

Novel loci involved in platelet function and platelet count identified by a genome-wide study performed in children

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Online Supplementary Table S1. SNP in linkage disequilibrium with rs4366150 (LPAR1).

| rs | Distance (bp) | r ² | D' |
|------------------|---------------|----------------|----|
| rs10980635 | 51409 | 0.845 | 1 |
| rs2418119 | 42175 | 0.816 | 1 |
| rs4978970 | 41607 | 0.805 | 1 |
| rs4246884 | 42083 | 0.805 | 1 |
| rs12378769 | 42965 | 0.805 | 1 |
| rs4538964 | 44097 | 0.805 | 1 |
| rs4978969 | 45139 | 0.805 | 1 |
| rs2254845 | 49657 | 0.805 | 1 |
| rs2766994 | 53060 | 0.805 | 1 |
| rs10980653 | 30052 | 0.967 | 1 |
| rs13298141 | 11227 | 0.819 | 1 |
| rs10817125 | 12853 | 0.819 | 1 |
| rs12345727 | 25262 | 0.816 | 1 |
| rs10980669 | 86 | 0.805 | 1 |
| rs7021116 | 8777 | 0.805 | 1 |
| rs971055 | 9747 | 0.805 | 1 |
| rs10980663 | 14259 | 0.805 | 1 |
| rs4623512 | 14913 | 0.805 | 1 |
| rs2192590 | 1523 | 0.819 | 1 |

SNP in bold are present in the *INGENIAHS*

Online Supplementary Table S2. rs43366150 (*LPAR1*) and platelet function tests from the GWAS and the validation assay.

| | Genotype frequency | Light-Transmission Aggregation (%) | | | | | | | Bleeding Time(ratio) | Platelet count (x 10 ⁹ /L) | |
|------------------|--------------------|------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | 1.2 mg/mL Ristocetin | | | |
| GWAS | AA | 0.515 | 77.03±4.6 | 62.46±23.44 | 69.08±12.86 | 74.05±8.78 | 76.21±5.47 | 77.79±5.18 | 76.69±9.63 | 0.70±0.23 | 288.62±61.61 |
| | AG | 0.424 | 81.18±4.29 | 76.57±10.42 | 75.43±8.06 | 77.79±5.82 | 79.43±3.93 | 80.04±4.34 | 80.75±5.20 | 0.67±0.28 | 307.29±54.96 |
| | GG | 0.061 | 89.50±5.07 | 73.50±8.58 | 81.50±4.20 | 82.75±8.06 | 81.75±1.71 | 84.25±2.99 | 86.75±8.06 | 0.73±0.19 | 291.75±35.98 |
| | P* | | 4.93 x 10⁻⁶ | 5.83 x 10⁻³ | 5.56 x 10⁻³ | 1.35 x 10⁻² | 1.27 x 10⁻³ | 9.05 x 10⁻³ | 2.79 x 10⁻³ | 0.54 | 0.23 |
| Validation Study | AA | 0.456 | 79.32±10.00 | 61.83±23.91 | 71.84±13.97 | 76.68±9.15 | 77.25±6.25 | 80.25±5.75 | 78.71±8.24 | 0.71±0.25 | 280.72±70.72 |
| | AG | 0.483 | 79.71±5.38 | 67.29±19.43 | 73.44±11.77 | 77.69±7.08 | 78.75±5.04 | 79.66±5.02 | 78.61±8.68 | 0.70±0.22 | 277.82±56.71 |
| | GG | 0.061 | 82.38±5.86 | 69.75±18.3 | 75.81±13.03 | 78.81±6.02 | 80.31±4.42 | 80.44±4.69 | 80.44±7.56 | 0.76±0.34 | 283.63±42.77 |
| | P** | | 0.607 | 0.036 | 0.323 | 0.308 | 0.052 | 0.439 | 0.953 | 0.972 | 0.876 |
| | | | Secretion (%) | | | | | Platelet Nucleotides (μM) | | | Platelet serotonin (ng/10 ⁸ platelets) |
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | ATP+ADP | ATP | ADP | |
| GWAS | AA | 36.95±9.56 | 31.54±14.97 | 30.26±8.32 | 33.36±7.3 | 37.13±7.27 | 42.15±12.49 | 6.8±1.68 | 3.95±1.00 | 2.85±0.86 | 625.69±213.94 |
| | AG | 36.43±4.61 | 35.29±10.89 | 31.37±8.33 | 33.75±7.28 | 38.18±5.85 | 43.00±8.62 | 6.74±1.61 | 3.78±0.90 | 2.95±0.97 | 665.23±209.84 |
| | GG | 38.25±1.89 | 32.25±3.30 | 34.50±3.70 | 35.00±3.92 | 36.25±2.22 | 38.00±2.83 | 6.35±0.84 | 3.77±0.74 | 2.58±0.11 | 561.31±86.02 |
| | P* | 0.99 | 0.34 | 0.34 | 0.66 | 0.51 | 0.78 | 0.99 | 0.76 | 0.75 | 0.62 |
| Validation Study | AA | 35.52±8.85 | 32.12±16.61 | 31.09±10.9 | 34.31±9.19 | 37.6±8.76 | 43.56±11.49 | 6.69±1.43 | 3.8±0.86 | 2.89±0.84 | 641.92±204.05 |
| | AG | 36.98±8.48 | 36.66±13.81 | 32.98±9.86 | 35.81±8.71 | 39.39±8.28 | 44.87±10.12 | 6.66±1.54 | 3.85±0.95 | 2.81±0.91 | 664.13±211.38 |
| | GG | 36.81±5.15 | 34.63±12.35 | 33.81±7.36 | 35.94±3.99 | 40.56±7.38 | 43.25±8.41 | 6.82±1.31 | 4.14±0.88 | 2.68±0.83 | 584.72±191.11 |
| | P** | 0.038 | 0.018 | 0.112 | 0.195 | 0.012 | 0.194 | 0.845 | 0.373 | 0.557 | 0.544 |

