Supplementary Material

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| **Analyte** | **Test name** | **Manufacturer** | **Detection limit** |
| TNF | Human TNF alpha Uncoated ELISA Kit | Invitrogen | 3.9 - 500 pg/mL |
| IL-2 | Human IL-2 ELISA Kit | Proteintech | 15.6 - 1000 pg/mL |
| Perforin | Human Perforin ELISA KIt | ABclonal | 39 - 2500 pg/mL |
| Granzyme B | Human Granzyme ELISA Kit | ABclonal | 15.6 – 1000 pg/mL |

Supplementary Table 1. Details of the kits used for the detection of cytokines involved in cellular response in blood plasma.

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| **Gene Symbol** | **Assay ID** | **Gene Name** |
| *GAPDH* | Hs02786624\_g1 | glyceraldehyde-3-phosphate dehydrogenase |
| *RPS18* | Hs01375212\_g1 | ribosomal protein S18 |
| *FAS* | Hs00236330\_m1 | Fas cell surface death receptor |
| *FASLG* | Hs00181226\_g1 | Fas ligand |
| *CTSC* | Hs00175188\_m1 | cathepsin C |
| *CTSH* | Hs00544778\_m1 | cathepsin H |
| *NFE2L2* | Hs00975961\_g1 | NFE2 like bZIP transcription factor 2 |
| *LTA* | Hs06633590\_s1 | lymphotoxin alpha |
| *TNFSF10* | Hs00921974\_m1 | TNF superfamily member 10 |
| *CTSB* | Hs00947439\_m1 | cathepsin B |
| *GZMA* | Hs00989184\_m1 | granzyme A |

Supplementary Table 2. List of analyzed genes.