SUPPLEMENTAL FIGURES

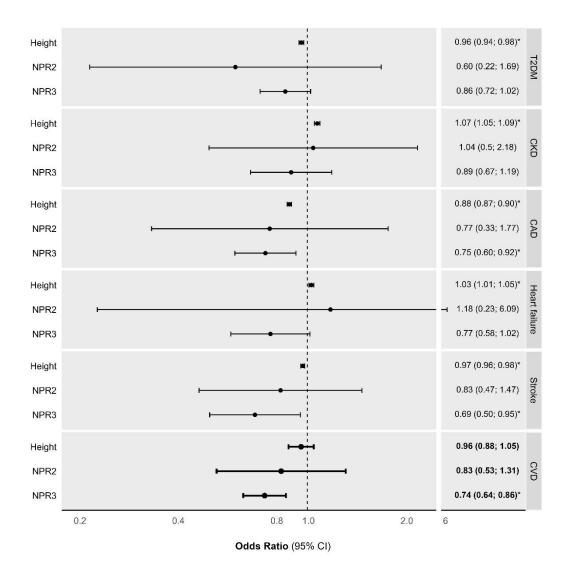


Figure S1. Mendelian randomization estimates of genome-wide, NPR3-, and NPR2-predicted height on T2DM, CKD, and CVD risk.

Effect estimates are scaled per standard deviation increased height (~9.2cm). * denotes p<.05. CAD: coronary artery disease, CI: confidence interval, CKD: chronic kidney disease, CVD: cardiovascular disease (reflects a pooled CAD, heart failure and stroke estimate), NPR2: natriuretic peptide receptor 2, NPR3: natriuretic peptide receptor 3, T2DM: type-2 diabetes mellitus.

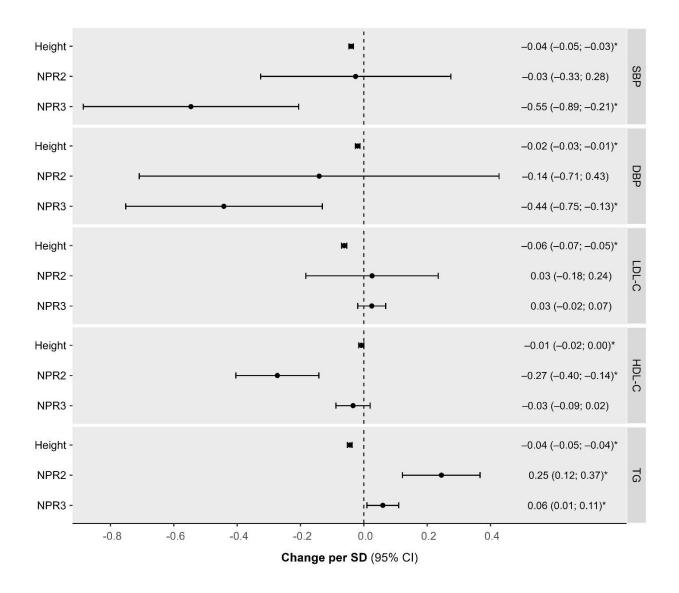


Figure S2. Mendelian randomization estimates of genome-wide, NPR3, and NPR2 predicted height on blood pressure and blood lipid traits.

Effect estimates are interpreted as standard deviation (SD) unit difference per 1-SD higher height (~9.2cm). * denotes p<.05. CI: confidence interval, DBP: diastolic blood pressure, HDL-C: high-density lipoprotein cholesterol, LDL-C: low-density lipoprotein cholesterol, NPR2: natriuretic peptide receptor 2, NPR3: natriuretic peptide receptor 3, SBP: systolic blood pressure, SD: standard deviation, TG: triglycerides.

