

Product datasheet for **RR203607**

Cpa1 (NM_016998) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cpa1 (NM_016998) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cpa1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR203607 representing NM_016998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGAGACTACTGATTCTGAGTCTGCTGCTGGAAGCAGTCTGTGGCAATGAGAACTTTGTGGGACACC
 AGTTCTCCGAATCTCTGCAGCCGATGAAGCCAGGTGCAGAAAGTGAAGGAGTTGGAGGACCTGGAGCA
 CTTGCAGTTGGACTTCTGGCGGGACGCTGCCCGGGCCGGTATCCCCATTGATGTCAGAGTCCCTTCCCC
 AGCATCCAATCTGTGAAAGCATTCTTGAATATCATGGTATTAGCTATGAGATCATGATTGAAGATGTGC
 AGTTACTGCTCGATGAGGAGAAACAGCAGATGTCTGCCTTCCAGGCCAGGGCCTTGTCCACTGACTCTTT
 CAATTATGCCACCTATCATACGCTGGATGAGATCTACGAATTCATGGACCTGCTGGTGGCTGAGCACCCA
 CAGCTTGTGAGCAAGATCCAGATCGGCAACACCTTTGAAGGTCGCCCCATCCATGTGCTGAAGTTCAGCA
 CTGGAGGGACCAATCGCCAGCAATCTGGATCGACTGGCATCCATTCTAGGGAGTGGTCAACCCAGGC
 TAGTGGGGTCTGGTTTGCAAAGAAGATCACAAAGACTATGGCCAGGACCCACCTTACAGCCGTTCTT
 GACAACATGGACATCTTCTGGAGATTGTACCAACCCTGATGGTTTTGCCTACCCACAAAACGAATC
 GCATGTGGCGCAAGACTCGATCACACCCAGGGCTCCCTCTGTGTTGGTGTGGACCCCAACAGGAACTG
 GGACGCTGGCTTTGGGATGGCCGGAGCAAGTAGCAACCCCTGCTCGGAACTTACCGAGGCAAAATTTCCC
 AACTCTGAGGTGGAGGTCAAGTCCATCGTGGACTTTGTGACGAGCCATGGGAACATCAAGCCCTTACAT
 CCATCCACAGCTATCCCAGCTCCTGCTTACCCCTACGGCTACACGTCGGAACCCAGCCCTGACCAGGC
 AGAGCTGGATCAGCTAGCTAAGTCTGCTGTGACAGCCTTGACGTCTTACACGGGACCAAGTTCAAGTAT
 GGCAGCATCATCGATAAATCTATCAAGCCAGTGGGAGCACTATCGATTGGACCTACAGCCAGGGCATCA
 AGTACTCTTTCACTTTTGAAGTGGGACACTGGGCTTAGAGGATTCTGCTGCCTGCCCTCCAGATCAT
 CCCTACGGCGGAGGAGACATGGCTGGCCCTTTTGACCATCATGGACCACACAGTCAAACACCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203607 representing NM_016998
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MKRLLLISLLLEAVCGNENFVGHQVLRISAADAEQVQVKVELEDLEHLQLDFWRDAARAGIPIDVRVPPF
 SIQSVKAFLEYHGISYEIMIEDVQLLLDEEKQMSAFQARALSTDSFNATYHTLDEIYEFMDLLVAEHP
 QLVSKIQIGNTFEGRPIHVLKFKSTGGTNRPAIWIDTGIHSREWVTQASGVWFAKKITKDYGDPTFTAVL
 DNMDIFLEIVTNPDPGFAYTHKTNRMWRKTRSHTQGSCLVGVDPNRNWDAGFGMAGASSNPCSETYRKF
 NSEVEVKSIYDFVTSHGNIKAFISIHYSQQLLLYPYGTSEPADQAEQLAKSAVTALTSLHGTKFKY
 GSIIDTIYQASGSTIDWTYSQGIKYSFTFELRDTGLRGFLLPASQIIPTAETWLLALLTMDHTVKHPY

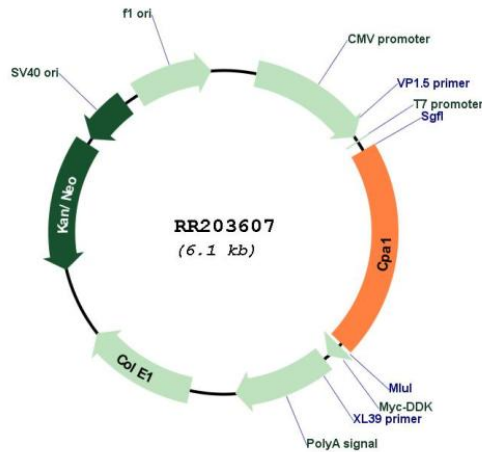
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016998

ORF Size:	1257 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_016998.3 , NP_058694.2
RefSeq Size:	1633 bp
RefSeq ORF:	1260 bp
Locus ID:	24269
UniProt ID:	P00731
Cytogenetics:	4q22
MW:	47.2 kDa
Gene Summary:	putative carboxypeptidase A protein [RGD, Feb 2006]