```
disease pos
all rheumatoid arthritis EAS_pos
                                         childhood-bmi_3years_neg
MAGIC_HbAlc-EUR_neg
                   Autoimmune_thyroid_Hashimotos_
```

seropositivity measurement mul tis; anti-citrullinated protein antibody Seropositivity; rheumatoid factor Autoimmune thyroid Graves disease neg Autoimmune thyroid Hashimotos disease neg _disease_neg Autoimmune Ankylosing spondylitis neg MAGIC_FI-EUR(negative control trait) pos Autoimmune_Inflammatory_bowel_disease_neg MAGIC_HDAlc-EUR_pos
Autoimmune thyroid Graves_disease_pos
diamante_T2D-European_pos
MAGIC_FG-EUR_neg all rheumatoid arthritis EAS neg

trait)_neg

cardio-ukbb_CAD(negative control trait)_neg
cardio-ukbb_CAD(negative control trait)_pos

MAGIC_FI-EUR(negative control trait)_neg

MAGIC FG-EUR pos

Autoimmune_Inflammatory_bowel_disease_pos
 Autoimmune_Inflammatory_bowel_disease_pos
 diamante_T2D-European_neg
 CD25 on CD24 + CD27+ panel_B cell_pos
 CD25 on CD4 + CD27+ panel_Treg_pos
 CD25 on CD4 + Panel_Maturation stages of T cell_pos
 HVEM on CD4+ panel_Maturation stages of T cell_pos
 HLA DR on monocyte_panel_Treg_pos
 CCR7 on naive CD4+ panel_Maturation stages of T cell_pos
 CD20 on memory B cell_pos = Cll_pos
 CD20 on memory B cell_pos
 CD28 on CD4 Treg_pos
 CD23 on plasmacytoid DC_panel_TDENC_pos
 CD23 on plasmacytoid DC_panel_CDC_pos
 CD23 on plasmacytoid DC_panel_CDC_pos
 CD23 on plasmacytoid DC_panel_Treg_nos
 CD28 on CD4 Treg_panel_Treg_nos
 CD28 on CD4 Treg_panel_Treg_nos
 CD28 on CD4 Treg_panel_Treg_nos
 CD28 on CD4 Treg_panel_Treg_nos
 CD28 on CD4+ panel_Maturation stages of T cell_nos
 HVEM on CD4+ panel_Maturation stages of T cell_nos
 Autoinman antibody seropositivity; rhemmatoid factor seropositivity measurement mul

CCR7 on naive CD4+ panel Maturation stages of T cell_neg CD25 on CD24+ CD27+ panel B cell neg BAFF-R on memory B cell_panel_B cell_pos CD38 on IgD+ CD38dim_panel_B cell_pos

childhood-bmi_3years_pos childhood-bmi_7years_pos CD19 on memory B cell_panel_B cell_neg CD20 on memory B cell_panel_B cell_neg

CD8br_panel_TBNK_neg

HLA DR on monocyte_panel_Monocyte_neg CD45 on lymphocyte_panel_TBNK_neg

Autoimmune Ankylosing_spondylitis_pos Autoimmune Celiac_pos CD8 on CD8br_panel_TBNK_pos CD38 on IgD+ CD38dim_panel_B cell_neg CD123 on plasmacytoid DC_panel_CDC_neg CD4 on activated Treg_panel_Ireg_neg CD5 on CD4 Treg_panel_Treg_neg