

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 Sequence: >RG204640 representing NM_013431
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCAGGACCCAAAGAGGCAGCAAAGGAAAC
TTAAGGGCAATAAAATCTCCATTCAGGAACCAACAGGAAATATCCAAGTAGAATTAACCTTCAAAA
TGCTTCTCGGATCATCAAGGGAATGACAAGACATCACTGCAAAGTTTACTGCCACCTCCAGAGAAG
CTCACTGCTGAGGTCCTAGGAATCATTTCATTGCTGATGGCCACTGTGTTAAAAACAATAGTTCTTA
TTCTTGTATTGGAGTACTGGAGCAGAACAATTTTCCCTGAATAGAAGAATGCAGAAAGCACGTCATTG
TGCCATTGTCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACT
TGGGAAGAAGAGTTTGCTGGCCTGTGCTCGAAGAAGCTCTGATCTGCTTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204640 representing NM_013431
Red=Cloning site Green=Tags(s)

MNKQRGTYSEVSLAQDPKRQQRKLGKNIKISISGKQEIFQVELNLQNASSDHQGNDKTYHCKGLLPPEK
LTAEVLGIICIVLMATVLTIVLIPCIGVLEQNNFSLNRRMQKARHCGHCPEEWITYSNCCYYIGKERRT
WEERVCWPVLRRTLICFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	<ol style="list-style-type: none">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:	<u>O43908</u>
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]