

## Product datasheet for **RG222315**

### MICB (NM\_005931) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MICB (NM_005931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MICB
Synonyms:	PERB11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222315 representing NM_005931 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCTGGGCCGGTCTGCTGTTTCTGGCCGTCGCTTCCCTTTGCACCCCGGCAGCCGCCGCTG  
AGCCCCACAGTCTTCGTTACAACCTCATGGTGTGTCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGC  
TGAGGGACATCTGGATGGTCAGCCCTTCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGA  
CAGTGGGCAGAAGATGTCCTGGGAGCTGAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGC  
AAGACCTCAGGAGACCCTGACTCATATCAAGGACCAGAAAGGAGGCTTGCAATCCCTCCAGGAGATTAG  
GGTCTGTGAGATCCATGAAGACAGCAGCACCAGGGCTCCCGCATTCTACTACGATGGGAGCTCTTC  
CTCTCCAAAACCTGGAGACTCAAGAATCGACAGTGCCCCAGTCTCCAGAGCTCAGACCTTGGCTATGA  
ACGTACAAAATTTCTGGAAGGAAGATGCCATGAAGACCAAGACACACTATCGCGCTATGCAGGCAGACTG  
CCTGCAGAAACTACAGCGATATCTGAAATCCGGGGTGGCCATCAGGAGAACAGTGCCCCCATGGTGAAT  
GTCACCTGCAGCGAGGTCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTTCTATCCCCGGA  
ATATCACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACAACCCAGCAGTGGGGGGATGTCCT  
GCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTCGCCAAGGAGAGGAGCAGAGGTTT  
ACCTGCTACATGGAACACAGCGGGAATCACGGCACTCACCTGTGCCCTCTGGGAAGGCGCTGGTGCTTC  
AGAGTCAACGGACAGACTTCCATATGTTTCTGCTGCTATGCCATGTTTTGTTATTATTATTCTCTG  
TGTCCTTGTGCAAGAAGAAAACATCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGCAGGTCTCGGAT  
CAACACCCAGTTGGGACAGGAGACCACAGGGATGCAGCACAGCTGGGATTCAGCCTCTGATGTCAGCTA  
CTGGTCCACTGGTTCCACTGAGGGCGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222315 representing NM\_005931  
 Red=Cloning site Green=Tags(s)

MGLGRVLLFLAVAFPPAPPAAAAEPHSLRYNLMVLSQDGSVQSGFLAEGHLDGQPFLRYDRQKRRAPQG  
 QWAEDVLGAETWDTETEDLTENGQDLRRTLTHIKDQKGLHSLQEIRVCEIHEDSSTRGSRHFYYDGELF  
 LSQNLETQESTVPQSSRAQTLAMNVTNFWKEDAMKTKTHYRAMQADCLQKLQRYLKSGVAIRRTVPPMVN  
 VTCSEVSEGNITVTCRASSFYPRNITL TWRQDGVSL SHNTQQWGDVLPDGNQTYQTWVATRIRQGEERF  
 TCYMEHSGNHGTHPVPSPGKALVLQSQRTDFPYVSAAMPCFVIIILCVPCCKKTSAAEGPELVSLQVLD  
 QHPVGTGDHRDAAQLGFQPLMSATGSTGSTEGA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005931

**ORF Size:** 1149 bp

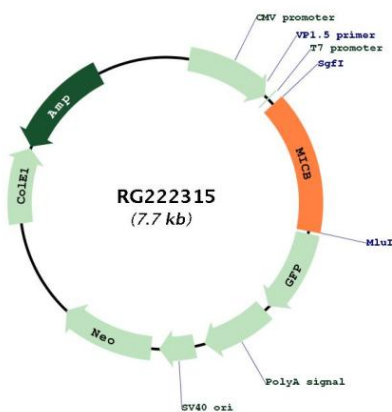
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<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>	<u><a href="#">NM_005931.2</a></u> , <u><a href="#">NP_005922.1</a></u>
<b>RefSeq Size:</b>	2385 bp
<b>RefSeq ORF:</b>	1152 bp
<b>Locus ID:</b>	4277
<b>UniProt ID:</b>	<u><a href="#">Q29980</a></u>
<b>Cytogenetics:</b>	6p21.33
<b>Domains:</b>	MHC_I, ig, IGc1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RG222315