

## Product datasheet for **RC237650**

### MICB (NM\_001289160) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MICB (NM\_001289160) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MICB  
**Synonyms:** PERB11.2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237650 representing NM\_001289160  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGCTGTCCAGGATGGATCTGTGCAGTCAGGTTTCTCGCTGAGGGACATCTGGATGGTCAGCCCT  
TCCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGACAGTGGGCAGAAAATGTCTGGGAGC  
TAAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGCAAGACCTCAGGAGGACCTGACTCAT  
ATCAAGGACCAGAAAGGAGGCTTGACATTCCTCCAGGAGATTAGGCTCTGTGAGATCCATGAAGACAGCA  
GCACCAGGGGCTCCCGGCATTTCTACTACGATGGGGAGCTCTTCCTCTCCCAAAACCTGGAGACTCAAGA  
ATCGACAGTGCCCGAGTCTCCAGAGCTCAGACCTTGGCTATGAACGTCACAAAATTTCTGGAAGGAAGAT  
GCCATGAAGACCAAGACACACTATCGCGCTATGACAGGCAGACTGCCTGCAGAAACTACAGCGATATCTGA  
AATCCGGGGTGGCCATCAGGAGAACAGTGCCTCCATGGTGAATGTCACCTGCAGCGAGGTCTCAGAGGG  
CAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCGGAATATCACACTGACCTGGCGTCAGGAT  
GGGTATCTTTGAGCCACAACACCCAGCAGTGGGGGATGTCTGCCTGATGGGAATGGAACCTACCAGA  
CTGGGTGGCCACCAGGATTCGCCAAGGAGAGGAGCAGAGGTTACCTGCTACATGGAACACAGCGGGAA  
TCACGGCACTCACCTGTGCCCTCGGAAGGCGCTGGTCTCAGAGTCAACGGACAGACTTTCCATAT  
GTTTCTGTGCTATGCCATGTTTGTATTATTATTATTCTCTGTGTCCCTTGTGCAAGAAGAAAACAT  
CAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAGGTCCTGGATCAACCCAGTTGGGACAGGAGACCA  
CAGGGATGCAGCACAGCTGGATTTCCAGCTCTGATGTGACGACTACTGGTCCACTGGTCCACTGAGGGC  
ACC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237650 representing NM\_001289160  
 Red=Cloning site Green=Tags(s)

MVLSQDGSVQSGFLAEGHLDGQPFLRYDRQKRAKPPQGQWAENVLGAKTWDTETEDLTENGQDLRRTLTH  
 IKDQKGGHLHLSEIRVCEIHEDSSTRGSRHFYYDGELFLSQNLETQESTVPQSSRAQTLAMNVTNFKWED  
 AMKTKTHYRAMQADCLQKLQRYLKSQVAIRRTVPPMVNVTCEVSEGNITVTCRASSFYPRNITLTWRQD  
 GVSLSHNTQQWGDVLPDGNQTYQTWVATRIRQGEERFTCYMEHSGNHGTHPVPSGKALVLQSQRTDFPY  
 VSAAMPFCFVIIILCVPCCKKTSAAEGPELVSLQVLDQHPVGTGDHRDAAQLGFQPLMSATGSGTSTEG  
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

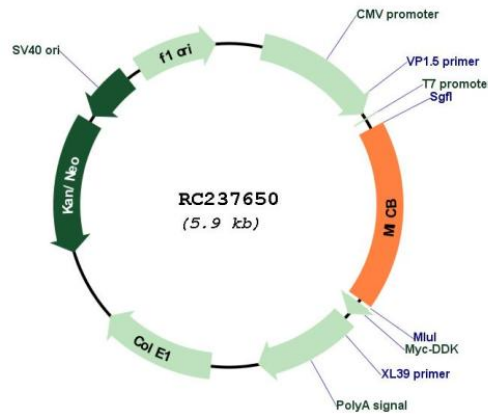
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289160

<b>ORF Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001289160.1</a> , <a href="#">NP_001276089.1</a>
<b>RefSeq Size:</b>	2426 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	4277
<b>UniProt ID:</b>	<a href="#">Q29980</a>
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>MW:</b>	39.6 kDa
<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]