

Product datasheet for **SC303706**

MICB (NM_005931) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICB (NM_005931) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICB
Synonyms:	PERB11.2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_005931 edited
CCGGGATATCGTCGACCCACGCGTCCGAGCGGTCGCTGAGCGGGGCGCAGGTGACTAAAT
TTCGACGGGGTCTTCTCACCGGTTTCATTTCAGTTGGCCACTGCTGAGCAGCTGAGAAGGT
GGCGACGTAGGGGCCATGGGGCTGGGCCGGTCTGCTGTTTCTGGCCGTCGCCTCCCT
TTTGCACCCCGGCAGCCGCCGTGAGCCCCACAGTCTTCGTTACAACCTCATGGTGCTG
TCCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGGGACATCTGGATGGTCAGCCC
TTCCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGACAGTGGGCAGAAGAT
GTCCTGGGAGCTGAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGCAAGAC
CTCAGGAGGACCCTGACTCATATCAAGGACCAGAAAGGAGGCTTGCAATCCCTCCAGGAG
ATTAGGGTCTGTGAGATCCATGAAGACAGCAGCACCAGGGGCTCCCGGCATTTCTACTAC
GATGGGGAGTCTTCTCTCCAAAACCTGGAGACTCAAGAATCGACAGTGCCCCAGTCC
TCCAGAGCTCAGACCTTGGCTATGAACGTCACAAATTTCTGGAAGGAAGATGCCATGAAG
ACCAAGACACACTATCGCGCTATGCAGGCAGACTGCCTGCAGAACTACAGCGATATCTG
AAATCCGGGGTGGCCATCAGGAGAACAGTGCCCCCATGGTGAATGTCACCTGCAGCGAG
GTCTCAGAGGGCAACATACCGTGACATGCAGGGCTTCCAGTCTTATCCCCGGAATATC
ACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACAACACCCAGCAGTGGGGGGAT
GTCCTGCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTCCGCCAAGGA
GAGGAGCAGAGGTTACCTGCTACATGGAACACAGCGGGAATCACGGCACTCACCTGTG
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GCTATGCCATGTTTTGTTATTATTATTCTCTGTGTCCCTTGTGCAAGAAGAAAACA
TCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAGGTCTGGATCAACACCCAGTTGGG
ACAGGAGACCACAGGGATGCAGCACAGCTGGGATTTACGCTCTGATGTCAGTACTGGG
TCCACTGGTTCCTACTGAGGGCGCCTAGACTCTACAGCCAGGCGGCCAGGATTCACCTCCC
TGCTGGATCTCACAGCACTTTCCTCTGTTTCTGACCTATGAAACAGAGAAAATAAC
ATCACTTATTTATTGTTGTTGGATGCTGCAAAGTGTAGTAGGTATGAGGTGTTTGCTGC
TCTGCCACGTAGAGAGCCAGCAAAGGGATCATGACCAACTCAACATTCATTGGAGGCTA
TATGATCAAACAGCAAATGTTTATCATGAATGCAGGATGTGGGCAAACCTCACGACTGCT
CCTGCCAACAGAAGTTTGTGAGGGCATTCACTCCATGGTGCTCATTGGAGTTATCTAC
TGGGTCATCTAGAGCCTATTGTTTGGGAATGCAGTCTTACAAGCCTACTCTGGACCCAG
CAGTTGACTCCTTCTCCACCCCTTCTTGTCTATCTCCTATACCAATAAATACGAAGGG
CTGTGGAAGATCAGAGCCCTTGTTCACGAGAAGCAAGAAGCCCCCTGACCCCTTGTCCA
AATATACTCTTTTGTCTTCTTTATTCCACGTTTGCCTTTGTTTCAGTCCAATACAG
GGTTGTGGGGCCCTTAACAGTGCCATATTAATTGGTATCATTATTTCTGTTGTTTTGTT
TTTGTTTTTGTTTTGTTTTGAGACAGAGTCTCGCTCTGTACCCAGGCTGCAGTTCAC
TGGTGTGATCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCACTTCTCGTACCTC
AGACTCCCGAATAGCTGGGATTACAGACAGGCACCACCACACCCAGCTAATTTTTGTATT
TTTTGTAGAGACGGGGTTTCGCCAAGTTGACCAGCCCAGTTTCAAACCTCTGACCTCAGG
TGATCTGCCTGCCTTGGCATCCCAAAGTGTGGGATTACAAGAATGAGCCACCGTGCCCTG
GCCTATTTTATTATATTGTAATATATTTTATTATATTAGCCACCATGCCTGTCCTATTTT
CTTATGTTTTAATATATTTAATATATTACATGTGCAGTAATTAGATTATCATGGTGAA
CTTTATGAGTGAGTATCTTGGTGTGACTCCTCCTGACCAGCCCAGGACCAGCTTCTTGTG
TCACCTTGAGGTCCCCTCGCCCCGTACACCGTTATGCATTACTCTGTGTCTACTATTAT
GTGTGCATAATTTATACCGTAAATGTTTACTCTTTAAATAGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005931 unedited TAGCTTTTGTATACGACTCCTATAGGGCGGCCGCTGAATTCAGATCTGGTACCGGTCCGG AATTCCCAGGATATCGTCGACCCACGCGTCCGAGCGGTGCTGAGCGGGGCGCAGGTGAC TAAATTCGACGGGTCTTCTCACCGTTTCATTTCAGTTGGCCACTGCTGAGCAGCTGAG AAGGTGGCGACGTAGGGGCCATGGGGCTGGGCCGGTCTGCTGTTTCTGGCCGTCGCT TCCCTTTTGCACCCCGCAGCCGCCGCTGAGCCCCACAGTCTTCGTTACAACCTCATGG TGCTGTCCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGGGACATCTGGATGGTC AGCCCTTCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGACAGTGGGCAG AAGATGTCCTGGGAGCTGAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGC AAGACCTCAGGAGACCCTGACTCATATCAAGGACCAGAAAGGAGGCTTGCAATCCCTCC AGGAGATTAGGGTCTGTGAGATCCATGAAGACAGCAGCACCAGGGGCTCCCGGCATTTCT ACTACGATGGGGAGCTTCTCTCCAAAACCTGGAGACTCAAGAATCGACAGTGCCCC AGTCTCCAGAGCTCAGACCTTGGCTATGAACGTCACAAATTTCTGGAAGGAAGTGCCA TGAAGACCAAGACACACTATCGCGCTATGCAGGCAGACTGCCTGCAGAACTACAGCGAT ATCTGAAATCCCAGGGTGGCCATCAGAGACAGTGCCCCCATGGTGAATGTCACCTGCAG CGAGGTCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGTTCTATCCCCGAA TATCCCACTGACCTG
Restriction Sites:	Please inquire
ACCN:	NM_005931
OTI Disclaimer:	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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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. More info
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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_005931.2 , NP_005922.1

RefSeq Size:	2385 bp
RefSeq ORF:	1152 bp
Locus ID:	4277
UniProt ID:	Q29980
Cytogenetics:	6p21.33
Domains:	MHC_I, ig, IGc1
Protein Families:	Druggable Genome
Protein Pathways:	Natural killer cell mediated cytotoxicity
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>