

Product datasheet for **RR200599**

Apex1 (NM_024148) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apex1 (NM_024148) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Apex1
Synonyms: APE; Apex; REF-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200599 representing NM_024148
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGAAGCGGGGAAGAGAGCGGCAGCGGAAGACGGGAAGAACCAAGTCCGAGCCAGAGACCAAGA
AGAGTAAGGGGGCAGCAAAGAAAAGTGAAGAGGAGCCGAGGAGAGGGCCCTGCCTGTATGAGGACCC
TCCAGATCAGAAAACGTCAGCCAGTGGCAAATCTGCCCACTCAAGATATGCTCCTGGAATGTGGATGGG
CTTCGAGCCTGGATTAAGAAAGAAAGGCTTGGATTGGGTAAGGAAGAAGCACCAGACATCTTGTGCCTCC
AAGAGACCAAATGCTCAGAGAACAACCTCCCGGCTGAACTGCAAGAGCTGCCTGGACTCACCCATCAGTA
CTGGTCAGCTCCATCAGACAAAGAAGGATATAGTGGTGTGGGCCTACTTCCCGCAATGCCCGCTCAAA
GTCTCTTATGGCATTGGTGAGGAAGAACATGATCAAGAAGGCCGGGTGATTGTGGCTGAATTTGAGTCCT
TTATCTTGGTAACAGCCTATGTTCCGAACGCAGGAAGGGGTCTGGTAAGACTGGAGTACCGACAGCGATG
GGATGAAGCCTTCAGAAAGTTTCTAAAGGACTTGGCTTCCCGAAACCTTGTGCTGTGTGGGGATCTC
AATGTGGCTCATGAAGAAATAGACCTTCGTAACCCAAAGGAAACAAAAGAATGCTGGTTTTACTCCCC
AGGAGCGCCAAGGCTTTGGGAAATGCTACAGGCTGTACCAGTGGCTGACAGCTTCGGCATCTCACC
CAACACTGCCTACGCTTATACTTCTGGACTTACATGATGAATGCCCGCTCTAAGAATGTTGGTTGGCGC
CTTGATTACTTTTTGCTGTCTCACTCTCTTTTACCTGCTTTGTGCGACAGCAAGATCCGGTCCAAGGCTC
TTGGCAGTGACCACTGTCCCATCACCTTTACCTAGCACTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200599 representing NM_024148
 Red=Cloning site Green=Tags(s)

MPKRGKRAAAEDGEEPKEPETKKSKGAACKTEKEAAGEGPVLYEDPPDQKTSASGKSATLKICSWNVDDG
 LRAWIKKKGLDWVKEEAPDILCLQETKCSENKLPALQELPGLTHQYWSAPSDKEGYSVGLLSRQCPLK
 VSYGIGEEEHQDEGRVIVAEFESFILVTAYVPNAGRGLVRLEYRQRWDEAFRKFLLKDLASRKPLVLCGDL
 NVAHEEIDLRNPKGNKKNAGFTPQERQGFGEMLQAVPLADSFHLYPNTAYAYTFWTYMMNARSKNVGWR
 LDYFLLSHSLLPALCDKIRSKALGSDHCPITLYLAL

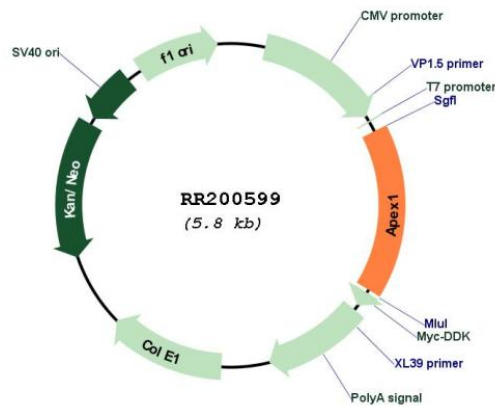
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024148

ORF Size: 951 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_024148.1 , NP_077062.1
RefSeq Size:	1213 bp
RefSeq ORF:	954 bp
Locus ID:	79116
UniProt ID:	P43138
Cytogenetics:	15p14
MW:	35.5 kDa
Gene Summary:	may play roles in DNA repair and in redox homeostasis; regulates Pax8 transcription [RGD, Feb 2006]