

# B-CELL LINE EXCHANGE #298

## APRIL 4, 2022

B-cell Line 595 - 596

The results for B-cell Line Exchange #298 were summarized in Tables 1 - 2 and individual laboratory results reported for each sample were listed in Tables 3 - 6.

We are grateful to **Welsh Blood Service, Pontyclun, Wales** and to **Leiden University Medical Center, Netherlands** for kindly donating the refer-

ence cells examined in this study.

We would like to also thank the labs performing NGS for sharing their findings and encourage other NGS labs to do so as well. Haplotype frequencies used in this report were from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

**Ter-595.** The reported HLA type for this cell from a Caucasian donor was as follows:

| HLA-A  |        | HLA-B   |        | HLA-C  |        |
|--------|--------|---------|--------|--------|--------|
| *01:01 | *68:01 | *08:19N | *40:01 | *03:04 | *07:01 |

| DRB1   |        | DRB3/4/5 |         | DQA1   |        | DQB1   |        | DPA1   |  | DPB1   |        |
|--------|--------|----------|---------|--------|--------|--------|--------|--------|--|--------|--------|
| *03:01 | *04:01 | 3*01:01  | 4*01:03 | *03:03 | *05:01 | *02:01 | *03:01 | *01:03 |  | *04:01 | *04:02 |

One possible association present in this cell was A\*01:01-B\*40:01-C\*03:04-DRB1\*04:01-DQB1\*03:01, observed in Caucasians, with HF = 0.00026. The other likely association present may then be A\*68:01-B\*08:19N-C\*07:01-DRB1\*03:01-DQB1\*02:01.

This cell was 11829109, the reference cell for B\*08:19N. It was previously examined as Ter 573 (2020) and extracts 598 (2013) and 410 (2008). In this present retyping, B\*08:19N was assigned by 96% of labs reporting at high resolution. Good agreement (> 80%) was also achieved for all other alleles.

**Ter-596.** The reported HLA type for this cell from a Caucasian donor was as follows:

| HLA-A  |        | HLA-B  |        | HLA-C  |        |
|--------|--------|--------|--------|--------|--------|
| *02:09 | *03:01 | *35:02 | *38:01 | *04:01 | *12:03 |

| DRB1   |  | DRB3/4/5 |  | DQA1   |  | DQB1   |  | DPA1   |        | DPB1   |        |
|--------|--|----------|--|--------|--|--------|--|--------|--------|--------|--------|
| *11:04 |  | 3*02:02  |  | *05:05 |  | *03:01 |  | *01:03 | *02:01 | *04:02 | *10:01 |

Likely associations present in this cell were B\*35:02-C\*04:01-DRB1\*11:04-DQB1\*03:01 and B\*38:01-C\*12:03-DRB1\*11:04-DQB1\*03:01, observed in Caucasians, with respective HF = 0.00682 and 0.00107.

This cell was OZB, the reference cell for A\*02:09. It was previously examined in the workshops as IHW#9216 and in the Exchange as extracts 306 (2004) and 205 (2002). In this present retyping, A\*02:09 was assigned by 96% of labs reporting at high resolution. Good agreement (> 80%) was also achieved for all other allele assignments.

**NEXT MAILING DATE: May 4, 2022**

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**Table 1: Summary of the 298<sup>th</sup> B-cell Line Exchange**

| Ter-595               |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|-----------------------|----------------------------------------------|--|--|--------|--------------------------------------------------|--|--|--------|----------------------------------------------|--|--|---------|----------------------------------------------|--|--|---------|----------------------------------------------|--|--|---------|----------------------------------------------|--|--|--------|
| DNA Typing - class II | <b><u>27 labs High; 22 labs low-DRB1</u></b> |  |  | %(n)   | <b><u>20 labs High; 17 labs Low-DRB3/4/5</u></b> |  |  | %(n)   | <b><u>20 labs High; 19 labs Low-DQA1</u></b> |  |  | %(n)    | <b><u>27 labs High; 21 labs Low-DQB1</u></b> |  |  | %(n)    | <b><u>17 labs High; 11 labs Low-DPA1</u></b> |  |  | %(n)    | <b><u>26 labs High; 13 labs Low-DPB1</u></b> |  |  | %(n)   |
|                       | DRB1*03:01:01                                |  |  | 22(6)  | DRB3*01:01:02                                    |  |  | 20(4)  | DQA1*03:03:01                                |  |  | 25(5)   | DQB1*02:01:01                                |  |  | 30(8)   | DPA1*01:03:01                                |  |  | 29(5)   | DPB1*04:01:01                                |  |  | 31(8)  |
|                       | DRB1*03:01:01G                               |  |  | 11(3)  | DRB3*01:01:02G                                   |  |  | 5 (1)  | DQA1*03:03                                   |  |  | 70(14)  | DQB1*02:01:01G                               |  |  | 7 (2)   | DPA1*01:03:01G                               |  |  | 6 (1)   | DPB1*04:01:01G                               |  |  | 11(3)  |
|                       | DRB1*03:01P                                  |  |  | 7 (2)  | DRB3*01:01                                       |  |  | 75(15) | DQA1*03:02                                   |  |  | 5 (1)   | DQB1*02:01                                   |  |  | 63(17)  | DPA1*01:03                                   |  |  | 65(11)  | DPB1*04:01P                                  |  |  | 8 (2)  |
|                       | DRB1*03:01                                   |  |  | 59(16) | DRB3*01                                          |  |  | 88(15) | DQA1*03                                      |  |  | 100(19) | DQB1*02                                      |  |  | 100(21) | DPA1*01                                      |  |  | 100(11) | DPB1*04:01                                   |  |  | 50(13) |
|                       | DRB1*03(DR17)                                |  |  | 45(10) | DRB3*PRESENT                                     |  |  | 12(2)  |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         | DPB1*04(DP401)                               |  |  | 46(6)  |
|                       | DRB1*03                                      |  |  | 55(12) |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         | DPB1*04                                      |  |  | 54(7)  |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
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|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
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|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
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|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
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|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |
|                       |                                              |  |  |        |                                                  |  |  |        |                                              |  |  |         |                                              |  |  |         |                                              |  |  |         |                                              |  |  |        |

