

## Product datasheet for MR219212

### Cd163 (NM\_053094) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Cd163 (NM_053094) Mouse Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Cd163   |
| Synonyms:                 | CD163v2; CD163v3  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR219212 representing NM_053094<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGGACACAGAATGGTTCTTCTGGAGGTGCTGGATCTCCTGGTTGTAAAAGGTTTGTCCATCTAG  
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CAACTTCTATTAAGCCCTTGGATGGGCTAACTCCAGCGCCGGCTCTGGATATATCTGGATGGACAAAGT  
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CTTAGAGGGAGCAGATCTGAGCCTGAGACTAGTGGATGGAGTGTCCAGATGTTCCAGGAAGATTGGAAGTG  
AGATCCAAGGAGAATGGGGACCGTGTGTGATGATAACTGGGATCTCCGGGATGCTTCTGTGGTGTGCA  
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ATGAAACTACTTTTTGGCAATGCAAAAAGTGGCAGTGGGGCGCCTTTCCTGTGATAATTCGAAGAAGC  
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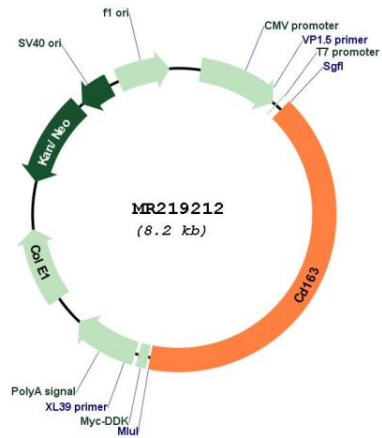
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CAGTTCTATTGGGACATGGAAGATGCTCATGTCTTATGTCAGCAGCTGAAGTGTGGGGTTGCCAATCT  
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CATGTGGGTAGATCGTGTGCAGTGTCCAAAAGGAGTTGACACTTTGTGGCAGTGCCCTCGTCACCTTGG  
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GGCGGATGATCTGGACTTGTGAAATCCTCGGGGGTCAATCAGAGGCACACTGAGAAGGAAAATGATAAT  
TTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_053094.1</a> , <a href="#">NM_053094.2</a> , <a href="#">NP_444324.2</a>   |
| <b>RefSeq Size:</b>           | 4409 bp   |
| <b>RefSeq ORF:</b>            | 3366 bp   |
| <b>Locus ID:</b>              | 93671   |
| <b>UniProt ID:</b>            | <a href="#">Q2VLH6</a>  |
| <b>Cytogenetics:</b>          | 6 F2  |
| <b>MW:</b>                    | 121.4 kDa   |
| <b>Gene Summary:</b>          | 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] |

Product images:



Circular map for MR219212