

## Product datasheet for TP322315M

### MICB (NM\_005931) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human MHC class I polypeptide-related sequence B (MICB), 100 µg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC222315 representing NM_005931<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)     |

MGLGRVLLFLAVAFPFAPPA AAAEPHSLRYNLMVLSQDGSVQSGFLAEGHLDGQPFLRYDRQKRRRAKPQG  
QWAEDVLGAETWDTETEDLTENGQDLRRTLTHIKDQKGGHLHSLQEIRVCEIHEDSSTRGRSRHFYDGFELF  
LSQNLETQESTVPQSSRAQTLAMNVTNFWKEDAMKTKTHYRAMQADCLQKLQRYLKSGVAIRRTVPPMVN  
VTCSEVSEGNITVTCRASSFYPRNITLWRQDGVLSHNTQQWGDVLPDNGTYQTWWATRIRQGEEQRF  
TCYMEHSGNHGTHPVPSGKALVLQSQRTDFPVSAAMPFCV VIIIILCVPCCKKKTSA AEGPELVSLQVLD  
QHPVGTGDHRDAAQLGFQPLMSATGSTGSTEGA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 42.4 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:        | <u><a href="#">NP_005922</a></u>   |
| Locus ID:      | 4277   |



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UniProt ID: [Q29980](#), [X6R344](#)

RefSeq Size: 2385

Cytogenetics: 6p21.33

RefSeq ORF: 1149

Synonyms: PERB11.2

**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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Natural killer cell mediated cytotoxicity

### Product images:



Coomassie blue staining of purified MICB protein (Cat# [TP322315]). The protein was produced from HEK293T cells transfected with MICB cDNA clone (Cat# [RC222315]) using MegaTran 2.0 (Cat# [TT210002]).