**Table S9. Correlations (r2) of reported variants at *IL1RL1* with the two variants from stepwise regression and two top coding signals.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | ***Top variants from stepwise regression*** | | |  | ***Coding variants*** | | |
|  |  |  |  | **rs13020553** |  | **rs6719123** |  | **rs10192157** |  | **rs1041973** |
|  |  |  | **MAF:** | **41.9%** |  | **14.2%** |  | **39.0%** |  | **17.70%** |
| **Marker** | **MAF [%]** | **Equivalence classa** |  | **r2** |  | **r2** |  | **r2** |  | **r2** |
| rs3771180 | 11.4 | I |  | 0.093 |  | 0.69 |  | 0.20 |  | 0.60 |
| rs13408661 | 11.4 | I |  | 0.093 |  | 0.69 |  | 0.20 |  | 0.60 |
| rs1420101 | 41.0 | III |  | 0.96 |  | 0.034 |  | 0.38 |  | 0.0025 |
| rs3771175 | 11.2 | I |  | 0.091 |  | 0.68 |  | 0.20 |  | 0.59 |
| rs10197862 | 11.3 | I |  | 0.092 |  | 0.67 |  | 0.20 |  | 0.58 |
| rs9807989 | 39.0 | II |  | 0.35 |  | 0.12 |  | 1.00 |  | 0.06 |
| rs3771166 | 39.0 | II |  | 0.35 |  | 0.12 |  | 1.00 |  | 0.06 |

a Equivalence classes for reported variants:

I: rs3771180, rs13408661, rs3771175 and rs10197862 have r2>0.97, pairwise;

II: rs9807989 and rs3771166 have r2=1.00;

III: single variant.

The variants in equivalence class I are on the background of the variants equivalence class II (r2=0.20, positive correlation for minor alleles, D'=1.00, for rs3771180 and rs9807989).

The variants in equivalence class I are on the background of the major allele of rs1420101 (rs3771180 and rs1420101 have r2=0.089 with negative correlation for minor alleles and D'=1.00).