

# **Product datasheet for RG204640**

# KLRC4 (NM 013431) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** KLRC4 (NM\_013431) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: KLRC4

Synonyms: NKG2-F; NKG2F

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG204640 representing NM\_013431

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCCAGGACCCAAAGAGGCAGCAAAAGAAAC TTAAAGGGCAATAAAATCTCCATTTCAGGAACCAAACAGGAAATATTCCAAGTAGAATTAAACCTTCAAAA TGCTTCTTCGGATCATCAAGGGAATGACAAGACATATCACTGCAAAGGTTTACTGCCACCTCCAGAGAAG CTCACTGCTGAGGTCCTAGGAATCATTTGCATTGTCCTGATGGCCACTGTGTTAAAAACAATAGTTCTTA TTCCTTGTATTGGAGTACTGGAGCAGAACAATTTTTCCCTGAATAGAAGAATGCAGAAAGCACGTCATTG TGGCCATTGTCCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAACACT

TGGGAAGAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204640 representing NM\_013431

Red=Cloning site Green=Tags(s)

MNKQRGTYSEVSLAQDPKRQQRKLKGNKISISGTKQEIFQVELNLQNASSDHQGNDKTYHCKGLLPPPEK LTAEVLGIICIVLMATVLKTIVLIPCIGVLEQNNFSLNRRMQKARHCGHCPEEWITYSNSCYYIGKERRT

WEERVCWPVLRRTLICFL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



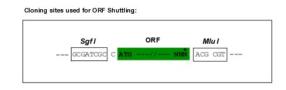
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

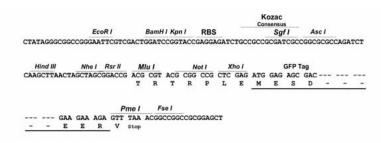
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

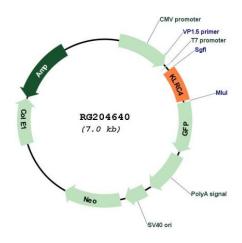


#### **Cloning Scheme:**





### Plasmid Map:



**ACCN:** NM\_013431

ORF Size: 474 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.

## KLRC4 (NM\_013431) Human Tagged ORF Clone - RG204640

**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: <u>NM 013431.2</u>

 RefSeq Size:
 971 bp

 RefSeq ORF:
 477 bp

 Locus ID:
 8302

 UniProt ID:
 043908

 Cytogenetics:
 12p13.2

**Protein Families:** Transmembrane

**Protein Pathways:** Antigen processing and presentation

**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. This gene is a member of the NKG2 group of genes that are expressed primarily in natural killer (NK) cells. These family members encode transmembrane proteins that are characterized by a type II membrane orientation (have an extracellular C-terminus) and the presence of a C-type lectin domain. This family member is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. Read-through transcription exists between this gene and the downstream KLRK1 (killer cell lectin-like receptor subfamily K,

member 1) family member. [provided by RefSeq, Dec 2010]