

Product datasheet for RN217464

Cp (NM_001270961) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cp (NM_001270961) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cp
Synonyms:	CERP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN217464 representing NM_001270961 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTTTTTGCTGCTTAGTGCACCTTTATTTTTGCATAGTTCCTTAGCTTGGACAAGAGAAAAGCATT
ATTACATCGGAATTACTGAAGCAGTTTGGGACTATGCTTCTGGCAGTGAAGAAAAGGAACCTATTTTCAGT
TGACACGGAACAGTCCAATTTCTATCTTCGAAATGGTCCAGATCGTATTGGAAGAAAGTATAAGAAGGCC
CTTTATTCTGAGTACACAGATGGCACCTTTACGAAGACTATAGACAAACCAGCCTGGCTAGGGCTTTTAG
GCCCTGTCATCAAAGCTGAAGTTGGAGACAAAGTTTCTGTTACGTAAGAAGTCTGCTCTAGGCCCTA
CACTTTTCATGCTCATGGGGTAACTTACACCAAGGCGAAGCAGGGGGCCATCTACCTGACAACACCACT
GATTTTCAAAGAGCCGATGACAACTGTTTCTGGACAGCAGTATTTGTACGTGCTGCGTGCCAATGAGC
CAAGTCTGGCGAGGGAGACAGCAATTGTGTGACCAGGATTTACCACTCTCATGTGGATGCTCCAAAAGA
TATTGCATCAGGACTCATAGGACCGTTGACTCTGTAAAAAAGTTCTCTGCATAAGGAAAAAGAGGAA
AATATTGACCAAGAATTCGTAAGTACTGATGTTCTGTGGTGGATGAAAACTCAGCTGGTATCTAGAAGATA
ACATCAAACCTTCTGCTCGGAACCAGAGAAAGTCGATAAAGACAATGAAGACTTCCAGGAAAGCAACAG
GATGTAAGTACTATAAATGGATATACATTTGGAAGCCTCCAGGGCTCTCGATGTGTGCAGAAGACAGAGTG
AAGTGGTACCTTTTGGGATGGGAATGAAGTTGACGTGCATTCAGCGCTTTTCATGGTCAAGCCCTGA
CCAGCAAGAATCATACTGATATAATCAACCTGTTCCCTGCCACTCTAATTGATGTTTCTATGGTGGC
CCAGAATCCTGGAGTCTGGATGCTCAGTTGCCAGAACCTGAACCTCTGAAAGCTGGTTTGCAGGCCCTT
TTCCAGGTTCTGACTGCAACAAGCCCTCACCGGACGACGATATCCAAGACAGACATGTGAGACATTATT
ACATCGCTGCCGAGGAGACCATTTGGGACTATGCTCCGCTGGGACAGACACCTTCACTGGAGAGAAGT
AACCAGTCTGGGAAGTATTCAAGGGTATTTTTGAGCAAGGTGCTACAAGAATTGGTGGCTTTATAAA
AAATTGGTTTATCGTGAGTACACAGATGATTCCTTACAAACCGAAGCAAGAGGCCCTGATGAGGAAC
ATCTTGGAAATCCTTGGTCTGCTATTTGGGAGAAAGTAGGAGACATCATTAGAGTCACTTTTCATAACAA
AGGACAATTTCTCTCAGCATTACGCAATGGGGTAAGATTCACCAAGGAAAATGAGGGAACTACTAT



