

Product datasheet for **SC315128**

Ceruloplasmin (CP) (NM_000096) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceruloplasmin (CP) (NM_000096) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ceruloplasmin
Synonyms:	CP-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000096 edited
 ATGAAGATTTTGATACTTGGTATTTTTCTGTTTTATGTAGTACCCAGCCTGGGCGAAA
 GAAAAGCATTATTACATTGGAATTATTGAAACGACTTGGGATTATGCCTCTGACCATGGG
 GAAAAGAACTTATTTCTGTTGACACGGAACATTCCAATATCTATCTTCAAATGGCCCA
 GATAGAATTGGGAGACTATATAAGAAGGCCCTTATCTTCAGTACACAGATGAAACCTTT
 AGGACAATATAGAAAAACCGTCTGGCTTGGGTTTTAGGCCCTATTATCAAAGCTGAA
 ACTGGAGATAAAGTTTATGTACACTTAAAAACCTTGCCTCTAGGCCCTACACCTTTCAT
 TCACATGGAATAACTTACTATAAGGAACATGAGGGGGCCATCTACCCTGATAACACCACA
 GATTTTCAAAGAGCAGATGACAAAGTATATCCAGGAGAGCAGTACATACATGTTGCTT
 GCCACTGAAGAACAAGTCTGGGAACGAGATGGCAATTGTGTGACTAGGATTTACCAT
 TCCCACATTGATGCTCCAAAAGATATTGCCTCAGGACTCATCGGACCTTTAATAATCTGT
 AAAAAAGATTCTCTAGATAAAGAAAAAGAAAAACATATTGACCGAGAATTTGGGTGATG
 TTTTCTGTGGTGGATGAAAATTTAGCTGGTACCTAGAAGACAACATTAACCTACTGC
 TCAGAACCAGAGAAAGTTGACAAAGACAACGAAGACTTCCAGGAGAGTAACAGAATGTAT
 TCTGTGAATGGATACACTTTTGGAGTCTCCAGGACTCTCCATGTGTGCTGAAGACAGA
 GTAAAATGGTACCTTTTGGTATGGGTAATGAAGTTGATGTGCACGCAGCTTTCTTTCAC
 GGGCAAGCACTGACTAACAAGAACTACCGTATTGACACAATCAACCTCTTCTGCTACC
 CTGTTTGTGCTTATATGGTGGCCAGAACCTGGAGAATGGATGCTCAGCTGTGAGAAT
 CTAACCATCTGAAAGCCGGTTTGAAGCCTTTTTCCAGGTCCAGGAGTGAACAAGTCT
 TCATCAAAGGATAATATCCGTGGGAAGCATGTTAGACACTACTACATTGCCGCTGAGGAA
 ATCATCTGGAACATGCTCCCTCTGGTATAGACATCTTCACTAAAGAAAACCTAACAGCA
 CCTGGAAGTACTCAGCGGTG: TTTTTTGAACAAGGTACCACAAGAATTGGAGGCTCTTA
 TAAAAAGCTGGTTTATCGTGAGTACACAGATGCCTCCTTCAAAAATCGAAAGGAGAGAGG
 CCCTGAAGAAGAGCATCTGGCATCCTGGGTCTGTATTGGGCAGAGGTGGGAGACAC
 CATCAGAGTAACCTTCCATAACAAGGAGCATATCCCCTCAGTATTGAGCCGATTGGGGT
 GAGATTCAATAAGAACAACGAGGGCACATACTATCCCCAAATTACAACCCAGAGCAG
 AAGTGTGCTCCTCAGCTCCCATGTGGCACCCACAGAAACATTACCTATGAATGGAC



