

Product datasheet for RC211621

NKG2A (KLRC1) (NM 213657) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NKG2A (KLRC1) (NM 213657) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: NKG2A

Synonyms: CD159A; NKG2; NKG2A

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC211621 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGTAAGCATAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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NKG2A (KLRC1) (NM_213657) Human Tagged ORF Clone - RC211621

Protein Sequence: >RC211621 protein sequence

Red=Cloning site Green=Tags(s)

MDNQGVIYSDLNLPPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLPSAPEK LIVGILGIICLILMASVVTIVVIPSRHCGHCPEEWITYSNSCYYIGKERRTWEESLLACTSKNSSLLSID NEEEMKFLSIISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKDSDNAELNCAVLQVNRLKSAQCGSSIIYH

CKHKL

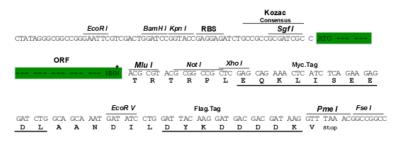
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6435 d09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_213657

ORF Size: 645 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 213657.2

RefSeq Size: 1563 bp RefSeq ORF: 648 bp Locus ID: 3821

UniProt ID: P26715 Cytogenetics: 12p13.2

Protein Families: Transmembrane

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

cytotoxicity

MW: 24.2 kDa

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

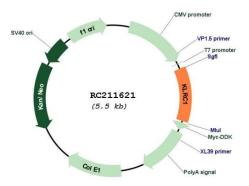
> virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. The protein encoded by this gene belongs to the killer cell lectin-like receptor family, also called NKG2 family, which is a group of transmembrane proteins

preferentially expressed in NK cells. This family of proteins is characterized by the type II membrane orientation and the presence of a C-type lectin domain. This protein forms a complex with another family member, KLRD1/CD94, and has been implicated in the recognition of the MHC class I HLA-E molecules in NK cells. The genes of NKG2 family members form a killer cell lectin-like receptor gene cluster on chromosome 12. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed.

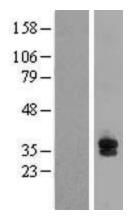
[provided by RefSeq, Jan 2015]



Product images:



Circular map for RC211621



Western blot validation of overexpression lysate (Cat# [LY403735]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211621 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).