

Product datasheet for **MC229350**

Cp (NM_001276250) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cp (NM_001276250) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cp
Synonyms: D3Ertd555; D3Ertd555e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC229350 representing NM_001276250
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAAGTTTTTGCTGCTTAGCACATTTATATTTTTGTATAGTTCCTTAGCCTTGCAAGAGATAAGCATT
 ATTTTCATTGGAATTACTGAAGCAGTCTGGGACTATGCTTCTGGCACTGAAGAAAAGAACTTATTTTCAGT
 TGACACGGAACAGTCCAATTTCTATCTTCAAAATGGTCCAGATCGTATTGGAAGAAAATATAAGAAGGCC
 CTTTATTTTGGTACACAGATGGCACCTTTAGTAAGACTATAGACAAACCAGCCTGGCTAGGGTTTTTAG
 GCCCTGTCATCAAAGCTGAAGTTGAAGATAAAGTTTATGTTCACTTAAAGAACCTTGCCCTAGGATCTA
 CACTTTTCATGCACATGGGGTAACGTACACCAAGGAGATGAGGGAGCCGCTACCTGACAACACCACT
 GATTTTCAACGGGCTGATGACAAAGTGCTCCCGACAACAGTATGTGTATGTGCTGCATGCCAATGAGC
 CAAGTCCTGGAGAGGGAGACAGCAATTGTGTGACCAGGATTTACCACTCCCATGTTGATGCTCCAAAAGA
 TATTGCATCAGGACTCATAGGACCTCTAACTCTGTAAAAAGGTTCTCTATATAAGGAAAAAGAGAAA
 AATATTGACCAAGAATTTGTAATAATGTTCTGTGGTGGATGAAAACTCAGCTGGTATCTGGAAGATA
 ACATCAAACCTTCTGCTCTGAACCCGAGAAAGTTGATAAAGACAATGAAGACTTCCAGGAAAGCAACAG
 GATGTACTCTATAAATGGATATACATTTGGAAGCCTCCAGGGCTCTCGATGTGTGCAGCAGACAGAGTG
 AAGTGGTACCTTTTTGGTATGGGTAATGAAGTTGATGTGCATTCAGCTTTCTTTTCATGGCCAAAGCCCTGA
 CCAGCAGGAATCAAAACCGATATAATCAACCTGTTCCCTGCCACCCTAATTGATGCTTATATGGTGGC
 CCAGAATCCTGGAGTCTGGATGCTCAGTTGCCAGAACCTAAACCTCTGAAAGCTGGGTTGCAGGCCCTT
 TTCCAGGTTCTGACTGTAAACAGCCCTCGCCAGAGGATAATATCCAAGATAGGCATGTGAGACACTATT
 ACATTGCTGCTGAGGAGGTCTGGAATTATGCTCCTTCTGGGACGGACATCTTCACTGGAGAGAATTT
 AACAGCTCTGAAAGTGATTCAAGGGTATTTTTGAGCAAGGTGCCACAAGAATTGGTGGCTCTTATAAA
 AAAATGGCATATCGTGAGTACACAGATGGTTCTTCAAAACCGAAAACAAGAGGCCCTGATGAGGAAC
 ATCTTGAATCCTAGGTCCTGTCATTTGGGCAGAAAGTAGGAGACACCATTAAGTACCTTTCATAACAA
 AGGACAGCATCCTCTCAGCATTAGCCAATGGGAGTAAGTTTCACTGCAGAAAATGAGGGAACATACTAT



