

Product datasheet for **SC125810**

NKG2A (KLRC1) (NM_213658) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NKG2A (KLRC1) (NM_213658) Human Untagged Clone
Tag: Tag Free
Symbol: NKG2A
Synonyms: CD159A; NKG2; NKG2A
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_213658 edited
GGCAAGCACAGGAGGATGGGTCCCTTTTCAGGTCTGGAGATGGAATCACTGTTGCTATAG
CAGGCCTTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGA
CAGAAGAGTACAGTCCCTGACATCACACTGCAGAGATGGATAACCAAGGAGTAATCTA
CTCAGACCTGAATCTGCCCCCAAACCCAAAGAGGCAGCAACGAAAACCTAAAGGCAATAA
AAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAACCTTCAAAAAGC
TTCTCAGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCC
AGAGAAGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGT
AACGATAGTTGTTATCCCTCTACATTAATACAGAGGCACAACAATTCTCCCTGAATAC
AAGAACTCAGAAAGCACGTCATTGTGGCCATTGCCTGAGGAGTGGATTACATATCCAA
CAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTTGCTGGCCTGTAC
TTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCAT
CATTTCCACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGAC
AATGAATGGTTTGGCTTTCAAACATGAGATAAAAGACTCAGATAATGCTGAACTAACTG
TGCAGTGTACAAGTAAATCGACTTAAATCAGCCCAGTGTGGATCTTCAATAATATATCA
TTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCATTTGCAGTGCATCAGATAAATTGTA
TATTTCTAAAAATAGAAATATATTATGATTGCATAAATCTTAAAAATGAATTATGTTATTT
GCTCTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACACAATTAAGTA
CAGACATCCTAGCATTGTGTCGGGCTCATTTTGCTCAACATGGTATTTGTGGTTTTTCAG
CCTTTCTAAAAGTTGCATGTTATGTGAGTCAGCTTATAGGAAGTACCAAGAAGCAGTCAAA
CCCATGGAGACAGAAAGTGAATAGTGGTTGCCAATGTCTGAGGGAGGTTGAAATAGGAG
ATGACCTCTAACTGATAGAACGTTACTTTGTGTCGTGATGAAAACCTTTCTAAATTTCA
AGTGGTGTGGTTGTAACCTCTGCGAATATACTAAACATCATTGATTTTTAATCATTTTAA
GTGCATGAAATGTATGCTTTGTACACGACACTTCAATAAAGCTATCCAGAAAAA
AAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_213658 unedited NNAAGTTAGGTTTTGTATACGACTCATATAGGCGGACCGGAATTCGCACGAGGGGCAAG CACAGGAGGATGGGTCCCTTTTCAGGTCTGGAGATGGAATCACTGTTGCTATAGCAGGCC TTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAG AGTACAGTCCCTGACATCACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGA CCTGAATCTGCCCCAAACCCAAAGAGGCAGCAACGAAAACCTAAAGGCAATAAAAGCTC CATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAACCTTCAAAAAGCTTCTCA GGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGAGAA GCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGAACGAT AGTTGTTATTCCTCTACATTAATACAGAGGCACAACAATTCTTCCCTGAATACAAGAAC TCAGAAAGCACGTCATTGTGGCCATTGCTGNAGAGTGGATTACATATTCACAGTTG TTACTACATTGGTAAGGAAAAGAGAACCTGGGAGAGAGTTTGTGGCCTGTACTTTTCGAG AACTCCNGTCTGCTTTCATGGNTAATGAAGAAGAATGGAATTTCTGTCTTCANTTCACCA TCCAAGGAATTGGGGGTTNCAACCAACATCCTATTCAGGGTGAACAAGAAGGGTTGGCT TTCAACCTGGATAAAAGCTCCATAAGGGGGAACCTAACGGGCCGGCTCCAGTAAACCGC CTTAAACCCCGGGGGTCTCAAAATTTAAATGGGAACAAA
Restriction Sites:	Please inquire
ACCN:	NM_213658
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_213658.1 , NP_998823.1
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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1 and 3 encode the same isoform (NKG2-A).