

# UCLA INTERNATIONAL HLA DNA EXCHANGE—140TH SUMMARY



NOVEMBER 09, 2016

ANDREA ALVAREZ AND TIMOTHY SCHWEICKERT  
J. MICHAEL CECKA, PH.D, DAVID GJERTSON, PH.D, AND ELAINE F. REED, PH.D

| DNA Sample |      |
|------------|------|
| #861       | #864 |
| #862       | #865 |
| #863       | #866 |

## DNA #861 HISPANIC

The consensus type for this sample from a Hispanic donor is A\*24:02-A\*26:01-B\*15:01-B\*15:09-C\*01:02-C\*07:04-DRB1\*04:03-DRB1\*04:04-DRB4\*01:03-DQA1\*03:01-DQB1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*04:02.

This sample was previously sent in Exchange #36 as DNA #240 (1999). In 1999, B\*15:01 was assigned by 88% of labs. In this present typing, B\*15:01 was assigned by 100% of the labs reporting at high resolution.

The likely class II associations in this cell are DRB1\*04:03-DQB1\*03:02 and DRB1\*04:04-DQB1\*03:01, with respective frequencies of HF=0.00375 and HF=0.00013, seen exclusively in Caucasians, according to the NMDP Bioinformatics website <https://bioinformatics.bethematchclinical.org/>.

The results for DNA #861 are summarized in Table 1 and individual laboratory results are listed in Tables 7 –9.

## DNA #862 UNKNOWN

The consensus type for this sample from an unknown donor is A\*02:02-A\*29:02-B\*44:03-B\*81:01-C\*08:04-C\*16:01-DRB1\*07:01-DRB1\*12:01-DRB3\*01:01-DRB4\*01:01-DQA1\*01:05-DQA1\*02:01-DQB1\*02:02-DQB1\*05:01-DPA1\*02:01-DPA1\*03:01-DPB1\*11:01-DPB1\*105:01.

This sample was previously sent in Exchange #55 as DNA #355 (2002). In this present typing, 99% of the labs reporting at high resolution are in agreement. Which confirms the previous consensus.

The likely class I associations in this cell are A\*02:02-B\*81:01 and A\*29:02-B\*44:03, with respective frequencies of HF=0.00116 and HF=0.01077 seen in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #862 are summarized in Table 2 and individual laboratory results are listed in Tables 10-12.

## DNA #863 CAUCASIAN

The consensus type for this sample from a Caucasian donor is A\*02:13-A\*03:01-B\*07:02-B\*40:02-C\*03:04-C\*07:02-DRB1\*07:01-DRB1\*14:02-DRB3\*01:01-DRB4\*01:03:01:02N-DQA1\*02:01-DQA1\*05:03-DQB1\*03:01-DQB1\*03:03-DPA1\*01:03-DPA1\*02:02-DPB1\*04:01-DPB1\*05:01.

The likely class II associations in this cell are DRB1\*07:01-DQB1\*03:03 and DRB1\*14:02-DQB1\*03:01, with respective frequencies of HF=0.01484 and HF=0.01854 seen in Hispanics, according to the NMDP Bioinformatics website.

The results for DNA #863 are summarized in Table 3 and individual laboratory results are listed in Tables 13-15.



| DNA Sample |      |
|------------|------|
| #861       | #864 |
| #862       | #865 |
| #863       | #866 |

**DNA #864 BLACK**

The consensus type for this sample from a Black donor is A\*02:01-A\*33:03-B\*35:01-B\*52:01-C\*04:01-C\*16:01-DRB1\*10:01-DRB1\*13:03-DRB3\*01:01-DQA1\*01:05-DQA1\*05:05-DQB1\*03:01-DQB1\*05:01-DPA1\*01:03-DPA1\*02:02-DPB1\*01:01-DPB1\*104:01.

The likely class I associations in this cell are A\*02:01-B\*52:01-DRB1\*13:03 and A\*33:03-B\*35:01-DRB1\*10:01, with respective frequencies of HF=0.00100 and HF=0.00110, seen exclusively in African Americans, according to the NMDP Bioinformatics website.

The results for DNA #864 are summarized in Table 4 and individual laboratory results are listed in Tables 16-18.

**DNA #865 ASIAN**

The consensus type for this sample from an Asian donor is A\*01:01-A\*24:02:01:02L-B\*44:03-B\*51:01-C\*07:06-C\*15:04-DRB1\*11:01-DRB1\*15:01-DRB3\*02:02-DRB5\*01:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01-DPB1\*104:01.

The likely class II associations in this cell are DRB1\*11:01-DQB1\*03:01 and DRB1\*15:01-DQB1\*06:02, with respective frequencies of HF=0.05465 and HF=0.04146, seen in Asians, according to the NMDP Bioinformatics website.

The results for DNA #865 are summarized in Table 5 and individual laboratory results are listed in Tables 19-21.

**DNA #866 ASIAN**

The consensus type for this sample from an Asian donor is A\*01:01-A\*33:03-B\*27:05-B\*40:01-C\*02:02-C\*07:02-DRB1\*04:05-DRB1\*15:01-DRB4\*01:03-DRB5\*01:01-DQA1\*01:02-DQA1\*03:03-DQB1\*03:02-DQB1\*06:02-DPA1\*01:03-DPB1\*02:01:02G-DPB1\*04:02:01G.

The likely associations in this cell are A\*01:01-B\*27:05-C\*02:02 and A\*33:03-B\*40:01-C\*07:02, with respective frequencies of HF=0.00024 and HF=0.00084, seen exclusively in Asians, according to the NMDP Bioinformatics website.

The results for DNA #866 are summarized in Table 6 and individual laboratory results are listed in Tables 22-24.

**ACKNOWLEDGMENTS:**

The UCLA Immunogenetics Center expresses its thanks to the following for contributing to this Exchange: One Legacy and all organ and tissue donors and families for giving the gift of knowledge by their generous donation to the education and advancement of the study of HLA.

We'd also like to thank the 22 participants reporting their NGS results (See Tables 7, 10, 13, 16, 19, 22). Participants using NGS are encouraged to share their findings.



**Table 2. Summary of the 140th DNA Exchange (DNA #862)**

| A                          |         |                  |         | B                          |         |                  |         | C                          |         |                |         |
|----------------------------|---------|------------------|---------|----------------------------|---------|------------------|---------|----------------------------|---------|----------------|---------|
| 77 labs High / 84 labs Low |         | % (n)            |         | 75 labs High / 84 labs Low |         | % (n)            |         | 78 labs High / 75 labs Low |         | % (n)          |         |
| A*02:02:01                 | 25(19)  | A*29:02:01:01    | 13(10)  | B*44:03:01:01              | 11(8)   | B*81:01:01G      | 25(19)  | C*08:04:01                 | 19(15)  | C*16:01:01     | 23(17)  |
| A*02:02                    | 75(58)  | A*29:02:01       | 8 (6)   | B*44:03:02                 | 1 (1)   | B*81:01P         | 9 (7)   | C*08:04                    | 80(62)  | C*16:01:01G    | 7 (5)   |
| A*02                       | 100(84) | A*29:02:01G      | 7 (5)   | B*44:03:01                 | 9 (7)   | B*81:01          | 65(49)  | C*08:01                    | 1 (1)   | C*16:01P       | 1 (1)   |
|                            |         | A*29:02P         | 1 (1)   | B*44:03:01G                | 7 (5)   | B*81             | 99(83)  | C*08                       | 99(73)  | C*16:01        | 69(51)  |
|                            |         | A*29:02          | 68(52)  | B*44:03P                   | 1 (1)   | B*07             | 1 (1)   | C*03                       | 1 (1)   | C*16           | 99(74)  |
|                            |         | A*29:01          | 3 (2)   | B*44:03                    | 71(53)  |                  |         |                            |         | C*07           | 1 (1)   |
|                            |         | A*29             | 100(84) | B*44                       | 100(84) |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
| DRB1                       |         |                  |         | DRB3/4/5                   |         |                  |         | DQA1                       |         |                |         |
| 80 labs High / 85 labs Low |         | % (n)            |         | 39 labs High / 46 labs Low |         | % (n)            |         | 45 labs High / 61 labs Low |         | % (n)          |         |
| DRB1*07:01:01:01           | 4 (3)   | DRB1*12:01:01    | 12(9)   | DRB3*03:01:01:02:01        | 3 (1)   | DRB4*01:01:01:01 | 11(4)   | DQA1*01:05:01              | 17(7)   | DQA1*02:01:01  | 11(5)   |
| DRB1*07:01:01              | 11(9)   | DRB1*12:01:01G   | 35(27)  | DRB3*03:01:01:02           | 15(6)   | DRB4*01:01:01    | 13(5)   | DQA1*01:01:01G             | 10(4)   | DQA1*02:01     | 89(40)  |
| DRB1*07:01:01G             | 16(13)  | DRB1*12:01P      | 8 (6)   | DRB3*03:01:01:02G          | 21(8)   | DRB4*01:03:01    | 3 (1)   | DQA1*01:01P                | 7 (3)   | DQA1*02        | 100(60) |
| DRB1*07:01P                | 4 (3)   | DRB1*12:01       | 46(36)  | DRB3*03:01:01P             | 3 (1)   | DRB4*01:01:01G   | 18(7)   | DQA1*01:05                 | 59(24)  |                |         |
| DRB1*07:01                 | 65(52)  | DRB1*12          | 99(84)  | DRB3*03:01:01              | 59(23)  | DRB4*01:01       | 55(21)  | DQA1*01:04                 | 2 (1)   |                |         |
| DRB1*07                    | 100(85) | DRB1*11          | 1 (1)   | DRB3*03:01                 | 76(35)  | DRB4*01          | 76(35)  | DQA1*01:01                 | 5 (2)   |                |         |
|                            |         |                  |         | DRB3*03PRESENT             | 24(11)  | DRB4*PRESENT     | 24(11)  | DQA1*01                    | 100(61) |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
| DQB1                       |         |                  |         | DPA1                       |         |                  |         | DPB1                       |         |                |         |
| 77 labs High / 80 labs Low |         | % (n)            |         | 23 labs High / 31 labs Low |         | % (n)            |         | 58 labs High / 42 labs Low |         | % (n)          |         |
| DQB1*02:02:01              | 21(16)  | DQB1*05:01:01:02 | 4 (3)   | DPA1*02:01:01              | 23 (5)  | DPA1*03:01       | 96(22)  | DPB1*11:01:01              | 29(17)  | DPB1*04:02:01G | 11(6)   |
| DQB1*02:01:01G             | 5 (4)   | DQB1*05:01:01:01 | 3 (2)   | DPA1*02:01                 | 77(17)  | DPA1*02:01       | 4 (1)   | DPB1*11:01                 | 69(40)  | DPB1*04:02P    | 5 (3)   |
| DQB1*02:01P                | 3 (2)   | DQB1*05:01:01    | 13(10)  | DPA1*02                    | 100(31) | DPA1*03          | 100(31) | DPB1*11:01                 | 2 (1)   | DPB1*105:01    | 79(45)  |
| DQB1*02:02                 | 71(55)  | DQB1*05:01:01G   | 5 (4)   |                            |         |                  |         | DPB1*11                    | 100(42) | DPB1*04:02     | 5 (3)   |
| DQB1*02                    | 100(80) | DQB1*05:01P      | 3 (2)   |                            |         |                  |         |                            |         | DPB1*105       | 83(33)  |
|                            |         | DQB1*05:01       | 72(55)  |                            |         |                  |         |                            |         | DPB1*04(DP402) | 18(7)   |
|                            |         | DQB1*05          | 100(80) |                            |         |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |
|                            |         |                  |         |                            |         |                  |         |                            |         |                |         |

**Table 3. Summary of the 140th DNA Exchange (DNA #863)**

| A                          |         |               |         | B                          |         |             |         | C                          |        |               |        |
|----------------------------|---------|---------------|---------|----------------------------|---------|-------------|---------|----------------------------|--------|---------------|--------|
| 74 labs High / 84 labs Low |         | % (n)         |         | 73 labs High / 84 labs Low |         | % (n)       |         | 68 labs High / 74 labs Low |        | % (n)         |        |
| A*02:13                    | 99(73)  | A*03:01:01:01 | 12(9)   | B*07:02:01                 | 21(15)  | B*40:02:01  | 22(16)  | C*03:04:01:02              | 4 (3)  | C*07:02:01:03 | 8 (6)  |
| A*02:01                    | 1 (1)   | A*03:01:01    | 8 (6)   | B*07:02:01G                | 18(13)  | B*40:02:01G | 21(15)  | C*03:04:01:01              | 4 (3)  | C*07:02:01    | 8 (6)  |
| A*02                       | 100(84) | A*03:01:01G   | 7 (5)   | B*07:02P                   | 3 (2)   | B*40:02P    | 3 (2)   | C*03:04:01                 | 10(7)  | C*07:02:01G   | 22(16) |
|                            |         | A*03:01       | 73(53)  | B*07:02                    | 59(43)  | B*40:02     | 54(39)  | C*03:04:01G                | 10(7)  | C*07:02P      | 3 (2)  |
|                            |         | A*03          | 100(84) | B*07                       | 100(84) | B*40        | 100(84) | C*03:04P                   | 1 (1)  | C*07:02       | 57(41) |
|                            |         |               |         |                            |         |             |         | C*03:04                    | 66(47) | C*07:01       | 1 (1)  |
|                            |         |               |         |                            |         |             |         | C*03:02                    | 4 (3)  | C*07          | 99(73) |
|                            |         |               |         |                            |         |             |         | C*03                       | 99(73) | C*16          | 1 (1)  |
|                            |         |               |         |                            |         |             |         | C*08                       | 1 (1)  |               |        |

  

| DRB1                       |         |               |         | DRB3/4/5                   |        |                   |        | DQA1                       |         |                |         |
|----------------------------|---------|---------------|---------|----------------------------|--------|-------------------|--------|----------------------------|---------|----------------|---------|
| 81 labs High / 83 labs Low |         | % (n)         |         | 43 labs High / 42 labs Low |        | % (n)             |        | 42 labs High / 57 labs Low |         | % (n)          |         |
| DRB1*07:01:01:01           | 4 (3)   | DRB1*14:02:01 | 20(16)  | DRB3*01:01:02:01           | 6 (2)  | DRB4*01:03:01:02N | 49(21) | DQA1*02:01:01              | 12(5)   | DQA1*05:01:01G | 5 (2)   |
| DRB1*07:01:01              | 11(9)   | DRB1*14:02    | 80(65)  | DRB3*01:01:02              | 14(5)  | DRB4*01:03:01     | 2 (1)  | DQA1*02:01                 | 88(37)  | DQA1*05:01P    | 5 (2)   |
| DRB1*07:01:01G             | 13(10)  | DRB1*14       | 100(82) | DRB3*01:01:02G             | 22(8)  | DRB4*01:01:01G    | 12(5)  | DQA1*02                    | 100(56) | DQA1*05:03     | 90(34)  |
| DRB1*07:01P                | 4 (3)   |               |         | DRB3*01:01                 | 58(21) | DRB4*01:03N       | 33(14) |                            |         | DQA1*05        | 100(57) |
| DRB1*07:01                 | 68(54)  |               |         | DRB3*01                    | 71(30) | DRB4*01:03        | 2 (1)  |                            |         |                |         |
| DRB1*07                    | 100(83) |               |         | DRB3*PRESENT               | 29(12) | DRB4*01:01        | 2 (1)  |                            |         |                |         |
|                            |         |               |         |                            |        | DRB4*01N          | 41(17) |                            |         |                |         |
|                            |         |               |         |                            |        | DRB4*01           | 29(12) |                            |         |                |         |
|                            |         |               |         |                            |        | DRB4*NULL         | 12 (5) |                            |         |                |         |
|                            |         |               |         |                            |        | DRB4*PRESENT      | 19(8)  |                            |         |                |         |

  

| DQB1                       |         |                  |         | DPA1                       |        |               |         | DPB1                       |         |                |         |
|----------------------------|---------|------------------|---------|----------------------------|--------|---------------|---------|----------------------------|---------|----------------|---------|
| 77 labs High / 78 labs Low |         | % (n)            |         | 20 labs High / 29 labs Low |        | % (n)         |         | 55 labs High / 41 labs Low |         | % (n)          |         |
| DQB1*03:01:01:01           | 11(8)   | DQB1*03:03:02:01 | 12(9)   | DPA1*01:03:01:04           | 10(2)  | DPA1*02:02:02 | 33(6)   | DPB1*04:01:01:01           | 7 (4)   | DPB1*05:01:01  | 20(11)  |
| DQB1*03:01:01              | 9 (7)   | DQB1*03:03:02    | 8 (6)   | DPA1*01:03:01              | 20(4)  | DPA1*02:02P   | 6 (1)   | DPB1*04:01:01              | 11(6)   | DPB1*05:01:01G | 14(8)   |
| DQB1*03:01:01G             | 5 (4)   | DQB1*03:03:02G   | 7 (5)   | DPA1*01:03                 | 60(12) | DPA1*02:02    | 50(9)   | DPB1*04:01:01G             | 16(9)   | DPB1*05:01P    | 14(8)   |
| DQB1*03:01P                | 1 (1)   | DQB1*03:03P      | 1 (1)   | DPA1*02:01                 | 10(2)  | DPA1*03:02    | 11(2)   | DPB1*04:01P                | 15(8)   | DPB1*05:01     | 52(29)  |
| DQB1*03:01                 | 74(56)  | DQB1*03:03       | 73(56)  | DPA1*01                    | 97(28) | DPA1*02       | 100(29) | DPB1*04:01                 | 49(27)  | DPB1*05        | 100(40) |
| DQB1*03                    | 100(78) | DQB1*03          | 100(78) | DPA1*03                    | 3 (1)  |               |         | DPB1*09:01                 | 2 (1)   |                |         |
|                            |         |                  |         |                            |        |               |         | DPB1*04(DP401)             | 100(39) |                |         |
|                            |         |                  |         |                            |        |               |         |                            |         |                |         |
|                            |         |                  |         |                            |        |               |         |                            |         |                |         |

