

## Product datasheet for MR211563

### Cp (NM\_007752) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cp (NM_007752) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cp
Synonyms:	D3Erttd555; D3Erttd555e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211563 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAAGTTTTTGCTGCTTAGCACATTTATATTTTTGTATAGTTCCTTAGCCTTGCAAGAGATAAGCATT  
ATTTTCATTGGAATTACTGAAGCAGTCTGGGACTATGCTTCTGGCACTGAAGAAAAGAACTTATTTTCAGT  
TGACACGGAACAGTCCAATTTCTATCTTCAAAATGGTCCAGATCGTATTGGAAGAAAATATAAGAAGGCC  
CTTTATTTTGGTACACAGATGGCACCTTTAGTAAGACTATAGACAAACCAGCCTGGCTAGGGTTTTTATG  
GCCCTGTCATCAAAGCTGAAGTTGAAGATAAAGTTTATGTTCACTTAAAGAACCTTGCCCTAGGATCTA  
CACTTTTCATGCACATGGGGTAACGTACACCAAGGAGTATGAGGGAGCCGCTACCTGACAACACCACT  
GATTTTCAACGGGCTGATGACAAAGTGCTCCCGGACAACAGTATGTGTATGTGCTGCATGCCAATGAGC  
CAAGTCCTGGAGAGGGAGACAGCAATTGTGTGACCAGGATTTACCACTCCCATGTTGATGCTCCAAAAGA  
TATTGCATCAGGACTCATAGGACCTCTAACTCTGTAAAAAGGTTCTCTATATAAGGAAAAAGAGAAA  
AATATTGACCAAGAATTTGTAATAATGTTCTCTGTGGTGGATGAAAACTCAGCTGGTATCTGGAAGATA  
ACATCAAACCTTCTGCTCTGAACCCGAGAAAGTTGATAAAGACAATGAAGACTTCCAGGAAAGCAACAG  
GATGTACTCTATAAATGGATATACATTTGGAAGCCTCCAGGGCTCTCGATGTGTGCAGCAGACAGAGTG  
AAGTGGTACCTTTTTGGTATGGGTAATGAAGTTGATGTGCATTCAGCTTTCTTTTCATGGCCAAGCCCTGA  
CCAGCAGGAATCAAAACCGATATAATCAACCTGTTCCCTGCCACCCTAATTGATGCTTATATGGTGGC  
CCAGAATCCTGGAGTCTGGATGCTCAGTTGCCAGAACCTAAACCATCTGAAAGCTGGGTTGCAGGCCCTT  
TTCCAGGTTCTGACTGTAAACAGCCCTCGCCAGAGGATAATATCCAAGTAGGCATGTGAGACACTATT  
ACATTGCTGCTGAGGAGGTCTGGAATTATGCTCCTTCTGGGACGGACATCTTCACTGGAGAGAATTT  
AACAGCTCTGAAAGTGATTCAAGGGTATTTTTGAGCAAGGTGCCACAAGAATTGGTGGCTCTTATAAA  
AAAATGGCATATCGTGAGTACACAGATGGTTCTTCAAAACCGAAAACAAGAGGCCCTGATGAGGAAC  
ATCTTGAATCCTAGGTCCTGCTATTTGGGAGAAAGTAGGAGACACCATTAAAGTCACTTTTATAACAA  
AGGACAGCATCCTCTCAGCATTAGCCAATGGGAGTAAGTTTCACTGCAGAAAATGAGGGAACATACTAT



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GGCCACCAGGTCGCTCCTCACAGCAAGCAGCCTCCCATGTGGCTCCCAAAGAAACCTTTACATACGAAT  
 GGACTGTCCCAAGAAATGGGACCCACTTATGCAGATCCTGTGTGCCTATCTAAGATGTACTACTCTGG  
 CGTTGACCCCAAGATATATTTACTGGGCTTATTGGGCAATGAAAAATGCAAGAAAGGCAGCTTA  
 CTTGCTGATGGGAGACAGAAAGATGTAGACAAAGATTCTACTTGTTCACAGTGTGGATGAGAATG  
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 ATGTGTCTAGGAGAATCCATCGTGTGGTATTTGTTTTCAGCGCTGGAATGAGGCTGATGTGCATGGATAT  
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 TCTCACCTTCTCATGAACCCTGACACAAAAGGGACTTTTGTATGTTGAGTGCCTTACAACGGATCACTAC  
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 GGCTCAAAGTACAAGAAGTTGTGTATCGCCAGTTTACTGACAGCTCATTAGAGAACAGGTGAAGAGAC  
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 GAGAGGATTACAGCTTGTATCCCATGGGCTTATTACTCAACTGTGGATCGAGTTAAGGATCTCTATAGTG  
 GCTAATAGGCCATTGATTGTTTGTGCGAAGTCTTATGTGAAAGTATTAGTCTTAAAAAGAAAATGGAG  
 TTTTCTTCTGTTTCTAGTATTTGATGAGAATGAATCTTGGTACTTAGATGATAACATCAAAACATACT  
 CTGAACACCCTGAGAAAGTAAACAAAGACAACGAGGAATTCCTAGAAAGCAATAAAATGCATGCTATTAA  
 TGGGAAAATGTTGGAACCTACAAGGCCTCACAATGCACGTGAAAGTGAAGTCAACTGGTATGTGATG  
 GGAATGGGCAATGAAATAGACCTGCACACTGTACACTTCCACGGCCACAGCTTCCAATACAAGCAGGG  
 GAGTATACAGTTCTGATGCTTTGACCTTTCCCTGGAACATACCAAACCTAGAATGTTTCCCAAAAC  
 ACCTGGAACCTGTTACTCCACTGCCACGTGACTGACCATGTCCATGCTGGGATGGCAACTACCTACACT  
 GTTTTACCAGTAGAACAGAGACTAAGTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211563 protein sequence  
 Red=Cloning site Green=Tags(s)