GGCCCACCAGGTCGCTCCTCACAGCAAGCCTCCCATGTGGCTCCCAAAGAAACCTTTACATACGAATGGA
 CTGTCCCCAAAGAAATGGGACCCACTTATGCAGATCCTGTGTGCCTATCTAAGATGTACTACTCTGGCGT
 TGACCCCAACAAAGATATATTTACTGGGCTTATTGGGCAATGAAAATATGCAAGAAAGGCAGCTTACTT
 GCTGATGGGAGACAGAAAGATGTAGACAAAAGATTCTACTTGTTCACACAGTGTGGATGAGAATGAGA
 GTTTACTCTTAGATGATAATATCAGGATGTTCACAACTGCACCTGATCAAGTGGATAAGGAAGATGAAGA
 CTTTCAGGAGTCTAATAAGATGCACTCCATGAATGGGTTTCATGTATGGCAATCAGCCTGGCCTCAATATG
 TGTCTAGGAAATCCATCGTGTGGTATTTGTTTCAGCGCTGGAAATGAGGCTGATGTGCATGGGATATACT
 TTTTCAGGAAATACTTATCTGTCTAAAGGAGAAAGAGAGACTGCAAACCTATTCCTCATAAAAGTCT
 CACCCTTCTCATGAACCCTGACACAAAAGGACTTTTGTGTTGAGTGCCTTACAACGGATCACTACACA
 GGTGGCATGAAGCAAAAATACACTGTGAACCAGTGCCAGCGGCAGTTTGAAGATTCACTGTCTACCTTG
 GAGAAAGGACCTACTATGTGGCAGCCGTAGAGGTGGAATGGGATTACTACCAAGCAGGGCCTGGGAAAA
 GGAGCTGCATCATTTGCAAGAGCAAAAATGTTTCAAATGTATTTTGGATAAAGAAGAGTTTTTTCATAGGC
 TCAAAGTACAAGAAGTTGTGTATCGCCAGTTTACTGACAGCTCATTAGAGAACAGGTGAAGAGACGAG
 CCGAAGACGAGCACTTGGGCATCCTTGGCCCAATTCATGCAAATGTTGGAGACAAAGTTAAAGTTGT
 CTTTAAAAATATGGCAACCAGGCCATATCAATACATGCCATGGGGTAAAACAGAGAGTTCTACAGTT
 GTTCCAACGTTACCAGGTGAAGTTCGAACTTATACATGGCAAATTCAGAAAGATCAGGGGCTGGAAGAG
 AGGATTACAGTTGTATCCCATGGGCTTATTACTCAACTGTGGATCGAGTTAAGGATCTCTATAGTGGCT
 AATAGGCCATTGATTGTTTGTGCGGAAGTCTTATGTGAAAGTATTAGTCTTAAAGAAATGGAGTTT
 TTCCTTCTGTTTCTAGTATTTGATGAGAATGAATCTTGGTACTTATAGTATAACATCAAAACATACTCTG
 AACCCCTGAGAAAGTAAACAAAGACAACGAGGAATTCCTAGAAAAGCAATAAAATGCATGCTATTAATGG
 GAAAATGTTTGGAAACCTACAAGGCCTACAATGCACGTGAAAGTGAAGTCAACTGGTATGTGATGGGA
 ATGGGCAATGAAATAGACCTGCACACTGTACACTTCCACGGCCACAGCTTCCAATACAAGCACAGGGGAG
 TATACAGTCTGATGCTTTGACCTTTTCCCTGGAACATACCAAACCTAGAAAATGTTTCCCAAACACC
 TGGAAACCTGGTTACTCCACTGCCACGTGACTGACCATGTCCATGCTGGGATGGCAACTACCTACACTGTT
 TTACCAGTAGAACAGTATCATCTCAGAGTTACAGGATGACCTGGAACATCCTCTATACACTACTAATCA
 GCATCATTATTTTATTCCAAATGTCTACCAAGGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001276250
- Insert Size:** 3258 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_001276250.1](#), [NP_001263179.1](#)

RefSeq Size: 4712 bp

RefSeq ORF: 3258 bp

Locus ID: 12870

Cytogenetics: 3 A2

Gene Summary: The protein encoded by this gene is a copper-containing glycoprotein found soluble in the serum and GPI-anchored in other tissues. It oxidizes Fe(II) to Fe(III) and is proposed to play an important role in iron homeostasis. In humans mutations of this gene cause aceruloplasminemia, which is characterized by retinal degeneration, diabetes, anemia and neurological symptoms. In mouse deficiency of this gene in combination with a deficiency of its homolog hephaestin causes retinal degeneration and serves as a pathophysiological model for aceruloplasminemia and age-related macular degeneration. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (4) uses an alternate, in-frame acceptor splice site as well as an alternate 3' exon structure, compared to variant 2. It encodes isoform c which is longer and has a distinct C-terminus, compared to isoform b. Both variants 3 and 4 encode the same isoform (c). 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 transcript alignments.