

## Product datasheet for **RR217152**

### Mid2 (NM\_001191889) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mid2 (NM_001191889) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mid2
Synonyms:	RGD1565674
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR217152 representing NM\_001191889  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGAGAGCCAGCCTCTGCGGTTCTTAATGCCTCAGCAGGATTATTTTCACTAAAGATGGAACAC  
 TGGAGTCTGAATTGACCTGTCCAATCTGCCTCGAGTTGTTTGAAGACCCCTTCTGCTCCCTTGTGCTCA  
 CAGCCTATGTTTTAGCTGTGCTCACCGCATCTGGTCTCAAGCTGCAGCTCCGGTGAATCCATTGAACCC  
 ATTACTGCTTTTTCAGTGTCTACATGCAGGTATGTTATCTCGCTGAATCACCGGGGCTGGATGGCCTCA  
 AGAGGAATGTGACCCTGCAGAACATTATTGATCGCTTCCAGAAGGCTTCAGTCAGTGGGCCAAATTTCC  
 AAGTGAGAGCCGTCGGGAGAGGACTTACAGGCCTGGTCCGCCATGTCGAGTGAGCGAATTGCATGTCAG  
 TTCTGTGAGCAGGACCCTCCGAGAGATGCTGTAAGACATGCATCACCTGTGAGGTCTCCTACTGTGACC  
 GGTGCCTTCGGGCCACACACCCCAACAAGAAACCTTTACGAGCCATCGCTGGTGAACCAAGTTTCAGA  
 CACACATCTTCGAGGGATTACCTGTCTGGACCATGAGAATGAGAAGGTGAACATGTACTGTGTATCTGAT  
 GACCAATTGATCTGTGCCTTATGCAAACCTGGTGGGTCGTACCGAGACCATCAGGTGCTTCTCTGAATG  
 ATCGATTTGAGAACTAAAGCAAACCTCTCGAGATGAACCTCACCAACCTGGTAAAGCGCAACAGCGAACT  
 AGAAAAATAATGGCCAAACTAATACAGATCTGCCAGCAAGTTGAGGTGAATACTGCTATGCACGAGGCA  
 AAATTTATGGAAGAGTGTGACGAGCTGGTAGAGATCATCCAGCAGAGGAAACAAATGATTGCCGTCAAAA  
 TCAAAGAGACAAAGGTTATGAACTGAGAAAGTTGGCCACGAGGTTGCTAATTGCCGCCAGTGTCTTGA  
 ACGGTCAACAGTCTCATCAACCAGGCTGAGCATATCCTAAAGGAAAACGACCAAGCTCGCTTCTCGAG  
 TCTGCAAAAAATATTGCCGAGAGGGTCGCTATGGCAACTGCATCTTCGCAAGTTCTGATTCAGACATCA  
 ATTTTAAATGATGCCTTTGAAAACCTTTGCTTTAGATTTTTCTAGAGAAAAGAACTATTGGAGGGGTAGA  
 CTATTTAACAGCTCCAAACCCACCATCTATCCGAGAAGAACTCTGTAAGTCTTCCATGACACCATTACG  
 GTCCACTGGATCTCAGACGACGAGTTCAGCATCAGCTCCTATGAGCTTCAAGTACACCATATTCAGTGGCC  
 AGGCTAACTTCATCAGTAAGTCATGGTGTAGTTGGGGCCTGTGGCCAGAGATAAGGAAATGTAAGGAAGC  
 AGTAAGCTGCTCAAGACTGGCCGGTGGCCACGAGGCCTGTACAATTCAGTGGACAGCTGGATGATTGTG  
 CCCAACATTAAGCAGAACCATTACACAGTCCATGGACTCCAGAGTGGGACAGCTACATCTTTATTGTGA  
 AAGCCATAAATCAAGCAGGCAGCCGGAACAGTGAACCCACCAGGCTAAAAACAAACAGCCAACCATTTAA  
 ACTAGATCCCAAATGACTCACAAGAAGTTGAAGATCTCCAATGATGGATTGCAGATGGAGAAGGACGAG  
 AGCTCTCTGAAGAAGAGCCACACTCCGGAGAGATTTAGTGGCACGGGGTGTATGGGGCAGCAGGAAATA  
 TATTCATTGACAGTGGCTGCCACTACTGGGAGGTGGTCATGGGTTCTTCAACATGGTATGCAATCGGTAT  
 TGCCATACAAATCAGTCCAAAGAACGAGTGGATTGGCAAGAATGCCTCTTCTGGGTCTTCTCTCGATGC  
 AACAGTCACTTCGTGGTGCACATAACAACAAGGAAATGCTGGTGGATGTGCCCCACAGTTGAAGCGTC  
 TAGGCGTCCTCTTGGATTATGACAACAACATGCTGTCTTTCTATGACCCAGCTAACTCTCTCCATCTTCA  
 TACTTTTGATGTTACCTTCACTTCCAGTTTGTCCAACATTCACAATCTGGAACAAATCCCTAATGATC  
 CTGTCTGGCTTGCTGCCAGATTTTATTGATTATCCTGAGCGGCAGGAATGCAACTGCAGGCCTCAAG  
 AATCCCGTATGTGTCGGGGATGAAAGCTTGTCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217152 representing NM\_001191889  
Red=Cloning site Green=Tags(s)

