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# Product datasheet for RR202158

## Cp (NM_012532) Rat Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Cp (NM_012532) 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:** | >RR202158 representing NM_012532<br>Red=Cloning site Blue=ORF Green=Tags(s)<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGAAGTTTTTGCTGCTTAGTGCACTTTTATTTTTGCATAGTTCCTTAGCTTGGACAAGAGAAAAGCATT<br>ATTACATCGGAATTACTGAAGCAGTTTGGGACTATGCTTCTGGCAGTGAAGAAAAGGAACTTATTTCAGT<br>TGACACGGAACAGTCCAATTTCTATCTTCGAAATGGTCCAGATCGTATTGGAAGAAAGTATAAGAAGGCC<br>CTTTATTCTGAGTACACAGATGGCACCTTTACGAAGACTATAGACAAACCAGCCTGGCTAGGGCTTTTAG<br>GCCCTGTCATCAAAGCTGAAGTTGGAGACAAAGTTTCTGTTCACGTAAAGAACTTTGCCTCTAGGCCCTA<br>CACTTTTCATGCTCATGGGGTAACTTACACCAAGGCGAACGAGGGGGCCATCTACCCTGACAACACCACT<br>GATTTTCAAAGAGCCGATGACAAACTGTTTCCTGGACAGCAGTATTTGTACGTGCTGCGTGCCAATGAGC<br>CAAGTCCTGGCGAGGGAGACAGCAATTGTGTGACCAGGATTTACCACTCTCATGTGGATGCTCCAAAAGA<br>TATTGCATCAGGACTCATAGGACCGTTGATACTCTGTAAAAAAGGTTCTCTGCATAAGGAAAAAGAGGAA<br>AATATTGACCAAGAATTCGTACTGATGTTCTCTGTGGTGGATGAAAATCTCAGCTGGTATCTAGAAGATA<br>ACATCAAAACCTTCTGCTCGGAACCAGAGAAAGTCGATAAAGACAATGAAGACTTCCAGGAAAGCAACAG<br>GATGTACTCTATAAATGGATATACATTTGGAAGCCTCCCAGGGCTCTCGATGTGTGCAGAAGACAGAGTG<br>AAGTGGTACCTTTTTGGGATGGGGAATGAAGTTGACGTGCATTCAGCGCTCTTTCATGGTCAAGCCCTGA<br>CCAGCAAGAACTATCATACTGATATAATCAACCTGTTCCCTGCCACTCTAATTGATGTTTCTATGGTGGC<br>CCAGAATCCTGGAGTCTGGATGCTCAGTTGCCAGAACCTGAACCATCTGAAAGCTGGTTTGCAGGCCTTT<br>TTCCAGGTTCGTGACTGCAACAAGCCCTCACCGGACGACGATATCCAAGACAGACATGTGAGACATTATT<br>ACATCGCTGCCGAGGAGACCATTTGGGACTATGCTCCGTCTGGGACAGACACCTTCACTGGAGAGAACTT<br>AACCAGTCTGGGAAGTGATTCAAGGGTATTTTTTGAGCAAGGTGCTACAAGAATTGGTGGCTCTTATAAA<br>AAATTGGTTTATCGTGAGTACACAGATGATTCCTTCACAAACCGGAAGCAAAGAGGCCCTGATGAGGAAC<br>ATCTTGGAATCCTTGGTCCTGTCATTTGGGCAGAAGTAGGAGACATCATTAGAGTCACCTTTCATAACAA<br>AGGACAATTTCCTCTCAGCATTCAGCCAATGGGGGTAAGATTCACCAAGGAAAATGAGGGAACATACTAT<br>GGCCCAGATGGCCGTTCCTCAAAGCAAGCCTCCCATGTGGCTCCCAAAGAAACCTTTACGTATGAATGGA |



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CTGTCCCCAAAGAAATGGGACCCACTTATGCAGATCCTGTGTGCCTATCTAAGATGTATTATTCTGGAGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202158 representing NM_012532
Red=Cloning site Green=Tags(s)

