

Product datasheet for RC214287

CD94 (KLRD1) (NM_007334) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD94 (KLRD1) (NM_007334) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD94
Synonyms: CD94
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214287 representing NM_007334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGCTTTTACTAACTGAGTATTGAGCCAGCATTTACTCCAGGACCCAACATAGAACTCCAGAAAG
ACTCTGACTGCTGTTCTTGCCAAGAAAAATGGTTGGGTACCGGTGCAACTGTTACTTCAATTCAGTG
ACAGAAAATTGGAACGAAAGTCGGCATCTCTGTGCTTCTCAGAAATCCAGCCTGCTTCAGCTTCAAAC
ACAGATGAACTGGATTTATGAGCTCCAGTCAACAATTTACTGGATTGGACTCTTTACAGTGAGGAGC
ACACCGCCTGGTTGTGGGAGAATGGCTCTGCACCTCTCCAGTATCTATTTCCATCATTTGAACTTTTAA
TACAAAGAACTGCATAGCGTATAATCAAATGAAATGCTTTAGATGAATCCTGTGAAGATAAAAATCGT
TATATCTGTAAGCAACAGCTCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214287 representing NM_007334
Red=Cloning site Green=Tags(s)
MAAFTKLSIEPAFTPGPNIELQKDSDCSCQEKWVGYRCNCYFISSEQKTWNESRHLCASQKSSLLQLQN
TDELDFMSSSQFYWIGLSYSEEHTAWLWENGSALESQYLFPSFETFNKNCIAYNPNGNALDESCEDKNR
YICKQQLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1454_a12.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007334

ORF Size: 444 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_007334.2](#), [NP_031360.1](#)

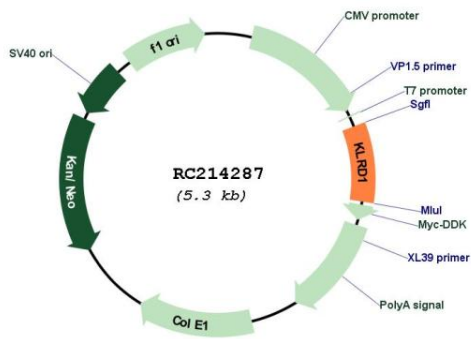
RefSeq Size: 1271 bp

RefSeq ORF: 447 bp

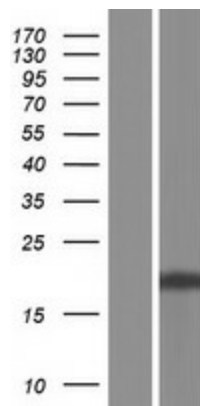
Locus ID: 3824

UniProt ID: [Q13241](#)
Cytogenetics: 12p13.2
Protein Families: Transmembrane
Protein Pathways: Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity
MW: 16.9 kDa
Gene Summary: Natural killer (NK) cells are a distinct lineage of lymphocytes that mediate cytotoxic activity and secrete cytokines upon immune stimulation. Several genes of the C-type lectin superfamily, including members of the NKG2 family, are expressed by NK cells and may be involved in the regulation of NK cell function. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2017]

Product images:



Circular map for RC214287



Western blot validation of overexpression lysate (Cat# [LY416035]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214287 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).