

Product datasheet for **SC303160**

KLRC3 (NM_002261) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLRC3 (NM_002261) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLRC3
Synonyms:	NKG2-E; NKG2E
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002261 edited CCACCATGAGTAAACAAAGAGGAACCTTCTCAGAAGTGAGTCTGGCCAGGACCCAAAGT GGCAGCAAAGGAAACCTAAAGGCAATAAAAGCTCCATTTTCAGGAACCGAACAGGAAATAT TCCAAGTAGAATTAACCTTCAAAATGCTTCTCTGAATCATCAAGGGATTGATAAAATAT ATGACTGCCAAGGTTTACTGCCACCTCCAGAAAAGCTCACTGCCGAGGTCTAGGAATCA TTTGCATTGCTCTGATGGCCACTGTGTTAAAAACAATAGTTCTTATTCCTTTCTGGAGC AGAACAATTCTTCCCGAATGCAAGAACCAGAAAGCACGTCATTGTGGCCATTGCTCTG AGGAGTGGATTACATATTCACAGTTGTTATTACATTGGTAAGGAAAGAAGAATTGGG AAGAGAGTTTGCAGGCCTGTGCTTCAAAGAACTTTCTAGTCTGCTTTGTATAGATAATG AAGAAGAAATGAAATTTCTGGCCAGCATTTTACCTTCTCATGGATTGGTGTGTTTCGTA ACAGCAGTCATCATCCATGGGTGACAATAAATGGTTTGGCTTTCAAACATGAGATAAAAG ACTCAGATCATGCTGAACGTAAGTGTGCAATGCTACATGTACGTGGACTTATATCAGACC AGTGTGGATCTTCAAGAATCATTAGACGGGTTTCATCATGTTGACCAGGCTGGTCTTGA ACTCCTGAG
Restriction Sites:	Please inquire
ACCN:	NM_002261
Insert Size:	700 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002261.2.

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_002261.2](#), [NP_002252.2](#)

RefSeq Size: 1042 bp

RefSeq ORF: 723 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]

Transcript Variant: This variant (1), also known as NKG2-E, represents the longer transcript but encodes the shorter isoform (E).