**Table 4. Summary of the 140th DNA Exchange (DNA #864)**

| A                          |         |                  |         | B                          |         |               |         | C                          |         |                |         |
|----------------------------|---------|------------------|---------|----------------------------|---------|---------------|---------|----------------------------|---------|----------------|---------|
| 68 labs High / 81 labs Low |         | % (n)            |         | 72 labs High / 80 labs Low |         | % (n)         |         | 68 labs High / 71 labs Low |         | % (n)          |         |
| A*02:01:01:01              | 12(8)   | A*33:03:01       | 25(17)  | B*35:01:01:02              | 3 (2)   | B*52:01:02    | 25(18)  | C*04:01:01:01              | 10(7)   | C*16:01:01     | 22(15)  |
| A*02:01:01                 | 7 (5)   | A*33:03:01G      | 6 (4)   | B*35:01:01:01              | 2 (1)   | B*52:01:01G   | 1 (1)   | C*04:01:01                 | 6 (4)   | C*16:01:01G    | 9 (6)   |
| A*02:01:01G                | 12(8)   | A*33:03P         | 2 (1)   | B*35:01:01                 | 13(9)   | B*52:01P      | 1 (1)   | C*04:01:01G                | 28(19)  | C*16:01P       | 2 (1)   |
| A*02:01P                   | 2 (1)   | A*33:03          | 63(43)  | B*35:01:01G                | 22(15)  | B*52:01       | 72(52)  | C*04:01P                   | 5 (3)   | C*16:01        | 68(46)  |
| A*02:01                    | 68(46)  | A*33:01          | 4 (3)   | B*35:01P                   | 3 (2)   | B*52          | 100(78) | C*04:01                    | 51(34)  | C*16           | 100(71) |
| A*02                       | 100(81) | A*33             | 99(80)  | B*35:01                    | 57(38)  |               |         | C*04                       | 100(71) |                |         |
|                            |         | A*02             | 1 (1)   | B*35                       | 100(80) |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
| DRB1                       |         |                  |         | DRB3/4/5                   |         |               |         | DQA1                       |         |                |         |
| 75 labs High / 82 labs Low |         | % (n)            |         | 34 labs High / 40 labs Low |         | % (n)         |         | 35 labs High / 55 labs Low |         | % (n)          |         |
| DRB1*10:01:01              | 25(18)  | DRB1*13:03:01    | 24(18)  | DRB3*01:01:02:01           | 3 (1)   |               |         | DQA1*01:05:01              | 17(6)   | DQA1*05:05:01  | 24(8)   |
| DRB1*10:01P                | 1 (1)   | DRB1*13:03P      | 1 (1)   | DRB3*01:01:02              | 18(6)   |               |         | DQA1*01:01:01G             | 11(4)   | DQA1*05:01:01G | 9 (3)   |
| DRB1*10:01                 | 74(54)  | DRB1*13:03       | 73(55)  | DRB3*01:01:02G             | 24(8)   |               |         | DQA1*01:01P                | 9 (3)   | DQA1*05:01P    | 9 (3)   |
| DRB1*10                    | 100(82) | DRB1*13:01       | 1 (1)   | DRB3*01:01                 | 56(19)  |               |         | DQA1*01:05                 | 57(20)  | DQA1*05:05     | 59(20)  |
|                            |         | DRB1*13          | 99(80)  | DRB3*01                    | 73(29)  |               |         | DQA1*01:04                 | 3(1)    | DQA1*05        | 100(55) |
|                            |         | DRB1*11          | 1 (1)   | DRB3*PRESENT               | 28(11)  |               |         | DQA1*01:01                 | 3 (1)   |                |         |
|                            |         |                  |         |                            |         |               |         | DQA1*01                    | 100(55) |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
| DQB1                       |         |                  |         | DPA1                       |         |               |         | DPB1                       |         |                |         |
| 70 labs High / 75 labs Low |         | % (n)            |         | 21 labs High / 30 labs Low |         | % (n)         |         | 53 labs High / 37 labs Low |         | % (n)          |         |
| DQB1*03:01:01:03           | 4 (3)   | DQB1*05:01:01:02 | 4 (3)   | DPA1*01:03:01:02           | 5 (1)   | DPA1*02:02:02 | 33(6)   | DPB1*01:01:01              | 28(15)  | DPB1*03:01:01G | 15(8)   |
| DQB1*03:01:01:02           | 1 (1)   | DQB1*05:01:01:01 | 1 (1)   | DPA1*01:03:01              | 24(5)   | DPA1*02:02P   | 6 (1)   | DPB1*01:01:01G             | 13(7)   | DPB1*03:01P    | 12(6)   |
| DQB1*03:01:01:01           | 1 (1)   | DQB1*05:01:01    | 13(9)   | DPA1*01:03                 | 62(13)  | DPA1*02:02    | 50(9)   | DPB1*01:01P                | 9 (5)   | DPB1*104:01    | 56(29)  |
| DQB1*03:01:01              | 12(8)   | DQB1*05:01:01G   | 6 (4)   | DPA1*02:01                 | 10(2)   | DPA1*03:02    | 11(2)   | DPB1*01:01                 | 47(25)  | DPB1*15:01     | 2 (1)   |
| DQB1*03:01:01G             | 6 (4)   | DQB1*05:01P      | 3 (2)   | DPA1*01                    | 97(29)  | DPA1*02       | 100(30) | DPB1*78:01                 | 2 (1)   | DPB1*03:01     | 15(8)   |
| DQB1*03:01P                | 3 (2)   | DQB1*05:01       | 73(51)  | DPA1*03                    | 3 (1)   |               |         | DPB1*01                    | 100(37) | DPB1*104       | 33(12)  |
| DQB1*03:01                 | 73(50)  | DQB1*05          | 100(75) |                            |         |               |         |                            |         | DPB1*03        | 67(24)  |
| DQB1*03                    | 100(75) |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |
|                            |         |                  |         |                            |         |               |         |                            |         |                |         |

**Table 5. Summary of the 140th DNA Exchange (DNA #865)**

| A                          |        | B                          |         | C                          |         |             |         |             |         |            |         |
|----------------------------|--------|----------------------------|---------|----------------------------|---------|-------------|---------|-------------|---------|------------|---------|
| 72 labs High / 79 labs Low | % (n)  | 69 labs High / 79 labs Low | % (n)   | 72 labs High / 69 labs Low | % (n)   |             |         |             |         |            |         |
| A*01:01:01:01              | 23(16) | A*24:02:01:02L             | 47(34)  | B*44:03:02                 | 23(16)  | B*51:01:01  | 19(13)  | C*07:01:01G | 27(18)  | C*15:04:01 | 19(14)  |
| A*01:01:01                 | 7 (5)  | A*24:02:01                 | 4 (3)   | B*44:03P                   | 1 (1)   | B*51:01:01G | 23(16)  | C*07:01P    | 2 (1)   | C*15:04    | 78(56)  |
| A*01:01:01G                | 7 (5)  | A*24:02:01G                | 10(7)   | B*44:03                    | 75(52)  | B*51:01P    | 3 (2)   | C*07:06     | 63(43)  | C*15:09    | 1 (1)   |
| A*01:01P                   | 1 (1)  | A*02:01:01G                | 1 (1)   | B*44                       | 100(79) | B*51:01     | 55(38)  | C*07:18     | 3 (2)   | C*15:01    | 1 (1)   |
| A*01:01                    | 61(43) | A*24:02P                   | 1 (1)   |                            |         | B*51        | 100(79) | C*07:01     | 6 (4)   | C*15       | 100(68) |
| A*01                       | 99(78) | A*24:02                    | 36(26)  |                            |         |             |         | C*07        | 100(69) |            |         |
| A*02                       | 1 (1)  | A*24                       | 100(78) |                            |         |             |         |             |         |            |         |
|                            |        |                            |         |                            |         |             |         |             |         |            |         |
|                            |        |                            |         |                            |         |             |         |             |         |            |         |

| DRB1                       |        | DRB3/4/5                   |         | DQA1                       |        |                |        |                  |         |                  |         |
|----------------------------|--------|----------------------------|---------|----------------------------|--------|----------------|--------|------------------|---------|------------------|---------|
| 72 labs High / 80 labs Low | % (n)  | 33 labs High / 41 labs Low | % (n)   | 34 labs High / 55 labs Low | % (n)  |                |        |                  |         |                  |         |
| DRB1*11:01:01              | 19(14) | DRB1*15:01:01:01           | 4 (3)   | DRB3*02:02:01:02           | 6 (2)  | DRB5*01:01:01  | 22(7)  | DQA1*01:02:01:03 | 6 (2)   | DQA1*05:05:01:02 | 6 (2)   |
| DRB1*11:01:01G             | 11(8)  | DRB1*15:01:01              | 13(9)   | DRB3*02:02:01              | 12(4)  | DRB5*01:01:01G | 19(6)  | DQA1*01:02:01    | 18(6)   | DQA1*05:05:01    | 18(6)   |
| DRB1*11:01P                | 4 (3)  | DRB1*15:01:01G             | 6 (4)   | DRB3*02:02:01G             | 24(8)  | DRB5*01:01     | 59(19) | DQA1*01:02:01G   | 12(4)   | DQA1*05:01:01G   | 15(5)   |
| DRB1*11:01                 | 65(47) | DRB1*15:01P                | 3 (2)   | DRB3*02:02                 | 55(18) | DRB5*01        | 76(31) | DQA1*01:02P      | 3 (1)   | DQA1*05:01P      | 9 (3)   |
| DRB1*11                    | 99(79) | DRB1*15:01                 | 74(51)  | DRB3*01:01                 | 3 (1)  | DRB5*PRESENT   | 22(9)  | DQA1*01:01P      | 3 (1)   | DQA1*05:05       | 53(18)  |
| DRB1*04                    | 1 (1)  | DRB1*15                    | 100(80) | DRB3*02                    | 76(31) | DRB4*PRESENT   | 2 (1)  | DQA1*01:02       | 59(20)  | DQA1*05          | 100(55) |
|                            |        |                            |         | DRB3*PRESENT               | 22(9)  |                |        | DQA1*01          | 100(55) |                  |         |
|                            |        |                            |         | DRB4*PRESENT               | 2 (1)  |                |        |                  |         |                  |         |
|                            |        |                            |         |                            |        |                |        |                  |         |                  |         |
|                            |        |                            |         |                            |        |                |        |                  |         |                  |         |

| DQB1                       |         | DPA1                       |         | DPB1                       |         |                  |         |                |        |
|----------------------------|---------|----------------------------|---------|----------------------------|---------|------------------|---------|----------------|--------|
| 69 labs High / 73 labs Low | % (n)   | 21 labs High / 28 labs Low | % (n)   | 52 labs High / 35 labs Low | % (n)   |                  |         |                |        |
| DQB1*03:01:01:03           | 3 (2)   | DQB1*06:02:01              | 20(14)  | DPA1*01:03:01:02           | 5 (1)   | DPB1*04:01:01:01 | 8 (4)   | DPB1*03:01:01  | 2 (1)  |
| DQB1*03:01:01:02           | 1 (1)   | DQB1*06:02:01G             | 6 (4)   | DPA1*01:03:01              | 24(5)   | DPB1*04:01:01    | 8 (4)   | DPB1*03:01:01G | 27(14) |
| DQB1*03:01:01:01           | 1 (1)   | DQB1*06:02P                | 3 (2)   | DPA1*01:03                 | 71(15)  | DPB1*04:01:01G   | 29(15)  | DPB1*03:01P    | 14(7)  |
| DQB1*03:01:01              | 12(8)   | DQB1*06:02                 | 70(48)  | DPA1*01                    | 100(28) | DPB1*04:01P      | 16 (8)  | DPB1*104:01    | 46(24) |
| DQB1*03:01:01G             | 10(7)   | DQB1*06:01                 | 1 (1)   |                            |         | DPB1*04:01       | 39(20)  | DPB1*03:01     | 12(6)  |
| DQB1*03:01P                | 3 (2)   | DQB1*06                    | 100(73) |                            |         | DPB1*04(DP401)   | 100(35) | DPB1*104       | 31(11) |
| DQB1*03:01                 | 70(48)  |                            |         |                            |         |                  |         | DPB1*03        | 69(24) |
| DQB1*03                    | 100(73) |                            |         |                            |         |                  |         |                |        |
|                            |         |                            |         |                            |         |                  |         |                |        |
|                            |         |                            |         |                            |         |                  |         |                |        |

**Table 6. Summary of the 140th DNA Exchange (DNA #866)**

| A                          |         |                  |         | B                          |         |                |         | C                          |         |                  |         |
|----------------------------|---------|------------------|---------|----------------------------|---------|----------------|---------|----------------------------|---------|------------------|---------|
| 69 labs High / 77 labs Low |         |                  |         | 68 labs High / 78 labs Low |         | % (n)          |         | 68 labs High / 68 labs Low |         | % (n)            |         |
| A*01:01:01:01              | 20(14)  | A*33:03:01       | 29(20)  | B*27:05:02                 | 19(13)  | B*40:01:02     | 19(13)  | C*02:02:02                 | 16(24)  | C*07:02:01:01    | 10(7)   |
| A*01:01:01                 | 7 (5)   | A*33:03:01G      | 3 (2)   | B*27:05:02G                | 22(15)  | B*40:01:01G    | 9 (6)   | C*02:02:02G                | 7 (5)   | C*07:02:01       | 7 (5)   |
| A*01:01:01G                | 9 (6)   | A*33:01:01G      | 1 (1)   | B*27:05P                   | 2 (1)   | B*40:01P       | 2 (1)   | C*02:02                    | 69(47)  | C*07:02:01G      | 27(18)  |
| A*01:01P                   | 1 (1)   | A*33:03P         | 1 (1)   | B*27:05                    | 53(36)  | B*40:01        | 71(48)  | C*02                       | 100(68) | C*07:02P         | 2 (1)   |
| A*01:01                    | 62(43)  | A*33:03          | 61(42)  | B*27:03                    | 4 (3)   | B*40           | 100(78) |                            |         | C*07:02          | 54(37)  |
| A*01                       | 100(77) | A*33:01          | 4 (3)   | B*27                       | 100(78) |                |         |                            |         | C*07             | 99(67)  |
|                            |         | A*33             | 100(77) |                            |         |                |         |                            |         | C*01             | 2 (1)   |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
| DRB1                       |         |                  |         | DRB3/4/5                   |         |                |         | DQA1                       |         |                  |         |
| 70 labs High / 78 labs Low |         | % (n)            |         | 34 labs High / 38 labs Low |         | % (n)          |         | 35 labs High / 53 labs Low |         | % (n)            |         |
| DRB1*04:05:01              | 26(18)  | DRB1*15:01:01:01 | 1 (1)   | DRB4*01:03:01              | 18(6)   | DRB5*01:01:01  | 23(7)   | DQA1*01:02:01:01           | 9 (3)   | DQA1*03:03:01    | 23(8)   |
| DRB1*04:05P                | 3 (2)   | DRB1*15:01:01    | 16(11)  | DRB4*01:01:01G             | 21(7)   | DRB5*01:01:01G | 19(6)   | DQA1*01:02:01              | 14(5)   | DQA1*03:01:01G   | 11(4)   |
| DRB1*04:05                 | 71(50)  | DRB1*15:01:02    | 1 (1)   | DRB4*01:03                 | 56(19)  | DRB5*01:01     | 58(18)  | DQA1*01:02:01G             | 14(5)   | DQA1*03:01P      | 9 (3)   |
| DRB1*04                    | 99(77)  | DRB1*15:01:01G   | 6 (4)   | DRB4*01:01                 | 6 (2)   | DRB5*01        | 79(30)  | DQA1*01:02P                | 9 (3)   | DQA1*03:03       | 49(17)  |
| DRB1*12                    | 1 (1)   | DRB1*15:01P      | 3 (2)   | DRB4*01                    | 79(30)  | DRB5*PRESENT   | 21(8)   | DQA1*01:02                 | 54(19)  | DQA1*03:02       | 3 (1)   |
|                            |         | DRB1*15:01       | 73(50)  | DRB4*PRESENT               | 18(7)   |                |         | DQA1*01                    | 100(53) | DQA1*03:01       | 6 (2)   |
|                            |         | DRB1*15          | 100(78) | DRB3*PRESENT               | 3 (1)   |                |         |                            |         | DQA1*03          | 100(53) |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
| DQB1                       |         |                  |         | DPA1                       |         |                |         | DPB1                       |         |                  |         |
| 68 labs High / 71 labs Low |         | % (n)            |         | 20 labs High / 27 labs Low |         | % (n)          |         | 50 labs High / 36 labs Low |         | % (n)            |         |
| DQB1*03:02:01              | 19(13)  | DQB1*06:02:01    | 19(13)  | DPA1*01:03:01:01           | 5 (1)   |                |         | DPB1*02:01:02              | 8 (4)   | DPB1*04:02:01:02 | 2 (1)   |
| DQB1*03:02:01G             | 6 (4)   | DQB1*06:02:01G   | 6 (4)   | DPA1*01:03:01              | 25(5)   |                |         | DPB1*02:01:02G             | 38(19)  | DPB1*04:02:01    | 6 (3)   |
| DQB1*03:02P                | 3 (2)   | DQB1*06:02P      | 3 (2)   | DPA1*01:03                 | 70(14)  |                |         | DPB1*02:01P                | 14(7)   | DPB1*04:02:01G   | 40(20)  |
| DQB1*03:02                 | 72(49)  | DQB1*06:02       | 72(48)  | DPA1*01                    | 100(27) |                |         | DPB1*02:01                 | 38(19)  | DPB1*04:02P      | 14(7)   |
| DQB1*03                    | 100(71) | DQB1*06          | 100(71) |                            |         |                |         | DPB1*21:01                 | 2 (1)   | DPB1*04:02       | 36(18)  |
|                            |         |                  |         |                            |         |                |         | DPB1*02(DP201)             | 100(36) | DPB1*32:01       | 2 (1)   |
|                            |         |                  |         |                            |         |                |         |                            |         | DPB1*04(DP402)   | 100(35) |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |
|                            |         |                  |         |                            |         |                |         |                            |         |                  |         |



