|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chr | SNP | A1 | A2 | Beta | EAF | SE | p | F |
| 1 | rs10914684 | A | G | 0.016593 | 0.325484 | 0.002874 | 7.80E-09 | 29.96865 |
| 1 | rs11165623 | A | G | -0.01581 | 0.504148 | 0.002694 | 4.40E-09 | 31.562 |
| 1 | rs147052174 | T | G | -0.06039 | 0.018556 | 0.009974 | 1.40E-09 | 35.1919 |
| 1 | rs17503369 | C | T | 0.021636 | 0.182208 | 0.003503 | 6.60E-10 | 33.33137 |
| 1 | rs2367724 | T | C | 0.016007 | 0.673602 | 0.00287 | 2.40E-08 | 47.73103 |
| 1 | rs35761479 | A | G | 0.022965 | 0.120751 | 0.004136 | 2.80E-08 | 40.60383 |
| 1 | rs3935790 | A | G | -0.01547 | 0.416104 | 0.002738 | 1.60E-08 | 34.37846 |
| 1 | rs6588376 | A | G | -0.01883 | 0.208312 | 0.003318 | 1.40E-08 | 34.42909 |
| 1 | rs77068442 | G | A | -0.02391 | 0.107228 | 0.004357 | 4.10E-08 | 37.46032 |
| 2 | rs13009008 | G | A | 0.015755 | 0.672659 | 0.002867 | 3.90E-08 | 32.04585 |
| 2 | rs290882 | C | T | 0.017467 | 0.245196 | 0.003127 | 2.30E-08 | 86.76362 |
| 2 | rs3811038 | C | T | -0.01705 | 0.275964 | 0.003029 | 1.80E-08 | 33.27929 |
| 2 | rs528301 | A | G | -0.02034 | 0.554258 | 0.002705 | 5.60E-14 | 80.2398 |
| 2 | rs67174662 | G | A | 0.016656 | 0.375322 | 0.002786 | 2.30E-09 | 34.68974 |
| 2 | rs6751705 | G | T | -0.02247 | 0.512137 | 0.002693 | 7.10E-17 | 34.35339 |
| 2 | rs74676797 | A | G | -0.02335 | 0.80811 | 0.003527 | 3.60E-11 | 50.8238 |
| 2 | rs7582445 | C | A | -0.01722 | 0.587784 | 0.002738 | 3.20E-10 | 38.69535 |
| 2 | rs7600005 | A | G | 0.015608 | 0.373357 | 0.002803 | 2.60E-08 | 35.5796 |
| 2 | rs7609050 | C | A | -0.01576 | 0.525594 | 0.002696 | 5.00E-09 | 33.74016 |
| 3 | rs12487411 | A | G | 0.016798 | 0.470776 | 0.0027 | 5.00E-10 | 30.20679 |
| 3 | rs1499976 | C | T | -0.03143 | 0.852678 | 0.003819 | 1.90E-16 | 33.0531 |
| 3 | rs56760958 | T | C | 0.017268 | 0.390264 | 0.002758 | 3.80E-10 | 36.66413 |
| 3 | rs67336646 | A | T | 0.023643 | 0.626947 | 0.002781 | 1.80E-17 | 34.80522 |
| 3 | rs963354 | A | C | -0.01764 | 0.67342 | 0.002877 | 8.70E-10 | 67.70277 |
| 3 | rs9835772 | T | A | -0.01827 | 0.243587 | 0.003137 | 5.70E-09 | 30.47708 |
| 4 | rs3827592 | A | G | 0.017722 | 0.350953 | 0.00283 | 3.80E-10 | 33.44867 |
| 4 | rs58400863 | A | G | 0.017627 | 0.341566 | 0.002853 | 6.50E-10 | 41.54483 |
| 4 | rs6828849 | T | A | 0.017917 | 0.418816 | 0.002734 | 5.70E-11 | 38.14188 |
| 4 | rs77304846 | C | T | 0.020858 | 0.183007 | 0.003482 | 2.10E-09 | 31.1823 |
| 4 | rs899631 | T | G | 0.017651 | 0.391204 | 0.002768 | 1.80E-10 | 36.80956 |
| 5 | rs1017998 | G | A | -0.01519 | 0.620358 | 0.002775 | 4.40E-08 | 31.10607 |
| 5 | rs10474278 | G | A | -0.01849 | 0.746763 | 0.003117 | 3.00E-09 | 29.87194 |
