### Supplemental Table S7. Allele Frequencies of HLA-DQB1 in Patients with ICI-T1DM

| Allele   | ICI-T1DM (n=14) | ICI-controls (n=26) | Controls (n=1,483) | ICI-T1DM vs. ICI-controls | ICI-controls vs. controls |
|----------|-----------------|---------------------|---------------------|---------------------------|--------------------------|
|          | Number | F, % | P value | OR | 95% CI | Number | F, % | P value | F, % | P value | P value |
| DQB1*03:01 | 1      | 7.1  | NS      |    |        | 0      | 0.0  | NS      | 11.43| NS      | NS      |
| DQB1*03:02 | 2      | 14.3 | NS      |    |        | 4      | 15.4 | NS      | 9.59 | NS      | NS      |
| DQB1*03:03 | 2      | 14.3 | NS      |    |        | 5      | 19.2 | NS      | 15.54| NS      | NS      |
| DQB1*04:01 | 5      | 35.7 | 0.045a | 3.72| 1.08–12.83| 4      | 15.4 | NS      | 12.90| NS      | NS      |
| DQB1*04:02 | 0      | 0    | NS      |    |        | 1      | 3.8  | NS      | 4.21 | NS      | NS      |
| DQB1*05:01 | 0      | 0    | NS      |    |        | 1      | 3.8  | NS      | 6.58 | NS      | NS      |
| DQB1*05:02 | 0      | 0    | NS      |    |        | 0      | 0.0  | NS      | 2.64 | NS      | NS      |
| DQB1*05:03 | 1      | 7.1  | NS      |    |        | 1      | 3.8  | NS      | 3.94 | NS      | NS      |
| DQB1*06:01 | 3      | 21.4 | NS      |    |        | 3      | 11.5 | NS      | 19.08| NS      | NS      |
| DQB1*06:02 | 0      | 0    | NS      |    |        | 5      | 19.2 | NS      | 7.15 | NS      | NS      |
| DQB1*06:04 | 0      | 0    | NS      |    |        | 2      | 7.7  | NS      | 5.18 | NS      | NS      |
| Others   | 0      | 0    | NS      |    |        | 0      | 0.0  | NS      | 1.76 | NS      | NS      |
| Total    | 14     | 100.00 |        |    |        | 26     | 72.22|        | 100.00|        |         |

Alleles with frequencies more than 1.0% in controls were included to the analysis (11 alleles).
HLA-DQB1, human leukocyte antigen DQB1; ICI-T1DM, immune-checkpoint inhibitor-induced type 1 diabetes mellitus; F, frequency of the allele; OR, odds ratio; CI, confidence interval; NS, not significant.

aControl subjects: Japanese Society for Histocompatibility and Immunogenetics (http://jshi.umin.ac.jp/standarization/file/JSHI-hyokiallele-2021list.pdf) (JSHI2021) [16]; bThe association of haplotype frequencies with each disease was analyzed using Fisher’s exact test with 2×2 contingency tables; cP value less than 0.05.