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Product datasheet for RG219604

NKG2A (KLRC1) (NM_213658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKG2A (KLRC1) (NM_213658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLRC1
Synonyms:	CD159A; NKG2; NKG2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219604 representing NM_213658
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAACCAAGGAGTAATCTACTCAGACCTGAATCTGCCCCCAAACCCAAAGAGGCAGCAACGAAAAC
CTAAAGGCAATAAAAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAAACCTTCAAAA
AGCTTCTCAGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGAGAAG
CTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAGTTGTTATTC
CCTCTACATTAATACAGAGGCACAACAATTCTTCCCTGAATACAAGAACTCAGAAAGCACGTCATTGTGG
CCATTGTCCTGAGGAGTGGATTACATATTCCAACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGG
GAAGAGAGTTTGCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGA
AATTTCTGTCCATCATTTCACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGT
GACAATGAATGGTTTGGCTTTCAAACATGAGATAAAAGACTCAGATAATGCTGAACTTAACTGTGCAGTG
CTACAAGTAAATCGACTTAAATCAGCCCAGTGTGGATCTTCAATAATATATCATTGTAAGCATAAGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

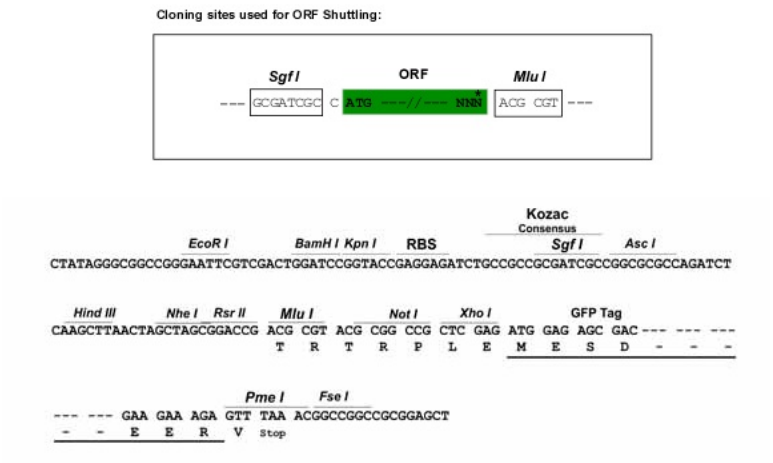
>RG219604 representing NM_213658
Red=Cloning site Green=Tags(s)

MDNQGVIYSDLNLPPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLPSAPEK
LIVGILGIICLILMASVVTIVVIPSTLIQRHNNSSLNTRTQKARHCGHCPEEWITYSNSCYYIGKERRTW
EESLLACTSKNSSLLSIDNEEEMKFLSIISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKDSDNAELNCAV
LQVNRLKSAQCGSSIIYHCKHKL

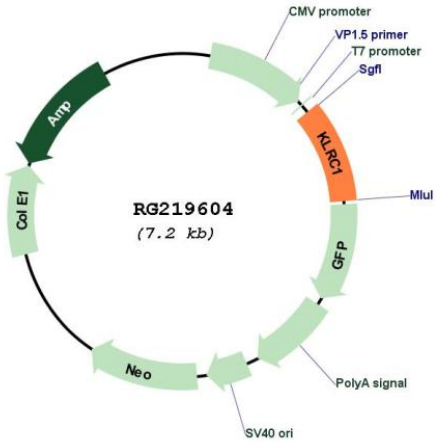
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_213658

ORF Size: 699 bp

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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_213658.2
RefSeq Size:	1386 bp
RefSeq ORF:	702 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
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]

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