

Supplementary Table S2: The detailed description of the IgG glycans and traits.

Structure abbreviations: F, core fucose; A, number of antenna's; B, bisecting GlcNAc; M, number of mannose residues; Gx, number of galactoses; Sx, number of sialic acids linked to galactose; n, neutral glycans.

Glycans	Structure	Description
GP1	FA1	monoantennary glycan with core fucose
GP2	A2	biantennary glycan
GP3	-	structure not determined
GP4	FA2	monoantennary glycan with core fucose
GP5	M5	high mannose glycan
GP6	FA2B	biantennary glycan with bisecting GlcNAc and core fucose
GP7	A2G1	monogalactosylated biantennary glycan
GP8	FA2[6]G1	monogalactosylated biantennary glycan with 1-6 linkages with core fucose
GP9	FA2[3]G1	monogalactosylated biantennary glycan with 1-3 linkages with core fucose
GP10	FA2[6]BG1	monogalactosylated biantennary glycan with 1-6 linkages with bisecting GlcNAc and core fucose
GP11	FA2[3]BG1	monogalactosylated biantennary glycan with 1-3 linkages with bisecting GlcNAc and core fucose
GP12	A2G2	digalactosylated biantennary glycan
GP13	A2BG2	digalactosylated biantennary glycan with bisecting GlcNAc
GP14	FA2G2	digalactosylated biantennary glycan with core fucose
GP15	FA2BG2	digalactosylated biantennary glycan with bisecting GlcNAc and core fucose
GP16	FA2G1S1	monogalactosylated monosialylated biantennary glycan with core fucose
GP17	A2G2S1	digalactosylated monosialylated biantennary glycan
GP18	FA2G2S1	digalactosylated monosialylated biantennary glycan with core fucose
GP19	FA2BG2S1	digalactosylated monosialylated biantennary glycan with bisecting GlcNAc and core fucose
GP20	FA2FG2S1	digalactosylated monosialylated biantennary with core and antennary fucose
GP21	A2G2S2	digalactosylated disialylated biantennary glycan
GP22	A2BG2S2	digalactosylated disialylated biantennary glycan with bisecting GlcNAc
GP23	FA2G2S2	digalactosylated disialylated biantennary glycan with core fucose
GP24	FA2BG2S2	digalactosylated disialylated biantennary glycan with bisecting GlcNAc and core fucose

Traits	Description
GP1n	monoantennary glycan with core fucose structures in total neutral IgG glycans
GP2n	biantennary glycan structures in total neutral IgG glycans
GP4n	biantennary glycan with core fucose structures in total neutral IgG glycans
GP5n	high mannose glycan structures in total neutral IgG glycans
GP6n	biantennary glycan with bisecting GlcNAc and core fucose structures in total neutral IgG glycans
GP7n	monogalactosylated biantennary glycan structures in total neutral IgG glycans
GP8n	monogalactosylated biantennary glycan with 1-6 linkages structures in total neutral IgG glycans
GP9n	monogalactosylated biantennary glycan with 1-3 linkages structures in total neutral IgG glycans
GP10n	monogalactosylated biantennary glycan with 1-6 linkages with bisecting GlcNAc structures in total neutral IgG glycans
GP11n	monogalactosylated biantennary glycan with 1-3 linkages with bisecting GlcNAc structures in total neutral IgG glycans
GP12n	digalactosylated biantennary glycan structures in total neutral IgG glycans
GP13n	digalactosylated biantennary glycan with bisecting GlcNAc structures in total neutral IgG glycans
GP14n	digalactosylated biantennary glycan with core fucose structures in total neutral IgG glycans
GP15n	digalactosylated biantennary glycan with bisecting GlcNAc and core fucose in total neutral IgG glycans
nGal	Monogalactosylated and digalactosylated structures in total neutral IgG glycans
nGal_1	monogalactosylated structures in total neutral IgG glycans
nGal_2	digalactosylated structures in total neutral IgG glycans
nFuc	all fucosylated (+/- bisecting GlcNAc) structures in total neutral IgG glycans
nBis	bisecting GlcNAc structures in total neutral IgG glycans
Gal	Monogalactosylated and digalactosylated structures in total IgG glycans
Gal_1	monogalactosylated structures in total IgG glycans
Gal_2	digalactosylated structures in total IgG glycans
Fuc	all fucosylated (+/- bisecting GlcNAc) structures in total IgG glycans
Bis	bisecting GlcNAc structures in total IgG glycans
Sia	monosialylated and disialylated structures in total IgG glycans
Sia_1	monosialylated structures in total IgG glycans
Sia_2	disialylated structures in total IgG glycans