* P value obtained from the statistical analyses performed in the GWAS. ** P value from the statistical analyses performed in the replication study when comparing values of non-polymorphic homozygous subjects with those of carriers of the polymorphic allele.

Online Supplementary Table S3. rs933880 (*BTBD11*) and platelet function tests from the GWAS and the validation assay.

| | Genotype frequency | Light-Transmission Aggregation (%) | | | | | | | Bleeding Time(ratio) | Platelet count (x 10 ⁹ /L) | |
|------------------|--------------------|------------------------------------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|-------------------------------|----------------------|---------------------------------------|---|
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | 1.2 mg/mL Ristocetin | | | |
| GWAS | AA | 0.174 | 82.44±3.88 | 76.89±5.71 | 77.44±7.62 | 81.22±5.56 | 82.56±3.91 | 80.78±3.38 | 79.00±6.08 | 0.80±0.25 | 305.44±56.97 |
| | AG | 0.594 | 79.67±5.28 | 69.02±19.03 | 72.74±10.88 | 75.53±8.10 | 78.21±4.33 | 79.93±4.86 | 79.26±8.64 | 0.63±0.16 | 297.09±62.58 |
| | GG | 0.232 | 76.38±4.50 | 58.38±26.94 | 70.00±12.09 | 72.81±11.11 | 73.38±4.92 | 76.19±5.10 | 75.50±8.46 | 0.82±0.37 | 295.88±53.32 |
| | P* | | 1.81 x 10⁻³ | 1.05 x 10⁻³ | 0.19 | 3.06 x 10⁻² | 1.00 x 10⁻⁵ | 8.67 x 10⁻³ | 0.13 | 0.27 | 0.72 |
| Validation Study | AA | 0.257 | 79.63±5.18 | 65.81±20.28 | 69.66±13.91 | 76.47±9.18 | 76.88±5.06 | 79.47±5.33 | 79.30±7.16 | 0.71±0.22 | 283.18±66.49 |
| | AG | 0.536 | 79.70±9.62 | 67.67±19.75 | 74.46±12.68 | 77.48±7.82 | 79.06±6.01 | 80.08±5.30 | 78.71±9.00 | 0.71±0.23 | 281.17±63.82 |
| | GG | 0.208 | 79.78±5.51 | 57.91±26.03 | 72.31±13.30 | 77.13±8.77 | 78.11±6.18 | 79.78±6.18 | 79.20±7.73 | 0.69±0.30 | 271.78±57.43 |
| | P** | | 0.483 | 0.999 | 0.013 | 0.445 | 0.020 | 0.495 | 0.913 | 0.544 | 0.609 |
| | | | Secretion (%) | | | | | Platelet Nucleotides (μM) | | | Platelet serotonin (ng/10 ⁸ platelets) |
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | ATP+ADP | ATP | ADP | |
| GWAS | AA | 37.56±6.21 | 41.78±10.32 | 34.78±3.38 | 36.11±4.11 | 41.22±6.82 | 47.33±8.87 | 6.40±1.17 | 3.76±0.90 | 2.64±0.53 | 574.11±179.59 |
| | AG | 37.53±8.93 | 31.70±12.31 | 30.52±8.46 | 33.09±7.95 | 36.93±6.15 | 41.88±10.61 | 6.66±1.64 | 3.81±0.96 | 2.85±0.93 | 633.66±227.23 |
| | GG | 33.94±2.49 | 30.00±16.02 | 30.63±6.77 | 33.63±6.52 | 36.13±6.50 | 41.44±12.15 | 6.77±1.12 | 3.96±0.74 | 2.80±0.60 | 621.02±127.44 |
| | P* | 0.27 | 0.07 | 0.60 | 0.64 | 0.10 | 0.21 | 0.89 | 0.68 | 0.82 | 0.86 |
| Validation Study | AA | 36.71±7.95 | 33.97±14.83 | 30.16±11.24 | 33.74±9.06 | 37.87±7.95 | 43.78±9.71 | 6.56±1.54 | 3.80±1.00 | 2.76±0.88 | 645.19±219.61 |
| | AG | 35.98±9.13 | 36.08±14.31 | 33.05±10.16 | 35.61±9.33 | 39.01±8.95 | 44.51±11.24 | 6.68±1.56 | 3.84±0.93 | 2.84±0.92 | 647.98±201.64 |
| | GG | 35.98±7.74 | 29.56±16.59 | 31.71±9.20 | 34.82±6.61 | 37.82±7.95 | 42.24±10.45 | 7.18±1.22 | 4.13±0.85 | 3.05±0.77 | 674.55±219.15 |
| | P** | 0.624 | 0.609 | 0.140 | 0.282 | 0.592 | 0.800 | 0.529 | 0.204 | 0.790 | 0.735 |