GGCCCAGATGGCCGTTCCCTCAAAGCAAGCCTCCCATGTGGCTCCCAAAGAAACCTTTACGTATGAATGGA
 CTGTCCCCAAAGAAATGGGACCCACTTATGCAGATCCTGTGTGCCTATCTAAGATGTATTATTCTGGAGT
 TGACCTCACCAAAGATATATTTACTGGGCTTATTGGGCCAATGAAAATATGCAAGAAAGGCAGCTTACTT
 GCAGATGGGAGACAGAAAGATGTAGACAAGGAGTTCTACTTGTGGCAACAGTGTGGATGAGAATGAGA
 GTTTACTCTTGGATGATAATATCAGAATGTTCACAACTGCACCTGAGAATGTGGACAAGGAAGATGAAGA
 CTTTCAGGAGTCCAACAAGATGCACTCCATGAATGGATTTCATGTATGGCAATCTGCCTGGCCTCAATATG
 TGCTAGGAGAAATCCATCGTGTGGTATTTGTTTCAGCGCTGGAAAATGAGGCAGACGTGCATGGGATATA
 TTTTCAGGAAATACCTATCTGTCCAAAGGAGAAAGAGACACTGCAAAATCTATTTCCCTCAAAAAGTCT
 CACCCTTCTCATGACACCTGACACAGAAGGCTTTTTGATGTTGAGTGTCTTACAACAGATCACTACACC
 GGTGGCATGAAGCAAAAGTACACTGTGAACAGTGCAAGGGGCAGTTTGAAGATGCACTCTCTACCAGG
 GAGAAAGGACCTACTATATTGCAGCAGTGGAGGTGGAATGGGATTATTCACCAAGCAGGGACTGGGAAAT
 GGAGCTGCACCTTTGCAAGAGCAAAATGTTTCAAATGCATTTTTGGATAAGGAAGAGTTTTTTCATAGGC
 TCAAAGTACAAGAAGTTGTGTATCGAGAGTTTACTGACAGCACATTGAGAGAACAGGTGAAGAGAAGAG
 CTGAAGAGGAGCACTTGGGCATCCTCGTCCACTGATTTCATGCAGATGTTGGAGACAAAGTTAAAGTTGT
 CTTTAAAAATATGGCAAGCAGGCCATATCAATACATGCCACGGAGTAAAACAAGAGTTCTACAGTT
 GCTCCAACGTTACCAGGTGAAGTTCGCACCTTATATATGGCAAATTCAGAAAGATCAGGTGCTGGAACGG
 AGGATTACCTTGTATCCCATGGGCTTATTACTCAACCGTGGATCGAGTTAAGGATCTCTATAGTGGCT
 AATAGGCCATTGATTGTTTGTCCGAAATCTTATGTGAAAGTATTCATCCTAAAAAGAAAATGGAGTTT
 TCCCTTTTGTCTAGTATTTGATGAGAATGAATCTTGGTACTTATAGATGATAACATCAATACATACTCTG
 ATCACCCTGAGAAAGTAAACAAGACAACGAGGAATTCATAGAAAGCAATAAAATGCATGCATCAATGG
 GAAAATGTTCCGAAACCTACAAGGTCTCACGATGCACGTGGGAGACGAGGTCACTGGTATGTGATGGCT
 ATGGGCAATGAAATAGACCTGCACACTGTACACTTCCACGGCCACAGCTTCCAATACAAGCACAGGGGAA
 TTCATAGTCTGATGCTTTTACCTTTTTCTGGAACATACCAAACCTAGAGATGTTTCCCAAACGCC
 TGGAACTGGTTACTCCACTGCCATGTGACTGACCATATTCATGCGGGGATGGTAACTACCTACACTGTT
 TTACCAAATCAAGCATCGTCTCAGAGCTACAGGATGACCTGGAACATACTCTATACACTGTTAATCAGCA
 TGACTACTTTATTCCAAATATCTACCAAGGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001270961
- Insert Size:** 3255 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001270961.1](#), [NP_001257890.1](#)

RefSeq Size: 3607 bp

RefSeq ORF: 3255 bp

Locus ID: 24268

Cytogenetics: 2q24

Gene Summary: copper-containing ferroxidase that promotes iron incorporation into transferrin; plays a role in iron metabolism and homeostatis [RGD, Feb 2006]
Transcript Variant: This variant (2) lacks an exon and contains two alternate 3' exons compared to variant 1. The resulting protein (isoform 2), which is longer and has a distinct C-terminus compared to isoform 1, is a glycosylphosphatidylinositol-anchored form. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.