**Table 7. Individual laboratory results for DNA # 861 using Next Generation Sequencing**

| CENTER                                   | A           |           | B           |       | C         |           | DRB1     |          | DRB3/4/5    |             | DQA1      |           | DQB1        |           | DPA1        |             | DPB1        |             |
|--|-------------|-----------|-------------|-------|-----------|-----------|----------|----------|-------------|-------------|-----------|-----------|-------------|-----------|-------------|-------------|-------------|-------------|
| 16                                       | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03     | 4*01:03     | 03:01:01  | 03:01:01  | 03:01:01:01 | 03:02:01  | 01:03:01:05 | 01:03:01:05 | 04:02:01:02 | 04:02:01:02 |
| 124                                      | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:01:01G | 4*01:01:01G | NT        | NT        | 03:01:01:01 | 03:02:01  | NT          | NT          | 04:02:01:02 | 04:02:01:02 |
| 131                                      | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03:01  | 4*01:03:01  | 03:01:01  | 03:01:01  | FTA         | FTA       | 01:03:01    | 01:03:01    | 04:02:01:02 | 04:02:01:02 |
| 147                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01     | 03:01     | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 185                                      | 24:02:01G   | 26:01:01G | 15:01:01G   | 15:09 | 01:02:01G | 07:04:01G | 04:03P   | 04:04P   | 4*01:01:01G | 4*01:01:01G | 03:01:01G | 03:01:01G | 03:01P      | 03:02P    | NT          | NT          | 04:02:01G   | 04:02:01G   |
| 188                                      | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04    | NT          | NT          | NT        | NT        | 03:01:01:01 | 03:02:01  | NT          | NT          | 04:02:01:02 | 04:01:01:02 |
| 192                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01     | 03:01     | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 205                                      | 24:02:01    | 26:01:01  | 15:01:01    | 15:09 | 01:02P    | 07:04P    | 04:03    | 04:04    | 4*01:03     | 4*01:03     | NT        | NT        | 03:01:01    | 03:02:01  | 01:03:01    | 01:03:01    | 04:02:01    | 04:02:01    |
| 207                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01     | 03:01     | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 213                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT        | NT        | 03:01       | 03:02     | NT          | NT          | NT          | NT          |
| 227                                      | 24:02       | 26:01:01  | 15:01       | 15:09 | 01:02     | 07:04:01  | 04:03:01 | 04:04    | NT          | NT          | NT        | NT        | 03:01:01    | 03:02:01  | NT          | NT          | 04:02       | 04:02       |
| 234                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | NT        | NT        | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 258                                      | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | NT          | NT          | NT        | NT        | 03:01:01:01 | 03:02:01  | NT          | NT          | 04:02:01:02 | 04:02:01:02 |
| 264                                      | 24:02:01    | 26:01:01  | 15:01:01    | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03:01  | 4*01:03:01  | 03:01:01  | 03:01:01  | 03:01:01    | 03:02:01  | 01:03:01    | 01:03:01    | 04:02:01    | 04:02:01    |
| 272                                      | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03:01  | 4*01:03:01  | 03:01:01  | 03:01:01  | 03:01:01:01 | 03:02:01  | 01:03:01    | 01:03:01    | 04:02:01:02 | 04:02:01:02 |
| 294                                      | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01     | 03:01     | NT          | NT        | NT          | NT          | 04:02       | 04:02       |
| 1113                                     | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01     | 03:01     | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 3264                                     | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT        | NT        | NT          | NT        | NT          | NT          | NT          | NT          |
| 3614                                     | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | NT          | 03:01     | 03:01     | 03:01       | 03:02     | 01:03       | NT          | 04:02       | NT          |
| 3849                                     | 24:02:01G   | 26:01:01G | 15:01:01G   | 15:09 | 01:02:01G | 07:04:01G | 04:03:01 | 04:04:01 | 4*01:01:01G | 4*01:01:01G | 03:01     | 03:01     | 03:01:01G   | 03:02:01G | NT          | NT          | 04:02:01G   | 04:02:01G   |
| 4709                                     | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01     | 03:01     | 03:01       | 03:02     | NT          | NT          | 04:02       | 04:02       |
| 45452                                    | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03:01  | 4*01:03:01  | NT        | NT        | 03:01:01:01 | 03:02:01  | NT          | NT          | 04:02:01:02 | 04:02:01:02 |
| Final Consensus based on High Resolution | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01     | 03:01     | 03:01       | 03:02     | 01:03       | 01:03       | 04:02       | 04:02       |

**Table 8. Individual laboratory results for DNA # 861 High Resolution**

| CENTER | A           |           | B           |       | C         |           | DRB1     |          | DRB3/4/5    |             | DQA1     |           | DQB1        |           | DPA1     |          | DPB1      |           |
|--------|-------------|-----------|-------------|-------|-----------|-----------|----------|----------|-------------|-------------|----------|-----------|-------------|-----------|----------|----------|-----------|-----------|
| 7      | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | 4*01:01:01G | 4*01:01:01G | 03:01    | 03:01:01G | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 134    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 138    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 144    | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02     | 07:04:01G | 04:03:01 | 04:04:01 | NT          | NT          | 03:01    | 03:01:01G | 03:01:01G   | 03:02:01  | NT       | NT       | NT        | NT        |
| 148    | 24:02       | 26:01P    | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03:01  | 4*01:03:01  | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02P    | 04:02P    |
| 151    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 160    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 162    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04:01G | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 173    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | NT          | NT          | 03:01    | 03:01     | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 174    | 24:02       | 26:01     | 15:01:01    | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 175    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 176    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 189    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01:01 | 03:01:01G | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 190    | 24:02:01:01 | 26:01:01  | 15:01:01G   | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | NT          | NT          | NT       | NT        | 03:01:01:01 | 03:02:01  | NT       | NT       | NT        | NT        |
| 193    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 195    | 24:02       | 26:01     | 15:01       | 15:09 | NT        | NT        | 04:03    | 04:04    | NT          | NT          | 03:01    | 03:01     | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 197    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02P    | 07:04P    | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | NT        |
| 209    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 218    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 238    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01    | 03:01     | 03:01       | 03:03     | NT       | NT       | NT        | NT        |
| 239    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01    | 03:01     | 03:01       | 03:02     | NT       | NT       | 04:02P    | 04:02P    |
| 242    | NT          | NT        | NT          | 15:09 | NT        | NT        | NT       | NT       | NT          | NT          | 03:01    | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 244    | 24:02P      | 26:01P    | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01    | 03:01     | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 249    | 24:02:01    | 26:01:01  | 15:01:01    | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03:01  | 4*01:03:01  | 03:01:01 | 03:01:01  | 03:01:01    | 03:02:01  | 01:03:01 | 01:03:01 | 04:02:01  | 04:02:01  |
| 262    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | NT          | NT          | 03:01    | 03:01     | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 267    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:01     | 4*01:01     | 03:01    | 03:01     | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 275    | 24:02       | 26:01     | 15:01       | 15:09 | NT        | NT        | 04:03    | 04:04    | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 278    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01    | 03:01     | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 279    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | 4*01:03     | 4*01:03     | 03:01    | 03:01     | NT          | NT        | NT       | NT       | 04:02     | 04:02     |
| 281    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01    | NT        | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 286    | NT          | NT        | NT          | 15:09 | NT        | NT        | NT       | NT       | NT          | NT          | 03:01    | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 288    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 289    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 292    | NT          | NT        | NT          | NT    | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 297    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 302    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 311    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | 03:01       | 03:01    | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 313    | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 315    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02P    |
| 317    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:01     | 4*01:01     | 03:01    | 03:01     | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 319    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 401    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 402    | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | NT        | NT        |
| 519    | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 615    | 24:02:01G   | 26:01:01G | 15:01:01G   | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | 4*01:01:01G | 4*01:01:01G | NT       | NT        | 03:01:01G   | 03:02:01G | NT       | NT       | 04:02:01G | 04:02:01G |
| 702    | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | NT       | NT        | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |
| 726    | NT          | NT        | NT          | 15:09 | NT        | 07:04P    | NT       | NT       | NT          | NT          | 03:01    | 03:01P    | NT          | NT        | 01:03    | NT       | 04:02     | 04:02     |
| 732    | 24:02:01G   | 26:01:01G | 15:01:01G   | 15:09 | 01:02:01G | 07:04:01G | 04:03:01 | 04:04:01 | 4*01:01:01G | 4*01:01:01G | NT       | NT        | 03:01:01G   | 03:02:01G | NT       | NT       | 04:02:01G | 04:02:01G |
| 769    | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT       | NT        | NT          | NT        | NT       | NT       | 04:02     | 04:02     |
| 805    | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 1189   | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | 4*01:03     | 4*01:03     | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 1251   | 24:02:01G   | 26:01:01G | 15:01:01    | 15:09 | 01:02:01G | 07:04:01G | 04:03:01 | 04:04:01 | 4*01:03     | 4*01:03     | 03:01    | 03:01     | 03:01:01    | 03:02:01  | 01:03    | 01:03    | 04:02     | 04:02     |
| 1498   | 24:02:01G   | 26:01:01G | 15:01:01G   | 15:09 | 01:02:01G | 07:04:01G | 04:03:01 | 04:04:01 | 4*01:03     | 4*01:03     | 03:01    | 03:01     | 03:01:01    | 03:02:01  | NT       | NT       | 04:02:01  | 04:02:01  |
| 1647   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT       | NT        | 03:01       | 03:02     | NT       | NT       | 04:02     | 04:02     |
| 1686   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | NP          | 03:01    | 03:01     | 03:01       | 03:02     | 01:03    | 01:03    | 04:02     | 04:02     |

**Table 8. Individual laboratory results for DNA # 861 High Resolution**

| CENTER | A           |           | B           |       | C         |           | DRB1     |          | DRB3/4/5    |             | DQA1   |        | DQB1        |          | DPA1  |       | DPB1      |           |
|--------|-------------|-----------|-------------|-------|-----------|-----------|----------|----------|-------------|-------------|--------|--------|-------------|----------|-------|-------|-----------|-----------|
| 2063   | 24:02:01    | 26:01:01  | 15:01:01    | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | NT          | NT          | NT     | NT     | NT          | NT       | NT    | NT    | NT        | NT        |
| 2518   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT     | NT     | 03:01       | 03:02    | NT    | NT    | NT        | NT        |
| 2549   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | NT          | NT          | 03:01  | NT     | 03:01       | 03:02    | 01:03 | NT    | 04:02     | NT        |
| 3261   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | NT       | NT       | NT          | NT          | NT     | NT     | NT          | NT       | NT    | NT    | NT        | NT        |
| 3325   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | NT       | NT       | NT          | NT          | NT     | NT     | NT          | NT       | NT    | NT    | NT        | NT        |
| 3410   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT     | NT     | 03:01       | 03:02    | NT    | NT    | NT        | NT        |
| 3438   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT     | NT     | 03:01       | 03:02    | NT    | NT    | NT        | NT        |
| 3582   | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | 4*01:01:01G | 4*01:01:01G | NT     | NT     | 03:01       | 03:02    | NT    | NT    | 04:02:01G | 04:02:01G |
| 3600   | NT          | NT        | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT     | NT     | NT          | NT       | NT    | NT    | 04:02P    | 04:02P    |
| 3625   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01  | 03:01  | 03:01       | 03:02    | NT    | NT    | 04:02     | 04:02     |
| 4237   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04:01  | 04:03:01 | 04:04:01 | 4*01:03     | NT          | 03:01P | 03:01P | 03:01       | 03:02    | NT    | NT    | NT        | NT        |
| 4420   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | 03:01  | 03:01  | 03:01       | 03:02    | NT    | NT    | NT        | NT        |
| 4545   | 24:02       | 26:01:01G | 15:01       | 15:09 | 01:02:01G | 07:04:01G | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01  | 03:01  | 03:01       | 03:02    | 01:03 | 01:03 | 04:02     | 04:02     |
| 4551   | NT          | NT        | NT          | NT    | NT        | NT        | 04:03    | 04:04    | 4*01:03     | NT          | NT     | NT     | 03:01       | 03:02    | NT    | NT    | 04:02     | NT        |
| 4582   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | 4*01:03     | 4*01:03     | 03:01  | 03:01  | 03:01       | 03:02    | 01:03 | 01:03 | 04:02     | 04:02     |
| 4585   | NT          | NT        | NT          | 15:09 | NT        | NT        | NT       | NT       | NT          | NT          | 03:01  | NT     | NT          | NT       | NT    | NT    | NT        | NT        |
| 5451   | 24:02:01:01 | 26:01:01  | NT          | NT    | NT        | NT        | NT       | NT       | NT          | NT          | NT     | NT     | NT          | NT       | NT    | NT    | 04:02:01  | 04:02:01  |
| 6051   | NT          | NT        | NT          | 15:09 | NT        | NT        | 04:03    | 04:04    | NT          | NT          | 03:01  | NT     | 03:01       | 03:02    | 01:03 | 01:03 | 04:02     | 04:02     |
| 6313   | 24:02:01:01 | 26:01:01  | 15:01:01:01 | 15:09 | 01:02:01  | 07:04:01  | 04:03:01 | 04:04:01 | NT          | NT          | NT     | NT     | 03:01:01:01 | 03:02:01 | NT    | NT    | NT        | NT        |
| 9222   | 24:02       | 26:01     | 15:01       | 15:09 | 01:02     | 07:04     | 04:03    | 04:04    | NT          | NT          | NT     | NT     | 03:01       | 03:02    | NT    | NT    | 04:02     | 04:02     |

|                 |       |       |       |       |       |       |       |       |         |         |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Final Consensus | 24:02 | 26:01 | 15:01 | 15:09 | 01:02 | 07:04 | 04:03 | 04:04 | 4*01:03 | 4*01:03 | 03:01 | 03:01 | 03:01 | 03:02 | 01:03 | 01:03 | 04:02 | 04:02 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|

**Table 9. Individual laboratory results for DNA # 861 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |           |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----------|
| 16     | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 124    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 134    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 138    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 139    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 142    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 144    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 147    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 148    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 168    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 173    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 175    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 189    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 190    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 192    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 195    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 197    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP402) | NT        |
| 199    | NT | NT | NT | NT | NT | NT | 04   | NT | 4*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 205    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 207    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 209    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 214    | NT | NT | 15 | 15 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 226    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 234    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 238    | NT | NT | NT | NT | NT | NT | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 239    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 242    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | NT | 4*PRESENT | NT        | 03   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 244    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 245    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 255    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 262    | 24 | 26 | 15 | 78 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 265    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 266    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 267    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 268    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 272    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 278    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 279    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 280    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 281    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 282    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 285    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 286    | 24 | 26 | 15 | NT | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 288    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 289    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 290    | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 292    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 293    | 24 | 26 | 15 | NT | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 294    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 302    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 304    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 305    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 309    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 311    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 310    | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |

**Table 9. Individual laboratory results for DNA # 861 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |           |
|-----------------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----------|
| 313             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 316             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 318             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 319             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 401             | 24 | 26 | 15 | 15 | 01 | 07 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 402             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 519             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 615             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 726             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 732             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 769             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 805             | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 1212            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 1251            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 1647            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 2063            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 2549            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | NT        | 03   | NT | 03   | 03 | 01   | NT | 04(DP402) | NT        |
| 3264            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 3325            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 3410            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 3438            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 3582            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | NT   | NT | 03   | 03 | NT   | NT | NT        | NT        |
| 3600            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | NT        | 03   | 03 | 03   | 03 | 01   | 01 | NT        | NT        |
| 3625            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | 4*PRESENT | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 3849            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | NT   | NT | 04(DP402) | 04(DP402) |
| 4237            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | NT   | NT | NT   | 03 | NT   | NT | NT        | NT        |
| 4420            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 4551            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | NT        | 03   | NT | 03   | 03 | NT   | NT | 04(DP402) | NT        |
| 4582            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 4585            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 4613            | 24 | 26 | 15 | 15 | NT | NT | 04   | 04 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 4709            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 5451            | 24 | 26 | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 6051            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| 6313            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | NT   | NT | NT        | NT        |
| 9221            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*PRESENT | NT        | 03   | NT | 03   | 03 | 01   | NT | 04(DP402) | NT        |
| 9222            | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | NT        | NT        | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |
| Final Consensus | 24 | 26 | 15 | 15 | 01 | 07 | 04   | 04 | 4*01      | 4*01      | 03   | 03 | 03   | 03 | 01   | 01 | 04(DP402) | 04(DP402) |