MGESPASAVLNASAGLFLSKMETLESELTCPICLELFEDPLLLPCAHSCLFSCAHRILVSSCSSGESIEP  
 ITAFQCPTCRYVISLNRGLDGLKRNVTLQNIIDRFQKASVSGPNPSESRRERTYRPGSAMSSERIA  
 FCEQDPPRDAVKTCITCEVSYCDRCLRATHPNKKPFTSHRLVEPVSDTHLRGITCLDHENEKVNMYCVSD  
 DQLICALCKLVGRHRDHQVASLNDRFELKQKQTLNMLNLVKNRSELENQMAKLIQICQQVEVNTAMHEA  
 KLMEECDLVEIIQQRKQMIAVKIKETKVMKLRKLAQQVANCRQCLERSTVLINQAEHILKENDQARFLQ  
 SAKNIAERVAMATASSQVLIPDINFNDAFENFALDFSREKLLLEGLDYLTA PNPPIREELCTASHDTIT  
 VHWISDDEFSISSYELQYTI FTGQANFISKSWCSWGLWPEIRKCKEAVSCSRLAGAPRGLYNSVDSWMIV  
 PNIKQNHVTVHGLQSGTRYIFIVKAINQAGSRNSEPTRLKTNSQPFLDPKMT HKKLKISNDGLQMEKDE  
 SSLKKSHTPERFSGTGCGAAGNIFIDSGCHYWEVVMGSSTWYAI G IAYKSAPKNEWIGKNASSWVFSRC  
 NSHFVVRHNNKEMLDVPPQLKRLGVLLDYDNNMLSFYDPANSLHLHTFDVTFILPVCPTFTIWNKSLMI  
 LSGLPAPDFIDYPERQECNCRPQESPYVSGMKACH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001191889

**ORF Size:** 2205 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\\_001191889.1](#), [NP\\_001178818.1](#)

**RefSeq Size:** 2631 bp

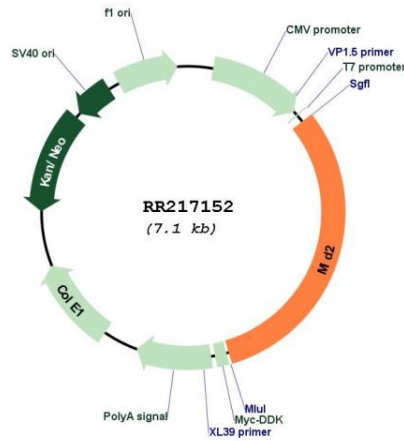
**RefSeq ORF:** 2208 bp

**Locus ID:** 363502

**Cytogenetics:** Xq33

**MW:** 83.1 kDa

**Product images:**



Circular map for RR217152