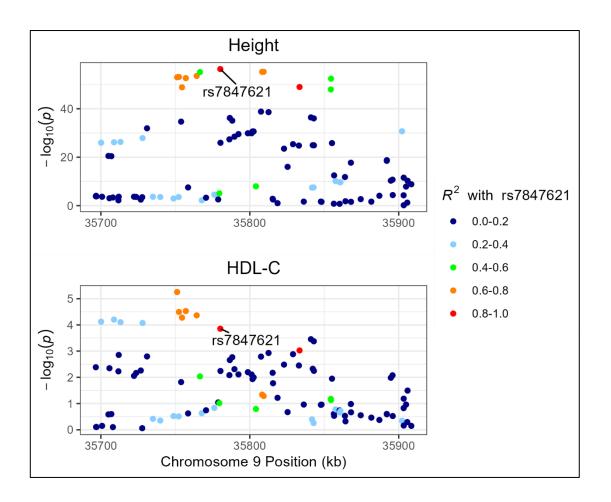


Fig. S3. Regional plot of the genetic associations of height (upper panel) and high-density lipoprotein cholesterol (HDL-C; lower panel) within +/-100kb of the *NPR2* gene.

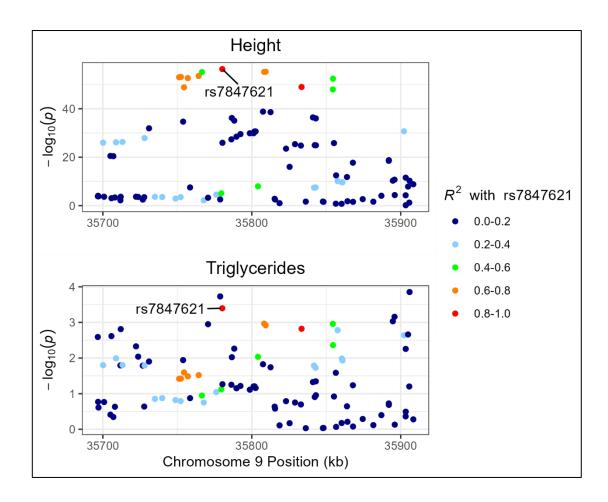


Fig. S4. Regional plot of the genetic associations of height (upper panel) and triglycerides (lower panel) within +/-100kb of the *NPR2* gene.

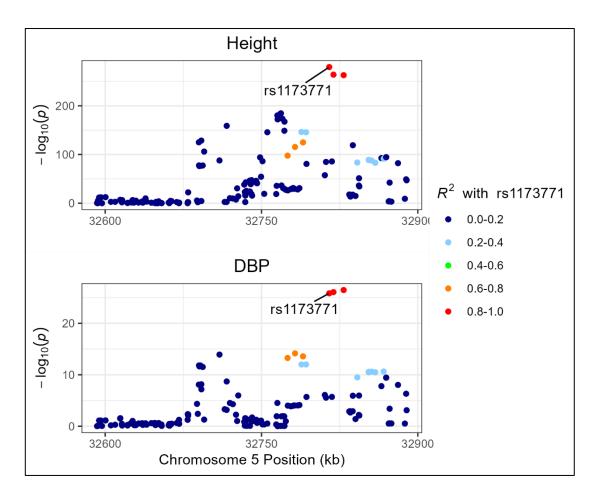


Fig. S5. Regional plot of the genetic associations of height (upper panel) and diastolic blood pressure (DBP; lower panel) within +/-100kb of the *NPR3* gene.

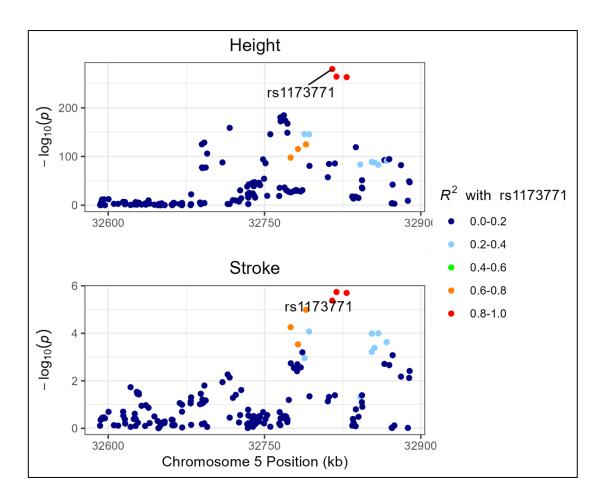


Fig. S6. Regional plot of the genetic associations of height (upper panel) and stroke (lower panel) within +/-100kb of the *NPR3* gene.

