

## Product datasheet for **RR202845**

### Apex2 (NM\_001079892) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apex2 (NM_001079892) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apex2
Synonyms:	MGC156784
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR202845 representing NM\_001079892  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCGTGTGGTAAGCTGGAACATCAATGGGATCCGGAGTCCCTGCAAGGGCTTGGGGCCAGGAAC  
 CGAGCAACAGTCCCACGGCCTTGCACGCGTTTTGGACGAGCTGGATGCTGATATTGTCTGTCTCCAGGA  
 GACCAAAGTAACCAGAGATGACTGACAGAGCCTCTGGCTATTGTTGAGGGTTATAACTCCTATTTTCAGC  
 TTCAGCCGACCGTAGTGGCTATTCTGGTGTGGCTACCTTTTGTAAAGACAGTGTACCCAGTAGCTG  
 CTGAAGAAGGTCTGAGTGGTGTGTTGCTACCTAAATGGGGATATTGGTTGCTATGGAAACACGGACGA  
 GTTCACGCAAGAAGAAGTCCGGGTTCTGGATAGTGAGGGCCGGCCTTCTTACACAGCACAAGATCCGC  
 ACATTGGAAGGGAAGGAGAAGACCTTGACTCTGATCAATGTGTACTGCCCTCACGCGGATCCTGGGAAGC  
 CTGAGCGGCTGACCTTTAAGATGCGCTTCTATCGCCTGCTGCAGATCCGAGCAGAAGCACTCTGGCAGC  
 TGGCAGTCATGTGATAATCCTGGGGACCTGAATACAGCCACCACCATTGACCACTGTGATGCAAGT  
 AGTCTGGAATGCTTTGAAGAGGACCCAGGGCGTAAGTGGATGGATGGCTTGTCTAGTAACCCAGGGAATG  
 AGGCTGGACCCACATAGGGCACTTCATGGATAGTTTCCGCTACTTCCATCCAAAACAGCAGAGGGCTTT  
 CACCTGCTGGTCACTGGTCACTGGGACGACCTCAACTATGGCTCTCGACTTGATTATGTCCTGGGA  
 GATAGGAGCTTGGTCAATAGATACCTCCAGGCCTCCTTCTACTCCCTGAAGTATGGGCTCTGACCACT  
 GCCCGTGGGAGCTGTCTAAATGTATCCTGTGTGCCAGCAAAACAGTGGCCAGCTCTGTGTACCCGCTT  
 CCTCCCTGAGTTTGCAGTACCCAGCTCAAGATTCTTCGCTTCTAGTTCCTCTTGAACAAGAAGCTGTG  
 AAGGAACAGCCAGTCTGCAGCCAGTCAATCCAGGCACAGAAACAGCAAGCAAGCCGATGAGTTACTTCCA  
 ATTCAACCAAGCTTCGAAAACCAAGGTGTCCTCCAAAAGAAACAGAAAAGCCTGATGAGTTACTTCCA  
 GCCTTCTCTAACCTTTCCAAAACCTCTGATGTAGAAGTGCCTACCCTGCCTCTGGTGAAGCCTCTTACA  
 AGCACAAGACTGCAGAAGAGGTGGCAATGGCCACAGTGGTAAAAGAGAAGAACAAGTTCCAGAGGCCA  
 AAGATGAGAAGGAAGTAAGGACTGCCTTCTGGAAGTCTATGCTGAGTGGGCCCTCACCAATGCCCTCTG  
 TGGAGGCCACAGGGAGCCATGTGTAATGCGTACTGTAAAAAAGCAGGACCCAACTTTGGCCGCCATTTCT  
 TATATGTGTGCTAGACCCGAGGTCTCCAGTGACCCCTCTCCGCTGTAAGTCTTCTCTGGAGTA  
 GGCCAGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202845 representing NM\_001079892  
 Red=Cloning site Green=Tags(s)

MLRVVSWNINGIRSPQLAGLQEPSNSPTALRRVLDLDELADIVCLQETKIVTRDVLTEPLAIVEGYNSYFS  
 FSRSRSGYSGVATFCKDSATPVAAEGLSGVATLNGDIGCYGNTDEFTEELRVL DSEGRAFLTQHKIR  
 TLEGKEKTLTLINVCYPHADPGKPERLTFKMRFYRLQIRAEALLAAGSHVIIIGDLNTAHRPIDHCDAS  
 SLECFEEDPGRKWDGLLSNPGNEAGPHIGHFMDSFRYFHPKQQRRAFTCWSVVS GARHLNYSRLDYVLG  
 DRSLVIDTFQASFLLPEVMGSDHCPVAVLNVSCVPAKQCPALCTRFLPEFAGTQLKILRFLVPLEQEPV  
 KEQPVLPQSHQIQAQKQPSKARIHSTRLRKTQGVPKRNQKSLMSYFQPSSNLSQTSDELPTLPLVSPLT  
 STKTAEEVAMATVVKEKNKVPEAKDEKEVRTAFWKSMLSGPSPMPLCGGHREPCVMRTVKKAGPNFGRHF  
 YMCARPRGPPSPSSRCNFFLWSRPS

**SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001079892

**ORF Size:** 1548 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\\_001079892.1](#), [NP\\_001073361.1](#)

**RefSeq Size:** 1878 bp

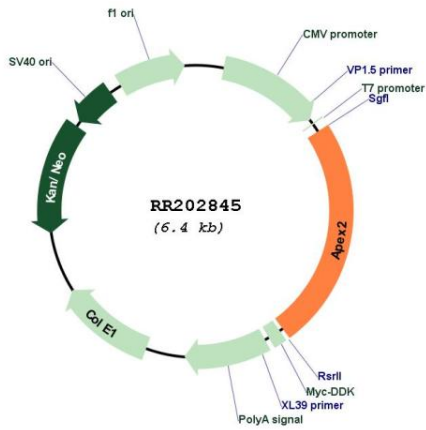
**RefSeq ORF:** 1551 bp

**Locus ID:** 317628

**Cytogenetics:** Xq13

MW: 57.4 kDa

Product images:



Circular map for RR202845