

## Product datasheet for **SC328592**

### CD244 (NM\_001166663) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD244 (NM_001166663) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD244
Synonyms:	2B4; NAIL; NKR2B4; Nmrk; SLAMF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328592 representing NM_001166663. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGGGCAAGTGGTCAACCTCATACTCCTCCTGCTCCTCAAGGTGTATCAGGGCAAAGGATGCCAG
GGATCAGCTGACCATGTGGTTAGCATCTCGGGAGTGCCTCTTCAGTTACAACCAAACAGCATACAGACG
AAGGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTATCACATATTGAAGTGG
GAGAATGGCTCTTTGCCCTCCAATACTTCCAATGATAGATTTCAGTTTTATAGTCAAGAACTTGAGTCTT
CTCATCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTCACCAGTATATCTGGAAAA
GTTCAGACAGCCACGTTCCAGGTTTTTGTATTTGAATCTCTGCTCCAGATAAAGTTGAGAAACCCCGC
CTACAGGGGCAGGGGAAGATCCTGGACAGAGGGAGATGCCAAGTGGCTCTGTCTTGCTTGGTCTCCAGG
GATGGCAATGTGTCCTATGCTTGGTACAGAGGGAGCAAGCTGATCCAGACAGCAGGGAACCTCACCTAC
CTGGACGAGGAGGTTGACATTAATGGCACTCACACATACCTGCAATGTCAGCAATCCTGTTAGCTGG
GAAAGCCACACCTGAATCTCACTCAGGACTGTCAGAAATGCCATCAGGAATTCAGATTTTGCCGTTTT
TTGGTGATCATCGTGATTCTAAGCGCACTGTTCCCTGGCACCCCTGCCTGCTTCTGTGTGGGAGGAGA
AAGAGGAAGGAGAAGCAGTCAGAGACCAGTCCCAAGGAATTTTGACAATTTACGAAGATGTCAAGGAT
CTGAAAACCAGGAGAAAATCACGAGCAGGAGCAGACTTTTCTGGAGGGGGGAGCACCATCTACTATG
ATCCAGTCCCAGTCTTCTGCTCCCAGTCACAAGAACCTGCATATACATTATATTAAATTCAGCCT
TCCAGGAAGTCTGGATCCAGGAAGAGGAACACAGCCCTTCCCTCAATAGCACTATCTATGAAGTGATT
GGAAAGAGTCAACCTAAAGCCAGAACCCTGCTCGATTGAGCCGCAAAGAGCTGGAGAACCTTTGATGTT
TATTCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001166663
<b>Insert Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001166663.1</a>
<b>RefSeq Size:</b>	2543 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	51744
<b>UniProt ID:</b>	<a href="#">Q9BZW8</a>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>MW:</b>	41.6 kDa

**Gene Summary:**

This gene encodes a cell surface receptor expressed on natural killer (NK) cells (and some T cells) that mediate non-major histocompatibility complex (MHC) restricted killing. The interaction between NK-cell and target cells via this receptor is thought to modulate NK-cell cytolytic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Transcript Variant: This variant (2) uses an alternate acceptor splice site at one of the coding exons compared to variant 1, resulting in an isoform (2) that is 5 aa longer than isoform 1.