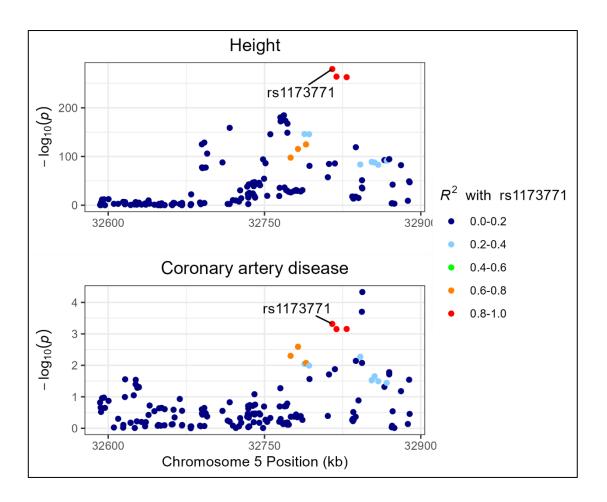


Fig. S7. Regional plot of the genetic associations of height (upper panel) and coronary artery disease (lower panel) within +/-100kb of the *NPR3* gene.

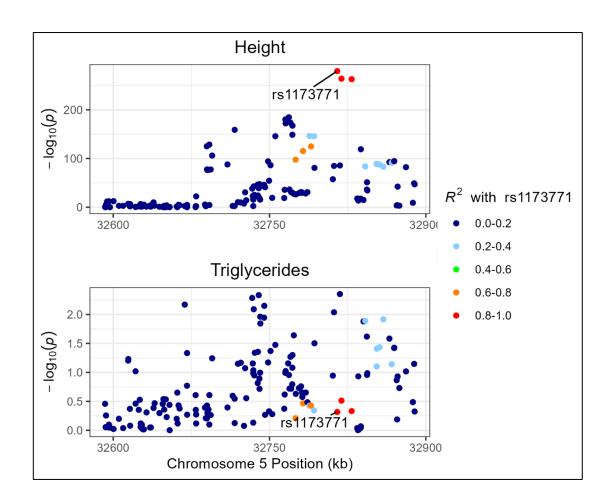


Fig. S8. Regional plot of the genetic associations of height (upper panel) and triglycerides (lower panel) within +/-100kb of the *NPR3* gene.

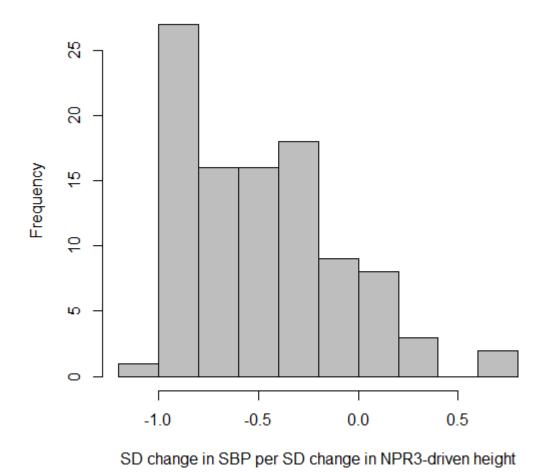


Fig. S9. Results of iteratively sampling 4 of the 12 NPR3 variants 100 times and repeating random-effects inverse-variance weighted Mendelian randomization analysis for the outcome of systolic blood pressure.

SBP: systolic blood pressure, SD: standard deviation.

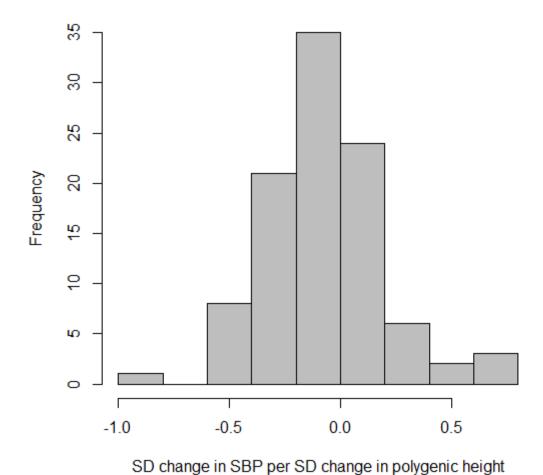


Fig. S10. Results of iteratively sampling 4 of the 9,695 height variants from across the genome 100 times and repeating random-effects inverse-variance weighted Mendelian randomization analysis for the outcome of systolic blood pressure.

