

Product datasheet for **RG236797**

MICA (NM_001289153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MICA (NM_001289153) 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:	>RG236797 representing NM_001289153. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCCTGGCTCATATCAAGGACCAGAAAGAAGGCTTGCATTCCCTCCAGGAGATTAGGGTCTGTGAG
ATCCATGAAGACAACAGCACCAGGAGCTCCAGCATTCTACTACGATGGGGAGCTCTTCTCTCCCAA
AACCTGGAGACTGAGGAATGGACAGTGCCCCAGTCCTCCAGAGCTCAGACCTTGGCCATGAACGTCAGG
AATTTCTGAAGGAAGATGCCATGAAGACCAAGACACACTATCACGCTATGCATGCAGACTGCCTGCAG
GAACTACGGCGATATCTAGAATCCGGCGTAGTCCTGAGGAGAACAGTGCCCCCATGGTGAATGTCACC
CGCAGCGAGGCCCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCGGAATATC
TACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACGACACCAGCAGTGGGGGGATGCTCCTGCCT
GATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTTGCCGAGGAGAGGAGCAGAGGTTCCAC
TGCTACATGGAACACAGCGGGAATCACAGCACTCACCTGTGCCCTCTGGGAAAGTGCTGGTGCTTCAG
AGTCATTGGCAGACATTCATGTTTCTGCTGTTGCTGCTGGCTGCTGCTATTTTTGTTATTATTATTTT
CTATGTCCGTTGTTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236797
 Blue=ORF Red=Cloning site Green=Tag(s)

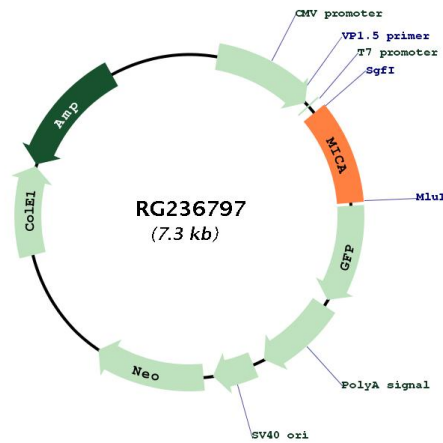
MTLAHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFYYDGELFLSQNLETEEWTVPQSSRAQTLAMNVR
 NFLKEDAMKTKTHYHAMHADCLQELRRYLESGVLRRTVPPMVNVTREASEGNITVTCRASSFYPRNI
 ILTWRQDGVSLSHDTQQWGDVLPDNGTYQTWVATRICRGEEQRFICYMEHSGNHSTHPVPSGKVLVLQ
 SHWQTFHVSAVAAGCCYFCYYYFLCPLL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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]