| 5 | rs1559278 | C | T | 0.015486 | 0.361217 | 0.002805 | 3.40E-08 | 33.87225 |
| 5 | rs27003 | C | T | -0.01643 | 0.695133 | 0.002938 | 2.20E-08 | 31.28546 |
| 5 | rs4044321 | G | A | 0.01837 | 0.641902 | 0.002816 | 6.90E-11 | 30.68238 |
| 5 | rs7733542 | G | A | -0.01566 | 0.629381 | 0.002811 | 2.50E-08 | 33.45797 |
| 6 | rs118202 | T | G | 0.032449 | 0.817423 | 0.003484 | 1.20E-20 | 33.21331 |
| 6 | rs12209519 | G | A | -0.01589 | 0.407575 | 0.002754 | 8.00E-09 | 37.94469 |
| 6 | rs1611723 | G | A | 0.015841 | 0.405117 | 0.002739 | 7.30E-09 | 31.19845 |
| 6 | rs2797793 | C | T | 0.015271 | 0.603851 | 0.002757 | 3.00E-08 | 36.7866 |
| 6 | rs4708899 | G | A | 0.015898 | 0.575572 | 0.002735 | 6.20E-09 | 32.42146 |
| 6 | rs9375371 | A | G | -0.0199 | 0.269381 | 0.003044 | 6.30E-11 | 33.26111 |
| 6 | rs9381919 | T | G | 0.027063 | 0.103581 | 0.004425 | 9.60E-10 | 30.82463 |
| 7 | rs10233018 | G | A | -0.01514 | 0.503043 | 0.002696 | 1.90E-08 | 38.2483 |
| 7 | rs1174864 | A | G | -0.01536 | 0.54986 | 0.002713 | 1.50E-08 | 31.70257 |
| 7 | rs12333760 | C | T | 0.021397 | 0.165515 | 0.003633 | 3.90E-09 | 39.22363 |
| 7 | rs1499300 | C | A | 0.021794 | 0.157852 | 0.003694 | 3.60E-09 | 46.40239 |
| 7 | rs1899689 | T | C | -0.01542 | 0.389116 | 0.002762 | 2.30E-08 | 31.92262 |
| 7 | rs6464024 | T | C | 0.017555 | 0.427444 | 0.002723 | 1.10E-10 | 42.55566 |
| 7 | rs885011 | C | T | 0.020272 | 0.501337 | 0.002695 | 5.40E-14 | 33.77933 |
| 8 | rs10956808 | G | T | 0.018912 | 0.422089 | 0.002737 | 4.90E-12 | 56.50228 |
| 8 | rs2433055 | G | T | 0.014837 | 0.447651 | 0.002715 | 4.60E-08 | 44.64899 |
| 8 | rs2952251 | G | A | -0.01753 | 0.739866 | 0.003079 | 1.20E-08 | 32.1312 |
| 8 | rs3857914 | C | T | -0.02015 | 0.302135 | 0.002959 | 9.60E-12 | 39.18915 |
| 8 | rs73229090 | A | C | 0.028878 | 0.117859 | 0.004228 | 8.40E-12 | 38.17724 |
| 9 | rs10959442 | G | T | -0.0172 | 0.46641 | 0.002699 | 1.90E-10 | 67.06586 |
| 9 | rs1246265 | C | T | -0.02092 | 0.695165 | 0.002935 | 1.00E-12 | 36.57349 |
| 9 | rs28647734 | A | G | -0.01917 | 0.210012 | 0.003327 | 8.30E-09 | 47.35852 |
| 9 | rs9299331 | C | T | -0.01749 | 0.526134 | 0.002699 | 9.10E-11 | 57.75797 |
| 10 | rs12244388 | A | G | -0.02551 | 0.338108 | 0.002848 | 3.30E-19 | 41.55698 |
| 10 | rs3808937 | T | C | -0.02055 | 0.207824 | 0.003323 | 6.20E-10 | 32.20986 |
| 10 | rs7901348 | G | T | 0.019295 | 0.552343 | 0.002729 | 1.60E-12 | 35.73673 |
| 10 | rs911773 | C | A | 0.015256 | 0.489521 | 0.002694 | 1.50E-08 | 72.30265 |
| 10 | rs9423279 | G | C | 0.016448 | 0.657058 | 0.002892 | 1.30E-08 | 69.64091 |
