

## Product datasheet for **SC126269**

### MICB (BC044218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MICB (BC044218) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICB
Synonyms:	MHC class I-like molecule PERB11.2-IMX; MHC class I chain-related protein B; MHC class I mic-B antigen; MHC class I molecule; MHC class I polypeptide-r; OTTHUMP00000029089; OTTHUMP00000035091; OTTHUMP00000035588; PERB11.2; stress inducible class I homolog
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene sequence for BC044218 edited  
 AGCGGTGCTGAGCGGGGCGCAGGTGACTAAATTCGACGGGGTCTTCTCACCGGTTTCA  
 TTCAGTTGGCCACTGCTGAGCAGCTGAGAAGGTGGCGACGTAGGGGCCATGGGGCTGGGC  
 CGGGTCTGCTGTTTCTGGCCGTCGCCTCCCTTTTGCACCCCGGCAGCCGCCGCTGAG  
 CCCACAGTCTTCGTTACAACCTCATGGTGTGTCCCAGGATGGATCTGTGCAGTCAGGG  
 TTTCTCGTGAAGGACATCTGGATGGTCAGCCCTCCTGCGCTATGACAGGCAGAAACCG  
 AGGGCAAAGCCAGGGACAGTGGGCAAGATGTCCTGGGAGCTGAGACCTGGGACACA  
 GAGACCGAGGACTTGACAGAGAATGGGCAAGACCTCAGGAGGACCCTGACTCATATCAAG  
 GACCAGAAAGGAGTGCCCAAGTCTCCAGAGCTCAGACCTGGCTATGAACGTCACAAAT  
 TTCTGGAAGGAAGATGCCATGAAGACCAAGACACTATCGCGCTATGCAGGCAGACTGC  
 CTGCAGAAACTACAGCGATATCTGAAATCCGGGGTGGCCATCAGGAGAACAGTGCACCCC  
 ATGGTGAATGTCACCTGCAGCGAGGTCTCAGAGGGCAACATCACCGTGCATGCAGGGCT  
 TCCAGTCTATCCCGGAATATCACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGC  
 CACAACACCCAGCAGTGGGGGATGTCCTGCTGATGGGAATGGAACCTACCAGACCTGG  
 GTGGCCACCAGGATTCGCAAGGAGAGGAGCAGAGGTTACCTGTACATGGAACACAGC  
 GGGAAATCACGGCACTCACCTGTGCCCTCTGGGAAGGCGCTGGTCTTCAGAGTCAACGG  
 ACAGACTTTCCATATGTTTCTGCTGCTATGCCATGTTTTGTTATTATTATTCTCTGT  
 GTCCCTTGTGCAAGAAGAAAACATCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAG  
 GTCCTGGATCAACACCCAGTGGGACAGGAGACCACAGGGATGCAGCACAGCTGGGATTT  
 CAGCCTCTGATGTCAGCTACTGGGTCCACTGGTCCACTGAGGGCGCCTAGACTCTACAG  
 CCAGGCGGCCAGGATCAACTCCCTGCCTGGATCTCACCAGCACTTTCCCTCTGTTTCT  
 GACCTATGAAACAGAAAATAACATCACTATTTATTGTTGTTGGATGCTGCAAAGTGTTA  
 GTAGGTATGAGGTGTTTGTGCTCTGCCACGTAGAGAGCCAGCAAAGGGATCATGACCAA  
 CTAACATTCATTGGAGGCTATATGATCAACAGCAAATGTTTATCATGAATGCAGGA  
 TGTGGGCAAACCTCAGACTGCTCCTGCCAACAGAAGGTTTGTGAGGGCATTCACTCCAT  
 GGTGCTCATTGGAGTTATCTACTGGGTCACTAGAGCCTATTGTTGAGGAATGCAGTCT  
 TACAAGCCTACTCTGGACCCAGCAGCTGACTCCTTCTCCACCCCTCTTCTTGCTATCTC  
 CTATACCAATAAATACGAAGGGCTGTGGAAGATCAGAGCCCTTGTTCACGAGAAGCAAGA  
 AGCCCCCTGACCCCTTGTCCAATATACTCTTTTGTCTTTTCTTTTATCCACGTTTCG  
 CCCTTTGTTGAGTCAATACAGGGTTGTGGGGCCCTAACAGTGCATATTAATTGGTAT  
 CATTATTTCTGTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGAGACAGAGTCTCACTC  
 TGTCAACCCAGGCTGCAGTTCAGTGGTGTGATCTCAGCTCACTGCAACCTCTGCCTCCCAG  
 GTTCAAGCACTTCTCGTACCTCAGACTCCCGAATAGCTGGGATTACAGACAGGCACCACC  
 ACACCCAGCTAATTTTTGTATTTTTGTAGAGACGGGGTTTTGCGCAAGTTGACCAGCCCA  
 GTTTCAAACCTCCTGACCTCAGGTGATCTGCCTGCCTTGGCATCCCAAAGTGTGGGATTA  
 CAAGAATGAGCCACCGTGCCTGGCCTATTTTATTATATTGTAATATTTTTATTATTA  
 GCCACCATGCCTGCCTATTTTCTATGTTTTAATATATTTAATATATTACATGTGCAG  
 TAATTAGATTATCATGGGTGAACCTTATGAGTGAGTATCTTGGTGTGACTCCTCCTGAC  
 CAGCCCAGGACCAGCTTTCTTGTACCTTGGGTCCTCGCCCGGTACACCCGTTATGC  
 ATTAATCTGTGTACTATTATGTGTGCATAATTTATACCGTAAATGTTTTCTCTTTAA  
 TTGAAA

**Restriction Sites:** NotI-NotI

**ACCN:** BC044218

**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).

<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>	<u><a href="#">BC044218.1</a></u> , <u><a href="#">AAH44218.1</a></u>
<b>RefSeq Size:</b>	2390 bp
<b>Locus ID:</b>	4277
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>Gene Summary:</b>	This gene encodes a heavily glycosylated protein which is a ligand for the NKG2D type II receptor. Binding of the ligand activates the cytolytic response of natural killer (NK) cells, CD8 alphabeta T cells, and gammadelta T cells which express the receptor. This protein is stress-induced and is similar to MHC class I molecules; however, it does not associate with beta-2-microglobulin or bind peptides. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]