

Product datasheet for RC237575

MICB (NM_001289161) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MICB (NM_001289161) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MICB
Synonyms: PERB11.2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237575 representing NM_001289161
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGCTGGGCCGGTCTGCTGTTTCTGGCCGTCGCCTTCCCTTTGCACCCCGGCAGCCGCCGCTG
 AGCCCCACAGTCTTCGTTACAACCTCATGGTGCTGCCAGGATGGATCTGTGCAGTCAGGGTTTCTCGC
 TGAGGGACATCTGGATGGTCAGCCCTTCTGCGCTATGACAGGCAGAAACGCAGGGCAAAGCCCCAGGGA
 CAGTGGGCAGAAAATGTCCTGGGAGCTAAGACCTGGGACACAGAGACCGAGGACTTGACAGAGAATGGGC
 AAGACCTCAGGAGGACCTGACTCATATCAAGGACCAGAAAGGAGTGCCCGAGTCCCTCCAGAGCTCAGAC
 CTTGGCTATGAACGTCAAAAATTCTGGAAGGAAGATGCCATGAAGACCAAGACACACTATCGCGCTATG
 CAGGCAGACTGCCTGCAGAACTACAGCGATATCTGAAATCCGGGGTGGCCATCAGGAGAACAGTGCCCC
 CCATGGTGAATGTCACCTGCAGCGAGGTCTCAGAGGGCAACATCACCGTGACATGCAGGGCTTCCAGCTT
 CTATCCCCGGAATATCACACTGACCTGGCGTCAGGATGGGGTATCTTTGAGCCACAACCCAGCAGTGG
 GGGATGTCCTGCCTGATGGGAATGGAACCTACCAGACCTGGGTGGCCACCAGGATTCGCAAGGAGAGG
 AGCAGAGGTTACCTGCTACATGGAACACAGCGGGAATCAGGCACTCACCTGTGCCCTCTGGGAAGGC
 GCTGGTGCTTCAGAGTCAACGGACAGACTTCCATATGTTTCTGCTGCTATGCCATGTTTTGTTATTATT
 ATTATTCTCTGTGCCCTTGTGCAAGAAGAAAACATCAGCGGCAGAGGGTCCAGAGCTTGTGAGCCTGC
 AGGTCCTGGATCAACCCAGTTGGGACAGGAGACCACAGGGATGCAGCACAGCTGGGATTTACGCTCT
 GATGTCAGCTACTGGTCCACTGGTCCACTGAGGGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237575 representing NM_001289161
 Red=Cloning site Green=Tags(s)

MGLGRVLLFLAVAFPPAPAAAAEPHSLRYNLMVLSQDGSVQSGFLAEGHLDGQPFLRYDRQKRRAPQG
 QWAENVLGAKTWDTEDEL TENGQDLRRTLTHIKDQKQVPQSSRAQTLAMNVTNFWKEDAMKTKTHYRAM
 QADCLQKLQRYLKSQVAIRRTVPPMVNVTCEVSEGNITVTCRASSFYPRNITL TWRQDGVSLSHNTQQW
 GDVLPDNGTYQTWVATRIRQGEERFTCYMEHSGNHGTHPVPSGKALVLQSQRTDFPYVSAAMPFCVII
 IILCVPCCKKTSAAEGPELVSLQVLDQHPVGTGDHRDAAQLGFQPLMSATGSTGTEGT

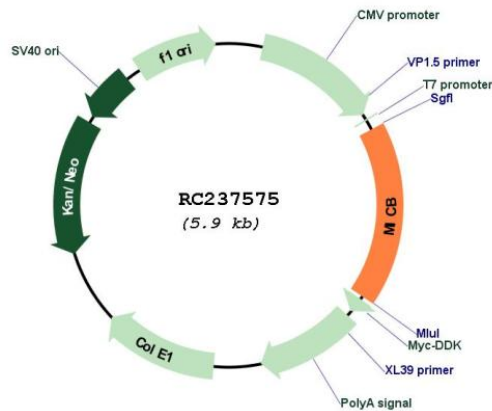
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289161

ORF Size: 1020 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).
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:	NM_001289161.2
RefSeq Size:	2396 bp
RefSeq ORF:	1023 bp
Locus ID:	4277
UniProt ID:	Q29980
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome
Protein Pathways:	Natural killer cell mediated cytotoxicity
MW:	38 kDa
Gene Summary:	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]