

Product datasheet for **RC227018**

CD164 (NM_001142404) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD164 (NM_001142404) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD164
Synonyms: DFNA66; endolyn; MGC-24; MGC-24v; MUC-24
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227018 representing NM_001142404
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCTCTCCCGCTCACTGCTTTGGGCCGCCACCTGCCTGGGCGTGCTCTGCGTGCTGTCCGCGG
ACAAGAACACGACCCAGCACCCGAACGTGACGACTTTAGCGCCCATCTCCAACGTAACCTCGGCGCCGGT
GACGTCCTCCCGCTGGTCACTCCTCCGACCCAGAACTGTGAAGGTGAAACAGCTGCGTTTCCTGT
TTAATGTTAGCGTTGTTAATACTACCTGCTTTGGATAGAATGTAAGATGAGAGCTATTGTTACATA
ACTCAACAGTTAGTGATTGTCAAGTGGGAACACGACAGACTTCTGTTCCGTTTCCACGGCCACTCCAGT
GCCAACAGCCAATTCTACAGCTAAACCCACAGTTCAGCCCTCCCCTTCTACAACCTCCAAGACAGTTACT
ACATCAGAAATAAGATGCCACACAAGGAACACTACATTCCAGATTTAAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227018 representing NM_001142404
Red=Cloning site Green=Tags(s)

MSRLSRLLWAATCLGVLCVLSADKNTTQHPNVTTLAPISNVTSAPVTSPLPLVTTTAPETCEGRNSCVSC
FNVSVVNTTFCWIECKDESYCSHNSTVSDCQVGNTTDFCSVSTATPVPTANSTAKPTVQSPSTTSKTVT
TSEIRCHTRNYIPDLKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

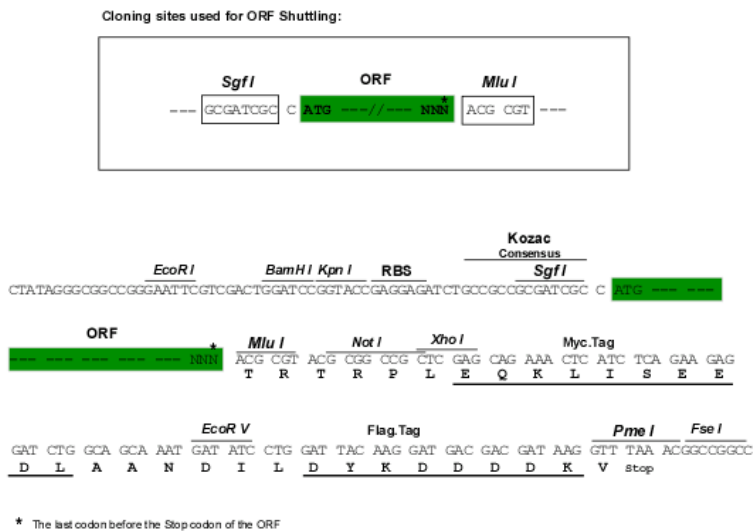
Chromatograms: https://cdn.origene.com/chromatograms/ja1459_g01.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142404

ORF Size: 471 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_001142404.2](#)

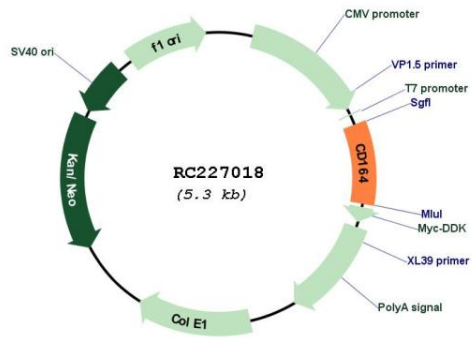
RefSeq ORF: 474 bp

Locus ID: 8763

UniProt ID: [Q04900](#)

Cytogenetics:	6q21
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Lysosome
MW:	16.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC227018