MKFLLLSALLFLHSSLAWTREKHYYIGITEAVWDYASGSEEKELISVDTEQSNFYLRNGPDRIGRKYKKA
LYSEYTDGTFTKTIDKPAWLGLLGPVIKAEVGDKVSVHVKNFASRPYTFHAHGVTYTKANEGAIYPDNTT
DFQRADDKLFPGQQYLYVLRANEPSPGEGDSNCVTRIYHSHVDAPKDIASGLIGPLILCKKGSLHKEKEE
NIDQEFVLMFSVVDENLSWYLEDNIKTFCSEPEKVDKDNEDFQESNRMYSINGYTFGSLPGLSMCAEDRV
KWYLFGMGNEVDVHSALFHGQALTSKNYHTDIINLFPATLIDVSMVAQNPGVWMLSCQNLNHLKAGLQAF
FQVRDCNKPSPDDDIQDRHVRHYYIAAEETIWDYAPSGTDTFTGENLTSLGSDSRVFFEQGATRIGGSYK
KLVYREYTDDSFTNRKQRGPDEEHLGILGPVIWAEVGDIIRVTFHNKGQFPLSIQPMGVRFTKENEGTYY
GPDGRSSKQASHVAPKETFTYEWTVPKEMGPTYADPVCLSKMYYSGVDLTKDIFTGLIGPMKICKKGSLL
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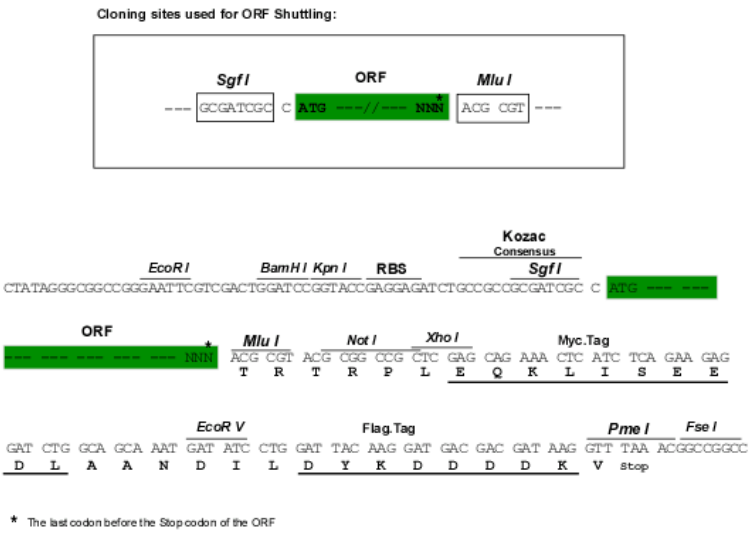
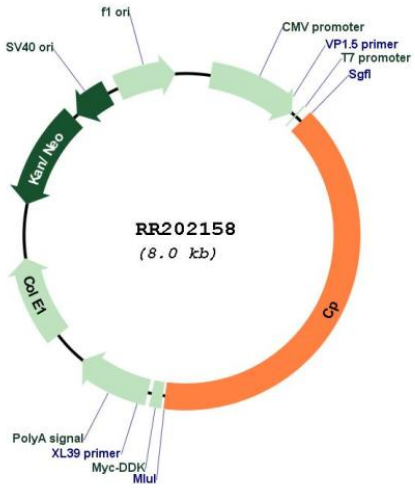
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_012532

**ORF Size:** 3177 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.

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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_012532.2, NP_036664.2 |
| **RefSeq Size:** | 3732 bp |
| **RefSeq ORF:** | 3180 bp |
| **Locus ID:** | 24268 |
| **Cytogenetics:** | 2q24 |
| **MW:** | 120.7 kDa |
| **Gene Summary:** | copper-containing ferroxidase that promotes iron incorporation into transferrin; plays a role in iron metabolism and homeostatis [RGD, Feb 2006] |