

Supplemental table 9. INGENIAHS results from previously reported SNPs associated with platelet function phenotypes.

GENE	Reference	Reported SNP	Functional Trait †	SNP in our assay (D')	Genotype ‡	INGENIAHS Functional Traits (Mean ± St Dev)							
						Platelet Aggregation (%)				Platelet Secretion (%)			
						1 mM Arachidonic Acid	10 µM Epinephrine	4 µM ADP	1 µg/mL Collagen	1 mM Arachidonic Acid	10 µM Epinephrine	4 µM ADP	1 µg/mL Collagen
FCER1G	(1)	rs3557	PC/FC	rs11587213 (0.87)	-/-	79.3±5.5	67.2±21.5	71.5±12.7	78.1±4.7	37.7±8.5	33.8±14.9	30.9±9.0	38.3±7.1
					-/+	81.6±6.6	70.1±20.5	74.9±8.4	77.3±6.1	35.1±5.8	32.1±10.7	31.4±7.2	36.7±5.2
					+/+								
RAF1	(1)	rs3729931	FA/PC/FC	rs5746154 (1)	-/-	79.6±5.3	70.3±17.6	73.7±8.6	77.7±5.1	36.5±6.0	35.6±11.9	32.3±6.4	38.2±6.7
					-/+	79.9±5.1	65.6±23.2	71.1±14.9	78.3±6.0	36.0±3.3	31.1±15.0	31.3±9.1	37.2±6.7
					+/+	80.4±5.8	54.6±36.5	69.6±18.4	77.6±4.4	44.4±22.2	17.2±15.7	24.6±12.3	36.6±7.2
JAK2	(1)	rs10429491	PA/FA	rs1328917 (0.82)	-/-	80.7±6.3	65.7±25.6	70.2±15.6	77.7±4.6	35.7±3.4	28.6±12.0	27.9±8.6*	34.3±4.7
					-/+	78.2±4.0	65.5±21.4	71.8±10.1	75.1±8.2	36.8±9.8	32.4±14.7	30.4±8.4	37.7±6.6
					+/+	82.3±4.2	75.2±8.0	77.6±6.7	77.7±5.7	38.2±6.2	41.3±9.3	36.1±5.7	41.7±6.7
GNAZ	(1)	rs3788337	PA	rs3788337	-/-	79.3±7.0	65.8±22.2	75.7±5.6	77.0±3.5	36.6±3.7	31.0±13.8	33.6±4.1	37.9±6.6
					-/+	79.8±4.9	68.3±20.4	70.3±12.3	77.3±5.7	37.7±10.0	34.4±14.3	29.8±9.1	38.4±6.9
					+/+	79.8±5.0	67.2±22.1	74.1±11.8	78.8±4.6	35.4±3.0	32.2±13.0	31.8±8.2	36.4±6.2
VAV3	(1)	rs17229705	PA/FA/PC	rs8676 (0.93)	-/-	80.2±4.7	74.3±7.2	73.5±9.2	78.1±4.6	39.1±6.4	39.1±9.9	31.6±8.7	39.4±6.1
					-/+	80.1±5.4	66.7±21.8	73.2±11.6	77.9±5.5	36.4±8.9	32.6±13.5	31.1±8.6	37.3±6.9
					+/+	79.4±5.7	68.5±23.2	72.5±8.8	78.9±3.7	37.4±6.0	32.0±16.0	31.9±6.6	38.5±7.0
CD36	(1)	rs1049654	PC/FC	rs1527479 (1)	-/-	81.2±5.7	64.7±25.2	72.1±14.2	77.8±6.3	39.5±11.6	33.0±17.0	30.2±10.5	39.0±7.0
					-/+	79.2±5.1	71.3±15.4	73.2±10.6	78.6±4.3	35.4±3.2	32.2±8.1	31.4±7.8	36.5±6.2
					+/+	79.6±4.4	65.6±25.1	70.7±10.1	78.0±4.7	36.7±5.5	33.7±17.4	30.7±6.25	37.8±6.2
MAP2K2	(1)	rs350916	FA	rs350916	-/-	78.6±5.6	57.7±29.8	68.8±16.7	79.4±5.1	33.8±2.3	26.0±15.3	29.1±10.4	35.8±5.4
					-/+	80.1±5.5	68.3±20.7	72.7±10.8	77.6±4.9	37.4±6.3	33.9±14.7	31.1±8.4	37.6±6.3
					+/+	79.6±4.8	71.4±17.1	72.5±10.6	77.5±5.6	37.3±11.0	35.2±12.0	31.3±8.0	39.3±7.4
GP6	(1)	rs1613662	PA/PC/FC	rs1613662	-/-	79.5±5.1	66.8±21.8	72.1±11.7	77.7±5.3	37.1±7.6	32.6±14.0	30.7±8.6	37.5±6.5
					-/+	82.1±5.4	77.5±6.3	74.0±9.9	79.6±3.8	37.1±6.8	36.0±10.6	33.1±5.7	39.0±7.9
					+/+								
