**S5 Table Genotype frequency of g1679C>G in different populations**

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| Genotype frequency of g1679C>G |
| 　 | 　 | 　 | C/C | C/G | G/G | MAF% |
| This study | GSF | Chinese | Asian | 0.46(242) | 0.41(212) | 0.13(63) | 32.8  |
| This study | GS | Chinese | Asian | 0.37(218) | 0.48(282) | 0.15(87) | 38.8  |
| Chen CW et al[1] | normocholesterolemic | Chinese | Asian | 0.40(77) | 0.51(97) | 0.09(18) | 34.6 |
| dyslipidemia | Chinese | Asian | 0.34(11) | 0.47(15) | 0.19(6) | 42.2  |
| Miao L et al[2] | normocholesterolemic | Chinese(Han) | Asian | 0.39(290) | 0.47(346) | 0.14(102) | 37.3  |
| normocholesterolemic | Chinese(Mulao) | Asian | 0.50(343) | 0.41(281) | 0.09(64) | 29.7  |
| Kashiwabara Y et al[3] | dyslipidemia | Japanese | Asian | 0.15(17) | 0.49(57) | 0.36(41) | 60.4  |
| Maeda T et al[4] | normocholesterolemic | Japanese | Asian | 0.35(50) | 0.46(65) | 0.19(27) | 41.9  |
| Lupattelli G et al[5] | dyslipidemia | Italian | Caucasian | 0.56(49) | 0.41(36) | 0.02(2) | 23.0  |
| Pisciotta L et al[6] | dyslipidemia | Italian | Caucasian | 0.63(44) | 0.33(23) | 0.04(3) | 20.7  |
| Martín B et al[7] | normocholesterolemic | Spanish | Caucasian | 0.57(155) | 0.39(107) | 0.04(11) | 23.6  |
| dyslipidemia | Spanish | Caucasian | 0.54(146) | 0.40(109) | 0.06(17) | 26.3  |
| a, the genotype frequeny of 1679C>G is significant different between Chinese to Janpanese, Italian, Spanish respectively(P<0.001) |  |
| b, the genotype frequeny of 1679C>G is significant different between Janpanese to Italian, Spanish respectively(P<0.001) |  |
| c, no significant different between Italian to Spanish(P<0.001) |  |

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