

Product datasheet for **RG206991**

CD94 (KLRD1) (NM_002262) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD94 (KLRD1) (NM_002262) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD94
Synonyms: CD94
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206991 representing NM_002262
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGTGTTTAAGACCACTCTGTGGAGGTTAATTTCTGGGACCTTAGGGATAATATGCCTTCGTTGA
 TGGCTACGTTGGGAATTTGTTGAAAAATCTTTACTAACTGAGTATTGAGCCAGCATTACTCCAGG
 ACCCAACATAGAACTCCAGAAAGACTCTGACTGCTGTTCTTGCCAAGAAAAATGGTTGGGTACCGGTC
 AACTGTTACTTCAATTTCCAGTGAACAGAAAATGGAACGAAAGTCGGCATCTCTGTCTTCTCAGAAAT
 CCAGCCTGCTTCAGCTTCAAACACAGATGAAGTGGATTTATGAGCTCCAGTCAACAATTTACTGGAT
 TGGACTCTTACAGTGAGGAGCACACCGCTGGTTGTGGGAGAATGGCTCTGCACTCTCCAGTATCTA
 TTTCCATCATTTGAACTTTTAATACAAAGAACTGCATAGCGTATAATCCAAATGGAAATGCTTTAGATG
 AATCCTGTGAAGATAAAAATCGTTATATCTGTAAGCAACAGCTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206991 representing NM_002262
 Red=Cloning site Green=Tags(s)

MAVFKTTLWRLISGTLGIICLSLMTLGIILLKNSFTKLSIEPAFTPGPNIELQKDSGCCSQEKWVGYRC
 NCYFISSEQKTNWESRHLCASQKSSLLQLQNTDELDFMSSSQFYWIGLSYSEEHTAWLWENGSAISQYL
 FPSFETFNTKNCIAYNPNGNALDESCEDKNRYICKQQLI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002262

ORF Size: 537 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_002262.3](#)

RefSeq Size: 1364 bp

RefSeq ORF: 540 bp

Locus ID: 3824

UniProt ID: [Q13241](#)

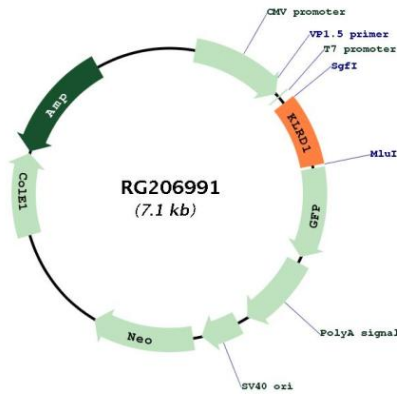
Cytogenetics: 12p13.2

Protein Families: Transmembrane

Protein Pathways: Antigen processing and presentation, Graft-versus-host disease, Natural killer cell mediated cytotoxicity

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 RG206991