* P value obtained from the statistical analyses performed in the GWAS. ** P value from the statistical analyses performed in the replication study when comparing values of non-polymorphic homozygous subjects with those of carriers of the polymorphic allele.

Online Supplementary Table S4. SNP in linkage disequilibrium with rs1787566 (MYO5B).

| rs | Distance (bp) | r ² | D' |
|-----------------|---------------|----------------|----|
| rs565517 | 3184 | 1 | 1 |
| rs487480 | 4461 | 1 | 1 |
| rs645644 | 5614 | 1 | 1 |
| rs533846 | 8662 | 1 | 1 |
| rs680052 | 12063 | 1 | 1 |
| rs1612142 | 13772 | 1 | 1 |
| rs1787302 | 28678 | 1 | 1 |
| rs582210 | 8617 | 0.941 | 1 |
| rs488042 | 22451 | 0.941 | 1 |
| rs546341 | 30650 | 0.941 | 1 |
| rs490697 | 32075 | 0.941 | 1 |
| rs632263 | 47955 | 0.941 | 1 |
| rs657424 | 5923 | 0.887 | 1 |
| rs667415 | 53368 | 0.887 | 1 |

SNP in bold are present in the INGENIAHS

Online Supplementary Table S5. rs1787566 (MYO5B) and platelet function tests from the GWAS and the validation assay.

