```
urthritis; anti-citrullinated protein antibody seropositivity; rheumatoid factor seropositivity measuremer
                                        diamante_T2D-European_neg
Autoimmune_Ankylosing_spondylitis_neg
MAGIC_HbAlc-EUR_neg
```

```
cardio-ukbb_CAD(negative control trait)_neg
cardio-ukbb_CAD(negative control trait)_pos
                                 Autoimmune_thyroid_Graves_disease_neg
Autoimmune_thyroid_Hashimotos_disease_neg
Autoimmune_Ankylosing_spondylitis_pos
                                                                                            Autoimmune_Celiac_neg
                                                                                                                                    MAGIC_FG-EUR_pos
```

MAGIC_FI-EUR(negative control trait)_neg Autoimmune_thyroid_Hashimotos_disease_pos Autoimmune_thyroid_Graves_disease_pos MAGIC_HDAIC-EUR_pos

Autoimmune_Inflammatory_bowel_disease_neg CD123 on plasmacytoid DC_panel_cDC_pos disease_pos childhood-bmi_3years_neg
MAGIC_FI-EUR(negative control trait)_pos CD8br_panel_TBNK_neg diamante_T2D-European_pos Autoimmune_Inflammatory_bowel_ MAGIC_FG-EUR_neg CD8 on

cell pos CD28 on CD4 Treg panel Treg pos HLA DR on monocyte panel Monocyte pos CCR7 on naive CD4+ panel_Maturation stages of T

CD45 on lymphocyte panel_TBNK_neg CD20 on memory B cell_panel_B cell_neg CD19 on memory B cell_panel_B cell_neg CD123 on plasmacytoid DC_panel_cDC_neg CD38 on IgD+ CD38dim_panel_B_cell_pos CD25 on CD24+ CD27+_panel_B cell_neg childhood-bmi_3years_pos childhood-bmi_7years_pos AFF-R on memory B_cell_panel_B_cell_po HLA DR on monocyte_panel_Monocyte_neg BAFF-R

rthritis; anti-citrullinated protein antibody seropositivity; rheumatoid factor seropositivity measuremer CD19 on memory B cell_panel_B cell_pos CD20 on memory B cell_panel_B cell_pos childhod-bmi_7years_neg cell neg cell CD4 on activated Treg panel Treg neg CD25 on CD4 Treg panel Treg neg CD38 on IgD+ CD38dim panel B cell neg AFF-R on memory B cell panel B cell neg CD28 on CD4 Treg_Panel_Treg_neg
CD25 on CD24+ CD27+ panel_B cell_pos
CD4 on activated Treg_panel_Treg_pos
CD25 on CD4 Treg_panel_Treg_pos
HVEM on CD4+ panel_Maturation stages of T ce
HVEM on CD4+ panel_Maturation stages of T ce
CD45 on lymphocyte panel_TBNK pos
CCR7 on naive CD4+ panel_Maturation stages of 1 on memory B cell_panel_B ce Autoimmune_Celiac_pos CD8 on BAFF-R

T cell_neg