

Product datasheet for **RG220268**

KLRC3 (NM_007333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLRC3 (NM_007333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLRC3
Synonyms:	NKG2-E; NKG2E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220268 representing NM_007333 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAAACAAAGAGGAACCTTCTCAGAAGTGAGTCTGGCCCAGGACCCAAAGTGGCAGCAAAGGAAAC
CTAAAGGCAATAAAAGCTCCATTTAGGAACCGAACAGGAAATATTCCAAGTAGAATTAACCTTCAAAA
TGCTTCTCTGAATCATCAAGGGATTGATAAAATATAGACTGCCAAGTTTACTGCCACCTCCAGAAAAG
CTCACTGCCGAGGTCCTAGGAATCATTTCGATTGCTGATGGCCACTGTGTTAAAAACAATAGTTCTTA
TTCTTTTCTGGAGCAGAACAATTCTTCCCGAATGCAAGAACCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACTGGGAAGAG
AGTTTGCAGGCCTGTGCTTCAAAGAACTCTTCTAGTCTGCTTTGTATAGATAATGAAGAAGAAATGAAAT
TTCTGGCCAGCATTTTACCTTCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGAC
AATAAATGGTTTGGCTTTCAAACATGAGATAAAAGACTCAGATCATGCTGAACGTAACGTGCAATGCTA
CATGTACGTGGACTTATATCAGACCAGTGTGGATCTTCAAAGATCATTGTGAGCATAAGCTTTAGAATTA
AAGCGCTTGAGCTTGAGTGCATCAGATAAAATTTTATTTGTTCAAACAGAAATGATATTATGATTGC
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220268 representing NM_007333
Red=Cloning site Green=Tags(s)

MSKQRGTFSEVSLAQDPKWQQRKPKGNKSSISGTEQEIFQVELNLQNASLNHQGIDKIYDCQGLLPPEK
 LTAEVLGIICIVLMATVLTIVLIPFLEQNSSPNARTQKARHCGHCPEEWITYSNSCYIIGKERRTWE
 SLQACASKNSSLLCIDNEEMKFLASILPSSWIGVFRNSSHHPWVTINGLAFKHEIKSDHAERNCAML
 HVRGLISDQCSSRIIVSISFRIKALELAVHQIKFYICSNRNDIMIA

TRTRPLE - GFP Tag - V

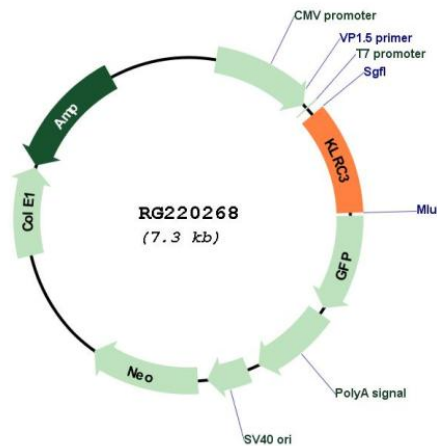
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_007333

ORF Size: 771 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:	<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:	NM_007333.2 , NP_031359.2
RefSeq Size:	843 bp
RefSeq ORF:	774 bp
Locus ID:	3823
UniProt ID:	Q07444
Cytogenetics:	12p13.2
Protein Families:	Transmembrane
Protein Pathways:	Antigen processing and presentation, Natural killer cell mediated cytotoxicity
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. KLRC3 is a member of the NKG2 group which 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 NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed on NK cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]