PFKL	(2)	rs2838551	FA	rs2838551	-/-	78.5±4.6	63.6±25.8	73.6±9.7	77.5±4.0	34.7±1.8	27.2±14.2	29.0±8.1	35.3±4.0
					-/+	80.5±5.6	71.1±17.5	72.3±11.4	78.6±4.6	37.7±8.6	34.7±12.2	31.1±7.3	37.3±6.3
					+/+	78.7±4.0	60.1±26.9	68.2±14.2	76.1±7.3	39.0±7.4	34.4±18.7	31.5±12.5	42.8±8.6
LRRFIP1	(2)	rs3213869	FA	rs3213869	-/-	79.7±5.2	67.7±20.9	72.2±11.5	77.8±5.2	36.9±7.8	33.0±13.7	31.0±8.4	37.8±6.6
					-/+	80.3±4.2	79.0±2.6	78.7±5.1	78.7±2.5	35±2.6	34.7±9.8	33.3±1.2	34.0±4.6
					+/+								
COMMD7	(2)	rs6141803	PA	rs6057638 (1)	-/-	79.8±5.2	68.6±18.9	73.4±10.2	77.9±5.2	37.5±8.1	33.9±13.3	31.9±7.8*	38.5±6.5
					-/+	79.3±5.0	66.0±29.0	67.5±16.1	77.5±5.1	33.4±2.8	28.3±14.2	26.6±9.5	33.1±4.6
					+/+								
PEAR1	(3)	rs12566888	3 µM ADP-LTA	rs12119908 (0.854)	-/-	79.7±5.3	63.9±23.0	71.5±12.3	77.4±5.5	37.5±8.4	31.6±15.3	30.8±8.8	37.3±6.3
					-/+	80.0±5.2	76.2±13.6	73.1±10.1	79.3±4.3	36.9±5.2	36.4±9.7	31.4±7.6	39.1±7.0
					+/+	76.5±2.1	74.5±0.7	74.0±0.0	76.0±0.0	30.5±2.1	34.0±1.4	28.5±7.8	29.0±5.7
SHH	(3)	rs2363910	3 µM ADP-LTA	rs10261526 (0.87)	-/-	80.2±6.1	67.7±22.0	73.4±11.6	77.3±6.2	36.5±5.6	34.3±13.6	30.8±8.2	37.6±7.3
					-/+	79.6±4.8	68.8±20.0	71.5±12.2	78.6±4.3	37.9±9.2	33.3±13.7	31.0±9.3	38.1±6.3
					+/+	79.7±3.5	63.1±25.3	72.3±10.5	77.9±5.3	34.3±0.8	23.9±10.9	31.2±4.4	35.1±3.6
JMJD1C	(3)	rs10761741	Epinephrine-LTA	rs7923609 (1)	-/-	79.1±4.6	65.5±21.6	69.0±12.2*	77.0±5.6	37.1±5.9	34.6±14.9	29.5±9.4	38.7±8.1
					-/+	79.7±5.6	66.1±23.5	74.4±11.2	78.5±5.4	37.3±10.2	31.0±14.6	32.4±7.3	37.4±6.0
					+/+	81.2±3.6	75.1±3.5	77.6±4.6	77.7±3.9	36.7±2.7	36.2±9.4	32.3±4.9	37.1±5.1

(1) Reviewed in Kunicki TJ, Nugent DJ. The genetics of normal platelet reactivity. Blood 2010;116:2627-2634.

(2) Goodall AH, Burns P, Salles I et al. Transcription profiling in human platelets reveals LRRFIP1 as a novel protein regulating platelet function. Blood 2010;116:4646-4656.

(3) Johnson AD, Yanek LR, Chen MH et al. Genome-wide meta-analyses identifies seven loci associated with platelet aggregation in response to agonists. Nat.Genet. 2010;42:608-613.

† Functional trait: D' indicates linkage disequilibrium; PC indicates P-selectin expression in response to CRP-XL; FC, fibrinogen binding in response to CRP-XL; FA, fibrinogen binding in response to ADP; PA, P-selectin expression in response to ADP; LTA, Light Transmission Aggregation.

‡ Genotype: -/- indicates homozygous for the major allele; -/+, heterozygous; +/+, homozygous for the minor allele.

Bold numbers in italics indicate a tendency between functional trait and genotype.

* indicates p<0.05 when comparing -/- versus carrier of the minor allele.