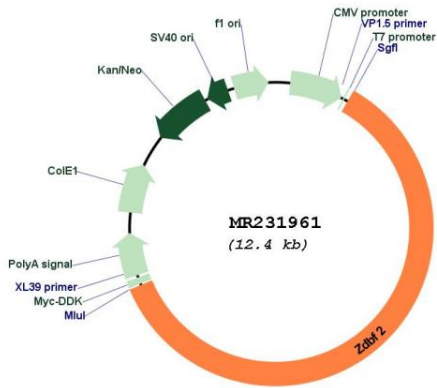
Locus ID: 73884

UniProt ID: [Q5SS00](#)

Cytogenetics: 1 C2

MW: 274.2 kDa

Product images:



Circular map for MR231961