MKFLLLSTFIFLYSSLALARDKHIFYGITEAVWDYASGTEEKKLISVDTEQSNFYLQNGPDRIGRKYKKA  
 LYFEYTDGTFSTIDKPAWLGFLGPVIAEVEDKVVVHLKNLASRIYTFHAHGVYTYKEYEGAVYPDNTT  
 DFQRADDKVLPQQYVYVLANEPSPGEGDSNCVTRIIYHSHVDAPKDIASGLIGPLILCKKGSLEYKEKEK  
 NIDQEFVLMFVVDENLSWYLEDNIKTFCEPEKVDKDNEDFQESNRMYSINGYTFGSLPGLSMCAADR  
 KWYLFMGNEVDVHSAFFHGQALTSRNYQTDIINLFPATLIDAYMVAQNPGVWMLSCQNLNHLKAGLQAF  
 FQVRDCNKPSPEDNIQDRHVRHYIIAAEEVIWNYAPSGTDIFTGENLTALESRSRVFFEQGATRIGGSYK  
 KMAFREYTDGSFTNRKQRPDEEHLGILGPVIWAEVGDITKVTFFHNKGQHPLSIQPMGVSF TAENEGTYY  
 GPPGRSSQQAASHVAPKETFTYEWTVPKEMGPTYADPVCLSKMYYSGVDPDKDIFITGLIGPMKICKKGS  
 LADGRQKDVDFEYLFPTVFDENESLLDDNIRMFTTAPDQVDKEDDFQESNMHSMNGFMYGNPGLN  
 MCLGESIVWYLF SAGNEADVHGIYFSGNTYL SKGERRDTANLFPKSLTLLMNPDTKGTDFVECLTDDHY  
 TGGMKQKYTVNQCRQFEDFTVYL GERTYYVA AVEVEWDYSPSRAWEKELHHLQE QNVSNVFLDKEEFFI  
 GSKYKVVYRQF TDSSFREQVKRAEDEHLGILGPIHANVGDVKVVFKNMATRPYSIHAGVKTESST  
 VVPTLPGEVRTYTWQIPERSGAGREDSACIPWAYYSTVDRVKDLYSGLIGPLIVCRKSYVKVFSPPKKME  
 FFLFLVFDENESWYLLDDNIKTYSEHPEKVNKDNEEFLESNMHAINGKMFNLQGLTMHVKDEVNWWYM  
 GMGNEIDLHTVHFHGHFSFYKHRGVYSSDVFDLFPGTYQTFLEMPQTPGTWLLHCHVTDH VHAGMATTYT  
 VLPVEQETKSG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_007752

ORF Size: 3186 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:
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\\_007752.3](#)

RefSeq Size: 3889 bp

RefSeq ORF: 3186 bp

Locus ID: 12870

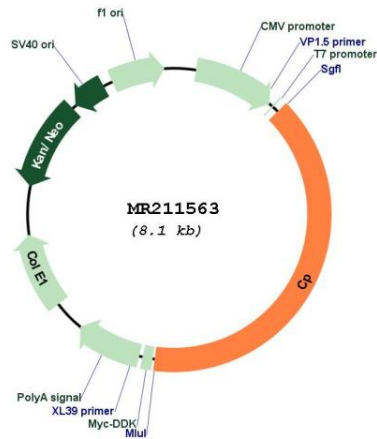
UniProt ID: [Q61147](#)

**Cytogenetics:** 3 A2

**MW:** 121.2 kDa

**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]

**Product images:**



Circular map for MR211563