

## Product datasheet for **RC226763**

### CD164 (NM\_001142402) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD164 (NM\_001142402) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CD164  
**Synonyms:** DFNA66; endolyn; MGC-24; MGC-24v; MUC-24  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC226763 representing NM\_001142402  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCCGGCTCTCCCGCTCACTGCTTTGGGCCGCCACCTGCCTGGGCGTCTGCGTGTGTCCGGG  
ACAAGAACACGACCCAGCACCCGAACGTGACGACTTTAGCGCCATCTCCAACGTAACCTCGGCGCCGGT  
GACGTCCTCCCGCTGGTCACCACTCCGGCACCAGAACTGTGAAGGTCGAAACAGCTGCGTTTCTGT  
TTAATGTTAGCGTTGTTAATACTACCTGCTTTGGATAGAATGTAAAGATGAGAGCTATTGTTACATA  
ACTCAACAGTTAGTGATTGTCAAGTGGGAACACGACAGACTTCTGTTCCGTTTCCACGGCCACTCCAGT  
GCCAACAGCCAATTCTACAGGTACAACAATAACTGTGACTCCAACCTCACAACCTGTGCGAAAGTCT  
ACCTTTGATGCAGCCAGTTTCATTGGAGGAATTGCCTGGTCTTGGGTGTGCAGGCTGTAATTTCTTTC  
TTTATAAATTCTGCAAATCTAAGAACGAAATTACCACACTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226763 representing NM\_001142402  
Red=Cloning site Green=Tags(s)

MSRLSRLLWAATCLGVLCVLSADKNTTQHPNVTTLAPISNVTSAPVTSPLPLVTPPETCEGRNSCVSC  
FNVSVVNTTCFWIECKDESYCSHNSTVSDCQVGNTTDFCSVSTATPVPTANSTGTNNNTVTPTSQPVRKS  
TFDAASFIGGIVLVLVQAVIFFLYKFCKSKERNYHTL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

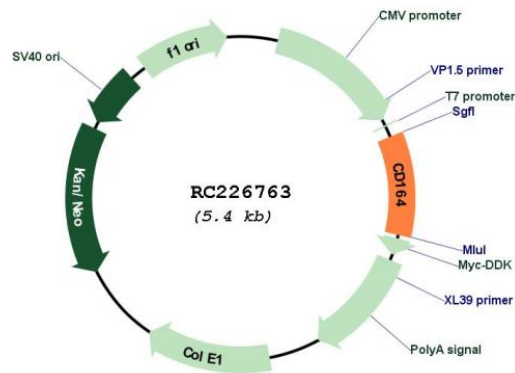
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_001142402

ORF Size: 534 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.

<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>	<u><a href="#">NM_001142402.2</a></u>
<b>RefSeq ORF:</b>	537 bp
<b>Locus ID:</b>	8763
<b>UniProt ID:</b>	<u><a href="#">Q04900</a></u>
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Lysosome
<b>MW:</b>	18.8 kDa
<b>Gene Summary:</b>	This gene encodes a transmembrane sialomucin and cell adhesion molecule that regulates the proliferation, adhesion and migration of hematopoietic progenitor cells. The encoded protein also interacts with the C-X-C chemokine receptor type 4 and may regulate muscle development. Elevated expression of this gene has been observed in human patients with Sezary syndrome, a type of blood cancer, and a mutation in this gene may be associated with impaired hearing. [provided by RefSeq, Oct 2016]