

## Product datasheet for **RR217464**

### Cp (NM\_001270961) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cp (NM_001270961) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cp
Synonyms:	CERP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR217464 representing NM_001270961 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTTTTGCTGCTTAGTGCACTTTTATTTTTGCATAGTTCCTTAGCTTGGACAAGAGAAAAGCATT  
ATTACATCGGAATTACTGAAGCAGTTTGGGACTATGCTTCTGGCAGTGAAGAAAAGGAACCTATTTTCAGT  
TGACACGGAACAGTCCAATTTCTATCTCGAAATGGTCCAGATCGTATTGGAAGAAAGTATAAGAAGGCC  
CTTTATTCGAGTACACAGATGGCACCTTTACGAAGACTATAGACAAACAGCCTGGCTAGGGCTTTTAG  
GCCCTGTCATCAAAGCTGAAGTTGGAGACAAAGTTTCTGTTACGTAAGAACTTTGCTCTAGGCCCTA  
CACTTTTCATGCTCATGGGGTAACTTACACCAAGGCGAACGAGGGGGCCATCTACCCTGACAACACCACT  
GATTTTCAAAGAGCCGATGACAACTGTTTCTGGACAGCAGTATTTGTACGTGCTGCGTGCCAATGAGC  
CAAGTCTGGCGAGGGAGACAGCAATTGTGTGACCAGGATTTACCACTCTCATGTGGATGCTCCAAAAGA  
TATTGCATCAGGACTCATAGGACCGTTGATACTCTGTAAAAAGGTTCTCTGCATAAGGAAAAAGAGGAA  
AATATTGACCAAGAATTCGACTGATGTTCTCTGTGGTGGATGAAAATCTCAGCTGGTATCTAGAAGATA  
ACATCAAACCTTCTGCTCGGAACAGAGAAAGTGCATAAAGACAATGAAGACTTCCAGGAAAGCAACAG  
GATGTACTCTATAAATGGATATACATTTGGAAGCCTCCCAGGGCTCTCGATGTGTGCAGAAGACAGAGTG  
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CCAGAATCCTGGAGTCTGGATGCTCAGTTGCCAGAACCTGAACCATCTGAAAGCTGGTTTGCAGGCCCTT  
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AGGACAATTTCTCTCAGCATTAGCCAATGGGGTAAGATTACCAAGGAAAATGAGGGAACTACTAT  
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CTGTCCCAAGAAATGGGACCCACTTATGCAGATCCTGTGTGCCTATCTAAGATGTATTATTCTGGAGT  
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 CTTTCAGGAGTCCAACAAGATGCACTCCATGAATGGATTATGTATGGCAATCTGCCTGGCCTCAATATG  
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 TTCATAGTTCTGATGTCTTTGACCTTTTCTGGAACATACCAAACCTAGAGATGTTTCCCAACGCC  
 TGAACCTGGTTACTCCACTGCCATGTACTGACCATATTCATGCGGGGATGGTAACTACCTACTGTT  
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 TGACTACTTTATTCCAAATATCTACCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR217464 representing NM\_001270961  
 Red=Cloning site Green=Tags(s)

MKFLLLSALLFLHSSLAWTREKHYYIGITEAVWDYASGSEEKELISVDTEQSNFYLRNPGDRIGRKYKKA  
 LYSEYTDGTFTKIDKPAWLGLLGPVIAEVDKVSVHVKNFASRPYTFHAHGVTYTKANEGAIYDNTT  
 DFQRADDKLFPQQYL YVLRANEPSPGEGDSNCVTRIIYHSHVDAPKDIASGLIGPLILCKKGLHKEKEE  
 NIDQEFVLMFVVDENLSWYLEDNIKTFCEPEKVDKDNEDFQESNRMYSINGYTFGSLPGLSMCAEDRV  
 KWYLFMGNEVDVHSALFHGQALTSKNYHTDIINLFPATLIDVSMVAQNPVWMLSCQNLNHLKAGLQAF  
 FQVRDCNKPSPPDDIQDRHVRHYIIAAEETIWDYAPSGTDTFTGENLTSLSGSDSRVFFEQGATRIGGSYK  
 KLYREYTDSSFTNRKQRPDEEHLGILGPVIWAEVGDIIRVTFHNKGFPLSIQPMGVRFKENEGETYY  
 GPDGRSSKQASHVAPKETFTYEWTVPKEMPTYADPVCLSKMYYSVVDLTKDIFTGLIGPMKICKKGSLL  
 ADGRQKDVDFEYLFATVFDENESLLLDNIRMFTTAPENVKEDDFQESNKMMSMNGFMYGNLPLNLM  
 CLGESIVWYLFSAAGNEADVHGIYFSGNTYL SKGERRDTANLFPKSLTLLMTPDTEGSFDFVECLTDDHYT  
 GGMKQKYTVNQCKGFEDVTL YQGERTYYIAAVEVEWDYSPSRDWEMELHHLQEQVNSNAFLDKEEFFIG  
 SKYKVVYREFDSTFREQVKRAEEHLGILGPLIHADVGDKVVVFNMASRPYSIHAHGVKTKSSTV  
 APTLPGEVRTYIWQIPERSGAGTEDSPCIPWAYYSTVDRVKDLYSGLIGPLIVCRKSYVKVFNPKKMEF  
 SLLFLVFDENESWYLDNINTYSDHPEKVNKDNEEFIESNKMHAINGKMFNLQGLTMHVGDENVWYVMA  
 MGNEIDLHTVHFHGHFSFYKHRGIHSSDVFDLFPGTYQTLMEFPQTPGTWLLHCHVTDHIHAGMVTYTY  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

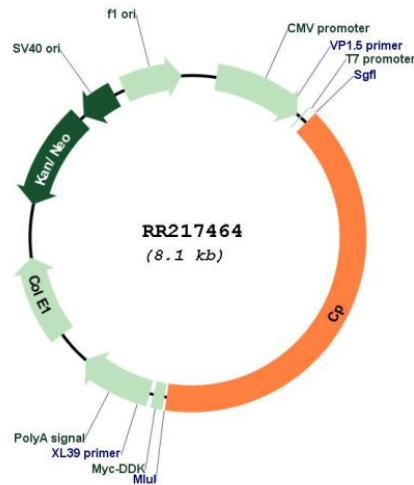
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001270961

ORF Size: 3252 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001270961.1, NP_001257890.1</u>
<b>RefSeq Size:</b>	3607 bp
<b>RefSeq ORF:</b>	3255 bp
<b>Locus ID:</b>	24268
<b>Cytogenetics:</b>	2q24
<b>MW:</b>	123.7 kDa
<b>Gene Summary:</b>	copper-containing ferroxidase that promotes iron incorporation into transferrin; plays a role in iron metabolism and homeostatis [RGD, Feb 2006]