| 11 | rs2862465 | A | G | 0.015842 | 0.409159 | 0.002739 | 7.30E-09 | 42.93639 |
| 11 | rs540356 | A | C | -0.01845 | 0.413629 | 0.00276 | 2.40E-11 | 35.938 |
| 11 | rs6265 | T | C | 0.026146 | 0.189039 | 0.00344 | 3.00E-14 | 39.41125 |
| 11 | rs71491831 | A | G | 0.030574 | 0.075719 | 0.0051 | 2.00E-09 | 46.66368 |
| 12 | rs1109480 | A | G | 0.016339 | 0.389103 | 0.002787 | 4.50E-09 | 36.15615 |
| 12 | rs11613961 | C | T | -0.02936 | 0.086782 | 0.004797 | 9.30E-10 | 43.81895 |
| 12 | rs597808 | G | A | 0.022118 | 0.515766 | 0.002701 | 2.60E-16 | 39.57022 |
| 12 | rs7969559 | G | A | 0.017342 | 0.720515 | 0.003001 | 7.50E-09 | 31.01601 |
| 13 | rs56081685 | G | T | 0.016504 | 0.31367 | 0.002912 | 1.40E-08 | 34.18453 |
| 13 | rs7333559 | A | G | 0.019966 | 0.788658 | 0.00332 | 1.80E-09 | 30.2972 |
| 13 | rs9542750 | C | T | 0.015155 | 0.585734 | 0.002751 | 3.60E-08 | 36.27204 |
| 14 | rs12895462 | C | T | 0.020007 | 0.191374 | 0.003444 | 6.30E-09 | 41.54968 |
| 15 | rs2289791 | T | G | 0.019085 | 0.247319 | 0.003146 | 1.30E-09 | 30.1218 |
| 15 | rs62022627 | G | A | 0.018963 | 0.400649 | 0.002755 | 5.90E-12 | 35.89378 |
| 15 | rs8034783 | T | C | -0.02825 | 0.101047 | 0.004494 | 3.30E-10 | 31.04025 |
| 16 | rs2866724 | G | A | -0.0188 | 0.266293 | 0.003053 | 7.30E-10 | 43.25017 |
| 16 | rs2917670 | C | T | 0.016755 | 0.610217 | 0.002762 | 1.30E-09 | 49.98062 |
| 16 | rs35445224 | C | T | -0.02062 | 0.181004 | 0.003576 | 8.10E-09 | 33.40303 |
| 16 | rs763053 | C | T | 0.019489 | 0.226141 | 0.003236 | 1.70E-09 | 39.50177 |
| 16 | rs77878475 | A | T | 0.033082 | 0.084274 | 0.00503 | 4.80E-11 | 36.68335 |
| 17 | rs12450028 | T | C | -0.01661 | 0.345053 | 0.002833 | 4.60E-09 | 56.56864 |
| 17 | rs2587507 | C | T | 0.015586 | 0.505702 | 0.002678 | 5.90E-09 | 40.66156 |
| 17 | rs7216173 | T | A | 0.020776 | 0.782099 | 0.003309 | 3.40E-10 | 32.06417 |
| 17 | rs8071295 | A | C | 0.022507 | 0.157348 | 0.003716 | 1.40E-09 | 42.00773 |
| 18 | rs12608052 | T | C | 0.016111 | 0.518925 | 0.002701 | 2.40E-09 | 42.73479 |
| 18 | rs1623003 | T | C | -0.01847 | 0.664037 | 0.002866 | 1.20E-10 | 37.41033 |
| 19 | rs76608582 | A | C | 0.042972 | 0.047264 | 0.006667 | 1.10E-10 | 32.34644 |
| 20 | rs6141314 | A | G | -0.01916 | 0.241567 | 0.003168 | 1.50E-09 | 30.34588 |
| 22 | rs139896 | C | T | -0.01621 | 0.64784 | 0.00282 | 9.00E-09 | 37.60796 |
| 22 | rs762995 | G | A | 0.014873 | 0.535061 | 0.002702 | 3.70E-08 | 33.92435 |

**table S1**：The selected SNPs for studying the relationship between past smoking and CTS.

Chr: chromosome; SNP: single nucleotide polymorphism; A1: effect allele; A2: other allele; EAF: A1 allele frequency; SE: standard error.