**Table 2: Summary of the 298<sup>th</sup> B-cell Line Exchange**

**Ter-596**

|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|-----------------------|---------------------------------------|--|---------|-------------------------------------------|--|--------|---------------------------------------|--|---------|---------------------------------------|--|--------|---------------------------------------|--|---------|---------------------------------------|--|--------|
| DNA Typing - class II | <b>27 labs High; 22 labs low-DRB1</b> |  | %(n)    | <b>19 labs High; 18 labs Low-DRB3/4/5</b> |  | %(n)   | <b>20 labs High; 19 labs Low-DQA1</b> |  | %(n)    | <b>27 labs High; 21 labs Low-DQB1</b> |  | %(n)   | <b>17 labs High; 11 labs Low-DPA1</b> |  | %(n)    | <b>26 labs High; 13 labs Low-DPB1</b> |  | %(n)   |
|                       | DRB1*11:04:01                         |  | 33(9)   | DRB3*02:02:01                             |  | 21(4)  | DQA1*05:05:01                         |  | 25(5)   | DQB1*03:01:01                         |  | 26(7)  | DPA1*01:03:01                         |  | 29(5)   | DPB1*04:02:01                         |  | 31(8)  |
|                       | DRB1*11:04                            |  | 67(18)  | DRB3*02:02P                               |  | 5 (1)  | DQA1*05:05                            |  | 75(15)  | DQB1*03:01:01G                        |  | 7 (2)  | DPA1*01:03                            |  | 71(12)  | DPB1*04:02:01G                        |  | 4 (1)  |
|                       | DRB1*11                               |  | 100(22) | DRB3*02:02                                |  | 74(14) | DQA1*05                               |  | 100(19) | DQB1*03:01                            |  | 67(18) | DPA1*01                               |  | 100(11) | DPB1*04:02                            |  | 61(16) |
|                       |                                       |  |         | DRB3*02                                   |  | 89(16) |                                       |  |         | DQB1*03(DQ7)                          |  | 48(10) |                                       |  |         | DPB1*416:01                           |  | 4 (1)  |
|                       |                                       |  |         | DRB3*PRESENT                              |  | 11(2)  |                                       |  |         | DQB1*03                               |  | 52(11) |                                       |  |         | DPB1*04(DP402)                        |  | 54(7)  |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         | DPB1*04                               |  | 46(6)  |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
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|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
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|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
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|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
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|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |
|                       |                                       |  |         |                                           |  |        |                                       |  |         |                                       |  |        |                                       |  |         |                                       |  |        |

**Table 3a: Individual laboratory results for B-cell #595 - Class II**

|        | Low resolution |     |           |           |      |     |      |          |      |     |            |            |             |               |
|--------|----------------|-----|-----------|-----------|------|-----|------|----------|------|-----|------------|------------|-------------|---------------|
| Center | DRB1           |     | DRB3/4/5  |           | DQA1 |     | DQB1 |          | DPA1 |     | DPB1       |            | METHOD      | Other Alleles |
| 278    | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      | *01  | *01 | *04        | *04        |             |               |
| 725    | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) |      |     |            |            | SSO         |               |
| 731    | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      | *01  | *01 | *04        | *04        | NGS RT-PCR  |               |
| 747    | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      | *01  | *01 | *04        | *04        | SSP SSO NGS |               |
| 771    | *03            | *04 |           |           | *03  | *05 | *02  | *03      |      |     | *04        |            | SSP SSO NGS |               |
| 792    | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | *01  | *01 | *04(DP401) | *04(DP402) | SSO NGS     |               |
| 793    | *03(DR17)      | *04 | 3*01      | 4*PRESENT | *03  | *05 | *02  | *03(DQ7) |      |     | *04(DP401) | *04(DP402) | SSP         |               |
|        |                |     |           |           |      |     |      |          |      |     |            |            | SSP SSO NGS |               |
| 794    | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      | *01  |     | *04        |            | RT-PCR      |               |
| 2400   | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | NT   | NT  | *04        | *04        | SSO NGS     |               |
| 2847   | *03            | *04 |           |           |      |     |      |          |      |     |            |            | SSO         |               |
|        |                |     |           |           |      |     |      |          |      |     |            |            | SSP NGS     |               |
| 3519   | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | *01  |     | *04(DP401) | *04(DP402) | RT-PCR      |               |
| 3753   |                |     | 3*01      | 4*01      | *03  | *05 |      |          | *01  | *01 |            |            | SBT         |               |
| 4079   | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | *01  |     | *04(DP401) | *04(DP402) | SSO         |               |
| 5130   | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      |      |     | *04        | *04        | SSO NGS     |               |
| 5214   | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | *01  |     | *04(DP401) | *04(DP402) | RT-PCR      |               |
| 5219   | *03            | *04 |           |           | *03  | *05 | *02  | *03      |      |     |            |            | SSO NGS     |               |
| 5462   | *03            | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03      | *01  |     | NT         | NT         | RT-PCR      |               |
| 5488   |                |     |           | 4*01      |      |     |      |          |      |     |            |            | SSO SBT NGS |               |
| 5642   | *03(DR17)      | *04 | 3*PRESENT | 4*PRESENT |      |     | *02  | *03(DQ7) |      |     |            |            | SSP SSO     |               |
| 6649   | *03(DR17)      | *04 |           |           |      |     | *02  | *03(DQ7) |      |     |            |            | SSO         |               |
| 8029   | *03            | *04 |           |           | *03  | *05 | *02  | *03      |      |     |            |            |             |               |
| 8058   | *03            | *04 | 3*PRESENT | 4*PRESENT |      |     | *02  | *03      |      |     |            |            | SSP         |               |
| 8068   | *03            | *04 |           |           | *03  | *05 | *02  | *03      |      |     |            |            | SSO         |               |
| 8123   | *03(DR17)      | *04 | 3*01      | 4*01      | *03  | *05 | *02  | *03(DQ7) | *01  | *01 | *04(DP401) | *04(DP402) | RT-PCR      |               |

