

## Product datasheet for **RC236797**

### **MICA (NM\_001289153) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MICA (NM\_001289153) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MICA  
**Synonyms:** MIC-A; PERB11.1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC236797 representing NM\_001289153  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGGCTCATATCAAGGACCAGAAAGAAGGCTTGCATTCCTCCAGGAGATTAGGGTCTGTGAGA  
TCCATGAAGACAACAGCACCAGGAGCTCCAGCATTTCTACTACGATGGGGAGCTCTTCTCTCCAAAA  
CCTGGAGACTGAGGAATGGACAGTGCCCCAGTCTCCAGAGCTCAGACCTGGCCATGAACGTCAGGAAT  
TTCTTGAAGGAAGATGCCATGAAGACCAAGACACACTATCAGCTATGCATGCAGACTGCCTGCAGGAAC  
TACGGCGATATCTAGAATCCGGCGTAGTCTGAGGAGAACAGTGCCCCCATGGTGAATGTCACCCGCAG  
CGAGGCCCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCGGAATATCATACTG  
ACCTGGCGTCAGGATGGGTATCTTTGAGCCACGACACCCAGCAGTGGGGGATGCTCCTGCCTGATGGGA  
ATGGAACCTACCAGACCTGGGTGGCCACCAGGATTTGCCGAGGAGAGGAGCAGAGGTTACCTGCTACAT  
GGAACACAGCGGGAATCACAGCACTCACCTGTGCCCTCTGGAAAGTGCTGGTGCTTCCAGATCATTGG  
CAGACATTCATGTTTCTGCTGTTGCTGCTGGCTGCTGCTATTTTGTATTATTATTTCTATGTCCTG  
TGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC236797 representing NM\_001289153  
Red=Cloning site Green=Tags(s)

MTLAHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFYYDGELFLSQNLETEEWTVPQSSRAQTLAMNVRN  
 FLKEDAMKTKTHYHAMHADCLQELRRYLESGVLLRRTVPPMVNTRSEASEGNITVTCRASSFYPRNIIL  
 TWRQDGVSLSHDTQQWGDVLPDNGTYQTWVATRICRGEEQRFTCYMEHSGNHSTHPVPSGKVLVLQSHW  
 QTFHVSVAAGCCYFCYYYFLCPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001289153

**ORF Size:** 705 bp

**OTI Disclaimer:** 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001289153.2](#)

**RefSeq Size:** 2258 bp

**RefSeq ORF:** 708 bp

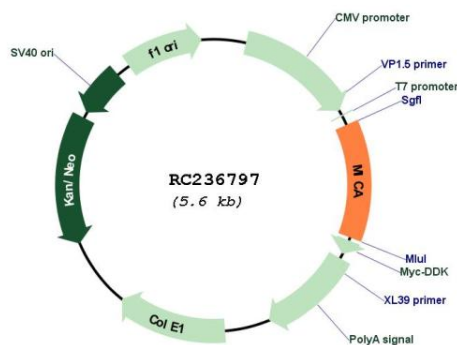
**Locus ID:** 100507436

**Cytogenetics:** 6p21.33

**MW:** 27.1 kDa

**Gene Summary:** This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2014]

### Product images:



Circular map for RC236797