

## Product datasheet for **RG237575**

### MICB (NM\_001289161) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MICB (NM_001289161) 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:	>RG237575 representing NM_001289161. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGCTGGGCCGGGTCTGCTGTTTCTGGCCGTCGCCTTCCCTTTGCACCCCGGCAGCCGCCGCT
GAGCCCCACAGTCTTCGTTACAACCTCATGGTGTGTCCAGGATGGATCTGTGCAGTCAGGGTTTCTC
GCTGAGGGACATCTGGATGGTCAGCCCTTCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAG
GGACAGTGGGCAGAAAAATGCTCTGGGAGCTAAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAAT
GGCAAGACCTCAGGAGGACCTGACTCATATCAAGACCAGAAAGGAGTGCCCCAGTCTCCAGAGCT
CAGACCTTGGCTATGAACGTCACAAATTTCTGGAAGGAAGATGCCATGAAGACCAAGACACACTATCGC
GCTATGCAGGCAGACTGCCTGCAGAAACTACAGCGATATCTGAAATCCGGGGTGGCCATCAGGAGAACA
GTGCCCCCATGGTGAATGTCACCTGCAGCGAGGTCTCAGAGGGCAACATCACCGTGACATGCAGGGCT
TCCAGTCTATCCCCGGAATATCACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACAACACC
CAGCAGTGGGGGATGTCCTGCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTCGC
CAAGGAGAGGAGCAGAGGTTACCTGCTACATGGAACACAGCGGGAATCACGGCACTCACCTGTGCC
TCTGGGAAGGCGCTGGTGCTTACAGTCAACGGACAGACTTCCATATGTTTCTGCTGCTATGCCATGT
TTTGTATTATTATTCTCTGTGTCCCTTGTGCAAGAAGAAAACATCAGCGGCAGAGGGTCCAGAG
CTTGTGAGCCTGCAGGTCTGGATCAACACCCAGTTGGGACAGGAGACCACAGGGATGCAGCACAGCTG
GGATTTACGCTCTGATGTCAGCTACTGGTCCACTGGTTCCACTGAGGGCACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG237575  
 Blue=ORF Red=Cloning site Green=Tag(s)

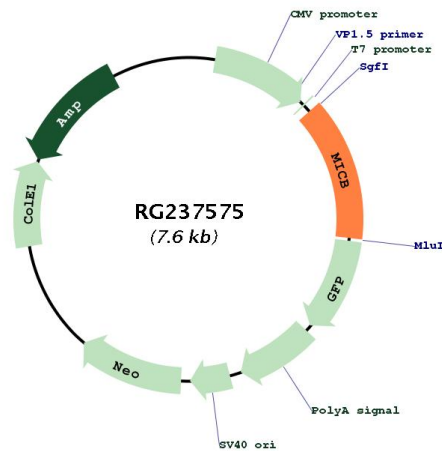
MGLGRVLLFLAVAFPPAPAAAAEPHSLRYNLMVLSQDGSVQSGFLAEGHLDGQPFLRYDRQKRAKPKQ  
 GQWAENVLGAKTWDTETEDLTENGQDLRRTLTHIKDQKGVQSSRAQTLAMNVTNFKWEDAMKTKTHYR  
 AMQADCLQKLQRYLKSVAIRRTVPPMVNVTCEVSEGNITVTCRASSFYPRNITLWTRQDGVLSHNT  
 QQWGDVLPDNGTYQTWVATRIRIQGEEQRFTCYMEHSGNHGTHPVPSGKALVLQSRQDFPYVSAAMP  
 FVIIIIILCVPCCKKTSAAEGPELVSLQVLDQHPVGTGDHRDAAQLGFQPLMSATGSTGSTE  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289161

<b>ORF Size:</b>	1020 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>RefSeq:</b>	<a href="#">NM_001289161.2</a>
<b>RefSeq Size:</b>	2396 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	4277
<b>UniProt ID:</b>	<a href="#">Q29980</a>
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>MW:</b>	38 kDa
<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]