**Table 3b: Individual laboratory results for B-cell #595 - Class II**

|        | High resolution |           |            |            |           |           |           |            |           |           |            |            |                       |                                                            |  |
|--------|-----------------|-----------|------------|------------|-----------|-----------|-----------|------------|-----------|-----------|------------|------------|-----------------------|------------------------------------------------------------|--|
| Center | DRB1            |           | DRB3/4/5   |            | DQA1      |           | DQB1      |            | DPA1      |           | DPB1       |            | METHOD                | Other Alleles                                              |  |
| 230    | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    | *01:03    | *04:01     | *04:02     | NGS                   |                                                            |  |
| 278    | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    | *01:03    | *04:01     | *04:02     |                       |                                                            |  |
| 731    | *03:01          | *04:01:01 |            |            |           |           | *02:01:01 | *03:01:01G |           |           | *04:01:01  | *04:02:01  | NGS RT-PCR            | DQB1*02:109<br>DQB1*02:163N<br>DRB1*03:147<br>DRB1*04:274  |  |
| 747    | *03:01:01       | *04:01:01 | 3*01:01:02 | 4*01:03:01 | *03:03:01 | *05:01:01 | *02:01:01 | *03:01     | *01:03:01 | *01:03:01 | *04:01:01  | *04:02:01  | SSP SSO NGS           | DQB1*02:163N<br>DPB1*105:01<br>DPB1*126:01<br>DQB1*03:276N |  |
| 762    | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    |           | *04:01     | *04:02     | SSO NGS               |                                                            |  |
| 771    | *03:01          | *04:01    |            |            |           |           | *02:01    | *03:01     |           |           | *04:01     | *04:02     | SSP SSO NGS           |                                                            |  |
| 792    | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    | *01:03    | *04:01     | *04:02     | SSO NGS               | DRB1*03:147                                                |  |
| 793    |                 |           |            |            | *03:03    | *05:01    |           |            |           |           | *04:01     | *04:02     | SSP                   |                                                            |  |
| 794    | *03:01:01       | *04:01:01 | 3*01:01    | 4*01:03    | *03:03:01 | *05:01:01 | *02:01:01 | *03:01:01  | *01:03:01 |           | *04:01:01  | *04:02:01  | SSP SSO NGS<br>RT-PCR | DRB3*01:86,<br>DRB4*01:134                                 |  |
| 2344   | *03:01:01       | *04:01:01 | NT         | NT         | NT        | NT        | *02:01:01 | *03:01:01  | NT        | NT        | *04:01:01  | *04:02:01  | NGS                   | DRB1*03:01:31<br>DPB1*126:01:01<br>DPB1*105:01:01          |  |
| 2400   | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | NT        | NT        | *04:01:01G | *04:02:01G | SSO NGS               | DQB1*03:276N<br>DQB1*02:163N                               |  |
| 3135   | *03:01P         | *04:01P   | 3*01:01    | 4*01:03    | *03:02    | *05:01    | *02:01    | *03:01     | *01:03    |           | *04:01     | *04:02     |                       | DQA1*03:03                                                 |  |
| 3224   | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    |           | *04:01P    | *04:02P    | NGS                   |                                                            |  |
| 3511   | *03:01          | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    | *01:03    | *04:01P    | *04:02P    | NGS                   |                                                            |  |
| 3519   | *03:01P         | *04:01    | 3*01:01    | 4*01:03    | *03:03    | *05:01    | *02:01    | *03:01     | *01:03    |           | *04:01     | *04:02     | SSP NGS<br>RT-PCR     | DRB1*03:147                                                |  |

