

**S6 Table: ITvar9 PfEMP1 expression by ABO genotype**

IT/R29 (ITvar9) PfEMP1 expression				
N	Genotype	Mean MFI	95% CI	p value
23	OO	3412.88	3180.61 – 3645.17	-
18	AO	3548.06	3283.57 – 3812.56	0.452
2	AA	3714.24	2869.41– 4559.07	0.487
9	BO	3325.30	2952.46– 3698.14	0.696
1	BB	3753.62	2617.84 – 4889.41	0.562
7	AB	3750.16	3317.22 – 4183.10	0.173
37	Non-O	3550.45	3372.44 – 3728.45	0.333
Percentage ITvar9 PfEMP1 expression				
N	Genotype	% pRBCs ITvar9 positive	95% CI	p value
23	OO	56.71	53.74 – 59.69	-
18	AO	54.92	51.53 – 58.31	0.437
2	AA	57.94	47.13 – 68.76	0.824
9	BO	53.40	48.62 – 58.17	0.252
1	BB	56.40	41.86 – 70.95	0.967
7	AB	55.73	50.19– 61.28	0.756
37	Non-O	54.95	52.71 – 57.18	0.361

Differences in ITvar9 PfEMP1 expression by ABO genotype in the *P. falciparum* IT/R29 rosetting parasite line were tested by multivariate regression analysis with adjustment for confounding by HbAS and  $\alpha$ \*thalassemia (including interaction between HbAS and  $\alpha$ \*thalassemia). 60 RBC donor samples were tested once in duplicate over two successive experimental days (day 1 n = 30 and day 2 n = 30), therefore, experimental day was included as a co-variate to account for day-to-day variation.