

Product datasheet for RC211306L3

OriGene Technologies, Inc.

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NKG2C (KLRC2) (NM_002260) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NKG2C (KLRC2) (NM_002260) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: NKG2C

Synonyms: CD159c; NKG2-C; NKG2C

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

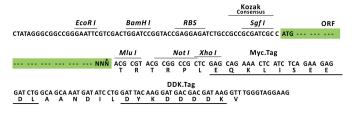
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211306).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_002260

ORF Size: 693 bp





NKG2C (KLRC2) (NM_002260) Human Tagged Lenti ORF Clone - RC211306L3

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.

Transmembrane

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: <u>NM 002260.3, NP 002251.2</u>

 RefSeq Size:
 1223 bp

 RefSeq ORF:
 696 bp

 Locus ID:
 3822

 UniProt ID:
 P26717

Cytogenetics: 12p13.2

Protein Families:

Protein Pathways: Antigen processing and presentation, Natural killer cell mediated cytotoxicity

MW: 26.1 kDa

Gene Summary: Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and

virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. NK cells preferentially express several calcium-dependent (C-type)

lectins, which have been implicated in the regulation of NK cell function. The group, designated KLRC (NKG2) are expressed primarily in natural killer (NK) cells and encodes a

family of transmembrane proteins characterized by a type II membrane orientation

(extracellular C terminus) and the presence of a C-type lectin domain. The KLRC (NKG2) gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed on NK cells. KLRC2 alternative splice variants have been described

but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]