**Table 3b: Individual laboratory results for B-cell #595 - Class II**

|        | High resolution |            |             |             |           |           |            |            |            |           |            |            |             |                                                                                                                                                                                                                                                                                                       |            |
|--------|-----------------|------------|-------------|-------------|-----------|-----------|------------|------------|------------|-----------|------------|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Center | DRB1            |            | DRB3/4/5    |             | DQA1      |           | DQB1       |            | DPA1       |           | DPB1       |            | METHOD      | Other Alleles                                                                                                                                                                                                                                                                                         |            |
|        |                 |            |             |             |           |           |            |            |            |           |            |            |             | DQB1*02:152<br>DPB1*138:01<br>DPB1*642:01<br>DPB1*736:01<br>DQB1*03:256<br>DQB1*03:73<br>DQB1*03:389<br>DQB1*03:430<br>DRB1*03:127<br>DPB1*23:01<br>DPB1*51:01<br>DPB1*190:01<br>DRB1*04:192<br>DRB1*04:304<br>DQB1*02:139<br>DQB1*02:31<br>DRB1*03:135<br>DRB1*03:173<br>DQB1*03:408<br>DQB1*03:430+ |            |
| 3753   | *03:01:01G      | *04:01:01G |             |             |           |           | *02:01:01G | *03:01:01G |            |           |            | *04:01:01G | *04:02:01G  | SBT                                                                                                                                                                                                                                                                                                   |            |
| 3966   | *03:01          | *04:01     | 3*01:01     | 4*01:03     |           |           | *02:01     | *03:01     |            |           |            |            |             | SSP                                                                                                                                                                                                                                                                                                   |            |
| 4251   | *03:01:01G      | *04:01:01G | 3*01:01:02G | 4*01:01:01G | *03:03    | *05:01    | *02:01:01G | *03:01:01G | *01:03:01G | *01:03    | *04:01:01G | *04:02:01G | NGS         |                                                                                                                                                                                                                                                                                                       |            |
| 4337   | *03:01          | *04:01     |             |             |           |           | *02:01     | *03:01     |            |           | *04:01     | *04:02     | SSP SBT NGS |                                                                                                                                                                                                                                                                                                       |            |
| 5130   | *03:01          | *04:01     | 3*01:01     | 4*01:03     | *03:03    | *05:01    | *02:01     | *03:01     |            |           | *04:01     | *04:02     | SSO NGS     | DRB1*03:147                                                                                                                                                                                                                                                                                           |            |
| 5133   | *03:01:01       | *04:01:01  | 3*01:01:02  | 4*01:03:01  | *03:03:01 | *05:01:01 | *02:01:01  | *03:01:01  | *01:03:01  |           | *04:01:01  | *04:02:01  | NGS         | DPB1*126:01:01<br>DPB1*105:01:01                                                                                                                                                                                                                                                                      |            |
| 5219   | *03:01:01       | *04:01:01  |             |             |           |           | *02:01:01  | *03:01:01  |            |           | *04:01:01  | *04:02:01  | SSO NGS     |                                                                                                                                                                                                                                                                                                       |            |
| 5451   | *03:01:01       | *04:01:01  | 3*01:01:02  | 4*01:03:01  | *03:03:01 | *05:01:01 | *02:01:01  | *03:01P    | *01:03:01  | *01:03:01 | *04:01:01  | *04:02:01  | NGS         |                                                                                                                                                                                                                                                                                                       |            |
| 5488   | *03:01:01G      | *04:01:01  | 3*01:01:02  |             | *03:03:01 | *05:01:01 | *02:01:01  | *03:01:01G | *01:03:01  |           | *04:01:01  | *04:02:01  | SSO SBT NGS |                                                                                                                                                                                                                                                                                                       |            |
| 5642   | *03:01          | *04:01     |             |             |           |           | *02:01     | *03:01     |            |           |            |            |             | SSP SSO                                                                                                                                                                                                                                                                                               | DQB1*02:07 |
| 8001   | *03:01          | *04:01     | 3*01:01     | 4*01:03     | *03:03    | *05:01    | *02:01     | *03:01     | *01:03     |           | *04:01     | *04:02     | NGS         | DPB1*939:01<br>DQB1*03:276N                                                                                                                                                                                                                                                                           |            |
| 8021   | *03:01          | *04:01     | 3*01:01     | 4*01:03     | *03:03    | *05:01    | *02:01     | *03:01     | *01:03     |           | *04:01     | *04:02     | SSO NGS     |                                                                                                                                                                                                                                                                                                       |            |
| 8122   | *03:01          | *04:01     | 3*01:01     | 4*01:03     | *03:03    | *05:01    | *02:01     | *03:01     | *01:03     |           | *04:01     | *04:02     | NGS         | DPB1*665:01<br>DRB3*01:62<br>DPB1*126:01<br>DPB1*105:01<br>DPB1*1072                                                                                                                                                                                                                                  |            |

