

***PRSS1* c.-408C>T**

rs10273639

Linked with protective variant c.-204C>A and variants c.-1809G>A, c.-1798C>T, c.-1383G>A, c.-408C>T, c.486C>T and c.738C>T

Citations: **Recommended primary citations**

- Liu Q, Lin X, Liu J, Liu A, Gao F. (2012) **The -409 C/T genotype of *PRSS1* protects against pancreatic cancer in the Han Chinese population.** [Dig Dis Sci 57, 573-579](#)
Note that the variant was erroneously reported as -409C/T
- Whitcomb DC, LaRusch J, Krasinskas AM, Klei L, Smith JP, Brand RE, Neoptolemos JP, Lerch MM, Tector M, Sandhu BS, Guda NM, Orlichenko L; Alzheimer's Disease Genetics Consortium, Alkaade S, Amann ST, Anderson MA, Baillie J, Banks PA, Conwell D, Coté GA, Cotton PB, DiSario J, Farrer LA, Forsmark CE, Johnstone M, Gardner TB, Gelrud A, Greenhalf W, Haines JL, Hartman DJ, Hawes RA, Lawrence C, Lewis M, Mayerle J, Mayeux R, Melhem NM, Money ME, Muniraj T, Papachristou GI, Pericak-Vance MA, Romagnuolo J, Schellenberg GD, Sherman S, Simon P, Singh VP, Slivka A, Stolz D, Sutton R, Weiss FU, Wilcox CM, Zarnescu NO, Wisniewski SR, O'Connell MR, Kienholz ML, Roeder K, Barmada MM, Yadav D, Devlin B. (2012) **Common genetic variants in the *CLDN2* and *PRSS1-PRSS2* loci alter risk for alcohol-related and sporadic pancreatitis.** [Nat Genet 44, 1349-1354](#)
- Chen Q, Xue H, Chen M, Gao F, Xu J, Liu Q, Yang X, Zheng L, Chen H. (2014) High serum trypsin levels and the -409 T/T genotype of *PRSS1* gene are susceptible to neonatal sepsis. [Inflammation 37, 1751-1756](#)
Note that the variant was erroneously reported as -409C/T
- Derikx MH, Kovacs P, Scholz M, Masson E, Chen JM, Ruffert C, Lichtner P, Te Morsche RH, Cavestro GM; PanEuropean Working group on Alcoholic Chronic Pancreatitis members and collaborators, Férec C, Drenth JP, Witt H, Rosendahl J. (2015) **Polymorphisms at *PRSS1-PRSS2* and *CLDN2-MORC4* loci associate with alcoholic and non-alcoholic chronic pancreatitis in a European replication study.** [Gut 64, 1426-1433](#)
- Masamune A, Nakano E, Hamada S, Kakuta Y, Kume K, Shimosegawa T. (2015) **Common variants at *PRSS1-PRSS2* and *CLDN2-MORC4* loci associate with chronic pancreatitis in Japan.** [Gut 64, 1345-1346](#)
- Avanthi SU, Ravi Kanth VV, Agarwal J, Lakhtakia S, Gangineni K, Rao GV, Reddy DN, Talukdar R. (2015) **Association of claudin2 and *PRSS1-PRSS2* polymorphisms with idiopathic recurrent acute and chronic pancreatitis: A case-control study from India.** [J Gastroenterol Hepatol 30, 1796-1801](#)

- Boulling A, Sato M, Masson E, Génin E, Chen JM, Férec C. (2015) **Identification of a functional *PRSSI* promoter variant in linkage disequilibrium with the chronic pancreatitis-protecting *rs10273639***. Gut 64, 1837-1838
- Paliwal S, Bhaskar S, Reddy DN, Rao GV, Thomas V, Singh SP, Chandak GR. (2016) **Association analysis of *PRSSI-PRSS2* and *CLDN2-MORC4* variants in nonalcoholic chronic pancreatitis using tropical calcific pancreatitis as model**. Pancreas 2016 Jan 18. [Epub ahead of print]

Functional studies:

- Boulling A, Sato M, Masson E, Génin E, Chen JM, Férec C. (2015) **Identification of a functional *PRSSI* promoter variant in linkage disequilibrium with the chronic pancreatitis-protecting *rs10273639***. Gut 64, 1837-1838