| | Genotype frequency | Light-Transmission Aggregation (%) | | | | | | | Bleeding Time(ratio) | Platelet count (x 10 ⁹ /L) | |
|------------------|--------------------|------------------------------------|-------------------------------|-------------|-------------|-------------------------------|-------------------------------|-------------------------------|----------------------|---------------------------------------|---|
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | 1.2 mg/mL Ristocetin | | | |
| GWAS | AA | 0.753 | 77.96±4.44 | 66.91±20.77 | 71.76±10.90 | 75.30±7.06 | 76.89±5.09 | 77.61±4.32 | 78.48±7.60 | 0.69±0.25 | 291.26±62.31 |
| | AG | 0.222 | 83.19±6.22 | 69.19±22.71 | 71.19±16.51 | 76.06±13.25 | 79.50±5.10 | 82.63±4.85 | 79.13±11.2 | 0.68±0.24 | 317.00±46.78 |
| | GG | 0.025 | 86.5±3.54 | 77.00±0.00 | 79.50±0.71 | 75.00±8.49 | 82.50±3.54 | 87.00±2.83 | 81.50±6.36 | 0.64±0.10 | 280.50±19.09 |
| | P* | | 2.26 x 10⁻⁵ | 0.49 | 0.91 | 0.94 | 3.66 x 10⁻² | 2.98 x 10⁻⁵ | 0.52 | 0.36 | 0.46 |
| Validation Study | AA | 0.836 | 79.47±7.38 | 64.68±21.22 | 72.84±12.82 | 77.02±8.00 | 78.06±6.00 | 79.37±5.57 | 78.81±7.94 | 0.72±0.25 | 278.71±63.91 |
| | AG | 0.150 | 80.17±9.33 | 64.83±25.66 | 71.44±14.79 | 77.15±10.48 | 78.95±5.20 | 80.98±5.32 | 79.61±8.96 | 0.66±0.19 | 285.56±57.14 |
| | GG | 0.015 | 82.50±5.80 | 64.75±21.91 | 77.00±4.69 | 74.75±5.32 | 79.25±5.38 | 83.50±5.00 | 83.25±4.27 | 0.64±0.06 | 297.00±39.72 |
| | P** | | 0.179 | 0.153 | 0.898 | 0.955 | 0.339 | 0.043 | 0.253 | 0.242 | 0.381 |
| | | Secretion (%) | | | | | | Platelet Nucleotides (μM) | | | Platelet serotonin (ng/10 ⁸ platelets) |
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | ATP+ADP | ATP | ADP | |
| GWAS | AA | 35.56±4.70 | 32.57±13.34 | 31.25±5.92 | 33.74±4.65 | 36.59±5.62 | 40.50±8.92 | 6.84±1.50 | 3.96±0.91 | 2.88±0.81 | 633.33±192.32 |
| | AG | 39.38±12.40 | 31.44±14.05 | 28.44±13.57 | 32.50±12.30 | 39.38±7.99 | 47.19±13.80 | 6.46±1.44 | 3.65±0.92 | 2.81±0.75 | 657.48±249.40 |
| | GG | 46.50±9.19 | 45.00±11.31 | 37.00±2.83 | 37.00±2.83 | 46.00±7.07 | 52.00±5.66 | 7.99±4.89 | 4.26±2.08 | 3.73±2.81 | 542.10±139.87 |
| | P* | 4.60 x 10⁻³ | 0.39 | 0.64 | 0.99 | 6.05 x 10⁻² | 5.21 x 10⁻² | 0.95 | 0.64 | 0.51 | 0.59 |
| Validation Study | AA | 36.17±8.60 | 34.05±14.68 | 32.13±9.84 | 35.04±8.11 | 38.62±8.40 | 43.84±10.49 | 6.65±1.36 | 3.86±0.90 | 2.80±0.81 | 650.80±210.15 |
| | AG | 36.02±10.25 | 30.93±16.42 | 29.76±12.28 | 33.24±10.84 | 36.22±8.05 | 42.12±11.43 | 6.67±1.52 | 3.75±0.93 | 2.92±0.88 | 664.30±201.51 |
| | GG | 44.50±7.33 | 40.00±18.51 | 35.75±3.59 | 35.50±3.42 | 45.00±7.12 | 42.75±11.24 | 8.81±3.86 | 4.64±1.88 | 4.17±2.01 | 605.55±195.68 |
| | P** | 0.560 | 0.804 | 0.953 | 0.714 | 0.613 | 0.402 | 0.463 | 0.922 | 0.094 | 0.805 |

* P value obtained from the statistical analyses performed in the GWAS. ** P value from the statistical analyses performed in the replication study when comparing values of non-polymorphic homozygous subjects with those of carriers of the polymorphic allele.

Online Supplementary Table S6. SNPs in linkage disequilibrium with rs1937970 (NRG3).

| rs | Distance (bp) | r ² | D' |
|------------|---------------|----------------|-------|
| rs1937971 | 3398 | 1 | 1 |
| rs7071226 | 4517 | 0.959 | 1 |
| rs1937968 | 1186 | 0.92 | 1 |
| rs11194450 | 2106 | 0.92 | 1 |
| rs11194491 | 2221 | 0.92 | 1 |
| rs17100087 | 10215 | 0.92 | 1 |
| rs7074306 | 12500 | 0.92 | 1 |
| rs6584738 | 12686 | 0.92 | 1 |
| rs12241819 | 8465 | 0.881 | 1 |
| rs6584739 | 9065 | 0.881 | 1 |
| rs7918226 | 5737 | 0.843 | 1 |
| rs1937969 | 22 | 0.806 | 1 |
| rs17100097 | 4802 | 0.806 | 1 |
| rs7903778 | 6205 | 0.803 | 0.914 |