**Table 4: Individual laboratory results for B-cell #595 - Class I**

| Low resolution |       |     |       |          |           |     | High resolution |              |            |           |              |              |                   |                                                                                                                                                                                          |
|----------------|-------|-----|-------|----------|-----------|-----|-----------------|--------------|------------|-----------|--------------|--------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Center         | HLA-A |     | HLA-B |          | HLA-C     |     | HLA-A           |              | HLA-B      |           | HLA-C        |              | METHOD            | Other Alleles                                                                                                                                                                            |
| 230            |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | NGS               |                                                                                                                                                                                          |
| 278            | *01   | *68 | *08   | *40      | *03       | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       |                   |                                                                                                                                                                                          |
| 725            | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |              |            |           |              |              | SSO               |                                                                                                                                                                                          |
| 731            | *01   | *68 | *08   | *40      | *03       | *07 | *01:01          | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | NGS RT-PCR        |                                                                                                                                                                                          |
| 747            | *01   | *68 | *08   | *40      | *03       | *07 | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | SSP SSO NGS       |                                                                                                                                                                                          |
| 762            |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSO NGS           |                                                                                                                                                                                          |
| 771            | *01   | *68 | *08   | *40      | *03       | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSP SSO NGS       |                                                                                                                                                                                          |
| 792            | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSO NGS           |                                                                                                                                                                                          |
| 793            | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |              |            |           |              |              | SSP               |                                                                                                                                                                                          |
| 794            | *01   | *68 | *08   | *40      | *03       | *07 | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | SSP SSO NGS       |                                                                                                                                                                                          |
| 2344           |       |     |       |          |           |     | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | NGS               |                                                                                                                                                                                          |
| 2400           | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSO NGS           |                                                                                                                                                                                          |
| 2847           | *01   | *68 | *08   | *40      | *03       | *07 |                 |              |            |           |              |              | SSO               |                                                                                                                                                                                          |
| 3135           |       |     |       |          |           |     | *01:01P         | *68:01P      | *08:19N    | *40:01P   | *03:04P      | *07:01P      |                   |                                                                                                                                                                                          |
| 3224           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | NGS               |                                                                                                                                                                                          |
| 3511           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | NGS               |                                                                                                                                                                                          |
| 3519           | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSP NGS<br>RT-PCR |                                                                                                                                                                                          |
| 3753           |       |     |       |          |           |     | *01:01:01G      | *68:01:02G   | *08:01:01G | *40:01    | *03:04:01G   | *07:01:01G   | SBT               | A*01:17 A*36:04<br>A*01:26 A*68:119<br>B*40:07 A*01:28<br>A*01:88 A*01:98<br>A*68:03 A*68:65<br>A*68:41 A*68:84<br>A*68:91 A*68:113<br>B*40:279 B*40:25<br>B*40:199 B*40:328<br>A*01:221 |
| 3966           | *01   | *68 | *08   | *40      | *03       | *07 |                 |              |            |           |              |              | SSP               |                                                                                                                                                                                          |
| 4079           | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |              |            |           |              |              | SSO               | B*08N                                                                                                                                                                                    |
| 4251           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | NGS               |                                                                                                                                                                                          |
| 4337           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSP SBT NGS       |                                                                                                                                                                                          |
| 5130           | *01   | *68 | *08   | *40      | *03       | *07 | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSO NGS           | B*08:01                                                                                                                                                                                  |
| 5133           |       |     |       |          |           |     | *01:01:01:01    | *68:01:02:02 | *08:19N    | *40:01:02 | *03:04:01:02 | *07:01:01:01 | NGS               |                                                                                                                                                                                          |
| 5214           | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |              |            |           |              |              | RT-PCR            |                                                                                                                                                                                          |
| 5219           | *01   | *68 | *08   | *40      | *03       | *07 | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | SSO NGS           |                                                                                                                                                                                          |
| 5451           |       |     |       |          |           |     | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | NGS               |                                                                                                                                                                                          |
| 5462           | *01   | *68 | *08   | *40      | *03       | *07 |                 |              |            |           |              |              | RT-PCR            |                                                                                                                                                                                          |
| 5488           |       |     |       |          |           |     | *01:01:01       | *68:01:02    | *08:19N    | *40:01:02 | *03:04:01    | *07:01:01    | SSO SBT NGS       |                                                                                                                                                                                          |
| 5642           | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |              |            |           |              |              | SSP SSO           |                                                                                                                                                                                          |
| 6649           | *01   | *68 | *08   | *40(B60) |           |     |                 |              |            |           |              |              | SSO               |                                                                                                                                                                                          |
| 8001           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | NGS               |                                                                                                                                                                                          |
| 8021           |       |     |       |          |           |     | *01:01          | *68:01       | *08:19N    | *40:01    | *03:04       | *07:01       | SSO NGS           |                                                                                                                                                                                          |

| Table 4: Individual laboratory results for B-cell #595 - Class I |       |     |       |          |           |     |                 |        |         |        |        |        |        |               |
|------------------------------------------------------------------|-------|-----|-------|----------|-----------|-----|-----------------|--------|---------|--------|--------|--------|--------|---------------|
| Low resolution                                                   |       |     |       |          |           |     | High resolution |        |         |        |        |        |        |               |
| Center                                                           | HLA-A |     | HLA-B |          | HLA-C     |     | HLA-A           |        | HLA-B   |        | HLA-C  |        | METHOD | Other Alleles |
| 8029                                                             | *01   | *68 | *08   | *40      | *03       | *07 |                 |        |         |        |        |        |        |               |
| 8058                                                             | NT    | NT  | NT    | NT       | NT        | NT  | NT              | NT     | NT      | NT     | NT     | NT     | SSP    |               |
| 8068                                                             | *01   | *68 | *08   | *40      | *03       | *07 |                 |        |         |        |        |        | SSO    |               |
| 8122                                                             |       |     |       |          |           |     | *01:01          | *68:01 | *08:19N | *40:01 | *03:04 | *07:01 | NGS    |               |
| 8123                                                             | *01   | *68 | *08   | *40(B60) | *03(Cw10) | *07 |                 |        |         |        |        |        | RT-PCR |               |



