

Product datasheet for **RG204447**

MICA (NM_000247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICA (NM_000247) 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:	>RG204447 representing NM_000247 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGGGCCGGTCTTCTGCTTCTGGCTGGCATCTTCCCTTTGCACCTCCGGGAGCTGCTGCTG
AGCCCCACAGTCTTCGTATAACCTCACGGTGTCTGCTGGGATGGATCTGTGCAGTCAGGGTTTCTCAC
TGAGGTACATCTGGATGGTCAGCCCTTCTGCGCTGTGACAGGCAGAAAATGCAGGGCAAAGCCCCAGGGA
CAGTGGGCAGAAGATGTCCTGGGAAATAAGACATGGGACAGAGACCAGAGACTTGACAGGGAACGGAA
AGGACCTCAGGATGACCCTGGCTCATATCAAGGACCAGAAAGAAGGCTTGCAATCCCTCCAGGAGATTAG
GGTCTGTGAGATCCATGAAGACAACAGCACCAGGAGCTCCAGCATTCTACTACGATGGGAGCTCTTC
CTCTCCAAAACCTGGAGACTGAGGAATGGACAATGCCCCAGTCTCCAGAGCTCAGACCTTGGCCATGA
ACGTGAGGAATTTCTTGAAGGAAGATGCCATGAAGACCAAGACACACTATCACGCTATGCATGCAGACTG
CCTGCAGGAACACTACGGCGATATCTAAAAATCCGGCGTAGTCTGAGGAGAACAGTGCCCCCATGGTGAAT
GTCACCCGACGAGGCGCTCAGAGGGCAACATTACCGTGACATGCAGGGCTTCTGGCTTCTATCCCTGGA
ATATCACACTGAGCTGGCGTCAGGATGGGGTATCTTTGAGCCACGACACCAGCAGTGGGGGGATGTCCT
GCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTTGCCAAGGAGAGGAGCAGAGGTTT
ACCTGCTACATGGAACACAGCGGGAATCACAGCACTCACCTGTGCCCTCTGGGAAAGTGTGGTGCTTC
AGAGTCATTGGCAGACATTCATGTTTCTGCTGTTGCTGCTGCTGCTATTTTTGTTATTATTATTTCTA
TGTCGGTTGTTGAAGAAGAAAACATCAGCTGCAGAGGGTCCAGAGCTCGTGAGCCTGCAGGTCTCGGAT
CAACACCCAGTTGGGACGAGTGACCACAGGGATGCCACAGCTCGGATTTAGCCTCTGATGTCAGATC
TTGGTCCACTGGCTCCACTGAGGGCACC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204447 representing NM_000247
 Red=Cloning site Green=Tags(s)

MGLGPVFLLLAGIFPFAPPGAAEPHSLRYNLTVLSWDGSVQSGFLTEVHLDGQPFLRCDRQKCRAPQG
 QWAEDVLGNKTDRETRDLTGNGKDLRMTLAHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFYYDGELF
 LSQNLETEEWTPQSSRAQTLAMNVRNFLKEDAMKTKTHYHAMHADCLQELRRYLKSGVLRRTVPPMVN
 VTRSEASEGNITVTCRASGFYPWNITLSWRQDGVSLSHDTQQWGDVLPDGNQTYQTWVATRICQGEERF
 TCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSAYAAAAIFVIIIFYVRCCKKTSAAEGPELVSLQVLD
 QHPVGTSDHRDATQLGFQPLMSDLGSTGSTEGT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000247

ORF Size: 1149 bp

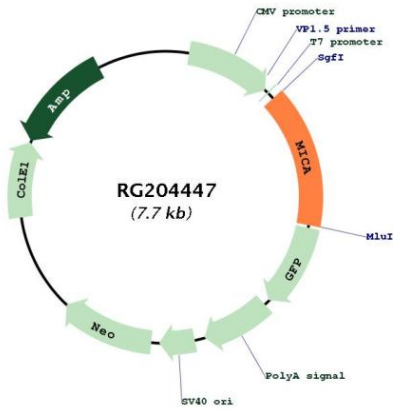
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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: 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:	<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:	<u>NM_000247.1</u> , <u>NP_000238.1</u>
RefSeq Size:	1365 bp
RefSeq ORF:	1152 bp
Locus ID:	100507436
UniProt ID:	<u>Q29983</u>
Cytogenetics:	6p21.33
Domains:	MHC_I, IGc1
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 RG204447