|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pain | Chr | SNP | OR (95% CI) | SE | P | Minor Allele | MAF | Gene |
| Constant | 1 | rs563109615 | 4.062 (1.75, 9.44) | 0.43 | 1.13E-03 | A | 0.059 | Downstream *NGF* |
| 1 | rs141581625 | 2.15 (1.33, 3.49) | 0.25 | 1.91E-03 | C | 0.14 | *DISC1* |
| 2 | rs653231 | 1.68 (1.25, 2.24) | 0.15 | 4.94E-04 | G | 0.58 | *CAMKMT* |
| 2\* | rs186372019 | 3.61 (1.65, 7.91) | 0.4 | 1.33E-03 | T | 0.059 | Upstream *PDE1A* |
| 5 | rs10078516 | 1.74 (1.23, 2.47) | 0.18 | 1.83E-03 | T | 0.29 | Downstream *CTNND2* |
| 7 | rs1419793 | 4.49 (1.87, 10.78) | 0.45 | 7.91E-04 | C | 0.051 | *NPSR1* |
| Constant-Severe | 1 | rs563109615 | 4.23 (1.82, 9.83) | 0.43 | 8.02E-04 | A | 0.064 | Downstream *NGF* |
| 1 | rs145897450 | 4.97 (1.81, 13.7) | 0.52 | 1.92E-03 | A | 0.06 | *NGF-AS1* |
| 1 | rs78658433 | 9.24 (2.27, 37.71) | 0.72 | 1.94E-03 | A | 0.04 | *TSNAX-DISC1* |
| 2 | rs80192418 | 5.0 (1.88, 13.33) | 0.5 | 1.29E-03 | A | 0.044 | *CAMKMT* |
| 2\* | rs186372019 | 4.062 (1.83, 9.013) | 0.41 | 5.66E-04 | T | 0.064 | Upstream *PDE1A* |
| 5 | rs10078516 | 1.93 (1.35, 2.76) | 0.18 | 3.27E-04 | T | 0.3 | Downstream *CTNND2* |
| 5 | rs4702765 | 2.94 (1.49, 5.83) | 0.35 | 1.95E-03 | T | 0.076 | Downstream *CTNND2* |
| 5 | rs13184818 | 3.14 (1.53, 6.45) | 0.37 | 1.78E-03 | C | 0.072 | *CTNND2* |
| 7 | rs1419793 | 4.95 (2.021, 12.12) | 0.46 | 4.65E-04 | C | 0.056 | *NPSR1* |
| 22 | rs141779732 | 2.86 (1.47, 5.54) | 0.34 | 1.91E-03 | T | 0.088 | *TANGO2*, Downstream *COMT* |
| Severe | 2 | rs4245799 | 1.89 (1.31,2.73) | 0.19 | 6.37E-04 | C | 0.23 | Downstream *CAMKMT* |
| 5 | rs258834 | 0.093(0.027, 0.32) | 0.63 | 1.83E-04 | T | 0.0065 | *CTNND2* |

**Table S1. Lead SNPS.** Candidate gene association results for lead SNPs for recurrent acute pancreatitis and pain from NAPS2 data. \*SNP has an eQTL as reported in GTEx (1).

Chr, chromosome; SNP, single nucleotide polymorphism; OR, odds ratio; CI, confidence intervals; SE, standard error; MAF, minor allele frequency.

|  |  |  |  |
| --- | --- | --- | --- |
| SNP | Gene | eQTL Tissue | Link |
| rs186372019 | *SSFA2* | Artery-Tibial | <https://www.gtexportal.org/home/snp/rs186372019>  |

**Table S2.** eQTL loci for lead SNP as reported from GTEx (1).

SNP, single nucleotide polymorphism; eQTL, expression quantitative trait loci.

References

1. Lonsdale J, Thomas J, Salvatore M, Phillips R, Lo E, Shad S, et al. The Genotype-Tissue Expression (GTEx) project. Nature Genetics. 2013 2013/06/01;45(6):580-5.