**Table 5a: Individual laboratory results for B-cell #596 - Class II**

|        | Low resolution |     |           |           |      |     |          |          |      |     |            |     |             |               |  |
|--------|----------------|-----|-----------|-----------|------|-----|----------|----------|------|-----|------------|-----|-------------|---------------|--|
| Center | DRB1           |     | DRB3/4/5  |           | DQA1 |     | DQB1     |          | DPA1 |     | DPB1       |     | METHOD      | Other Alleles |  |
| 278    | *11            | *11 | 3*02      | 3*02      | *05  | *05 | *03      | *03      | *01  | *02 | *04(DP402) | *10 |             |               |  |
| 725    | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          |      |     |            |     | SSO         |               |  |
| 731    | *11            | *11 | 3*02      | NT        | *05  | *05 | *03      | *03      | *01  | *02 | *04        | *10 | NGS RT-PCR  |               |  |
| 747    | *11            | *11 | 3*02      | 3*02      | *05  | *05 | *03      | *03      | *01  | *02 | *04        | *10 | SSP SSO NGS |               |  |
| 771    | *11            |     |           |           | *05  |     | *03      |          |      |     | *04        | *10 | SSP SSO NGS |               |  |
| 792    | *11            | *11 | 3*02      | 3*02      | *05  | *05 | *03(DQ7) | *03(DQ7) | *01  | *02 | *04(DP402) | *10 | SSO NGS     |               |  |
| 793    | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          |      |     | *04(DP402) | *10 | SSP         |               |  |
|        |                |     |           |           |      |     |          |          |      |     |            |     | SSP SSO NGS |               |  |
| 794    | *11            |     | 3*02      |           | *05  |     | *03      |          | *01  | *02 | *04        | *10 | RT-PCR      |               |  |
| 2400   | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          | NT   | NT  | *04        | *10 | SSO NGS     |               |  |
| 2847   | *11            |     |           |           |      |     |          |          |      |     |            |     | SSO         |               |  |
|        |                |     |           |           |      |     |          |          |      |     |            |     | SSP NGS     |               |  |
| 3519   | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          | *01  | *02 | *04(DP402) | *10 | RT-PCR      |               |  |
| 3753   |                |     | 3*02      | 3*02      | *05  | *05 |          |          | *01  | *02 |            |     | SBT         |               |  |
| 4079   | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          | *01  | *02 | *04(DP402) | *10 | SSO         |               |  |
| 5130   | *11            | *11 | 3*02      | 3*02      | *05  | *05 | *03      | *03      |      |     | *04        | *10 | SSO NGS     |               |  |
| 5214   | *11            |     | 3*02      |           | *05  |     | *03(DQ7) |          | *01  | *02 | *04(DP402) | *10 | RT-PCR      |               |  |
| 5219   | *11            | *11 |           |           | *05  | *05 | *03      | *03      |      |     |            |     | SSO NGS     |               |  |
| 5462   | *11            |     | 3*02      |           | *05  |     | *03      |          | *01  | *02 | NT         | NT  | RT-PCR      |               |  |
| 5488   |                |     | 3*02      |           |      |     |          |          |      |     |            |     | SSO SBT NGS |               |  |
| 5642   | *11            |     | 3*PRESENT |           |      |     | *03(DQ7) |          |      |     |            |     | SSP SSO     |               |  |
| 6649   | *11            | *11 |           |           |      |     | *03(DQ7) | *03(DQ7) |      |     |            |     | SSO         |               |  |
| 8029   | *11            | *11 |           |           | *05  | *05 | *03      | *03      |      |     |            |     |             |               |  |
| 8058   | *11            | *13 | 3*PRESENT | 3*PRESENT |      |     | *03      | *03      |      |     |            |     | SSP         |               |  |
| 8068   | *11            | *11 |           |           | *05  | *05 | *03      | *03      |      |     |            |     | SSO         |               |  |
| 8123   | *11            | *11 | 3*02      | 3*02      | *05  | *05 | *03(DQ7) | *03(DQ7) | *01  | *02 | *04(DP402) | *10 | RT-PCR      |               |  |

