

## Product datasheet for **RR204156**

### Cd164 (NM\_031812) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd164 (NM_031812) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd164
Synonyms:	MGC-24v
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204156 representing NM_031812 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGCGCCTCCCGGGACTGTTCTGGGCCGCCACCTGCCTCGCCGCGCTCGCTGTGGCCCGGC  
AGAGCAACAGCAGCGCATCTCCCAACGTGACTGACCCGCCGACCAGCAGCAAAGTGGTCCCGACGAC  
GCTCACCACCACCAAGCCGCCAGAAACCTGTGAGAGCTTCAACAGCTGTGTTTCTGTGTCAACGCCACC  
TTGACTAATAATATTACCTGCGTCTGGCTAGATTGCCATGAAGCAAATAAGACCTATTGTTCAAGTGAAT  
TAGTAAGTAATTGTACCCAGAAGACCAGTACTGACTCCTGTTCTGTAATACCTACCACCCAGTGCCAAC  
CAATTCTACAGCTAAGCCTACAACCTCGGCCTTCTCTCTACACCTACTCCCTCAGTTGTACATCAGCA  
GGTGCAACAAATACCACTGTGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGCT  
TCATTGGAGGAATCGTCTTGTCTTGGGTGTGCAGGCTGTAATTTCTTTCTATAAATCTGCAAATC  
TAAAGAACGAAATTACCATACTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RR204156 representing NM_031812 Red=Cloning site Green=Tags(s)
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MSGASRGLFWAATCLAALCLSAAQSNSSASPNVTDPPPTTTSKVVPTLTTTKPETCESFNSCVSCVNAT  
LTNNITCVWLDCHANKTYCSSELVSNCTQKTSTDSCSVIPTTPVPTNSTAKPTTRPSSPTTPSVVTS  
GATNTTVPPTSQPERKSTFDAASFIGGIVLVLGVAIVFFLYKFCKSKERNYHTL

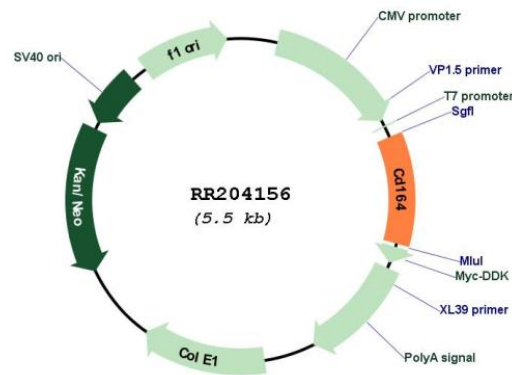
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_031812

**ORF Size:** 585 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\\_031812.1](#), [NP\\_114000.1](#)

**RefSeq Size:** 2836 bp

**RefSeq ORF:** 588 bp

**Locus ID:** 83689

**UniProt ID:** [Q9QX82](#)

**Cytogenetics:** 20q12

**MW:** 20.5 kDa

**Gene Summary:** membrane protein found in lysosomal and endosomal compartments [RGD, Feb 2006]