**Table 10. Individual laboratory results for DNA # 862 using Next Generation Sequencing**

| CENTER                                   | A        |             | B           |           | C        |           | DRB1        |           | DRB3/4/5      |               | DQA1      |          | DQB1      |             | DPA1     |       | DPB1     |           |
|--|----------|-------------|-------------|-----------|----------|-----------|-------------|-----------|---------------|---------------|-----------|----------|-----------|-------------|----------|-------|----------|-----------|
| 16                                       | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04    | 16:01:01  | 07:01:01    | 12:01:01G | NT            | 4*01:01:01:01 | 01:05:01  | 02:01:01 | 02:02:01  | 05:01:01:02 | 02:01:01 | 03:01 | 11:01:01 | 105:01    |
| 124                                      | 02:02:01 | 29:02:01:01 | 44:03:01    | 81:01     | 08:04:01 | 16:01:01  | 07:01:01:01 | 12:01:01  | 3*01:01:02G   | 4*01:01:01G   | NT        | NT       | 02:02:01  | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| 131                                      | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01G | 3*01:01:02:01 | 4*01:01:01:01 | 01:05:01  | 02:01:01 | 02:02:01  | 05:01:01:02 | 02:01:01 | 03:01 | 11:01:01 | 105:01    |
| 147                                      | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 185                                      | 02:02:01 | 29:02:01G   | 44:03:01G   | 81:01:01G | 08:04:01 | 16:01:01G | 07:01:01G   | 12:01:01G | 3*01:01:02G   | 4*01:01:01G   | 01:01:01G | 02:01    | 02:01P    | 05:01P      | NT       | NT    | 11:01:01 | 04:02:01G |
| 188                                      | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01  | 07:01       | 12:01P    | NT            | NT            | 01:05:01  | 02:01    | 02:02:01  | 05:01       | NT       | NT    | 11:01:01 | 105:01    |
| 192                                      | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 205                                      | 02:02:01 | 29:02:01    | 44:03:01    | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01  | 3*01:01:02    | 4*01:03:01    | 01:05:01  | 02:01    | 02:02:01  | 05:01:01    | 02:01    | 03:01 | 11:01:01 | 105:01    |
| 207                                      | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 213                                      | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01P    | NT            | NT            | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 227                                      | 02:02    | 29:02:01    | 44:03:01    | 81:01     | 08:04    | 16:01:01  | 07:01       | 12:01:01  | NT            | NT            | NT        | NT       | 02:02     | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| 234                                      | 02:02    | 29:02:01G   | 44:03:01G   | 81:01:01G | 08:04    | 16:01:01G | 07:01:01G   | 12:01:01G | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 258                                      | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01G | NT            | NT            | NT        | NT       | 02:02:01  | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| 264                                      | 02:02:01 | 29:02:01    | 44:03:01    | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01  | 3*01:01:02    | 4*01:01:01    | 01:05:01  | 02:01:01 | 02:02:01  | 05:01:01    | 02:01:01 | 03:01 | 11:01:01 | 105:01    |
| 272                                      | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01G | 3*01:01:02    | 4*01:01:01:01 | 01:05:01  | 02:01:01 | 02:02:01  | 05:01:01:02 | 02:01:01 | 03:01 | 11:01:01 | 105:01    |
| 294                                      | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01P    | 3*01:01P      | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 1113                                     | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 3264                                     | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT            | NT            | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 3614                                     | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | NT            | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 3849                                     | 02:02:01 | 29:02:01G   | 44:03:02    | 81:01:01G | 08:04:01 | 16:01:01G | 07:01:01G   | 12:01:01G | 3*01:01:02G   | 4*01:01:01G   | 01:05     | 02:01    | 02:01:01G | 05:01:01G   | NT       | NT    | 11:01:01 | 04:02:01G |
| 4709                                     | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT            | NT            | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 45452                                    | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04    | 16:01:01  | 07:01:01    | 12:01:01G | 3*01:01:02    | 4*01:01:01:01 | NT        | NT       | 02:02:01  | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| Final Consensus based on High Resolution | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01       | 4*01:01       | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |

**Table 11. Individual laboratory results for DNA # 862 High Resolution**

| CENTER | A        |             | B           |           | C        |           | DRB1        |           | DRB3/4/5    |             | DQA1      |          | DQB1      |             | DPA1     |       | DPB1     |           |
|--------|----------|-------------|-------------|-----------|----------|-----------|-------------|-----------|-------------|-------------|-----------|----------|-----------|-------------|----------|-------|----------|-----------|
| 7      | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01       | 12:01:01G | 3*01:01:02G | 4*01:01:01G | 01:01:01G | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 134    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01:01G   | 12:01:01G | 3*01:01     | 4*01:01     | 01:01     | 02:01    | 02:02     | 05:01       | NT       | NT    | 11:01    | 04:02:01G |
| 138    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 144    | 02:02:01 | 29:02       | 44:03:01    | 81:01     | 08:04:01 | 16:01:01  | 07:01:01G   | 12:01:01  | NT          | NT          | 01:01:01G | 02:01    | 02:02:01  | 05:01:01G   | NT       | NT    | NT       | NT        |
| 148    | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04    | 16:01     | 07:01P      | 12:01P    | 3*01:01:02  | 4*01:01:01  | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 04:02P    |
| 151    | 02:02    | 29:02       | 44:03:01G   | 81:01:01G | 08:04    | 16:01     | 07:01:01G   | 12:01:01G | NT          | NT          | NT        | NT       | 02:02:01  | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| 160    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01     | 4*01:01     | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 162    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01       | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 173    | NT       | NT          | NT          | NT        | NT       | NT        | 07:01       | 12:01     | NT          | NT          | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 174    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01       | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 175    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | NT        | NT          | NT          | NT        | NT       | 02:02     | NT          | NT       | NT    | NT       | NT        |
| 176    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 189    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01     | NT          | 01:01:01G | 02:01    | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 190    | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01  | 07:01:01:01 | 12:01:01G | NT          | NT          | NT        | NT       | 02:02:01  | 05:01:01:01 | NT       | NT    | NT       | NT        |
| 193    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01       | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 195    | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04    | NT        | 07:01       | 12:01     | NT          | NT          | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 197    | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04    | 16:01     | 07:01P      | 12:01P    | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 04:02P    |
| 209    | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04    | 16:01     | 07:01       | 12:01P    | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 218    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 238    | NT       | NT          | NT          | NT        | NT       | NT        | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 239    | NT       | NT          | NT          | NT        | NT       | NT        | 07:01       | NT        | 3*01:01     | 4*01:01     | 01:05     | 02:01    | 02:02     | 05:01       | NT       | 03:01 | 11:01    | 105:01    |
| 242    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 244    | 02:02    | 29:02P      | 44:03P      | 81:01P    | 08:04    | 16:01P    | 07:01P      | 12:01     | NT          | NT          | 01:01P    | 02:01    | 02:01P    | 05:01P      | NT       | NT    | NT       | NT        |
| 249    | 02:02:01 | 29:02:01    | 44:03:01    | 81:01     | 08:04:01 | 16:01:01  | 07:01:01    | 12:01:01  | 3*01:01:02  | 4*01:01:01  | 01:05:01  | 02:01:01 | 02:02:01  | 05:01:01    | 02:01:01 | 03:01 | 11:01:01 | 105:01    |
| 262    | 02:02    | NT          | NT          | NT        | NT       | NT        | 07:01       | 12:01     | NT          | NT          | 01:05     | 02:01    | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 267    | 02:02    | 29:01       | 44:03       | 81:01     | 08:01    | 16:01     | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:04     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 04:02     |
| 275    | 02:02    | 29:02       | 44:03       | 81:01     | NT       | NT        | 07:01       | 12:01     | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 278    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 04:02     |
| 279    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | 3*01:01     | 4*01:01     | 01:05     | 02:01    | NT        | NT          | NT       | NT    | 11:01    | 105:01    |
| 281    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 286    | NT       | NT          | NT          | NT        | 08:04    | NT        | NT          | NT        | NT          | NT          | NT        | 02:01    | NT        | NT          | NT       | NT    | NT       | NT        |
| 288    | NT       | NT          | NT          | NT        | NT       | NT        | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 289    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 292    | NT       | NT          | NT          | NT        | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 297    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 302    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 311    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 313    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01:01G   | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 315    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 317    | 02:02    | 29:01       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:01     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |
| 319    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | NT       | NT        |
| 401    | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04    | 16:01     | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 402    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | NT       | NT        |
| 519    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01:01G   | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 615    | 02:02    | 29:02:01G   | 44:03:01G   | 81:01:01G | 08:04    | 16:01:01G | 07:01:01G   | 12:01:01G | 3*01:01:02G | 4*01:01:01G | NT        | NT       | 02:01:01G | 05:01:01G   | NT       | NT    | 11:01    | 04:02:01G |
| 702    | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01:01  | 07:01       | 12:01     | 3*01:01     | 4*01:01     | NT        | NT       | 02:02     | 05:01       | 02:01    | 02:01 | 11:01    | 105:01    |
| 726    | NT       | NT          | NT          | NT        | 08:04    | NT        | NT          | NT        | NT          | NT          | 01:01P    | 02:01    | NT        | NT          | 02:01    | 03:01 | 11:01    | 105:01    |
| 732    | 02:02:01 | 29:02:01G   | 44:03:01G   | 81:01:01G | 08:04:01 | 16:01:01G | 07:01:01G   | 12:01:01G | 3*01:01:02G | 4*01:01:01G | NT        | NT       | 02:01:01G | 05:01:01G   | NT       | NT    | 11:01:01 | 04:02:01G |
| 769    | NT       | NT          | NT          | NT        | NT       | NT        | NT          | NT        | NT          | NT          | NT        | NT       | NT        | NT          | NT       | NT    | 11:01    | 105:01    |
| 805    | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01       | 12:01:01G | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 1189   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01:01G | 3*01:01     | 4*01:01     | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 1251   | 02:02:01 | 29:02:01    | 44:03:01    | 81:01     | 08:04    | 16:01:01  | 07:01:01G   | 12:01:01G | 3*01:01     | 4*01:01:01  | 01:05     | 02:01    | 02:02:01  | 05:01:01    | 02:01    | 03:01 | 11:01    | 105:01    |
| 1498   | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01     | 07:01:01    | 12:01:01G | 3*01:01:02G | 4*01:01:01  | 01:05     | 02:01    | 02:02:01  | 05:01:01    | NT       | NT    | 11:01:01 | 105:01    |
| 1647   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | NT          | NT          | NT        | NT       | 02:02     | 05:01       | NT       | NT    | 11:01    | 105:01    |
| 1686   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01     | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:05     | 02:01    | 02:02     | 05:01       | 02:01    | 03:01 | 11:01    | 105:01    |

**Table 11. Individual laboratory results for DNA # 862 High Resolution**

| CENTER | A        |             | B           |           | C        |          | DRB1        |           | DRB3/4/5    |             | DQA1   |       | DQB1      |             | DPA1  |       | DPB1     |           |
|--------|----------|-------------|-------------|-----------|----------|----------|-------------|-----------|-------------|-------------|--------|-------|-----------|-------------|-------|-------|----------|-----------|
| 2063   | 02:02:01 | 29:02:01    | 44:03       | 81:01     | 08:04    | 16:01:01 | 07:01       | 12:01:01  | NT          | NT          | NT     | NT    | NT        | NT          | NT    | NT    | NT       | NT        |
| 2518   | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01    | 07:01       | 12:01:01G | NT          | NT          | NT     | NT    | 02:01:01G | 05:01       | NT    | NT    | NT       | NT        |
| 2549   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01:01G   | 12:01     | NT          | NT          | 01:05  | 02:01 | 02:02     | 05:01       | 02:01 | 03:01 | 11:01    | 105:01    |
| 3261   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | NT          | NT        | NT          | NT          | NT     | NT    | NT        | NT          | NT    | NT    | NT       | NT        |
| 3325   | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01    | NT          | NT        | NT          | NT          | NT     | NT    | NT        | NT          | NT    | NT    | NT       | NT        |
| 3410   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | NT          | NT          | NT     | NT    | 02:02     | 05:01       | NT    | NT    | NT       | NT        |
| 3438   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | NT          | NT          | NT     | NT    | 02:02     | 05:01       | NT    | NT    | NT       | NT        |
| 3582   | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01    | 07:01:01G   | 12:01:01G | 3*01:01:02G | 4*01:01:01G | NT     | NT    | 02:02     | 05:01       | NT    | NT    | 11:01    | 04:02:01G |
| 3600   | NT       | NT          | NT          | NT        | NT       | NT       | NT          | NT        | NT          | NT          | NT     | NT    | NT        | NT          | NT    | NT    | 11:01    | 105:01    |
| 3625   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | NT          | NT          | 01:05  | 02:01 | 02:02     | 05:01       | NT    | NT    | 11:01    | 04:02     |
| 4237   | 02:02    | 29:02       | 44:03       | 81:01P    | 08:04:01 | 16:01    | 07:01       | 12:01:01  | 3*01:01     | 4*01:01     | 01:01P | 02:01 | 02:02     | 05:01       | NT    | NT    | NT       | NT        |
| 4420   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | NT          | NT          | 01:05  | 02:01 | 02:02     | 05:01       | NT    | NT    | 11:01    | NT        |
| 4545   | 02:02    | 29:02       | 44:03       | 81:01:01G | 08:04    | 16:01    | 07:01       | 12:01:01G | 3*01:01     | 4*01:01     | 01:05  | 02:01 | 02:02     | 05:01       | 02:01 | 03:01 | 11:01    | 105:01    |
| 4551   | NT       | NT          | NT          | NT        | NT       | NT       | 07:01       | 12:01:01G | 3*01:01     | 4*01:01     | NT     | NT    | 02:02     | 05:01       | NT    | NT    | 11:01    | 105:01    |
| 4582   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | 3*01:01     | 4*01:01     | 01:05  | 02:01 | 02:02     | 05:01       | 02:01 | 03:01 | 11:01    | 105:01    |
| 4585   | NT       | NT          | NT          | NT        | 08:04    | NT       | NT          | NT        | NT          | NT          | NT     | 02:01 | NT        | NT          | NT    | NT    | NT       | NT        |
| 5451   | 02:02:01 | 29:02:01:01 | NT          | NT        | NT       | NT       | NT          | NT        | NT          | NT          | NT     | NT    | NT        | NT          | NT    | NT    | 11:01:01 | 105:01    |
| 6051   | NT       | NT          | NT          | NT        | NT       | NT       | 07:01       | 12:01     | NT          | NT          | NT     | 02:01 | 02:02     | 05:01       | 02:01 | 03:01 | 11:01    | 105:01    |
| 6313   | 02:02:01 | 29:02:01:01 | 44:03:01:01 | 81:01     | 08:04:01 | 16:01:01 | 07:01:01:01 | 12:01:01  | NT          | NT          | NT     | NT    | 02:02:01  | 05:01:01:01 | NT    | NT    | NT       | NT        |
| 9222   | 02:02    | 29:02       | 44:03       | 81:01     | 08:04    | 16:01    | 07:01       | 12:01     | NT          | NT          | NT     | NT    | 02:02     | 05:01       | NT    | NT    | 11:01    | 04:02P    |

|                 |       |       |       |       |       |       |       |       |         |         |       |       |       |       |       |       |       |        |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--------|
| Final Consensus | 02:02 | 29:02 | 44:03 | 81:01 | 08:04 | 16:01 | 07:01 | 12:01 | 3*01:01 | 4*01:01 | 01:05 | 02:01 | 02:02 | 05:01 | 02:01 | 03:01 | 11:01 | 105:01 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--------|



**Table 12. Individual laboratory results for DNA # 862 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1 |           |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|------|-----------|
| 16     | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 124    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 134    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 04(DP402) |
| 138    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 139    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 142    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 144    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 147    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 148    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 168    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 173    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 175    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 189    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 190    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT | 4*PRESENT | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 192    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 195    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 197    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | NT   | NT | 02   | 05 | NT   | NT | 11   | 04(DP402) |
| 199    | NT | NT | NT | NT | NT | NT | 07   | 12 | 3*PRESENT | 4*PRESENT | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 205    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 207    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT | 4*PRESENT | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 209    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 214    | NT | NT | 44 | 81 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 226    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 234    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 238    | NT | NT | NT | NT | NT | NT | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 239    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | NT        |
| 242    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 244    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 245    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 255    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 262    | 02 | 29 | 44 | 81 | 03 | 07 | 07   | 12 | 3*PRESENT | 4*PRESENT | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 265    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 266    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 267    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 04(DP402) |
| 268    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 272    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 278    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 04(DP402) |
| 279    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 280    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 281    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 282    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 285    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 286    | 02 | 29 | 44 | 81 | NT | 16 | 07   | 12 | NT        | NT        | 01   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 288    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 289    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 290    | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 292    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NP        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 293    | 02 | 29 | 44 | 07 | NT | NT | 07   | 11 | NT        | NT        | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 294    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01      | 4*01      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 302    | NT | NT | NT | NT | NT | NT | 07   | 12 | 3*PRESENT | 4*PRESENT | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 304    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 305    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 309    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT        | NT        | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 310    | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT | 4*PRESENT | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 311    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |

**Table 12. Individual laboratory results for DNA # 862 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5            |      | DQA1 |    | DQB1 |    | DPA1 |    | DPB1 |           |
|-----------------|----|----|----|----|----|----|------|----|---------------------|------|------|----|------|----|------|----|------|-----------|
| 313             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 316             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 318             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 319             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT 4*PRESENT |      | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 401             | 02 | 29 | 44 | 81 | 08 | 16 | NT   | NT | NT                  | NT   | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 402             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 519             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 615             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 726             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 732             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 04(DP402) |
| 769             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 805             | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | 11   | 105       |
| 1212            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 1251            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 1647            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT 4*PRESENT |      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 2063            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 2549            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 3264            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 3325            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT 4*PRESENT |      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 3410            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 3438            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 3582            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 3600            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | NT   | NT        |
| 3625            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT 4*PRESENT |      | 01   | 02 | 02   | 05 | NT   | NT | 11   | 04(DP402) |
| 3849            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | NT   | NT | 11   | 04(DP402) |
| 4237            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 4420            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | NT   | NT | 11   | NT        |
| 4551            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | NT   | NT | 11   | 105       |
| 4582            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 4585            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | NT   | NT | NT   | NT        |
| 4613            | 02 | 29 | 44 | 81 | NT | NT | 07   | 12 | NT                  | NT   | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 4709            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 5451            | 02 | 29 | NT | NT | NT | NT | NT   | NT | NT                  | NT   | NT   | NT | NT   | NT | NT   | NT | NT   | NT        |
| 6051            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 6313            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | NT   | NT | 02   | 05 | NT   | NT | NT   | NT        |
| 9221            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*PRESENT 4*PRESENT |      | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| 9222            | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | NT                  | NT   | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |
| Final Consensus | 02 | 29 | 44 | 81 | 08 | 16 | 07   | 12 | 3*01                | 4*01 | 01   | 02 | 02   | 05 | 02   | 03 | 11   | 105       |

**Table 13. Individual laboratory results for DNA # 863 using Next Generation Sequencing**

| CENTER                                   | A     |             | B         |           | C           |             | DRB1        |          | DRB3/4/5      |                | DQA1     |           | DQB1        |             | DPA1        |          | DPB1        |           |
|--|-------|-------------|-----------|-----------|-------------|-------------|-------------|----------|---------------|----------------|----------|-----------|-------------|-------------|-------------|----------|-------------|-----------|
| 16                                       | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01:03 | 07:01:01    | 14:02:01 | NT            | 4*01:03N       | 02:01:01 | 05:03     | 03:01:01:01 | 03:03:02:01 | 01:03:01:04 | 02:02:02 | 04:01:01:01 | 05:01:01  |
| 124                                      | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01:01 | 07:02:01:03 | 07:01:01:01 | 14:02:01 | 3*01:01:02G   | 4*01:01:01G    | NT       | NT        | 03:01:01:01 | 03:03:02:01 | NT          | NT       | 04:01:01:01 | 05:01:01  |
| 131                                      | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01    | 07:01:01    | 14:02:01 | 3*01:01:02:01 | 4*01:03:01:02N | 02:01:01 | 05:03     | 03:01:01:01 | 03:03:02:01 | 01:03:01    | 02:02:02 | 04:01:01:01 | 05:01:01  |
| 147                                      | NT    | NT          | NT        | NT        | NT          | NT          | NT          | NT       | NT            | NT             | NT       | NT        | NT          | NT          | NT          | NT       | NT          | NT        |
| 185                                      | 02:13 | 03:01:01G   | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G   | 07:01:01G   | 14:02:01 | 3*01:01:02G   | 4*01:01:01G    | 02:01    | 05:01:01G | 03:01P      | 03:03P      | NT          | NT       | 04:01:01G   | 05:01:01G |
| 188                                      | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01:02 | 07:02:01:03 | 07:01       | 14:02    | NT            | NT             | NT       | NT        | 03:01:01:01 | 03:03:02:01 | NT          | NT       | 04:01       | 05:01:01  |
| 192                                      | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | 3*01:01       | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | NT          | NT       | 04:01       | 05:01     |
| 205                                      | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01    | 07:01:01    | 14:02:01 | 3*01:01:02    | 4*01:03:01:02N | 02:01    | 05:03     | 03:01:01    | 03:03:02    | 01:03:01    | 02:02:02 | 04:01:01    | 05:01:01  |
| 207                                      | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | NT            | NT             | 02:01    | 05:03     | 03:01       | 03:03       | NT          | NT       | 04:01       | 05:01     |
| 213                                      | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | NT            | NT             | NT       | NT        | 03:01       | 03:03       | NT          | NT       | NT          | NT        |
| 227                                      | 02:13 | 03:01       | 07:02     | 40:02:01  | 03:04       | 07:02       | 07:01       | 14:02    | NT            | NT             | NT       | NT        | 03:01:01    | 03:03:02    | NT          | NT       | 04:01       | 05:01     |
| 234                                      | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | 3*01:01       | 4*01:03N       | NT       | NT        | 03:01       | 03:03       | NT          | NT       | 04:01       | 05:01     |
| 258                                      | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01:02 | 07:02:01:03 | 07:01:01    | 14:02:01 | NT            | NT             | NT       | NT        | 03:01:01:01 | 03:03:02:01 | NT          | NT       | 04:01:01    | 05:01:01  |
| 264                                      | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01    | 07:01:01    | 14:02:01 | 3*01:01:02    | 4*01:01:01G    | 02:01:01 | 05:03     | 03:01:01    | 03:03:02    | 01:03:01    | 02:02:02 | 04:01:01    | 05:01:01  |
| 272                                      | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01:03 | 07:01:01    | 14:02:01 | 3*01:01:02    | 4*01:03:01:02N | 02:01:01 | 05:03     | 03:01:01:01 | 03:03:02:01 | 01:03:01:04 | 02:02:02 | 04:01:01:01 | 05:01:01  |
| 294                                      | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | NT            | NT             | 02:01    | 05:03     | 03:01       | 03:03       | NT          | NT       | 04:01       | 05:01     |
| 1113                                     | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | 3*01:01       | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | NT          | NT       | 04:01       | 05:01     |
| 3264                                     | NT    | NT          | NT        | NT        | NT          | NT          | NT          | NT       | NT            | NT             | NT       | NT        | NT          | NT          | NT          | NT       | NT          | NT        |
| 3614                                     | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | 3*01:01       | 4*01:03        | 02:01    | 05:03     | 03:01       | 03:03       | 01:03       | 02:02    | 04:01       | 05:01     |
| 3849                                     | 02:13 | 03:01:01G   | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G   | 07:01:01G   | 14:02:01 | 3*01:01:02G   | 4*01:01:01G    | 02:01    | 05:03     | 03:01:01G   | 03:03:02G   | NT          | NT       | 04:01:01G   | 05:01:01G |
| 4709                                     | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | NT            | NT             | 02:01    | 05:03     | 03:01       | 03:03       | 01:03       | 02:02P   | 04:01       | 05:01     |
| 45452                                    | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01:02 | 07:02:01:03 | 07:01:01    | 14:02    | 3*01:01:02:01 | 4*01:03N       | NT       | NT        | 03:01:01    | 03:03:02:01 | NT          | NT       | 04:01:01    | 05:01:01  |
| Final Consensus based on High Resolution | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02       | 07:01       | 14:02    | 3*01:01       | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | 01:03       | 02:02    | 04:01       | 05:01     |

**Table 14. Individual laboratory results for DNA # 863 High Resolution**

| CENTER | A     |             | B         |           | C           |           | DRB1        |          | DRB3/4/5    |                | DQA1     |           | DQB1        |             | DPA1     |          | DPB1      |           |
|--------|-------|-------------|-----------|-----------|-------------|-----------|-------------|----------|-------------|----------------|----------|-----------|-------------|-------------|----------|----------|-----------|-----------|
| 7      | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01       | 14:02    | 3*01:01:02G | 4*01:03N       | 02:01    | 05:01:01G | 03:01       | 03:03       | 01:03    | 02:02    | 04:01     | 05:01     |
| 134    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 138    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 144    | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01G   | 07:02:01G | 07:01:01G   | 14:02:01 | NT          | NT             | 02:01    | 05:03     | 03:01:01G   | 03:03:02G   | NT       | NT       | NT        | NT        |
| 148    | 02:13 | 03:01       | 07:02P    | 40:02P    | 03:04       | 07:02     | 07:01P      | 14:02    | 3*01:01:02  | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01P    | 05:01P    |
| 151    | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G | 07:01:01G   | 14:02    | NT          | NT             | NT       | NT        | 03:01:01    | 03:03:02    | NT       | NT       | 04:01     | 05:01     |
| 160    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 162    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 173    | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | NT          | NT             | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 174    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02:01G | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 175    | 02:13 | 03:01       | 07:02     | 40:02     | 03:02       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 176    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 189    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 190    | 02:13 | 03:01:01:01 | 07:02:01  | 40:02:01  | 03:04:01:01 | 07:02:01G | 07:01:01:01 | 14:02:01 | NT          | NT             | NT       | NT        | 03:01:01:01 | 03:03:02:01 | NT       | NT       | NT        | NT        |
| 193    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 195    | NT    | NT          | 07:02     | NT        | NT          | NT        | 07:01       | NT       | 3*01:01     | 4*01:03:01:02N | 02:01    | NT        | NT          | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 197    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02P    | 07:01P      | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01P    | 05:01P    |
| 209    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | 04:01P    | 05:01P    |
| 218    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 238    | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 239    | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | 04:01P    | 05:01P    |
| 242    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 244    | 02:13 | 03:01       | 07:02P    | 40:02P    | 03:04P      | 07:02P    | 07:01P      | 14:02    | NT          | NT             | 02:01    | 05:01P    | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 249    | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01  | 07:01:01    | 14:02:01 | 3*01:01:02  | 4*01:03:01     | 02:01:01 | 05:03     | 03:01:01    | 03:03:02    | 01:03:01 | 02:02:02 | 04:01:01  | 05:01:01  |
| 262    | 02:13 | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | NT          | NT             | 02:01    | 05:03     | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 267    | 02:13 | 03:01       | 07:02     | 40:02     | 03:02       | 07:01     | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | 02:01    | 05:03     | 03:01       | 03:03       | 02:01    | 03:02    | 04:01     | 05:01     |
| 275    | 02:13 | 03:01       | 07:02     | 40:02     | NT          | NT        | 07:01       | 14:02    | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 278    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | 02:01    | 05:03     | 03:01       | 03:03       | 01:03    | 02:02    | 04:01     | 05:01     |
| 279    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 281    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | 4*01:03N       | 02:01    | NT        | 03:01       | 03:03       | 01:03    | 02:02    | 04:01     | 05:01     |
| 286    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | 14:02    | NT          | NT             | 02:01    | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 288    | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 289    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 292    | NT    | NT          | NT        | NT        | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 297    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | 02:01    | 05:03     | NT          | NT          | NT       | NT       | NT        | NT        |
| 302    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | 02:01    | 05:03     | NT          | NT          | NT       | NT       | NT        | NT        |
| 311    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 313    | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01:01G   | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03:02G   | NT       | NT       | NT        | NT        |
| 315    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01P    | 05:01P    |
| 317    | 02:01 | 03:01       | 07:02     | 40:02     | 03:02       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:01        | 02:01    | 05:03     | 03:01       | 03:03       | 02:01    | 03:02    | 99:01     | 05:01     |
| 319    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 401    | 02:13 | 03:01       | 07:02     | 40:02:01G | 03:04       | 07:02     | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 402    | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | NT        | NT        |
| 519    | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01:01G   | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01:01G | 05:01:01G |
| 615    | 02:13 | 03:01:01G   | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G | 07:01:01G   | 14:02    | 3*01:01:02G | 4*01:03N       | NT       | NT        | 03:01:01G   | 03:03:02G   | NT       | NT       | 04:01:01G | 05:01:01G |
| 702    | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | 01:03    | 02:02    | 04:01     | 05:01     |
| 726    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | 14:02    | NT          | 4*01:03N       | 02:01    | 05:01P    | NT          | NT          | 01:03    | NT       | 04:01P    | 05:01P    |
| 732    | 02:13 | 03:01:01G   | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G | 07:01:01G   | 14:02:01 | 3*01:01:02G | 4*01:03:01:02N | NT       | NT        | 03:01:01G   | 03:03:02G   | NT       | NT       | 04:01:01G | 05:01:01G |
| 769    | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | 04:01P    | 05:01P    |
| 805    | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01       | 14:02    | NT          | NT             | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 1189   | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 1251   | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT       | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 1498   | 02:13 | 03:01:01G   | 07:02:01G | 40:02:01G | 03:04:01G   | 07:02:01G | 07:01:01    | 14:02:01 | 3*01:01:02G | 4*01:03:01:02N | 02:01    | 05:03     | 03:01:01    | 03:03:02    | NT       | NT       | 04:01     | 05:01     |
| 1647   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | 4*01:03:01:02N | NT       | NT        | 03:01       | 03:03       | NT       | NT       | 04:01     | 05:01     |
| 1686   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03:01:02N | 02:01    | 05:03     | 03:01       | 03:03       | 01:03    | 02:02    | 04:01     | 05:01     |

**Table 14. Individual laboratory results for DNA # 863 High Resolution**

| CENTER | A     |             | B         |           | C           |           | DRB1        |          | DRB3/4/5    |                | DQA1  |       | DQB1        |             | DPA1  |       | DPB1      |           |
|--------|-------|-------------|-----------|-----------|-------------|-----------|-------------|----------|-------------|----------------|-------|-------|-------------|-------------|-------|-------|-----------|-----------|
| 2063   | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01    | 07:02:01  | 07:01       | 14:02    | NT          | 4*01:03:01:02N | NT    | NT    | NT          | NT          | NT    | NT    | NT        | NT        |
| 2518   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | 4*01:03:01:02N | NT    | NT    | 03:01       | 03:03       | NT    | NT    | NT        | NT        |
| 2549   | 02:13 | 03:01       | 07:02     | 40:02:01G | 03:04       | 07:02     | 07:01:01G   | 14:02    | NT          | NT             | 02:01 | 05:03 | 03:01       | 03:03       | 01:03 | 02:02 | 04:01:01G | 05:01:01G |
| 3261   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | NT          | NT       | NT          | NT             | NT    | NT    | NT          | NT          | NT    | NT    | NT        | NT        |
| 3325   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | NT          | NT       | NT          | NT             | NT    | NT    | NT          | NT          | NT    | NT    | NT        | NT        |
| 3410   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT    | NT    | 03:01       | 03:03       | NT    | NT    | NT        | NT        |
| 3438   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT    | NT    | 03:01       | 03:03       | NT    | NT    | NT        | NT        |
| 3582   | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01:01G   | 14:02    | 3*01:01:02G | 4*01:01:01G    | NT    | NT    | 03:01       | 03:03       | NT    | NT    | 04:01:01G | 05:01:01G |
| 3600   | NT    | NT          | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT    | NT    | NT          | NT          | NT    | NT    | 04:01P    | 05:01P    |
| 3625   | 02:13 | 03:01       | 07:02     | 40:02     | NT          | 07:02     | 07:01       | 14:02    | NT          | NT             | 02:01 | 05:03 | 03:01       | 03:03       | NT    | NT    | 04:01     | 05:01     |
| 4237   | 02:13 | 03:01       | 07:02:01  | 40:02:01  | 03:04       | 07:02     | 07:01       | 14:02:01 | 3*01:01     | 4*01:03:01:02N | 02:01 | 05:03 | 03:01       | 03:03       | NT    | NT    | NT        | NT        |
| 4420   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | 02:01 | 05:03 | 03:01       | 03:03       | NT    | NT    | NT        | 05:01     |
| 4545   | 02:13 | 03:01       | 07:02:01G | 40:02:01G | 03:04       | 07:02:01G | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | 02:01 | 05:03 | 03:01       | 03:03       | 01:03 | 02:02 | 04:01     | 05:01     |
| 4551   | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | NT    | NT    | 03:01       | 03:03       | NT    | NT    | 04:01     | 05:01     |
| 4582   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | 3*01:01     | 4*01:03N       | 02:01 | 05:03 | 03:01       | 03:03       | 01:03 | 02:02 | 04:01:01G | 05:01     |
| 4585   | NT    | NT          | NT        | NT        | NT          | NT        | NT          | 14:02    | NT          | NT             | 02:01 | NT    | NT          | NT          | NT    | NT    | NT        | NT        |
| 5451   | 02:13 | 03:01:01:01 | NT        | NT        | NT          | NT        | NT          | NT       | NT          | NT             | NT    | NT    | NT          | NT          | NT    | NT    | 04:01:01  | 05:01:01  |
| 6051   | NT    | NT          | NT        | NT        | NT          | NT        | 07:01       | 14:02    | NT          | 4*01:03N       | 02:01 | 05:03 | 03:01       | 03:03       | 01:03 | NT    | 04:01:01G | 05:01:01G |
| 6313   | 02:13 | 03:01:01    | 07:02:01  | 40:02:01  | 03:04:01:01 | 07:02:01  | 07:01:01:01 | 14:02:01 | NT          | NT             | NT    | NT    | 03:01:01:01 | 03:03:02:01 | NT    | NT    | NT        | NT        |
| 9222   | 02:13 | 03:01       | 07:02     | 40:02     | 03:04       | 07:02     | 07:01       | 14:02    | NT          | NT             | NT    | NT    | 03:01       | 03:03       | NT    | NT    | 04:01     | 05:01     |

|                 |       |       |       |       |       |       |       |       |         |                |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Final Consensus | 02:13 | 03:01 | 07:02 | 40:02 | 03:04 | 07:02 | 07:01 | 14:02 | 3*01:01 | 4*01:03:01:02N | 02:01 | 05:03 | 03:01 | 03:03 | 01:03 | 02:02 | 04:01 | 05:01 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|

**Table 15. Individual laboratory results for DNA # 863 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |    |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|----|
| 16     | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 124    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 134    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 138    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 139    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 142    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 144    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 147    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 148    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 168    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 173    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 175    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 189    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 190    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 192    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 195    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 197    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 199    | NT | NT | NT | NT | NT | NT | 07   | 14 | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 205    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 207    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*NULL    | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 209    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 214    | NT | NT | 07 | 40 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 226    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 234    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 238    | NT | NT | NT | NT | NT | NT | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 239    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 242    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 244    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 245    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 255    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 262    | 02 | 03 | 07 | 40 | 08 | 16 | 07   | 14 | 3*PRESENT | 4*PRESENT | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 265    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 266    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 267    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 03   | 02 | 04(DP401) | 05 |
| 268    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 272    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 278    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 279    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 280    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 281    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 282    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 285    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 286    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | NT | NT        | NT        | 05   | 03 | 03   | NT | NT   | NT | NT        | NT |
| 288    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 289    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 290    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 292    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 293    | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | 03 | NT   | NT | NT        | NT |
| 294    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 302    | 02 | 03 | 07 | 40 | 03 | 07 | NT   | NT | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 304    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 305    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 309    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 310    | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 311    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |

**Table 15. Individual laboratory results for DNA # 863 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |    |
|-----------------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|----|
| 313             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 316             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 318             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 319             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*PRESENT | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 401             | 02 | 03 | 07 | 40 | 03 | 07 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 402             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 519             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 615             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 726             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 732             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 769             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 805             | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 1212            | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 1251            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 1647            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*NULL    | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 2063            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*NULL    | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 2549            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 3264            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 3325            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*NULL    | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 3410            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 3438            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 3582            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 3600            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | NT        | NT |
| 3625            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*PRESENT | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 3849            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01      | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 4237            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | NT   | NT | 03   | 03 | NT   | NT | NT        | NT |
| 4420            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | 05 |
| 4551            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | NT   | NT | 04(DP401) | 05 |
| 4582            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 4585            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 4613            | 02 | 03 | 07 | 40 | NT | NT | 07   | 14 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 4709            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 5451            | 02 | 03 | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT |
| 6051            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | 4*01N     | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 6313            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | NT   | NT | NT        | NT |
| 9221            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*PRESENT | 4*NULL    | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| 9222            | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | NT        | NT        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |
| Final Consensus | 02 | 03 | 07 | 40 | 03 | 07 | 07   | 14 | 3*01      | NG        | 02   | 05 | 03   | 03 | 01   | 02 | 04(DP401) | 05 |

**Table 16. Individual laboratory results for DNA # 864 using Next Generation Sequencing**

| CENTER                                   | A           |           | B           |          | C           |           | DRB1     |          | DRB3/4/5      |    | DQA1      |           | DQB1        |             | DPA1        |          | DPB1      |           |
|--|-------------|-----------|-------------|----------|-------------|-----------|----------|----------|---------------|----|-----------|-----------|-------------|-------------|-------------|----------|-----------|-----------|
| 16                                       | 02:01:01    | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | NT            | NP | 01:05:01  | 05:05:01  | 03:01:01:03 | 05:01:01:02 | 01:03:01:02 | 02:02:02 | 01:01:01  | 104:01    |
| 124                                      | 02:01:01:01 | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02G   | NP | NT        | NT        | 03:01:01:02 | 05:01:01    | NT          | NT       | 01:01:01  | 03:01     |
| 131                                      | 02:01:01    | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02:01 | NP | 01:05:01  | 05:05:01  | 03:01:01:03 | 05:01:01:02 | 01:03:01    | 02:02:02 | 01:01:01  | 104:01    |
| 147                                      | NT          | NT        | NT          | NT       | NT          | NT        | NT       | NT       | NT            | NT | NT        | NT        | NT          | NT          | NT          | NT       | NT        | NT        |
| 185                                      | 02:01:01G   | 33:03:01G | 35:01:01G   | 52:01:02 | 04:01:01G   | 16:01:01G | 10:01:01 | 13:03:01 | 3*01:01:02G   | NP | 01:01:01G | 05:01:01G | 03:01P      | 05:01P      | NT          | NT       | 01:01:01G | 03:01:01G |
| 188                                      | 02:01:01:01 | 33:03:01  | 35:01:01:02 | 52:01    | 04:01:01:01 | 16:01:01  | 10:01    | 13:03    | NT            | NT | 01:05     | 05:05     | 03:01       | 05:01       | NT          | NT       | 01:01:01  | 104:01    |
| 192                                      | 02:01       | 33:01     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | 3*01:01       | NP | 01:05     | 05:05     | 03:01       | 05:01       | NT          | NT       | 01:01     | 03:01     |
| 205                                      | 02:01:01    | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01    | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02    | NP | 01:05:01  | 05:05:01  | 03:01:01    | 05:01:01    | 01:03:01    | 02:02:02 | 01:01:01  | 104:01    |
| 207                                      | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | NT            | NT | 01:05     | 05:05     | 03:01       | 05:01       | NT          | NT       | 01:01     | 104:01    |
| 213                                      | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | NT            | NT | NT        | NT        | 03:01       | 05:01       | NT          | NT       | NT        | NT        |
| 227                                      | 02:01       | 33:03:01  | 35:01       | 52:01:02 | 04:01       | 16:01:01  | 10:01    | 13:03    | NT            | NT | NT        | NT        | 03:01:01    | 05:01:01    | NT          | NT       | 01:01:01  | 104:01    |
| 234                                      | NT          | NT        | NT          | NT       | NT          | NT        | NT       | NT       | NT            | NT | NT        | NT        | NT          | NT          | NT          | NT       | NT        | NT        |
| 258                                      | 02:01:01:01 | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | NT            | NT | NT        | NT        | 03:01:01    | 05:01:01    | NT          | NT       | 01:01:01  | 104:01    |
| 264                                      | 02:01:01    | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01    | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02    | NP | 01:05:01  | 05:05:01  | 03:01:01    | 05:01:01    | 01:03:01    | 02:02:02 | 01:01:01  | 104:01    |
| 272                                      | 02:01:01:01 | 33:03:01  | 35:01:01:02 | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02    | NP | 01:05:01  | 05:05:01  | 03:01:01:03 | 05:01:01:02 | 01:03:01    | 02:02:02 | 01:01:01  | 03:01:01G |
| 294                                      | 02:01P      | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | NT            | NT | 01:05     | 05:05     | 03:01       | 05:01       | NT          | NT       | 01:01     | 104:01    |
| 1113                                     | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | 3*01:01       | NT | 01:05     | 05:05     | 03:01       | 05:01       | NT          | NT       | 01:01     | 104:01    |
| 3264                                     | NT          | NT        | NT          | NT       | NT          | NT        | NT       | NT       | NT            | NT | NT        | NT        | NT          | NT          | NT          | NT       | NT        | NT        |
| 3614                                     | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | 3*01:01       | NT | 01:05     | 05:05     | 03:01       | 05:01       | 01:03       | 02:02    | 01:01     | 104:01    |
| 3849                                     | 02:01:01G   | 33:03:01G | 35:01:01G   | 52:01:02 | 04:01:01G   | 16:01:01G | 10:01:01 | 13:03:01 | 3*01:01:02G   | NP | 01:05     | 05:05     | 03:01:01G   | 05:01:01G   | NT          | NT       | 01:01:01G | 03:01:01G |
| 4709                                     | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | NT            | NT | 01:05     | 05:05     | 03:01       | 05:01       | 01:03       | 02:02P   | 01:01     | 104:01    |
| 45452                                    | 02:01:01:01 | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01:01 | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02    | NP | NT        | NT        | 03:01:01    | 05:01:01    | NT          | NT       | 01:01:01  | 104:01    |
| Final Consensus based on High Resolution | 02:01       | 33:03     | 35:01       | 52:01    | 04:01       | 16:01     | 10:01    | 13:03    | 3*01:01       | NP | 01:05     | 05:05     | 03:01       | 05:01       | 01:03       | 02:02    | 01:01     | 104:01    |



**Table 17. Individual laboratory results for DNA # 864 High Resolution**

| CENTER | A           |           | B           |          | C         |           | DRB1     |          | DRB3/4/5    |         | DQA1      |           | DQB1        |             | DPA1     |          | DPB1      |           |
|--------|-------------|-----------|-------------|----------|-----------|-----------|----------|----------|-------------|---------|-----------|-----------|-------------|-------------|----------|----------|-----------|-----------|
| 7      | 02:01       | 33:03     | 35:01:01G   | 52:01    | 04:01:01G | 16:01     | 10:01    | 13:03    | 3*01:01:02G | NP      | 01:01:01G | 05:01:01G | 03:01       | 05:01       | 01:03    | 02:02    | 01:01     | 104:01    |
| 134    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | 3*01:01     | NP      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 138    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01     | 03:01     |
| 144    | 02:01:01G   | 33:03:01  | 35:01:01G   | 52:01:02 | 04:01:01G | 16:01:01  | 10:01:01 | 13:03:01 | NT          | NT      | 01:01:01G | 05:01:01G | 03:01:01G   | 05:01:01G   | NT       | NT       | NT        | NT        |
| 148    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | FTA       | FTA       |
| 151    | 02:01:01G   | 33:03:01  | 35:01:01G   | 52:01:02 | 04:01:01G | 16:01:01G | 10:01:01 | 13:03:01 | NT          | NT      | NT        | NT        | 03:01:01    | 05:01:01    | NT       | NT       | 01:01:01  | 104:01    |
| 160    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 162    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 173    | NT          | NT        | NT          | NT       | NT        | NT        | 10:01    | 13:03    | NT          | NT      | 01:05     | 05:05     | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 174    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01:01G | 16:01:01  | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 175    | NT          | NT        | 35:01       | 52:01    | NT        | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 176    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 189    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | 01:01:01G | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 190    | 02:01:01:01 | 33:03:01  | 35:01:01:01 | 52:01:02 | 04:01:01G | 16:01:01  | 10:01:01 | 13:03:01 | NT          | NT      | NT        | NT        | 03:01:01:01 | 05:01:01:01 | NT       | NT       | NT        | NT        |
| 193    | 02:01       | 33:03     | 35:01:01G   | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 195    | NT          | NT        | NT          | 52:01    | NT        | NT        | 10:01    | NT       | 3*01:01     | NP      | NT        | NT        | NT          | NT          | NT       | NT       | 01:01     | 104:01    |
| 197    | 02:01       | 33:03     | 35:01P      | 52:01    | 04:01P    | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01P    | 03:01P    |
| 209    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | 01:05     | 05:05     | 03:01       | 05:01       | NT       | NT       | 01:01     | 104:01    |
| 218    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 238    | NT          | NT        | NT          | NT       | NT        | NT        | 10:01    | 13:03    | 3*01:01     | NP      | 01:05     | 05:05     | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 239    | NT          | NT        | NT          | NT       | NT        | NT        | 10:01    | 13:03    | 3*01:01     | NT      | NT        | NT        | NT          | 05:01       | NT       | NT       | 01:01     | 03:01P    |
| 242    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | 01:05     | 05:05:01  | NT          | NT          | NT       | NT       | NT        | NT        |
| 244    | 02:01       | 33:03P    | 35:01P      | 52:01P   | 04:01P    | 16:01P    | 10:01P   | 13:03P   | NT          | NT      | 01:01P    | 05:01P    | 03:01P      | 05:01P      | NT       | NT       | NT        | NT        |
| 249    | 02:01:01    | 33:03:01  | 35:01:01    | 52:01:02 | 04:01:01  | 16:01:01  | 10:01:01 | 13:03:01 | 3*01:01:02  | NP      | 01:05:01  | 05:05:01  | 03:01:01    | 05:01:01    | 01:03:01 | 02:02:02 | 01:01:01  | 104:01    |
| 262    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 267    | 02:01       | 33:01     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | 01:04     | 05:05     | 03:01       | 05:01       | 02:01    | 03:02    | 01:01     | 03:01     |
| 275    | 02:01       | 33:03     | 35:01       | 52:01    | NT        | NT        | 10:01    | 13:03    | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 278    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NT      | 01:05     | 05:05     | 03:01       | 05:01       | 01:03    | 02:02    | 01:01     | 104:01    |
| 279    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 281    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 286    | NT          | NT        | NT          | 52:01    | NT        | NT        | NT       | 13:03    | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 288    | NT          | NT        | NT          | NT       | NT        | NT        | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 289    | NT          | NT        | NT          | 52:01    | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 292    | NT          | NT        | NT          | NT       | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 297    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 302    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 311    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 313    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01:01G | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 315    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01P    | 03:01P    |
| 317    | 02:01       | 33:01     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | 3*01:01 | 01:01     | 05:05     | 03:01       | 05:01       | 02:01    | 03:02    | 78:01     | 15:01     |
| 319    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 401    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 402    | NT          | NT        | NT          | NT       | NT        | NT        | 10:01    | 13:01    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | NT        | NT        |
| 519    | 02:01       | 33:03     | 35:01:01G   | 52:01    | 04:01:01G | 16:01     | 10:01    | 13:03    | NT          | NP      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01:01G | 03:01:01G |
| 615    | 02:01:01G   | 33:03:01G | 35:01:01G   | 52:01    | 04:01:01G | 16:01:01G | 10:01    | 13:03    | 3*01:01:02G | NT      | NT        | NT        | 03:01:01G   | 05:01:01G   | NT       | NT       | 01:01:01G | 03:01:01G |
| 702    | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | NT        | NT        | 03:01       | 05:01       | 01:03    | 02:02    | 01:01     | 104:01    |
| 726    | NT          | NT        | NT          | 52:01    | NT        | NT        | NT       | 13:03    | NT          | NT      | 01:01P    | 05:01P    | NT          | NT          | 01:03    | NT       | 01:01P    | 03:01P    |
| 732    | 02:01:01G   | 33:03:01G | 35:01:01G   | 52:01:02 | 04:01:01G | 16:01:01G | 10:01:01 | 13:03:01 | 3*01:01:02G | NP      | NT        | NT        | 03:01:01G   | 05:01:01G   | NT       | NT       | 01:01:01G | 03:01:01G |
| 769    | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | 01:01P    | 03:01P    |
| 805    | 02:01       | 33:03     | 35:01:01G   | 52:01    | 04:01P    | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01     | 104:01    |
| 1189   | 02:01       | 33:03     | 35:01       | 52:01    | 04:01:01G | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01     | 104:01    |
| 1251   | NT          | NT        | NT          | NT       | NT        | NT        | NT       | NT       | NT          | NT      | NT        | NT        | NT          | NT          | NT       | NT       | NT        | NT        |
| 1498   | 02:01:01G   | 33:03     | 35:01:01G   | 52:01    | 04:01:01G | 16:01     | 10:01:01 | 13:03:01 | 3*01:01:02G | NP      | 01:05     | 05:05:01  | 03:01:01    | 05:01:01    | NT       | NT       | 01:01:01  | 104:01    |
| 1647   | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT      | NT        | NT        | 03:01       | 05:01       | NT       | NT       | 01:01     | 104:01    |
| 1686   | 02:01       | 33:03     | 35:01       | 52:01    | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP      | 01:05     | 05:05     | 03:01       | 05:01       | 01:03    | 02:02    | 01:01     | 03:01     |

**Table 17. Individual laboratory results for DNA # 864 High Resolution**

| CENTER | A           |          | B         |           | C         |           | DRB1     |          | DRB3/4/5    |    | DQA1   |        | DQB1  |       | DPA1  |       | DPB1      |           |
|--------|-------------|----------|-----------|-----------|-----------|-----------|----------|----------|-------------|----|--------|--------|-------|-------|-------|-------|-----------|-----------|
| 2063   | 02:01:01:01 | 33:03:01 | 35:01:01  | 52:01:02  | 04:01:01  | 16:01:01  | 10:01:01 | 13:03:01 | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | 01:01:01  | 104:01    |
| 2518   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01:01G | 16:01     | 10:01    | 13:03    | NT          | NT | NT     | NT     | 03:01 | 05:01 | NT    | NT    | NT        | NT        |
| 2549   | 02:01       | 33:03    | 35:01:01G | 52:01     | 04:01:01G | 16:01     | 10:01    | 13:03    | NT          | NT | 01:05  | 05:05  | 03:01 | 05:01 | 01:03 | 02:02 | 01:01     | 03:01     |
| 3261   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | NT       | NT       | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 3325   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01:01G | 16:01     | NT       | NT       | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 3410   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT | NT     | NT     | 03:01 | 05:01 | NT    | NT    | NT        | NT        |
| 3438   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT | NT     | NT     | 03:01 | 05:01 | NT    | NT    | NT        | NT        |
| 3582   | 02:01       | 33:03    | 35:01:01G | 52:01     | 04:01:01G | 16:01     | 10:01    | 13:03    | 3*01:01:02G | NP | NT     | NT     | 03:01 | 05:01 | NT    | NT    | 01:01:01G | 03:01:01G |
| 3600   | NT          | NT       | NT        | NT        | NT        | NT        | NT       | NT       | NT          | NT | NT     | NT     | NT    | NT    | 01:03 | 02:02 | 01:01P    | 104:01    |
| 3625   | 02:01       | 33:03    | NT        | NT        | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT | 01:05  | 05:05  | 03:01 | 05:01 | NT    | NT    | 01:01     | 03:01     |
| 4237   | 02:01       | 33:03:01 | 35:01     | 52:01:02  | 04:01     | 16:01     | 10:01:01 | 13:03:01 | 3*01:01     | NP | 01:01P | 05:01P | 03:01 | 05:01 | NT    | NT    | NT        | NT        |
| 4420   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT | 01:05  | 05:05  | 03:01 | 05:01 | NT    | NT    | 01:01     | NT        |
| 4545   | 02:01       | 33:03    | 35:01:01G | 52:01:01G | 04:01:01G | 16:01     | 10:01    | 13:03    | 3*01:01     | NP | 01:05  | 05:05  | 03:01 | 05:01 | 01:03 | 02:02 | 01:01     | 104:01    |
| 4551   | 02:01:01G   | 33:03    | 35:01:01G | 52:01     | 04:01:01G | 16:01:01G | 10:01    | 13:03    | 3*01:01:02  | NP | NT     | NT     | 03:01 | 05:01 | 01:03 | NT    | 01:01     | 03:01     |
| 4582   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | 10:01    | 13:03    | 3*01:01     | NP | 01:05  | 05:05  | 03:01 | 05:01 | 01:03 | 02:02 | 01:01     | 104:01    |
| 4585   | NT          | NT       | NT        | 52:01     | NT        | NT        | NT       | 13:03    | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 5451   | 02:01:01:01 | 33:03:01 | NT        | NT        | NT        | NT        | NT       | NT       | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | 01:01:01  | 104:01    |
| 6051   | NT          | NT       | NT        | NT        | NT        | NT        | 10:01    | 13:03    | NT          | NT | NT     | NT     | 03:01 | 05:01 | 01:03 | NT    | 01:01:01G | 03:01:01G |
| 6313   | NT          | NT       | NT        | NT        | NT        | NT        | NT       | NT       | NT          | NT | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 9222   | 02:01       | 33:03    | 35:01     | 52:01     | 04:01     | 16:01     | 10:01    | 13:03    | NT          | NT | NT     | NT     | 03:01 | 05:01 | NT    | NT    | 01:01     | 03:01P    |

|                 |       |       |       |       |       |       |       |       |         |    |       |       |       |       |       |       |       |        |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----|-------|-------|-------|-------|-------|-------|-------|--------|
| Final Consensus | 02:01 | 33:03 | 35:01 | 52:01 | 04:01 | 16:01 | 10:01 | 13:03 | 3*01:01 | NP | 01:05 | 05:05 | 03:01 | 05:01 | 01:03 | 02:02 | 01:01 | 104:01 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----|-------|-------|-------|-------|-------|-------|-------|--------|