**Table 5b: Individual laboratory results for B-cell #596 - Class II**

|        | High resolution |           |            |            |           |           |            |            |           |            |            |           |                       |                                                                                                         |
|--------|-----------------|-----------|------------|------------|-----------|-----------|------------|------------|-----------|------------|------------|-----------|-----------------------|---------------------------------------------------------------------------------------------------------|
| Center | DRB1            |           | DRB3/4/5   |            | DQA1      |           | DQB1       |            | DPA1      |            | DPB1       |           | METHOD                | Other Alleles                                                                                           |
| 230    | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01     | *03:01     | *01:03    | *02:01     | *04:02     | *10:01    | NGS                   |                                                                                                         |
| 278    | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01     | *03:01     | *01:03    | *02:01     | *416:01    | *10:01    |                       | DPB1*04:02                                                                                              |
| 731    | *11:04:01       | *11:04:01 |            |            |           |           | *03:01:01  | *03:01:01  |           |            | *04:02:01  | *10:01:01 | NGS RT-PCR            | DPB1*129:01<br>DQB1*03:297<br>DPB1*08:01<br>DQB1*03:419<br>DQB1*03:431<br>DQB1*03:297<br>DQB1*03:419    |
| 747    | *11:04:01       | *11:04:01 | 3*02:02:01 | 3*02:02:01 | *05:05:01 | *05:05:01 | *03:01     | *03:01     | *01:03:01 | *02:01:01  | *04:02:01  | *10:01:01 | SSP SSO NGS           |                                                                                                         |
| 762    | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | SSO NGS               |                                                                                                         |
| 771    | *11:04          |           |            |            |           |           | *03:01     |            |           |            | *04:02     | *10:01    | SSP SSO NGS           |                                                                                                         |
| 792    | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01     | *03:01     | *01:03    | *02:01     | *04:02     | *10:01    | SSO NGS               |                                                                                                         |
| 793    |                 |           |            |            | *05:05    |           |            |            |           |            | *04:02     | *10:01    | SSP                   |                                                                                                         |
| 794    | *11:04:01       |           | 3*02:02:01 |            | *05:05:01 |           | *03:01:01  |            | *01:03:01 | *02:01:01  | *04:02:01  | *10:01:01 | SSP SSO NGS<br>RT-PCR |                                                                                                         |
| 2344   | *11:04:01       | *11:04:01 | NT         | NT         | NT        | NT        | *03:01:01  | *03:01:01  | NT        | NT         | *04:02:01  | *10:01:01 | NGS                   |                                                                                                         |
| 2400   | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | NT        | NT         | *04:02:01G | *10:01    | SSO NGS               | DQB1*03:297<br>DQB1*03:419                                                                              |
| 3135   | *11:04:01       |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    |                       | DQA1*05:09                                                                                              |
| 3224   | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | NGS                   |                                                                                                         |
| 3511   | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01     | *03:01     | *01:03    | *02:01     | *04:02     | *10:01    | NGS                   |                                                                                                         |
| 3519   | *11:04          |           | 3*02:02P   |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | SSP NGS<br>RT-PCR     |                                                                                                         |
| 3753   | *11:04          | *11:04    |            |            |           |           | *03:01:01G | *03:01:01G |           |            | *04:02     | *10:01    | SBT                   | DRB1*11:104<br>DQB1*03:256<br>DQB1*03:354N<br>DRB1*11:201<br>DRB1*11:210<br>DQB1*03:389<br>DQB1*03:430+ |
| 3966   | *11:04          | *11:04    | 3*02:02    | 3*02:02    |           |           | *03:01     | *03:01     |           |            |            |           | SSP                   |                                                                                                         |
| 4251   | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01:01G | *03:01:01G | *01:03    | *02:01:01G | *04:02     | *10:01    | NGS                   |                                                                                                         |
| 4337   | *11:04          | *11:04    |            |            |           |           | *03:01     | *03:01     |           |            | *04:02     | *10:01    | SSP SBT NGS           |                                                                                                         |
| 5130   | *11:04          | *11:04    | 3*02:02    | 3*02:02    | *05:05    | *05:05    | *03:01     | *03:01     |           |            | *04:02     | *10:01    | SSO NGS               | DQB1*03:358N                                                                                            |
| 5133   | *11:04:01       |           | 3*02:02:01 |            | *05:05:01 |           | *03:01:01  |            | *01:03:01 | *02:01:01  | *04:02:01  | *10:01:01 | NGS                   |                                                                                                         |
| 5219   | *11:04:01       | *11:04:01 |            |            |           |           | *03:01:01  | *03:01:01  |           |            | *04:02:01  | *10:01:01 | SSO NGS               |                                                                                                         |
| 5451   | *11:04:01       | *11:04:01 | 3*02:02:01 | 3*02:02:01 | *05:05:01 | *05:05:01 | *03:01:01  | *03:01:01  | *01:03:01 | *02:01:01  | *04:02:01  | *10:01:01 | NGS                   |                                                                                                         |
| 5488   | *11:04:01       |           |            |            | *05:05:01 |           | *03:01:01  |            | *01:03:01 | *02:01:01  | *04:02:01  | *10:01:01 | SSO SBT NGS           |                                                                                                         |
| 5642   | *11:04          |           |            |            |           |           | *03:01     |            |           |            |            |           | SSP SSO               |                                                                                                         |
| 8001   | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | NGS                   | DQB1*03:276N<br>DQB1*03:431                                                                             |
| 8021   | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | SSO NGS               |                                                                                                         |
| 8122   | *11:04          |           | 3*02:02    |            | *05:05    |           | *03:01     |            | *01:03    | *02:01     | *04:02     | *10:01    | NGS                   | DQB1*03:276N                                                                                            |