SBP: systolic blood pressure, SD: standard deviation.

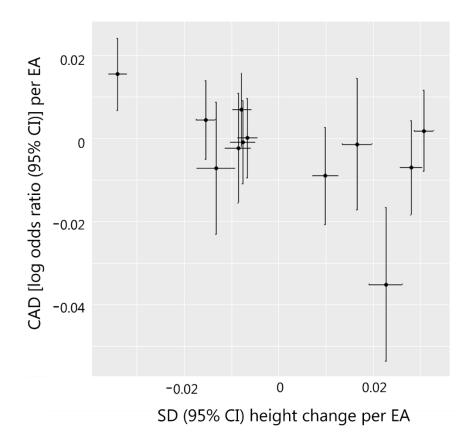


Fig. S11. Comparative effects of each of the 12 NPR3 instrumental variables on height (x-axis) and CAD (y-axis).

CAD: coronary artery disease, CI: confidence interval, EA: effect allele, NPR3: natriuretic peptide receptor 3, SD: standard deviation

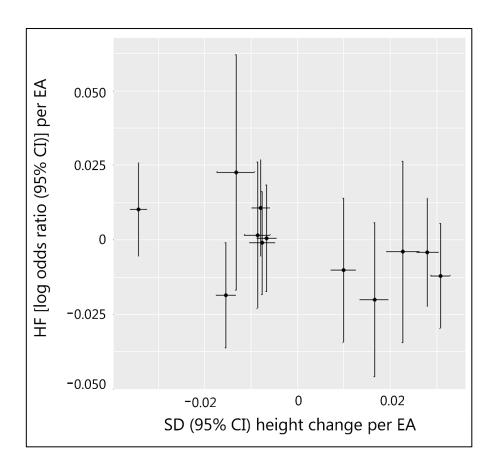


Fig. S12. Comparative effects of each of the 12 NPR3 instrumental variables on height (x-axis) and heart failure (y-axis).

CI: confidence interval, EA: effect allele, NPR3: natriuretic peptide receptor 3, SD: standard deviation

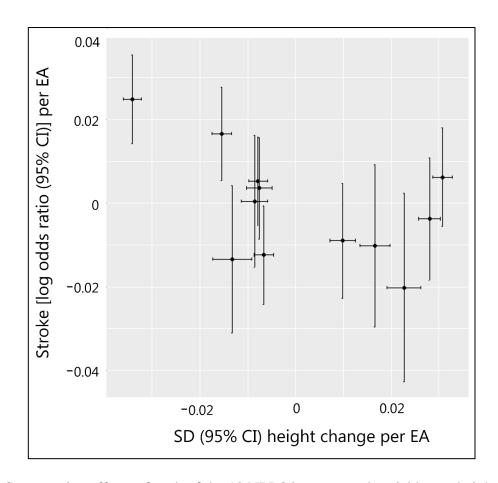


Fig. S13. Comparative effects of each of the 12 NPR3 instrumental variables on height (x-axis) and stroke (y-axis).

CI: confidence interval, EA: effect allele, NPR3: natriuretic peptide receptor 3, SD: standard deviation

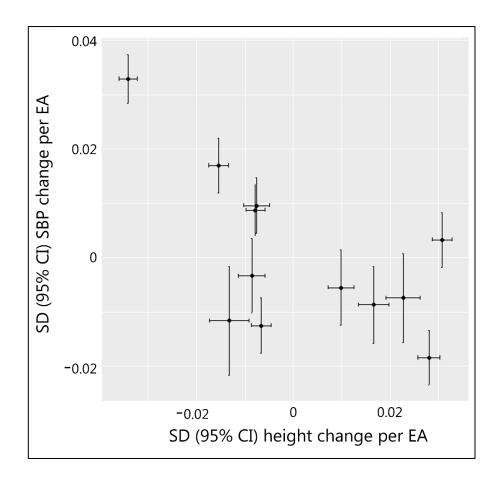


Fig. S14. Comparative effects of each of the 12 NPR3 instrumental variables on height (x-axis) and stroke (y-axis).

CI: confidence interval, EA: effect allele, NPR3: natriuretic peptide receptor 3, SBP: systolic blood pressure, SD: standard deviation