```
Autoimmune_thyroid_Graves_disease_neg
Autoimmune_thyroid_Hashimotos_disease_neg
Autoimmune_Celiac_neg
                                                                                                                            _disease_pos
                                                                                                                                                         disease neg
                                                                                                                                                                       disease_pos
                                                                                                                                                                                                             MAGIC_FI-EUR(negative control trait)_neg
                                                       diamante_T2D-European_neg
                                                                                                                                Autoimmune_thyroid_HashimoTos
Autoimmune_Inflammatory_bowel
Autoimmune_Inflammatory_bowel
                                                                                                                                                                                              MAGIC_FG-EUR_neg
```

MAGIC_FI-EUR(negative control trait)_pos

Autoimmune_thyroid_Graves_disease_pos diamante_T2D-European_pos Autoimmune_Ankylosing_spondylitis_neg

childhood-bmi

MAGIC_HDA1c-EUR_pos

T cell neg Autoimmune Ankylosing spondylitis pos childhood-bmi_3years_neg on CD4+_panel_Maturation stages of T ce CD4 on activated Treg panel Treg pos CD4 on activated Treg panel Treg pos CD25 on CD4 Treg panel Treg pos CD4 on activated Treg panel Treg neg 7years_neg HVEM HVEM

cell_pos HLA DR on monocyte_panel_Monocyte_pos
CD8 on CD8br_panel_TBNK_neg
on CD4+_panel_Maturation stages of T cell_pos
CD19 on memory B cell_panel_B cell_pos
CD45 on lymphocyte_panel_TBNK_pos childhood-bmi_3years_pos childhood-bmi_7years_pos BAFF-R on memory B cell_panel_B cell_pos CD25 on CD24+ CD27+ panel_B cell_neg arthritis; anti-citrullinated protein antibody seropositivity; rheumatoid naive CD4+ panel Maturation stages of T CD38 on IgD+ CD38dim panel_B cell_neg CD123 on plasmacytoid DC_panel_cDC_neg CD25 on CD4 Treg_panel_Treg_neg CD20 on memory B cell_panel_B cell_pos D45 on lymphocyte panel TBNK pos CD28 on CD4 Treg panel_Treg pos CCR7 on

seropositivity measuremer

factor

CD25 on CD24+ CD27+ panel_B cell_pos CD123 on plasmacytoid DC panel_CDC pos CD19 on memory B cell_panel_B cell_neg BAFF-R on memory B cell_panel_B cell_neg Autoimmune_Celiac_pos

HLA DR on monocyte_panel_Monocyte_neg

CCR7 on naive CD4+ panel_Maturation_stages of r cell_neg irthritis; anti-citrullinated protein antibody seropositivity; rheumatoid factor seropositivity measuremen CD28 on CD4 Treg_panel_Treg_neg CD20 on memory B cell_panel_B cell_neg CD38 on IgD+ CD38dim_panel_B cell_pos CD45 on lymphocyte_panel_TBNK_neg