Online Supplementary Table S7. rs1937970(NRG3) and platelet function tests from the GWAS and the validation assay.

| | | Genotype frequency | Light-Transmission Aggregation (%) | | | | | | | Bleeding Time(ratio) | Platelet count (x 10 ⁹ / L) | |
|------------------|-----|-----------------------|------------------------------------|-------------------|-------------|-------------------------------|------------------|-------------------------------|-------------------------------|-------------------------------|--|---|
| | | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | 1.2 mg/mL Ristocetin | | | |
| GWAS | AA | 0.220 | 79.27±4.46 | 64.60±27.34 | 71.07±15.36 | 74.27±12.48 | 77.33±5.51 | 79.60±4.55 | 79.07±5.48 | 0.67±0.16 | 347.27±45.17 | |
| | AG | 0.530 | 78.91±4.76 | 66.91±20.50 | 72.43±9.79 | 75.89±6.48 | 78.09±4.56 | 79.03±4.48 | 78.00±9.81 | 0.69±0.29 | 289.26±56.62 | |
| | GG | 0.250 | 81.00±6.08 | 71.88±14.80 | 72.06±11.90 | 75.50±9.80 | 77.88±6.16 | 79.94±5.65 | 81.06±7.69 | 0.68±0.17 | 260.94±46.14 | |
| | P* | | 0.82 | 0.47 | 0.96 | 0.84 | 0.90 | 0.68 | 0.64 | 0.52 | 3.55 x 10⁻⁵ | |
| Validation Study | AA | 0.322 | 79.57±7.37 | 61.87±25.07 | 72.46±14.67 | 78.24±9.14 | 78.18±6.89 | 80.37±6.14 | 80.79±8.43 | 0.72±0.25 | 286.60±65.98 | |
| | AG | 0.467 | 80.68±4.83 | 64.12±22.66 | 72.96±11.71 | 77.74±7.22 | 78.22±5.21 | 80.23±4.82 | 80.16±8.08 | 0.78±0.35 | 272.35±66.12 | |
| | GG | 0.211 | 80.09±10.44 | 63.13±23.91 | 73.88±13.65 | 78.01±7.82 | 78.82±6.57 | 80.18±5.32 | 81.20±9.33 | 0.72±0.24 | 267.60±54.40 | |
| | P** | | 0.188 | 0.359 | 0.410 | 0.762 | 0.728 | 0.745 | 0.661 | 0.138 | 0.024 | |
| | | Secretion (%) | | | | | | | Platelet Nucleotides (μM) | | | Platelet serotonin (ng/10 ⁸ platelets) |
| | | 1 mM Arachidonic Acid | 10 μM Epinephrine | 4 μM ADP | 8 μM ADP | 1 μg/mL Collagen | 2 μg/mL Collagen | ATP+ADP | ATP | ADP | | |
| GWAS | AA | 36.40±4.98 | 29.27±15.43 | 29.53±6.10 | 33.13±4.85 | 35.47±6.55 | 39.53±9.33 | 5.71±1.30 | 3.32±0.86 | 2.40±0.57 | 608.97±148.56 | |
| | AG | 36.26±9.46 | 32.17±13.74 | 31.38±8.61 | 33.57±7.71 | 37.26±6.74 | 43.37±12.43 | 7.07±1.52 | 4.12±0.96 | 2.95±0.84 | 623.40±211.54 | |
| | GG | 39.00±5.98 | 39.00±11.27 | 30.63±9.95 | 33.94±8.89 | 41.00±5.50 | 45.06±7.60 | 7.35±1.61 | 4.05±0.72 | 3.30±1.02 | 640.56±227.37 | |
| | P* | 0.36 | 3.33 x 10⁻² | 0.75 | 0.73 | 2.36 x 10⁻² | 0.23 | 7.16 x 10⁻³ | 6.11 x 10⁻² | 5.86 x 10⁻² | 0.87 | |
| Validation Study | AA | 36.22±8.41 | 32.36±15.01 | 31.99±10.48 | 35.10±9.05 | 37.95±9.20 | 43.24±10.48 | 6.61±1.75 | 3.85±1.06 | 2.75±0.98 | 620.19±200.44 | |
| | AG | 39.08±12.2 | 34.89±16.99 | 33.69±13.14 | 36.19±9.43 | 39.52±8.72 | 45.07±11.07 | 6.87±1.89 | 4.06±1.27 | 2.80±1.01 | 612.91±216.94 | |
| | GG | 37.65±9.21 | 33.88±16.61 | 32.07±11.67 | 36.83±12.04 | 39.95±8.87 | 45.71±10.77 | 7.04±2.16 | 4.00±1.13 | 3.04±1.28 | 621.26±201.37 | |
| | P** | 0.024 | 0.184 | 0.262 | 0.173 | 0.065 | 0.084 | 0.280 | 0.247 | 0.518 | 0.751 | |

