

## Product datasheet for **MC223654**

### Cd163 (NM\_053094) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd163 (NM\_053094) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cd163  
**Synonyms:** CD163v2; CD163v3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223654 representing NM\_053094  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGTGGACACAGAATGGTTCTTCTGGAGGTGCTGGATCTCCTGGTTGTAAAAGGTTTGCCATCTAG  
 GTTTCTTTGTGGCTGTGAGCTCACTTCTCAGTGCCTCTGCTGCTCACTAACGCTCCTGGAGAAATGAA  
 GAAGGAAGTGGAGTGGCGGGTGGTAAAACAAGTGTAGTGGGAGAGTGGAACTTAAGATCCATGACAAG  
 TGGGGCACAGTGTGCAGTAACGGCTGGAGCATGAATGAAGTGTCCGTGGTTTGCCAGCAGCTGGGATGCC  
 CAACTTCTATTAAGCCCTTGGATGGGCTAACTCCAGCGCCGGCTCTGGATATATCTGGATGGACAAAGT  
 TTCTTGTACAGGGAATGAGTCAGCTCTTGGGACTGCAACATGATGGGTGGGAAAGCATAAAGTGTACC  
 CATGAAAAGATGCTGGAGTGACCTGCTCAGATGGATCTAATTTGGAGATGAGACTGGTGAACAGTGCAG  
 GCCACCGATGCTTAGGAAGAGTAGAAAATAAGTTCCAGGGAAAGTGGGGACGGTGTGTGACGACAACT  
 CAGCAAAGATCACGCTTCTGTGATTTGTAACAGCTTGGATGTGGAAGTGCCATTAGTTTCTCTGGCTCA  
 GCTAAATTGGGAGCTGGTCTGGACCACTGGCTCGATGACCTGGCATGCAATGAAATGAGTCAGCTC  
 TCTGGGACTGCAACACCGGGGATGGGGCAAGCATAAAGTGTGACCATGCTGAGGATGTCGGTGTGATTTG  
 CTTAGAGGGAGCAGATCTGAGCCTGAGACTAGTGGATGGAGTGTCCAGATGTTCCAGGAAGATTGGAAGTG  
 AGATTCCAAGGAGAATGGGGACCGTGTGTGATGATAACTGGGATCTCCGGGATGCTTCTGTGGTGTGCA  
 AGCAACTGGGATGTCCAAGTCCATCAGTGCCATTGGTTCGAGTTAATGCCAGTGAGGGATCTGGACAGAT  
 TTGGCTTGACAACATTTTCATGCGAAGGACATGAGGCAACTCTTTGGGAGTGTAAACACCAAGAGTGGGGA  
 AAGCATTACTGTCATCATAGAGAAGACGCTGGTGTGACATGTTCTGATGGAGCAGATCTGGAAGTGTAGC  
 TTGTAGGTGGAGGACGCTGCTGCTGGCATTGTGGAGTGGAGATTGAGAGCTGACTGGGAAGATGTG  
 TAGCCGAGGCTGGACACTGGCAGATGCGGATGTGGTTTGCAGACAGCTTGGATGTGGATCTGCGCTTCAA  
 ACCCAGGCTAAGATCTACTCTAAAAGTGGGCAACAAATACGTGGCTCTTCTGGATCTTGTAAATGGAA  
 ATGAAACTACTTTTTGGCAATGCAAAAAGTGGCAGTGGGGCGGCCTTTCCTGTGATAATTCGAAGAGC  
 CAAAGTTACCTGCTCAGGCCACAGGGAACCCAGACTGGTTGGAGGAGAAATCCCATGCTCTGGTCTGTG  
 GAAGTGAACACGGAGACGTGTGGGGCTCCGTCTGTGATTTTACTTGTCTCTGGAAGTCCAGTGTGG