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TGTCCTCCAAAGAAGTAGGACCCACTAATGCAGATCCTGTGTGTCTAGCTAAGATGTATTA
 TTCTGCTGTGGATCCCCTAAAGATATATTTCACTGGGCTTATTGGGCAAATGAAAATATG
 CAAGAAAGGAAGTTTACATGCAAATGGGAGACAGAAAGATGTAGACAAGGAATTTCTATTT
 GTTTTCTACAGTATTTGATGAGAATGAGAGTTTACTCCTGGAAGATAATATTAGAATGTT
 TACAACGCACCTGATCAGGTGGATAAGGAAGATGAAGACTTTTCAGGAATCTAATAAAAT
 GCACCTCCATGAATGGATTCATGTATGGGAATCAGCCGGGTCTCACTATGTGCAAAGGAGA
 TTCGGTCGTGTGGTACTTATTCAGCGCCGAAAATGAGGCCGATGTACATGGAATATACTT
 TTCAGGAAACACATATCTGTGGAGAGGAGAACGGAGAGACACAGCAAACCTCTCCCTCA
 AACAAAGTCTTACGCTCCACATGTGGCCTGACACAGAGGGGACTTTTAATGTTGAATGCCT
 TACAACCTGATCATTACACAGCGGCATGAAGCAAAAATATACTGTGAACCAATGCAGGCG
 GCAGTCTGAGGATTCACCTTCTACCTGGGAGAGAGGACATACTATATCGCAGCAGTGG
 GGTGGAATGGGATTATCCCCACAAAGGGAGTGGGAAAAGGAGCTGCATCATTTACAAGA
 GCAGAATGTTTCAAATGCATTTTTAGATAAGGGAGAGTTTTACATAGGCTCAAAGTACAA
 GAAAGTTGTGATCGGCAGTATACTGATAGCACATTCCTGTTCCAGTGGAGAGAAAAGC
 TGAAGAAGAACATCTGGGAATTCTAGGTCCACAACCTTCATGCAGATGTTGGAGACAAAGT
 CAAAATTAATCTTTAAAAACATGGCCACAAGGCCCTACTCAATACATGCCCATGGGTACA
 AACAGAGAGTTTCTACAGTTACTCCAACATTACCAGGTGAAACTCTCACTTACGTATGGAA
 AATCCCAGAAAGATCTGGAGCTGGAACAGAGGATTCTGCTTGTATTCCATGGGCTTATTA
 TTCAACTGTGGATCAAGTTAAGGACCTCTACAGTGGATTAATTGGCCCCCTGATTGTTTG
 TCGAAGACCTTACTTGAAAGTATTCAATCCCAGAAGGAAACTGGAATTTGCCCTTCTGTT
 TCTAGTTTTTGATGAGAATGAATCTTGGTACTTAGATGACAACATCAAACATACTCTGA
 TCACCCCGAGAAAGTAAACAAAGATGATGAGGAATTCATAGAAAGCAATAAAATGCATGC
 TATTAATGGAAGAATGTTTGGAAACCTACAAGGCCTCACAATGCACGTGGGAGATGAAGT
 CAACTGGTATCTGATGGGAATGGGCAATGAAATAGACTTACACACTGTACATTTTCACGG
 CCATAGCTTCCAATACAAGCACAGGGGAGTTTATAGTTCTGATGTCTTTGACATTTTCCC
 TGGAACATACCAAACCTAGAAATGTTTCCAAGAACACCTGGAATTTGGTTACTCCACTG
 CCATGTGACCGACCACATTCATGCTGGAATGGAACCCTTACACCGTTTACAAAATGA
 AGACACCAAATCTGGCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM_000096
- Insert Size:** 4200 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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:	<u>NM_000096.1, NP_000087.1</u>
RefSeq Size:	3321 bp
RefSeq ORF:	3198 bp
Locus ID:	1356
UniProt ID:	<u>P00450</u>
Cytogenetics:	3q24-q25.1
Domains:	Cu-oxidase
Protein Families:	Druggable Genome
Protein Pathways:	Porphyrin and chlorophyll metabolism
Gene Summary:	<p>The protein encoded by this gene is a metalloprotein that binds most of the copper in plasma and is involved in the peroxidation of Fe(II)transferrin to Fe(III) transferrin. Mutations in this gene cause aceruloplasminemia, which results in iron accumulation and tissue damage, and is associated with diabetes and neurologic abnormalities. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (1) represents the longer, protein-coding transcript.</p>