

## Product datasheet for **SC125651**

### KLRC4 (NM\_013431) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KLRC4 (NM_013431) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLRC4
Synonyms:	NKG2-F; NKG2F
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_013431 edited ACACAGCTGCAGAGATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCCAGG ACCCAAAGAGGCAGCAAAGGAACTTAAGGGCAATAAAATCTCCATTTTCAGGAACCAAAC AGGAAATATTCCAAGTAGAATTAACCTTCAAAATGCTTCTTCGATCATCAAGGGAATG ACAAGACATATCACTGCAAAGGTTTACTGCCACCTCCAGAGAAGCTCACTGCTGAGGTCC TAGGAATCATTTCATTGTCTGATGGCCACTGTGTTAAAAACAATAGTTCTTATTCTT GTATTGGAGTACTGGAGCAGAACAATTTTCCCTGAATAGAAGAATGCAGAAAGCAGTC ATTGTGGCCATTGCTCTGAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTA AGGAAAGAAGAACTTGGGAAGAAAGAGTTTGTGGCCTGTGCTTCGAAGAAGCTGATCT GCTTTCTATAGATAATGAGGAAGAAATGGTAAGACGTAATGTTTCAACACTTTACTAAA AGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATATGTTTATACATATATTTA CTTCATATATTTTAAGTCTGTGTAGTATTCAACTGACTTCATAATATTTTATATTCAT ATACTGTTAATGCACATTTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATGCTTCT ATAAATGTTTTTATCACAAAATAAATATAAAGAAAAACAAAAAAAAAAAAAAAAAAAAA AAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_013431 unedited GGTTCAGGATATTTGTAATACGACTCACTATAGGCGGCGCGCAATTCGCCATTACGGCC GGGGGACACAGCTGCAGAGATGAATAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGC CCAGGACCCAAAGAGGCAGCAAAGGAACTTAAGGGCAATAAAATCTCCATTTTCAGGAAC CAAACAGGAAATATTTCCAAGTAGAATTAACCTTCAAAATGCTTCTTCGGATCATCAAGG GAATGACAAGACATATCACTGCAAAGGTTTACTGCCACCTCCAGAGAAGCTCACTGCTGA GGTCCTAGGAATCATTTCATTGCTCCTGATGGCCACTGTGTTAAAAACAATAGTTCTTAT TCCTTGTATTGGAGTACTGGAGCAGAACAATTTTTCCCTGAATAGAAGAATGCAGAAAGC ACGTCATTGTGGCCATTGCTCCTGAGGAGTGATTACATATTCCAACAGTTGTTATTACAT TGGTAAGGAAAGAAGAACTTGGGAAGAAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCT GATCTGCTTTCTATAGATAATGAGGAAGAAATGGTAAGACGTAATGTTTCAACACTTTA CTAAAAGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATATGTTTATACATAT ATTTACTTCATATATTTTAAGTCTGTGTAGTATTCAACTGACTTCATAATTTTTTATA TTCATATACTGTTAATGCACATTTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATG CTTCTTAAATGTGTTTATCCCAAATANATTTTAGGAAAACCNANNAAAAAAAAAAAAAAA AAAAAAAAAACCTGTGGGCGCCTGGGGCCTTGACTCTAGATGGCGCCCGTCATAGCTG GTTCTGACAAATCCCCGGTGGCTCCCTGGTGACCCCTCCCATGGCTTNTCTGGCGCTGG A
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_013431
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_013431.1</a> , <a href="#">NP_038459.1</a>
<b>RefSeq Size:</b>	971 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	8302
<b>UniProt ID:</b>	<a href="#">O43908</a>
<b>Cytogenetics:</b>	12p13.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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]