TGTGCAGGGAATTACAATGTGGAACAGTCGTCTATCCTAGGGGGAGCACATTTTGGAGAAGGAAGTGG  
 ACAGATCTGGGGTGAAGAATCCAGTGTAGTGGGGATGAGTCCCATCTTTCACTATGCTCAGTGGCGCC  
 CCGCTAGACAGAACTTGTACCCACAGCAGGGATGTCAGCGTAGTCTGCTCACGATACATAGATATTCGTC  
 TGGCAGGCGCGAGTCTCTGTGAGGGAAAGAGTGGAGCTCAAGACACTCGGAGCCTGGGGTCCCCTCTG  
 CAGTTCTCATTGGGACATGGAAGATGCTCATGTCTTATGTCAGCAGCTGAAGTGTGGGGTTGCCAATCT  
 ATTCAGAAGGAGCACATTTTGGAAAGGAGCTGGTCAAGTCTGGAGTACATGTTCCACTGCAGTGGAA  
 CTGAGGAACATATAGGAGATTGCCTCATGACTGCTCTGGGTGCGCCGACGTGTTCCGAAGGACAGGTGGC  
 CTCTGTCTCTGCTCAGGAAACCAATCCCAGACACTATTGCCATGTAGTTCATTGTCTCCAGTCCAAACA  
 ACAAGCTCTACAATCCAAAGGAGAGTGAAGTTCCTGCATAGCAAGTGGCCAGCTTCGCTTGGTAGGTG  
 GAGGTGGTCTGCTGCGCTGGAAGAGTGGAGGTCTACCACGAGGGCTCTTGGGGCACCGTCTGTGATGACAA  
 TTGGGATATGACTGATGCCAATGTGGTGTGCAAGCAGCTGGACTGTGGCGTGGCAATTAACGCCACTGGC  
 TCTGCTTACTTCGGGGAAGGAGCAGGAGCTATCTGGCTAGACGAAGTCTCTGCACTGGGAAAGAGTCTC  
 ATATTTGGCAGTGCCATTCACATGGCTGGGACGCCATAACTGCAGGCACAAAGAAGATGCAGGTGTTAT  
 CTGCTCCGAGTTCATGTCTCTGAGGCTGACCAACGAAGCCACAAGAAAAGTGCACAGGTGCCTTGAA  
 GTGTTTTACAATGGTACATGGGGCAGTATTGGCAGTAGCAATATGTCTCCAACCACTGTGGGGTGGTGT  
 GCCGTCAGCTGGGCTGTGACAGACAACGGGACTGTGAAACCCATACCTTCAGACAAGACACCATCCAGGCC  
 CATGTGGGTAGATCGTGTGCAGTGTCCAAAAGGAGTTGACACTTTGTGGCAGTGCCCTCGTCACCTTGG  
 AAACAGAGACAGGCCAGCCCCTCTCCAGGAGTCTGGATCATCTGTGACAACAAAATAAGACTCCAGG  
 AAGGGCATACAGACTGTTCTGGACGTGTGGAGATCTGGCACAAGGTTCTGGGGAACAGTGTGTGATGA  
 CTCCTGGGATCTTAATGATGCTAAGGTTGTATGTAAGCAGTTGGGCTGTGGCCAAGCTGTGAAGGCACTA  
 AAAGAAGCAGCATTTGGTCCAGGAACGGGCCATATGGCTCAATGAAATTAAGTGTAGAGGGAATGAGT  
 CTTCCCTGTGGGATTGTCTGCCAAACCGTGGAGTACAGCGACTGTGGGCACAAAGAAGATGCTCCAT  
 CCAGTCCCTCCAAAAATGACTTCAGAATCACATCATGGCAGAGTCAACCCACCCTCACGGCAGCTTTG  
 GTTTGTGGAGCCATTCTATTGGTCTCCTCATTGTCTTCTCCTGTGGACTCTGAAGCGACGACAGATTC  
 AGCGACTTACAGTTTCTCAAGAGGAGAGTCTTGATACATCAAGTTCAGTACCAAGAGATGGATTCAAA  
 GGCGGATGATCTGGACTTCTGAAATCCTCGGGGTCATTAGAGGCACACTGAGAAGGAAAATGATAAT  
 TTATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053094
- Insert Size:** 3366 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).
- 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\\_053094.2](#), [NP\\_444324.2](#)

RefSeq Size: 4409 bp

RefSeq ORF: 3366 bp

Locus ID: 93671

UniProt ID: [Q2VLH6](#)

Cytogenetics: 6 F2

**Gene Summary:** Involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1 (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate segment in the 3' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter than isoform 1. 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.