**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC211306

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

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | NKG2C (KLRC2) (NM_002260) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | NKG2C |
| **Synonyms:** | CD159c; NKG2-C; NKG2C |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC211306 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAAACAAAGAGGAACCTTCTCAGAAGTGAGTCTGGCCCAGGACCCAAAGCGGCAGCAAAGGAAAC
CTAAAGGCAATAAAAGCTCCATTTCAGGAACCGAACAGGAAATATTCCAAGTAGAATTAAATCTTCAAAA
TCCTTCCCTGAATCATCAAGGGATTGATAAAATATATGACTGCCAAGGTTTACTGCCACCTCCAGAGAAG
CTCACTGCCGAGGTCCTAGGAATCATTTGCATTGTCCTGATGGCCACTGTGTTAAAAACAATAGTTCTTA
TTCCTTTCCTGGAGCAGAACAATTCTTCCCCGAATACAAGAACGCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACTTGGGAAGAG
AGTTTGCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTC
TGGCCAGCATTTTACCTTCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGACAAT
AAATGGTTTGGCTTTCAAACATAAGATAAAAGACTCAGATAATGCTGAACTTAACTGTGCAGTGCTACAA
GTAAATCGACTTAAATCAGCCCAGTGTGGATCTTCAATGATATATCATTGTAAGCATAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

>RC211306 protein sequence
Red=Cloning site Green=Tags(s)

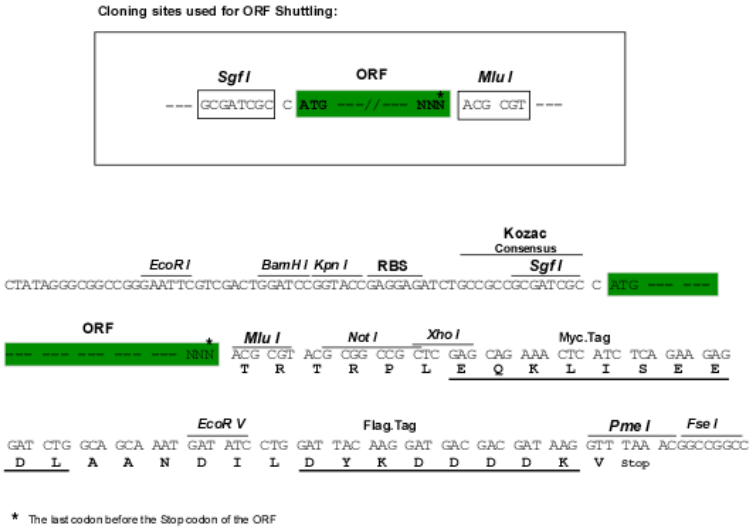
MSKQRGTFSEVSLAQDPKRQQRKPKGNKSSISGTEQEIFQVELNLQNPSLNHQGIDKIYDCQGLLPPPEK
LTAEVLGIICIVLMATVLKTIVLIPFLEQNNSSPNTRTQKARHCGHCPEEWITYSNSCYYIGKERRTWEE
SLLACTSKNSSLLSIDNEEEMKFLASILPSSWIGVFRNSSHHPWVTINGLAFKHKIKDSDNAELNCAVLQ
VNRLKSAQCGSSMIYHCKHKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6369_f07.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_002260

**ORF Size:** 693 bp

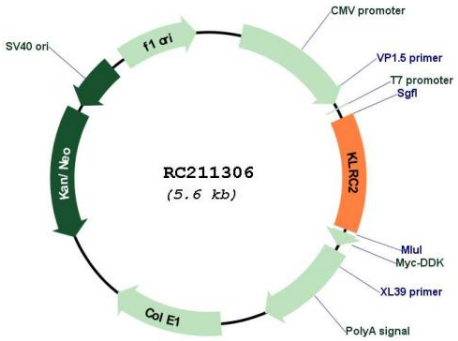
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

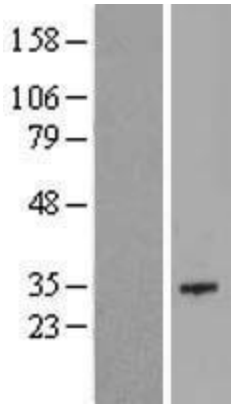
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_002260.3, NP_002251.2 |
| **RefSeq Size:** | 1223 bp |
| **RefSeq ORF:** | 696 bp |
| **Locus ID:** | 3822 |
| **UniProt ID:** | P26717 |
| **Cytogenetics:** | 12p13.2 |
| **Protein Families:** | Transmembrane |
| **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] |

## Product images:




Circular map for RC211306




Western blot validation of overexpression lysate (Cat# [LY419440]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211306 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).