

## Product datasheet for **MG201951**

### Cd164 (NM\_016898) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd164 (NM\_016898) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cd164  
**Synonyms:** A24; A115; AA589639; AW540279; MGC-24; MSSP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201951 representing NM\_016898  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGGCTCCTCCCGCCGACTGCTCTGGGCCGCCACCTGCCTCGCCGTGCTCTGCGTCTCGGCCGCGC  
 AGCCCAACATCACCACCCTGGCTCCCAACGTGACCGAGGTGCCGACCACGACCACCAAAGTGGTCCCGAC  
 GACGCAAATGCCACCGTGTACCAGAACTGTGCGAGCTTCAACAGCTGTGTTTCTGTGTTAATGCC  
 ACCTTTACTAATAATATTACCTGCTTTTGGTTACATTGCCAAGAAGCAAATAAGACCTATTGTGCAATG  
 AACCATTAAGTAATTGTTCCAGGTGAACCGCACTGACTTGTGTTCTGTAATACCTCCTACCACTCCAGT  
 GCCAACCAATTCTACAGCTAAGCCACAACCTCGGCCTTCCTCTCCTACACCTACTCCCTCAGTTGTGACA  
 TCAGCAGGGACAACAAATACCACACTGACTCCAACCTCCCAGCCTGAGCGGAAGTCGACCTTTGATGCAG  
 CCAGCTTCATTGGAGGGATCGTCTTGTCTTGGGTGTGCAAGCTGTAATTTTCTTCTCTATAAGTTCTG  
 CAAATCTAAAGAACGAAATTACCATACTCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG201951 representing NM\_016898  
 Red=Cloning site Green=Tags(s)

MSGSSRLLWAATCLAVLCVSAAPNITLAPNVTEVPTTTTKVPTTQMPTVLPETCASFNCSVSCVNA  
 TFTNNITCFWLHCQEANKTYCANEP LSNCSQVNRDLCSVIPPTTPVPTNSTAKPTTRPSSPTTPSVVT  
 SAGTTNTLTPTSQPERKSTFDAASFIGGIVLVLGVAIVFFLYKFKSKERNYHTL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

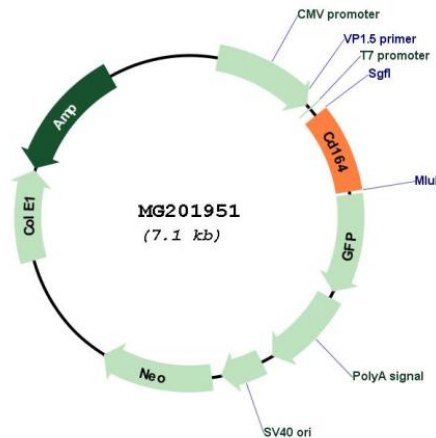


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_016898

**ORF Size:** 591 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\\_016898.2](#), [NP\\_058594.1](#)

**RefSeq Size:** 2830 bp

**RefSeq ORF:** 594 bp

**Locus ID:** 53599

**UniProt ID:** [Q9R0L9](#)

**Cytogenetics:** 10 22.46 cM

**Gene Summary:** Sialomucin that may play a key role in hematopoiesis. May be involved in cell adhesion (By similarity). Promotes myogenesis by enhancing CXCR4-dependent cell motility. Positively regulates myoblast migration and promotes myoblast fusion into myotubes.  
[UniProtKB/Swiss-Prot Function]