

## Product datasheet for **RG229900**

### MICA (NM\_001177519) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MICA (NM\_001177519) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MICA  
**Synonyms:** MIC-A; PERB11.1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229900 representing NM\_001177519  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCTGGGCCGGTCTTTCTGCTTCTGGCTGGCATCTCCCTTTTGCACCTCCGGGAGCTGCTGCTG  
 AGCCCCACAGTCTTCGTATAACCTCACGGTGTCTCTGGGATGGATCTGTGCAGTCAGGGTTTCTTGC  
 TGAGGTACATCTGGATGGTCAGCCCTTCCTGCGCTATGACAGGCAGAAAATGCAGGGCAAAGCCCCAGGGA  
 CAGTGGGCAGAAGATGTCCTGGGAAATAAGACATGGGACAGAGAGACCAGGGACTTGACAGGGAACGGAA  
 AGGACCTCAGGATGACCCTGGCTCATATCAAGGACCAGAAAGAAGGCTTGCAATCCCTCCAGGAGATTAG  
 GGTCTGTGAGATCCATGAAGACAACAGCACAGGAGCTCCAGCATTTCTACTACGATGGGGAGCTCTTC  
 CTCTCCAAAACCTGGAGACTGAGGAATGGACAGTGCCCCAGTCTCCAGAGCTCAGACCTTGCCATGA  
 ACGTCAGGAATTTCTTGAAGGAAGATGCCATGAAGACCAAGACACACTATCACGCTATGCATGCAGACTG  
 CCTGCAGGAACACGGCGATATCTAGAATCCGGCGTAGTCTGAGGAGAACAGTGCCCCCATGGTGAAT  
 GTCACCCGACGAGGCCCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCCGGA  
 ATATCATACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACGACACCCAGCAGTGGGGGGATGTCCT  
 GCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTTGCCGAGGAGAGGAGCAGAGGTTT  
 ACCTGCTACATGGAACACAGCGGGAATCACAGCACTCACCTGTGCCCTCTGGGAAAGTGCTGGTGCTTC  
 AGAGTCATTGGCAGACATTCATGTTTCTGCTGTTGCTGCTGGCTGCTGCTATTTTTGTTATTATTATT  
 TCTATGTCGGTTGTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229900 representing NM\_001177519  
 Red=Cloning site Green=Tags(s)

MGLGPVFLLLAGIFPFAPPGAAEPHSLRYNLTVLSWDGSVQSGFLAEVHLDGQPFLRYDRQKCRAPQG  
 QWAEDVLGNKTWDRETRDLTGNKDLRMTLAHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFYYDGELF  
 LSQNLETEEWTPQSSRAQTLAMNVRNFLKEDAMKTKTHYHAMHADCLQELRRYLESGVLRRTVPPMVN  
 VTRSEASEGNITVTCRASSFYPRNIIL TWRQDGVSL SHDTQQWGDVLPDGNGTYQTWVATRICRGEEQRF  
 TCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSVAVAAGCCYFCYYYFLCPLL

TRTRPLE - GFP Tag - V

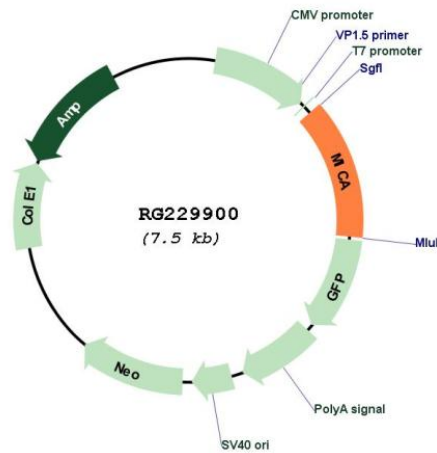
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001177519

ORF Size: 996 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_001177519.3</a>
<b>RefSeq Size:</b>	1369 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	100507436
<b>Cytogenetics:</b>	6p21.33
<b>Gene Summary:</b>	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]