**Table 18. Individual laboratory results for DNA # 864 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1 |     |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|------|-----|
| 16     | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 124    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | NT   | NT | 01   | 03  |
| 134    | NT | NT | NT | NT | NT | NT | 10   | 13 | 3*01      | NP        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 138    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 139    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 142    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 144    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 147    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 148    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | FTA  | FTA |
| 168    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 173    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 175    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 189    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 190    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 192    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | NT   | NT | 01   | 03  |
| 195    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 197    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | 01   | 03  |
| 199    | NT | NT | NT | NT | NT | NT | 10   | 13 | 3*PRESENT | 3*PRESENT | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 205    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 207    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 209    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 214    | NT | NT | 35 | 52 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 226    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 234    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 238    | NT | NT | NT | NT | NT | NT | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 239    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 242    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 244    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 245    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 255    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 262    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 265    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 266    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 267    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 03   | 02 | 01   | 03  |
| 268    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 272    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 278    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 279    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 280    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 281    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 282    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 285    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 286    | 02 | 33 | 35 | NT | 04 | 16 | 10   | NT | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 288    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 289    | 02 | 33 | 35 | NT | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 290    | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 292    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 293    | 02 | 33 | 35 | 52 | NT | NT | 10   | 11 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 294    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | 01   | 104 |
| 302    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 304    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 305    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 309    | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 310    | 02 | 02 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 311    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |

**Table 18. Individual laboratory results for DNA # 864 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1 |     |
|-----------------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|------|-----|
| 313             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 316             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 318             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 319             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 401             | 02 | 33 | 35 | 52 | 04 | 16 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 402             | 02 | 33 | NT | NT | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 519             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 615             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 726             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 732             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 769             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 805             | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | 01   | 104 |
| 1212            | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 1251            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | 01   | 104 |
| 1647            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 2063            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 2549            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 3264            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 3325            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 3410            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 3438            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 3582            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 3600            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | NT   | NT  |
| 3625            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | 3*PRESENT | 01   | 05 | 03   | 05 | NT   | NT | 01   | 03  |
| 3849            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | NT   | NT | 01   | 03  |
| 4237            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | NT   | NT | 03   | 05 | NT   | NT | NT   | NT  |
| 4420            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | 01   | NT  |
| 4551            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 4582            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 4585            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 4613            | 02 | 33 | 35 | 52 | NT | NT | 10   | 13 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 4709            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 104 |
| 5451            | 02 | 33 | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT   | NT  |
| 6051            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | 3*01      | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 6313            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | NT   | NT | NT   | NT  |
| 9221            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*PRESENT | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| 9222            | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | NT        | NT        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | 03  |
| Final Consensus | 02 | 33 | 35 | 52 | 04 | 16 | 10   | 13 | 3*01      | NP        | 01   | 05 | 03   | 05 | 01   | 02 | 01   | NG  |

**Table 19. Individual laboratory results for DNA # 865 using Next Generation Sequencing**

| CENTER | A           |              | B        |           | C         |          | DRB1      |             | DRB3/4/5      |             | DQA1        |             | DQB1        |           | DPA1        |             | DPB1        |           |
|--------|-------------|--------------|----------|-----------|-----------|----------|-----------|-------------|---------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|
| 16     | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04    | 11:01:01  | 15:01:01    | NT            | NT          | 01:02:01:03 | 05:05:01:02 | 03:01:01:03 | 06:02:01  | 01:03:01:02 | 01:03:01:04 | 04:01:01:01 | 104:01    |
| 124    | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | 3*02:02:01G   | 5*01:01:01G | NT          | NT          | 03:01:01:02 | 06:02:01  | NT          | NT          | 04:01:01:01 | 03:01:01  |
| 131    | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | 3*02:02:01:02 | 5*01:01:01  | 01:02:01    | 05:05:01    | 03:01:01    | 06:02:01  | 01:03:01    | 01:03:01    | 04:01:01:01 | 104:01    |
| 147    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT            | NT          | NT          | NT          | NT          | NT        | NT          | NT          | NT          | NT        |
| 185    | 01:01:01G   | 24:02:01G    | 44:03:02 | 51:01:01G | 07:01:01G | 15:04:01 | 11:01P    | 15:01P      | 3*02:02:01G   | 5*01:01:01G | 01:02:01G   | 05:01:01G   | 03:01P      | 06:02P    | NT          | NT          | 04:01:01G   | 03:01:01G |
| 188    | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01     | 15:01       | NT            | NT          | 01:02:01    | 05:05       | 03:01       | 06:02:01  | NT          | NT          | 04:01       | 104:01    |
| 192    | 01:01       | 24:02:01:02L | 44:03    | 51:01:01G | 07:18     | 15:04    | 11:01     | 15:01       | 3*02:02       | 5*01:01     | 01:02       | 05:05       | 03:01       | 06:02     | NT          | NT          | 04:01:01G   | 03:01:01G |
| 205    | 01:01:01    | 24:02:01     | 44:03:02 | 51:01:01  | 07:06     | 15:04    | 11:01:01  | 15:01:01    | 3*02:02:01    | 5*01:01:01  | 01:02:01    | 05:05:01    | 03:01:01    | 06:02:01  | 01:03:01    | 01:03:01    | 04:01P      | 104:01    |
| 207    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT            | NT          | 01:02       | 05:05       | 03:01       | 06:02     | NT          | NT          | 04:01       | 104:01    |
| 213    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT            | NT          | NT          | NT          | 03:01       | 06:02     | NT          | NT          | NT          | NT        |
| 227    | 01:01:01:01 | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT            | NT          | NT          | NT          | 03:01       | 06:02     | NT          | NT          | 04:01:01    | 104:01    |
| 234    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT            | NT          | NT          | NT          | NT          | NT        | NT          | NT          | NT          | NT        |
| 258    | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | NT            | NT          | NT          | NT          | 03:01:01    | 06:02:01  | NT          | NT          | 04:01:01    | 104:01    |
| 264    | 01:01:01    | 24:02:01     | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | 3*02:02:01    | 5*01:01:01  | 01:02:01    | 05:05:01    | 03:01:01    | 06:02:01  | 01:03:01    | 01:03:01    | 04:01:01G   | 03:01:01G |
| 272    | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | 3*02:02:01:02 | 5*01:01:01  | 01:02:01    | 05:05:01    | 03:01:01:03 | 06:02:01  | 01:03:01    | 01:03:01    | 04:01:01G   | 03:01:01G |
| 294    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT            | NT          | 01:02       | 05:05       | 03:01       | 06:02     | NT          | NT          | 04:01       | 104:01    |
| 1113   | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02       | 5*01:01     | 01:02       | 05:05       | 03:01       | 06:02     | NT          | NT          | 04:01       | 104:01    |
| 3264   | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01:01 | 3*02:02       | 5*01:01     | 01:02:01:03 | 05:05:01:02 | 03:01:01    | 06:02:01  | NT          | NT          | 04:01:01:01 | 104:01    |
| 3614   | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02       | NT          | 01:02       | 05:05       | 03:01       | 06:02     | 01:03       | NT          | 04:01       | 104:01    |
| 3849   | 01:01:01G   | 24:02:01G    | 44:03:02 | 51:01:01G | 07:01:01G | 15:04:01 | 11:01:01G | 15:01       | 3*02:02:01G   | 5*01:01:01  | 01:02:01G   | 05:01:01G   | 03:01:01G   | 06:02:01G | NT          | NT          | 04:01:01G   | 03:01:01G |
| 4709   | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT            | NT          | 01:02       | 05:05       | 03:01       | 06:02     | 01:03       | 01:03       | 04:01       | 104:01    |
| 45452  | 01:01:01:01 | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04    | 11:01:01  | 15:01:01:01 | 3*02:02:01    | 5*01:01:01  | NT          | NT          | 03:01:01    | 06:02:01  | NT          | NT          | 04:01:01G   | 03:01:01G |

|  |       |              |       |       |       |       |       |       |         |         |       |       |       |       |       |       |       |        |
|--|-------|--------------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--------|
| Final Consensus based on High Resolution | 01:01 | 24:02:01:02L | 44:03 | 51:01 | 07:06 | 15:04 | 11:01 | 15:01 | 3*02:02 | 5*01:01 | 01:02 | 05:05 | 03:01 | 06:02 | 01:03 | 01:03 | 04:01 | 104:01 |
|--|-------|--------------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|--------|

**Table 20. Individual laboratory results for DNA # 865 High Resolution**

| CENTER | A           |              | B        |           | C         |          | DRB1      |             | DRB3/4/5    |             | DQA1      |           | DQB1        |           | DPA1     |          | DPB1      |           |
|--------|-------------|--------------|----------|-----------|-----------|----------|-----------|-------------|-------------|-------------|-----------|-----------|-------------|-----------|----------|----------|-----------|-----------|
| 7      | 01:01       | 24:02        | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01     | 15:01       | 3*02:02:01G | 5*01:01     | 01:02:01G | 05:01:01G | 03:01       | 06:02     | 01:03    | 01:03    | 04:01:01G | 03:01:01G |
| 134    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | 3*02:02     | 5*01:01     | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 138    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01     | 03:01     |
| 144    | 01:01:01:01 | 02:01:01G    | 44:03:02 | 51:01:01G | 07:01:01G | 15:04:01 | 11:01:01  | 15:01:01G   | NT          | NT          | 01:02:01G | 05:01:01G | 03:01:01G   | 06:02:01  | NT       | NT       | NT        | NT        |
| 148    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | 04:01P    | 03:01P    |
| 151    | 01:01:01:01 | 24:02:01G    | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01:01G   | 06:02     | NT       | NT       | 04:01     | 104:01    |
| 160    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 162    | 01:01       | 24:02        | 44:03    | 51:01     | 07:01:01G | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01:01G   | 06:02:01G | NT       | NT       | NT        | NT        |
| 173    | NT          | NT           | NT       | NT        | NT        | NT       | 11:01     | 15:01       | NT          | NT          | 01:02     | 05:05     | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 174    | 01:01       | 24:02        | 44:03    | 51:01     | 07:01:01G | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 175    | 01:01       | NT           | 44:03    | 51:01     | NT        | 15:04    | 11:01     | NT          | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 176    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 189    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 190    | 01:01:01:01 | 24:02:01G    | 44:03:02 | 51:01:01  | 07:01:01G | 15:04:01 | 11:01:01  | 15:01:01:01 | NT          | NT          | NT        | NT        | 03:01:01:01 | 06:02:01  | NT       | NT       | NT        | NT        |
| 193    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 195    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 197    | 01:01       | 24:02        | 44:03    | 51:01P    | 07:01P    | 15:04    | 11:01P    | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01P    | 03:01P    |
| 209    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 218    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 238    | NT          | NT           | NT       | NT        | NT        | NT       | 11:01     | 15:01       | 3*02:02     | 5*01:01     | 01:02     | 05:05     | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 239    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | 01:02     | NT        | NT          | NT        | NT       | NT       | 04:01P    | 03:01P    |
| 242    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 244    | 01:01P      | 24:02P       | 44:03P   | 51:01P    | 07:06     | 15:04    | 11:01P    | 15:01P      | NT          | NT          | 01:02P    | 05:01P    | 03:01P      | 06:02P    | NT       | NT       | NT        | NT        |
| 249    | 01:01:01:01 | 24:02:01     | 44:03:02 | 51:01:01  | 07:06     | 15:04:01 | 11:01:01  | 15:01:01    | 3*02:02:01  | 5*01:01:01  | 01:02:01  | 05:05:01  | 03:01:01    | 06:02:01  | 01:03:01 | 01:03:01 | 04:01:01  | 104:01    |
| 262    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 267    | 01:01       | 24:02        | 44:03    | 51:01     | 07:01     | 15:02    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | 01:02     | 05:05     | 03:01       | 06:02     | 01:03    | 01:03    | 04:01     | 03:01     |
| 275    | 01:01       | 24:02        | 44:03    | 51:01     | NT        | NT       | 11:01     | 15:01       | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 278    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | 01:02     | 05:05     | 03:01       | 06:02     | 01:03    | 01:03    | 04:01     | 104:01    |
| 279    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 281    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 286    | NT          | 24:02        | NT       | NT        | NT        | 15:04    | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 288    | NT          | NT           | NT       | NT        | NT        | NT       | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 289    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:18     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 292    | NT          | NT           | NT       | NT        | 07:01     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 297    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 302    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 311    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | 01:02     | 05:05     | NT          | NT        | NT       | NT       | NT        | NT        |
| 313    | 01:01       | 24:02        | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01:01G | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 315    | 01:01:01:01 | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01P    | 03:01P    |
| 317    | 01:01       | 24:02        | 44:03    | 51:01     | 07:01     | 15:04    | 11:01     | 15:01       | 3*01:01     | 5*01:01     | 01:02     | 05:05     | 03:01       | 06:01     | 01:03    | 01:03    | 04:01     | 03:01     |
| 319    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | NT        | NT        |
| 401    | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 402    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 519    | 01:01       | 24:02:01:02L | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01:01G | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01:01G | 03:01:01G |
| 615    | 01:01:01G   | 24:02:01G    | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01:01G | 15:01:01G   | 3*02:02:01G | 5*01:01:01G | NT        | NT        | 03:01:01G   | 06:02:01G | NT       | NT       | 04:01:01G | 03:01:01G |
| 702    | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | NT        | NT        | 03:01       | 06:02     | 01:03    | 01:03    | 04:01     | 104:01    |
| 726    | NT          | 24:02:01:02L | NT       | NT        | NT        | 15:04    | NT        | NT          | NT          | NT          | 05:01P    | NT        | NT          | NT        | 01:03    | NT       | 04:01P    | 03:01P    |
| 732    | 01:01:01:01 | 24:02:01:02L | 44:03    | 51:01:01G | 07:01:01G | 15:04:01 | 11:01:01G | 15:01:01G   | 3*02:02:01G | 5*01:01:01G | NT        | NT        | 03:01:01G   | 06:02:01G | NT       | NT       | 04:01:01G | 03:01:01G |
| 769    | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | 04:01P    | 03:01P    |
| 805    | 01:01       | 24:02        | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01:01G   | 06:02     | NT       | NT       | 04:01     | 104:01    |
| 1189   | 01:01       | 24:02:01:02L | 44:03    | 51:01:01G | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01     | 104:01    |
| 1251   | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT          | NT        | NT       | NT       | NT        | NT        |
| 1498   | 01:01:01G   | 24:02:01G    | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01:01  | 15:01:01    | 3*02:02:01G | 5*01:01:01G | 01:02     | 05:05:01  | 03:01:01    | 06:02:01  | NT       | NT       | 04:01     | 104:01    |
| 1647   | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | NT          | NT          | NT        | NT        | 03:01       | 06:02     | NT       | NT       | 04:01     | 104:01    |
| 1686   | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01       | 3*02:02     | 5*01:01     | 01:02     | 05:05     | 03:01       | 06:02     | 01:03    | 01:03    | 04:01     | 03:01     |