**Table 6: Individual laboratory results for B-cell #596 - Class I**

| Low resolution |       |     |       |     |       |     | High resolution |              |              |            |              |              |                       |                                                                                                                                      |
|----------------|-------|-----|-------|-----|-------|-----|-----------------|--------------|--------------|------------|--------------|--------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Center         | HLA-A |     | HLA-B |     | HLA-C |     | HLA-A           |              | HLA-B        |            | HLA-C        |              | METHOD                | Other Alleles                                                                                                                        |
| 230            |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | NGS                   |                                                                                                                                      |
| 278            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       |                       | DPB1*04:02                                                                                                                           |
| 725            | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | SSO                   |                                                                                                                                      |
| 731            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01:01    | *35:02       | *38:01:01  | *04:01:01    | *12:03:01    | NGS RT-PCR            | DPB1*129:01<br>DQB1*03:297<br>DPB1*08:01<br>DQB1*03:419<br>DQB1*03:431                                                               |
| 747            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01:01    | *35:02:01    | *38:01:01  | *04:01:01    | *12:03:01    | SSP SSO NGS           | DQB1*03:297<br>DQB1*03:419                                                                                                           |
| 762            |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSO NGS               |                                                                                                                                      |
| 771            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSP SSO NGS           |                                                                                                                                      |
| 792            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSO NGS               |                                                                                                                                      |
| 793            | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | SSP                   |                                                                                                                                      |
| 794            | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01:01    | *35:02:01    | *38:01:01  | *04:01:01    | *12:03:01    | SSP SSO NGS<br>RT-PCR |                                                                                                                                      |
| 2344           |       |     |       |     |       |     | *02:09          | *03:01:01    | *35:02:01    | *38:01:01  | *04:01:01    | *12:03:01    | NGS                   |                                                                                                                                      |
| 2400           | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSO NGS               | DQB1*03:297<br>DQB1*03:419                                                                                                           |
| 2847           | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | SSO                   |                                                                                                                                      |
| 3135           |       |     |       |     |       |     | *02:01P         | *03:01P      | *35:02P      | *38:01:01G | *04:01:01G   | *12:03P      |                       | DQA1*05:09                                                                                                                           |
| 3224           |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | NGS                   |                                                                                                                                      |
| 3511           |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | NGS                   |                                                                                                                                      |
| 3519           | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSP NGS<br>RT-PCR     |                                                                                                                                      |
| 3753           |       |     |       |     |       |     | *02:09          | *03:01:01G   | *35:02       | *38:01:01G | *04:01:01G   | *12:03:01G   | SBT                   | DRB1*11:104<br>DQB1*03:256<br>DQB1*03:354N<br>DRB1*11:201<br>DRB1*11:210<br>DQB1*03:389<br>DQB1*03:430<br>DRB1*11:220<br>DRB1*11:261 |
| 3966           | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | SSP                   |                                                                                                                                      |
| 4079           | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | SSO                   |                                                                                                                                      |
| 4251           |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | NGS                   |                                                                                                                                      |
| 4337           |       |     |       |     |       |     | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSP SBT NGS           |                                                                                                                                      |
| 5130           | *02   | *03 | *35   | *38 | *04   | *12 | *02:09          | *03:01       | *35:02       | *38:01     | *04:01       | *12:03       | SSO NGS               | DQB1*03:358N                                                                                                                         |
| 5133           |       |     |       |     |       |     | *02:09:01:01    | *03:01:01:01 | *35:02:01:02 | *38:01:01  | *04:01:01:06 | *12:03:01:01 | NGS                   |                                                                                                                                      |
| 5214           | *02   | *03 | *35   | *38 | *04   | *12 |                 |              |              |            |              |              | RT-PCR                |                                                                                                                                      |
| 5219           | *02   | *03 | *35   | *38 | *04   | *12 | *02:09:01:01    | *03:01:01    | *35:02:01    | *38:01:01  | *04:01:01    | *12:03:01    | SSO NGS               |                                                                                                                                      |
| 5451           |       |     |       |     |       |     | *02:09          | *03:01:01    | *35:02:01    | *38:01:01  | *04:01:01    | *12:03:01    | NGS                   |                                                                                                                                      |

| Table 6: Individual laboratory results for B-cell #596 - Class I |       |     |       |     |       |     |                 |           |           |           |           |               |
|------------------------------------------------------------------|-------|-----|-------|-----|-------|-----|-----------------|-----------|-----------|-----------|-----------|---------------|
| Low resolution                                                   |       |     |       |     |       |     | High resolution |           |           |           |           |               |
| Center                                                           | HLA-A |     | HLA-B |     | HLA-C |     | HLA-A           |           | HLA-B     |           | HLA-C     |               |
|                                                                  |       |     |       |     |       |     |                 |           |           |           | METHOD    | Other Alleles |
| 5462                                                             | *02   | *03 | *35   | *38 | *04   | *12 |                 |           |           |           |           |               |
| 5488                                                             |       |     |       |     |       |     | *02:09:01       | *03:01:01 | *35:02:01 | *38:01:01 | *04:01:01 | *12:03:01     |
| 5642                                                             | *02   | *03 | *35   | *38 | *04   | *12 |                 |           |           |           |           |               |
| 6649                                                             | *02   | *03 | *35   | *38 |       |     |                 |           |           |           |           |               |
|                                                                  |       |     |       |     |       |     |                 |           |           |           |           |               |
| 8001                                                             |       |     |       |     |       |     | *02:09          | *03:01    | *35:02    | *38:01    | *04:01    | *12:03        |
| 8021                                                             |       |     |       |     |       |     | *02:09          | *03:01    | *35:02    | *38:01    | *04:01    | *12:03        |
| 8029                                                             | *02   | *03 | *35   | *38 | *04   | *12 |                 |           |           |           |           |               |
| 8058                                                             | NT    | NT  | NT    | NT  | NT    | NT  |                 |           |           |           |           |               |
| 8068                                                             | *02   | *03 | *35   | *38 | *04   | *12 |                 |           |           |           |           |               |
|                                                                  |       |     |       |     |       |     |                 |           |           |           |           |               |
| 8122                                                             |       |     |       |     |       |     | *02:09          | *03:01    | *35:02    | *38:01    | *04:01    | *12:03        |
| 8123                                                             | *02   | *03 | *35   | *38 | *04   | *12 |                 |           |           |           |           |               |
|                                                                  |       |     |       |     |       |     |                 |           |           |           |           |               |