

Product datasheet for **SC115560**

NKG2D (KLRK1) (NM_007360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKG2D (KLRK1) (NM_007360) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKG2D
Synonyms:	CD314; D12S2489E; KLR; NKG2-D; NKG2D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115560 sequence for NM_007360 edited (data generated by NextGen Sequencing) ATGGGGTGGATTCTGGTTCGGAGTCTCGACACAGCTGGGAGATGAGTGAATTTCAAT TATAACTTGGATCTGAAGAAGAGTGATTTTTCAACACGATGGCAAAGCAAAGATGTCCA GTAGTCAAAGCAAATGTAGAGAAAATGCATCTCCATTTTTTTCTGCTGCTTCATCGCT GTAGCCATGGGAATCCGTTTCATTATTATGGTAACAATATGGAGTGTATTCCCTAAAC TCATTATTCAACCAAGAAGTTCAAATCCCTTGACCGAAAGTTACTGTGGCCCATGTCCT AAAACTGGATATGTTACAAAAATAACTGCTACCAATTTTTGATGAGAGTAAAACTGG TATGAGAGCCAGGCTTCTGTATGTCTCAAAATGCCAGCCTTCTGAAAGTATACAGCAA GAGGACCAGGATTTACTTAACTGGTGAAGTCATATCATTGGATGGGACTAGTACACATT CCAACAAATGGATCTTGGCAGTGGGAAGATGGCTCCATTCTCACCCAACCTACTAACA ATAATTGAAATGCAGAAGGGAGACTGTGCACTCTATGCCTCGAGCTTTAAAGGCTATATA GAAAACCTTTCAACTCCAATACATACATCTGCATGCAAAGGACTGTGTAA Clone variation with respect to NM_007360.3 624 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007360 unedited GTCTTTACCCCGCCGTTGNCTCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCG CGGAACTGAGGACATATCTAAATTTTCTAGTTTATAGAAGGCTTTTATCCACAAGAATC AAGATCTTCCCTCTCTGAGCAGGAATCCTTTGTGCATTGAAGACTTTAGATTCTCTCTG CGGTAGACGTGCCTTATAAGTATTTGATGGGGTGGATTCTGGTGGGAGGTCTCGACAC AGCTGGGAGATGAGTGAATTTTATAATTATAACTTGGATCTGAAGAAGAGTGATTTTTTCA ACACGATGGCAAAGCAAAGATGTCCAGTAGTCAAAGCAAATGTAGAGAAAATGCATCT CCATTTTTTTTTCTGCTGCTTCATCGCTGTAGCCATGGGAATCCGTTTCATTATTATGGTA ACAATATGGAGTGTGATTCTCTAAACTCATTATTCAACCAAGAAGTTCAAATCCCTTG ACCGAAAGTTACTGTGGCCCATGCTCTAAAACTGGATATGTTACAAAAATAACTGCTAC CAATTTTTTGTGAGAGTAAAACTGGTATGAGAGCCAGGCTTCTGTATGTCTCAAAAT GCCAGCCTTCTGAAAGTATACAGCAAAGAGGACCAGGATTTACTTAACTGGTGAAGTCA TATCATTGGATGGGACTAGTACACATTCACAACAATGGATCTTGGCAGTGGGAAGATGGC TCCATTCTCACCCAACCTACTAACAATAATTGAAATGCAGAAGGGAGACTGTGCACTC TATGCCTCGAGCTTTAAAGCTATATAGAACTGTCAACTNCAATACATACATCTGCAT GCAAAGGACTGTGTAAGATGATCAACCATCTCATA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007360 unedited CTTAGGACGCGGCCGATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACT CAGGATTCTATTTATTCAGAGGCAAAATTCCTTCTTAACTGTGAACCTGTGAAACCAAAC AAGTTATGTGCTTCCAAAATACAATAGTGGGACAAACATAGGATGGATTTACTATTCCA AAAGGAAGAAAGAGAGGAAGAGAAACAGTCATGGGACTCAAGCAAGTACAAATCATAGCA AAGGAAACGTCTAAGATCTTAAGGCTGGAGAATAATGCCTTTAAGATAATCATGGCCCA CTGGGGCAGCACCTCCCTGACCCCGTTGGGTGGAGGACCCATTAAAAGTGGCAGCAT GACCCCCACAGGCAGGAAGGCACTGCCCATGCTGTGCTCTCTGCTGTGGCCCTGCCCA TGAGGCAATTTCTGTGGAGGGTGGGGTGCACCTCAGTGATCTGCTGGCCTTCTCTTC CTTCACTGATCCCTGGGTGTTGGTCTACCTTTAGAAATTAACACAGCACCCCTCCCC AGCCCATCCACTCTGGGCTTGTGGTGGGAGAGGCAGCCTGGGGATATCTGAATTGCCTT TAGGACTCTCTCTTTTGTCTTGGAGAATCATGCATGTTTGCAGTGAATTTGTTCTATG GTTTGGTCTGTGGAGTCTAAGAAATCTGACAGTCTTTGGTCAATTTTGTCTGTTTTGT TTGTTTCTTTAGTCTCGGTTGGCAGTGTACCCTGGTGAATCTCTCTCTGTTCTCTG GGCTTTATTGAGATGGGTGATCATCTTTACACAGTCTTTGCATGCAGATGTATGTATTT GGNAGTTGAACAGTTTTCTATATAGCCTTTAAAGCTCGAGGCATAGAGTGCACAGTCTCC CTTCTGCATTTTCAATTTGTAGTNGTTGGNTGAAAAAATGGACCCATTTTCCACTGCCA AATAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_007360
Insert Size:	1750 bp
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_007360.1 , NP_031386.1
RefSeq Size:	1770 bp
RefSeq ORF:	651 bp
Locus ID:	22914
UniProt ID:	P26718
Cytogenetics:	12p13.2
Domains:	CLECT
Protein Families:	Transmembrane
Protein Pathways:	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. NK cells preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. This gene encodes a member of the NKG2 family. The encoded transmembrane protein is characterized by a type II membrane orientation (has an extracellular C terminus) and the presence of a C-type lectin domain. It binds to a diverse family of ligands that include MHC class I chain-related A and B proteins and UL-16 binding proteins, where ligand-receptor interactions can result in the activation of NK and T cells. The surface expression of these ligands is important for the recognition of stressed cells by the immune system, and thus this protein and its ligands are therapeutic targets for the treatment of immune diseases and cancers. Read-through transcription exists between this gene and the upstream KLRC4 (killer cell lectin-like receptor subfamily C, member 4) family member in the same cluster. [provided by RefSeq, Dec 2010]</p>