

Product datasheet for **SC125932**

NKG2A (KLRC1) (NM_213657) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKG2A (KLRC1) (NM_213657) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKG2A
Synonyms:	CD159A; NKG2; NKG2A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_213657 edited
 GGGGGCATGCCCCAGAGGTACAGATGTATATGTCTCCAGGAAGTCTCTGTGGGTGAAGG
 ACTGATCTCAAGTTGTGGCTGACACTAGTTAAAGCCAAGGTAGAGGGCTGTTTCAGGGTC
 TACATTGAGACTACAGTTGATATGCCTACCTCCTGAGACACTAGTGTGTGAGTCTCCTCC
 TGGGCCCTGGGCAAATGGTTTTGGCAGCATGACCAAGGCCTAAATGGGGCTGAAGGCAA
 GCACAGGAGGATGGGTCCTTTTCAGGTCTGGAGATGGAATCACTGTTGCTATAGCAGGC
 CTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAA
 GAGTACAGTCCCTGACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAG
 ACCTGAATCTGCCCCAAACCCAAAGAGGCAGCAACGAAAACCTAAAGGCAATAAAAGCT
 CCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAACCTTCAAAAAGCTTCTC
 AGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGAGA
 AGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGA
 TAGTTGTTATCCCTCACGTCATTGTGGCCATTGTCTGAGGAGTGGATTACATATTCCA
 ACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTTGTGGCCTGTA
 CTTGGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCA
 TCATTTACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGA
 CAATGAATGGTTTGGCTTTCAAACATGAGATAAAAGACTCAGATAATGCTGAACTTAACT
 GTGCAGTGCTACAAGTAAATCGACTTAAATCAGCCAGTGTGGATCTTCAATAATATATC
 ATTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCAATTTGCAAGTGCATCAGATAAATGT
 ATATTTCTTAAATAGAAATATATTATGATTGCATAAATCTTAAATGAATATGTTATT
 TGCTCTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACAAATTAATAAGT
 ACAGACTCCTAGCATTGTGTGGGCTCATTGTGCTCAACATGGTATTTGTGGTTTTCA
 GCCTTTCTAAAAGTTGCATGTTATGTGAGTCAGCTTATAGGAAGTACCAAGAACAGTCAA
 ACCCATGGAGACAGAAAGTGAATAGTGGTTGCCAATGTCTGAGGGAGGTTGAAATAGGA
 GATGACCTCTAACTGATAGAACGTTACTTTGTGTGCTGATGAAAACCTTTCTAAATTTCA
 TAGTGGTGATGGTTGTAACCTCTGCGAATACTAAACATCATTGATTTTTAATCATTTTA
 AGTGCATGAAATGTATGCTTTGTACATGACACTCAATAAAGCTATCCACAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_213657 unedited
 GGTGAGGAAATTTGTATACGACTCACTATAGGCGGCGCGGAATTCGCATTACGGCCGGG
 GGCATGCCCCAGAGGTACAGATGTGTATGTCTCCAGGAAGTCTCTGTGGGTGAAGGACT
 GATCTCAAGTTGTGGCTGACACTAGTTAAAGCCAAGGTAGAGGGCTGTTTCAGGGTCTAC
 ATTGAGACTACAGTTGATATGCCTACCTCCTGAGACACTAGTGTGTGAGTCTCCTCCTGG
 GCCCTGGGCAAATGGTTTTGGCAGCATGACCAAGGCCTAAATGGGGCTGAAGGCAAGCA
 CAGGAGGATGGGTCCTTTTCAGGTGTGGAGATGGAATCACTGTTGCTATAGCAGGCCTT
 TTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAGAG
 TACAGTCCCTGACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGACC
 TGAATCTGCCCCAAACCCAAAGAGGCAGCAACGAAAACCTAAAGGCAATAAAAGCTCCA
 TTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAACCTTCAAAAAGCTTCTCAGG
 AGTTTCAAGGGAATGACAAAACCTATCACTGCGAAGATTTACCATCAGCTCCAAAGAAGC
 TCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAG
 TTGTTATCCCTCACGTCATTGTGGCCATTGTGCTGAGGAGTGGATTACATATTCCAACA
 GTTGTACTACATTGGGAAGAAAGAAACTGGGAAGAAGATTTGCTGGCCTGACTCCA
 AGAACTCCAGTCTGCTTTCTATAGATAATGAAAAGAAATGAAATTTCTGGCATCATTTT
 ACCATCCTGATGGAGTGGGGTGTTCCTAACAGCAGTCATCATCGCTGGG

Restriction Sites: Please inquire

ACCN: NM_213657

OTI Disclaimer:	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).
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_213657.1 , NP_998822.1
RefSeq Size:	1332 bp
RefSeq ORF:	648 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:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and lacks an in-frame coding exon compared to variant 1. The resulting isoform (NKG2-B) is shorter compared to isoform NKG2-A. Variants 2 and 4 encode the same isoform (NKG2-B).</p>