* P value obtained from the statistical analyses performed in the GWAS. ** P value from the statistical analyses performed in the replication study when comparing values of non-polymorphic homozygous subjects with those of carriers of the polymorphic allele.

Online Supplementary Table S8. INGENIAHS results for SNP previously reported to be associated with hemostatic traits.

| GENE | Reported SNP | SNP in our assay (D') * | FXII (%) | | | p-value† (-/- vs carrier) |
|------------|--------------------------|-------------------------|------------|------------|-----------|------------------------------|
| | | | -/- | +/- | +/+ | |
| F12 | rs1801020 ⁽¹⁾ | rs2731672 (0.968) | 111.1±19.9 | 87.5±16.4 | 55.5±16.6 | 1.065x10 ⁻⁶ |
| | | | FVIII (%) | | | |
| GENE | Reported SNP | SNP in our assay | -/- | +/- | +/+ | |
| ABO | rs8176746 ⁽²⁾ | rs8176746 | 86.1±23.6 | 107.9±16.5 | | 0.0096 |
| | | | FVII (%) | | | |
| GENE | Reported SNP | SNP in our assay | -/- | +/- | +/+ | |
| F7 | rs488703 ⁽³⁾ | rs488703 | 87.9±15.3 | 77.2±11.1 | 64.0±0.0 | 0.0068 |

(*) D' from linkage disequilibrium analysis according to the Hapmap database between the reported SNP and the SNP in our assay. † P value from a student's t-test comparing homozygous subjects for the common allele (-/-) versus carriers of the minor allele (carrier). 1. Endler G, Exner M, Mannhalter C et al. A common C->T polymorphism at nt 46 in the promoter region of coagulation factor XII is associated with decreased factor XII activity. *Thromb. Res.* 2001;101:255-260. 2. Smith NL, Chen MH, Dehghan A et al. Novel associations of multiple genetic loci with plasma levels of factor VII, factor VIII, and von Willebrand factor: The CHARGE (Cohorts for Heart and Aging Research in Genome Epidemiology) Consortium. *Circulation* 2010;121:1382-1392. 3. Ken-Dror G, Drenos F, Humphries SE et al. Haplotype and genotype effects of the F7 gene on circulating factor VII, coagulation activation markers and incident coronary heart disease in UK men. *J. Thromb. Haemost.* 2010;8:2394-2403.

Online Supplementary Table S9. INGENIAHS results for SNP previously reported to be associated with platelet function phenotypes. (SEE EXCEL FILE)

Online Supplementary Table S10. INGENIAHS results from previously reported SNP associated with platelet count.

| GENE | Reported SNP ⁽¹⁾ | SNP in our assay (D')* | Platelet count (10 ⁹ /L) | | | p-value† (-/- vs carrier) |
|---------------|-----------------------------|------------------------|-------------------------------------|------------|------------|------------------------------|
| | | | -/- | +/- | +/+ | |
| SH2B3 | rs3184504 | rs3184504 | 293.6±65.7 | 301.6±51.4 | 257.2±4.2 | 0.70453 |
| PTPN11 | rs11066301 | rs11066320 (1) | 292.3±64.3 | 304.4±52.5 | 260 | 0.46141 |
| - | rs342293 | rs342296 (1) | 298.9±62.4 | 302.2±54.8 | 275.9±64.0 | 0.62827 |
| AK3 | rs385893 | rs385893 | 294.5±80.1 | 289.7±48.5 | 305.9±39.4 | 0.37992 |

(*) D' from linkage disequilibrium analysis according to the Hapmap database between the reported SNP and the SNP in our assay. † P value from a t-student test comparing homozygous subjects for the common allele (-/-) versus carriers of the minor allele (carrier). 4. Kunicki TJ, Nugent DJ. The genetics of normal platelet reactivity. *Blood.* 2010;116:2627-2634.