

## Product datasheet for **SC335544**

### MICB (NM\_001289160) Human Untagged Clone

#### Product data:

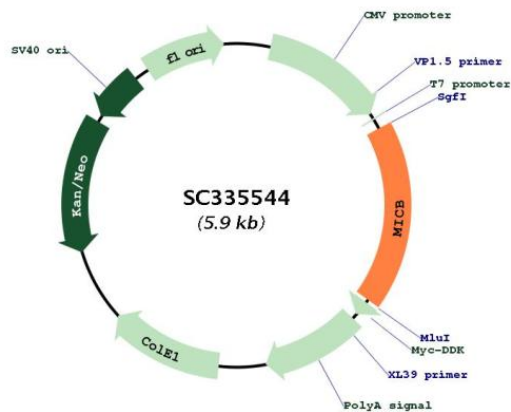
Product Type:	Expression Plasmids
Product Name:	MICB (NM_001289160) Human Untagged Clone
Tag:	Tag Free
Symbol:	MICB
Synonyms:	PERB11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335544 representing NM_001289160. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGTGTCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGCTGAGGGACATCTGGATGGTCAGCCC
TTCCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGACAGTGGGCAGAAAATGTCCTGGGA
GCTAAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGCAAGACCTCAGGAGGACCTGACT
CATATCAAGGACCAGAAAGGAGGCTTGCATTCCCTCCAGGAGATTAGGGTCTGTGAGATCCATGAAGAC
AGCAGCACCAGGGGCTCCCGCATTTCTACTACGATGGGGAGCTTCTCTCTCCAAAACCTGGAGACT
CAAGAATCGACAGTGCCTCAGAGCTCAGACCTTGGCTATGAACGTCACAAATTTCTGGAAG
GAAGATGCCATGAAGACCAAGACACACTATCGCGCTATGCAGGCAGACTGCCTGCAGAACTACAGCGA
TATCTGAAATCCGGGTGGCCATCAGGAGAACAGTGCCTCCATGGTGAATGTCACCTGCAGCGAGGTC
TCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCCGGAATATCACACTGACCTGG
CGTCAGGATGGGGTATCTTTGAGCCACAACACCCAGCAGTGGGGGGATGTCCTGCCTGATGGGAATGGA
ACCTACCAGACCTGGGTGGCCACCAGGATTCGCCAAGGAGAGGAGCAGAGGTTACCTGCCTACATGGAA
CACAGCGGGAATCACGGCACTCACCTGTGCCCTCTGGGAAGGCGCTGGTGTTCAGAGTCAACGGACA
GACTTTCCATATGTTTCTGTGCTATGCCATGTTTTGTTATTATTATTCTCTGTGTCCCTTGTTC
AAGAAGAAAACATCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAGGTCTGGATCAACACCCAGTT
GGGACAGGAGACCACAGGGATGCAGCACAGCTGGGATTTACGCCCTCTGATGTCAGCTACTGGTCCACT
GGTTCCTGAGGGCACCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001289160

**Insert Size:** 1056 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:**

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\\_001289160.1](#)

**RefSeq Size:** 2426 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 4277

**UniProt ID:** [Q29980](#)

**Cytogenetics:** 6p21.33

**Protein Families:** Druggable Genome

**Protein Pathways:** Natural killer cell mediated cytotoxicity

**MW:** 39.2 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2, which has a shorter N-terminus, compared to isoform 1.