**Table 20. Individual laboratory results for DNA # 865 High Resolution**

| CENTER          | A           |              | B        |           | C         |          | DRB1      |           | DRB3/4/5    |             | DQA1   |           | DQB1  |       | DPA1  |       | DPB1      |           |
|-----------------|-------------|--------------|----------|-----------|-----------|----------|-----------|-----------|-------------|-------------|--------|-----------|-------|-------|-------|-------|-----------|-----------|
| 2063            | 01:01:01    | 24:02:01:02L | 44:03:02 | 51:01:01  | 07:06     | 15:04    | 11:01     | 15:01     | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | NT        | 104:01    |
| 2518            | 01:01       | 24:02        | 44:03    | 51:01     | 07:01:01G | 15:04    | 11:01     | 15:01     | NT          | NT          | NT     | NT        | 03:01 | 06:02 | NT    | NT    | NT        | NT        |
| 2549            | 01:01       | 24:02:01:02L | 44:03    | 51:01:01G | 07:06     | 15:04    | 11:01:01G | 15:01     | NT          | NT          | 01:02  | 05:01:01G | 03:01 | 06:02 | 01:03 | NT    | 04:01:01G | 03:01:01G |
| 3261            | 01:01:01    | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | NT        | NT        | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | NT        | NT        |
| 3325            | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | NT        | NT        | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | NT        | NT        |
| 3410            | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01     | NT          | NT          | NT     | NT        | 03:01 | 06:02 | NT    | NT    | NT        | NT        |
| 3438            | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01     | NT          | NT          | NT     | NT        | 03:01 | 06:02 | NT    | NT    | NT        | NT        |
| 3582            | 01:01       | 24:02        | 44:03    | 51:01     | 07:01:01G | 15:04    | 11:01:01G | 15:01     | 3*02:02:01G | 5*01:01:01G | NT     | NT        | 03:01 | 06:02 | NT    | NT    | 04:01:01G | 03:01:01G |
| 3600            | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT        | NT          | NT          | NT     | NT        | NT    | NT    | 01:03 | 01:03 | 04:01P    | 104:01    |
| 3625            | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01     | NT          | NT          | 01:02  | 05:05     | 03:01 | 06:02 | NT    | NT    | 04:01     | 03:01     |
| 4237            | 01:01:01:01 | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04:01 | 11:01:01  | 15:01     | 3*02:02     | 5*01:01     | 01:01P | 05:01P    | 03:01 | 06:02 | NT    | NT    | NT        | NT        |
| 4420            | 01:01       | 24:02        | 44:03    | 51:01     | 07:06     | 15:09    | 11:01     | NT        | NT          | NT          | 01:02  | 05:05     | 03:01 | 06:02 | NT    | NT    | NT        | NT        |
| 4545            | 01:01       | 24:02:01:02L | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01     | 15:01     | 3*02:02     | 5*01:01     | 01:02  | 05:05     | 03:01 | 06:02 | 01:03 | 01:03 | 04:01:01G | 03:01:01G |
| 4551            | 01:01:01G   | 24:02:01G    | 44:03    | 51:01:01G | 07:01:01G | 15:04    | 11:01:01G | 15:01:01G | 3*02:02     | 5*01:01     | NT     | NT        | 03:01 | 06:02 | 01:03 | NT    | 04:01     | 03:01     |
| 4582            | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01     | 3*02:02     | 5*01:01     | 01:02  | 05:05     | 03:01 | 06:02 | 01:03 | 01:03 | 04:01:01G | 104:01    |
| 4585            | NT          | NT           | NT       | NT        | NT        | 15:04    | 11:01     | NT        | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | NT        | NT        |
| 5451            | 01:01:01:01 | 24:02:01:02L | NT       | NT        | NT        | NT       | NT        | NT        | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | 04:01:01  | 104:01    |
| 6051            | NT          | 24:02:01:02L | NT       | NT        | NT        | NT       | 11:01     | 15:01     | NT          | NT          | NT     | NT        | 03:01 | 06:02 | 01:03 | 01:03 | 04:01:01G | 03:01:01G |
| 6313            | NT          | NT           | NT       | NT        | NT        | NT       | NT        | NT        | NT          | NT          | NT     | NT        | NT    | NT    | NT    | NT    | NT        | NT        |
| 9222            | 01:01       | 24:02        | 44:03    | 51:01     | 07:01     | 15:04    | 11:01     | 15:01     | NT          | NT          | NT     | NT        | 03:01 | 06:02 | NT    | NT    | 04:01     | 03:01P    |
| Final Consensus | 01:01       | 24:02:01:02L | 44:03    | 51:01     | 07:06     | 15:04    | 11:01     | 15:01     | 3*02:02     | 5*01:01     | 01:02  | 05:05     | 03:01 | 06:02 | 01:03 | 01:03 | 04:01     | 104:01    |

**Table 21. Individual laboratory results for DNA # 865 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |     |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----|
| 16     | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 124    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 03  |
| 134    | NT | NT | NT | NT | NT | NT | 11   | 15 | 3*02      | 5*01      | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 138    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 139    | 02 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 142    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 144    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 147    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 148    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | FTA       | FTA |
| 168    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 173    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 175    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 189    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 190    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 192    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 03  |
| 195    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 197    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 04(DP401) | 03  |
| 199    | NT | NT | NT | NT | NT | NT | 04   | 15 | 4*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 205    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 207    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 209    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 214    | NT | NT | 44 | 51 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 226    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 234    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 238    | NT | NT | NT | NT | NT | NT | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 239    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 242    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 244    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 245    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 255    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 262    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 265    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 266    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 267    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 268    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 272    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 278    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 279    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 280    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 281    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 282    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 285    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 286    | 01 | NT | 44 | 51 | 07 | NT | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 288    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 289    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 290    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 292    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 293    | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 294    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 104 |
| 302    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 304    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 305    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 309    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 310    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 311    | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 4*PRESENT | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |



**Table 21. Individual laboratory results for DNA # 865 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |     |
|-----------------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----|
| 313             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 316             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 318             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 319             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 401             | 01 | 24 | 44 | 51 | 07 | 15 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 402             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 519             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 615             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 726             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 732             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 769             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 805             | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 04(DP401) | 104 |
| 1212            | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 1251            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 04(DP401) | 104 |
| 1647            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 2063            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 2549            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | NT | 04(DP401) | 03  |
| 3264            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 104 |
| 3325            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 3410            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 3438            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 3582            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 3600            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | NT        | NT  |
| 3625            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 03  |
| 3849            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | NT   | NT | 04(DP401) | 03  |
| 4237            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT  |
| 4420            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 4551            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 4582            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 4585            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 4613            | 01 | 24 | 44 | 51 | NT | NT | 11   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 4709            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 104 |
| 5451            | 01 | 24 | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT  |
| 6051            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| 6313            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | NT   | NT | NT        | NT  |
| 9221            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*PRESENT | 5*PRESENT | 01   | 05 | 03   | 06 | 01   | NT | 04(DP401) | 03  |
| 9222            | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | NT        | NT        | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | 03  |
| Final Consensus | 01 | 24 | 44 | 51 | 07 | 15 | 11   | 15 | 3*02      | 5*01      | 01   | 05 | 03   | 06 | 01   | 01 | 04(DP401) | NG  |

**Table 22. Individual laboratory results for DNA # 866 using Next Generation Sequencing**

| CENTER | A           |           | B         |           | C         |             | DRB1     |           | DRB3/4/5    |             | DQA1        |           | DQB1      |           | DPA1        |             | DPB1      |             |
|--------|-------------|-----------|-----------|-----------|-----------|-------------|----------|-----------|-------------|-------------|-------------|-----------|-----------|-----------|-------------|-------------|-----------|-------------|
| 16     | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | 4*01:03     | NT          | 01:02:01:01 | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01:01 | 01:03:01:05 | 02:01:02G | 04:02:01G   |
| 124    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | 4*01:01:01G | 5*01:01:01G | NT          | NT        | 03:02:01  | 06:02:01  | NT          | NT          | 02:01:02  | 04:02:01:02 |
| 131    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | 4*01:03:01  | 5*01:01:01  | 01:02:01:01 | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01    | 01:03:01    | 02:01:02G | 04:02:01G   |
| 147    | NT          | NT        | NT        | NT        | NT        | NT          | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT        | NT          | NT          | NT        | NT          |
| 185    | 01:01:01G   | 33:03:01G | 27:05:02G | 40:01:01G | 02:02:02G | 07:02:01G   | 04:05P   | 15:01P    | 4*01:01:01G | 5*01:01:01G | 01:02:01G   | 03:01:01G | 03:02P    | 06:02P    | NT          | NT          | 02:01:02G | 04:02:01G   |
| 188    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05    | 15:01     | NT          | NT          | 01:02:01    | 03:03:01  | NT        | NT        | NT          | NT          | 02:01P    | 04:02P      |
| 192    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | 4*01:03     | 5*01:01     | 01:02       | 03:03     | 03:02     | 06:02     | NT          | NT          | 02:01     | 04:02       |
| 205    | 01:01:01    | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01    | 04:05:01 | 15:01:01  | 4*01:03:01  | 5*01:01:01  | 01:02:01    | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01    | 01:03:01    | 02:01:02  | 04:02:01    |
| 207    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | NT          | NT          | 01:02       | 03:03     | 03:02     | 06:02     | NT          | NT          | 02:01     | 04:02       |
| 213    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | NT          | NT          | NT          | NT        | 03:02     | 06:02     | NT          | NT          | NT        | NT          |
| 227    | 01:01:01:01 | 33:03:01  | 27:05     | 40:01     | 02:02:02  | 07:02       | 04:05:01 | 15:01     | NT          | NT          | NT          | NT        | 03:02     | 06:02     | NT          | NT          | 02:01:02  | 04:02       |
| 234    | NT          | NT        | NT        | NT        | NT        | NT          | NT       | NT        | NT          | NT          | NT          | NT        | NT        | NT        | NT          | NT          | NT        | NT          |
| 258    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | NT          | NT          | NT          | NT        | 03:02:01  | 06:02:01  | NT          | NT          | 02:01:02G | 04:02:01G   |
| 264    | 01:01:01    | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01    | 04:05:01 | 15:01:01  | 4*01:03:01  | 5*01:01:01  | 01:02:01    | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01    | 01:03:01    | 02:01:02G | 04:02:01G   |
| 272    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | 4*01:03:01  | 5*01:01:01  | 01:02:01    | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01    | 01:03:01    | 02:01:02G | 04:02:01G   |
| 294    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | NT          | NT          | 01:02       | 03:03     | 03:02     | 06:02     | NT          | NT          | 02:01P    | 04:02P      |
| 1113   | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | 4*01:03     | 5*01:01     | 01:02       | 03:03     | 03:02     | 06:02     | NT          | NT          | 02:01     | 04:02       |
| 3264   | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01:01 | 04:05:01 | 15:01:01  | 4*01:03     | 5*01:01     | 01:02:01:01 | 03:03:01  | 03:02:01  | 06:02:01  | NT          | NT          | 02:01:02G | 04:02:01G   |
| 3614   | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | 4*01:03     | NT          | 01:02       | 03:03     | 03:02     | 06:02     | 01:03       | NT          | 02:01     | 04:02       |
| 3849   | 01:01:01G   | 33:03:01G | 27:05:02G | 40:01:01G | 02:02:02G | 07:02:01G   | 04:05:01 | 15:01:01G | 4*01:01:01G | 5*01:01:01  | 01:02:01G   | 03:03     | 03:02:01G | 06:02:01G | NT          | NT          | 02:01:02G | 04:02:01G   |
| 4709   | 01:01       | 33:01     | 27:05     | 40:01     | 02:02     | 07:02       | 04:05    | 15:01     | NT          | NT          | 01:02       | 03:03     | 03:02     | 06:02     | 01:03       | 01:03       | 02:01:02G | 04:02:01G   |
| 45452  | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01    | 04:05:01 | 15:01:01  | 4*01:03:01  | 5*01:01:01  | NT          | NT        | 03:02:01  | 06:02:01  | NT          | NT          | 02:01:02G | 04:02:01G   |

|  |       |       |       |       |       |       |       |       |         |         |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Final Consensus based on High Resolution | 01:01 | 33:03 | 27:05 | 40:01 | 02:02 | 07:02 | 04:05 | 15:01 | 4*01:03 | 5*01:01 | 01:02 | 03:03 | 03:02 | 06:02 | 01:03 | 01:03 | 02:01 | 04:02 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|

**Table 23. Individual laboratory results for DNA # 866 High Resolution**

| CENTER | A           |           | B         |           | C         |           | DRB1     |             | DRB3/4/5    |             | DQA1      |           | DQB1      |           | DPA1     |          | DPB1      |           |
|--------|-------------|-----------|-----------|-----------|-----------|-----------|----------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|
| 7      | 01:01       | 33:03     | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | 4*01:01:01G | 5*01:01     | 01:02:01G | 03:01:01G | 03:02     | 06:02     | 01:03    | 01:03    | 02:01:02G | 04:02:01G |
| 134    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | 4*01:03     | 5*01:01     | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 138    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01     | 04:02     |
| 144    | 01:01:01:01 | 33:03:01  | 27:05:02G | 40:01     | 02:02:02  | 07:02:01G | 04:05:01 | 15:02:01    | NT          | NT          | 01:02:01G | 03:01:01G | 03:02:01  | 06:02:01  | NT       | NT       | NT        | NT        |
| 148    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 151    | 01:01:01:01 | 33:03:01  | 27:05:02G | 40:01:01G | 02:02:02  | 07:02:01G | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01     | 04:02     |
| 160    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:03     | 5*01:01     | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 162    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02:01G | 06:02:01G | NT       | NT       | NT        | NT        |
| 173    | NT          | NT        | NT        | NT        | NT        | NT        | 04:05    | 15:01       | NT          | NT          | 01:02     | 03:03     | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 174    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 175    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 176    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 189    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | 5*01:01     | 01:02:01G | 03:01:01G | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 190    | 01:01:01:01 | 33:03:01  | 27:05:02  | 40:01     | 02:02:02  | 07:02:01G | 04:05:01 | 15:01:01:01 | NT          | NT          | NT        | NT        | 03:02:01  | 06:02:01  | NT       | NT       | NT        | NT        |
| 193    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 195    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 197    | 01:01       | 33:03     | 27:05P    | 40:01     | 02:02     | 07:02P    | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01P    | 04:02P    |
| 209    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 218    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 238    | NT          | NT        | NT        | NT        | NT        | NT        | 04:05    | 15:01       | 4*01:03     | 5*01:01     | 01:02     | 03:03     | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 239    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | 4*01:03     | NT          | 01:02     | 03:03     | 03:02     | NT        | NT       | NT       | 02:01P    | 04:02P    |
| 242    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 244    | 01:01P      | 33:03P    | 27:05     | 40:01P    | 02:02     | 07:02     | 04:05P   | 15:01P      | NT          | NT          | 01:02P    | 03:01P    | 03:02P    | 06:02P    | NT       | NT       | NT        | NT        |
| 249    | 01:01:01    | 33:03:01  | 27:05:02  | 40:01:02  | 02:02:02  | 07:02:01  | 04:05:01 | 15:01:01    | 4*01:03:01  | 5*01:01:01  | 01:02:01  | 03:03:01  | 03:02:01  | 06:02:01  | 01:03:01 | 01:03:01 | 02:01:02  | 04:02:01  |
| 262    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 267    | 01:01       | 33:01     | 27:03     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:01     | 5*01:01     | 01:02     | 03:01     | 03:02     | 06:02     | 01:03    | 01:03    | 02:01     | 04:02     |
| 275    | 01:01       | 33:03     | 27:05     | 40:01     | NT        | NT        | 04:05    | 15:01       | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 278    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:03     | 5*01:01     | 01:02     | 03:03     | 03:02     | 06:02     | 01:03    | 01:03    | 02:01     | 04:02     |
| 279    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 281    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 286    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 288    | NT          | NT        | NT        | NT        | NT        | NT        | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 289    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 292    | NT          | NT        | NT        | NT        | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 297    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 302    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 311    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 313    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 315    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01     | 04:02     |
| 317    | 01:01       | 33:01     | 27:03     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:01     | 5*01:01     | 01:02     | 03:01     | 03:02     | 06:02     | 01:03    | 01:03    | 21:01     | 32:01     |
| 319    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | NT        |
| 401    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 402    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 519    | 01:01       | 33:03     | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | NT        | 04:02:01G |
| 615    | 01:01:01G   | 33:01:01G | 27:05:02G | 40:01:01G | 02:02:02G | 07:02:01G | 04:05    | 15:01:01G   | 4*01:01:01G | 5*01:01:01G | NT        | NT        | 03:02:01G | 06:02:01G | NT       | NT       | 02:01:02G | 04:02:01G |
| 702    | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:03     | 5*01:01     | NT        | NT        | 03:02     | 06:02     | 01:03    | 01:03    | 02:01     | 04:02     |
| 726    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | 01:02P    | 03:01P    | NT        | NT        | 01:03    | NT       | 02:01P    | 04:02P    |
| 732    | 01:01:01G   | 33:03:01  | 27:05:02G | 40:01:01G | 02:02:02G | 07:02:01G | 04:05:01 | 15:01:01G   | 4*01:01:01G | 5*01:01:01G | NT        | NT        | 03:02:01G | 06:02:01G | NT       | NT       | 02:01:02G | 04:02:01G |
| 769    | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | 02:01P    | 04:02P    |
| 805    | 01:01       | 33:03     | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01:02G | 04:02:01G |
| 1189   | 01:01       | 33:03     | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01       | 4*01:03     | 5*01:01     | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01:02G | 04:02:01G |
| 1251   | NT          | NT        | NT        | NT        | NT        | NT        | NT       | NT          | NT          | NT          | NT        | NT        | NT        | NT        | NT       | NT       | NT        | NT        |
| 1498   | 01:01:01G   | 33:03     | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05:01 | 15:01:01    | 4*01:03     | 5*01:01:01G | 01:02     | 03:03     | 03:02:01  | 06:02:01  | NT       | NT       | 02:01     | 04:02     |
| 1647   | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | NT          | NT          | NT        | NT        | 03:02     | 06:02     | NT       | NT       | 02:01     | 04:02     |
| 1686   | 01:01       | 33:03     | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01       | 4*01:03     | 5*01:01     | 01:02     | 03:03     | 03:02     | 06:02     | 01:03    | 01:03    | 02:01     | 04:02     |

**Table 23. Individual laboratory results for DNA # 866 High Resolution**

| CENTER | A           |          | B         |           | C         |           | DRB1     |           | DRB3/4/5    |             | DQA1   |        | DQB1  |       | DPA1  |       | DPB1      |           |
|--------|-------------|----------|-----------|-----------|-----------|-----------|----------|-----------|-------------|-------------|--------|--------|-------|-------|-------|-------|-----------|-----------|
| 2063   | 01:01:01    | 33:03:01 | 27:05     | 40:01:02  | 02:02:02  | 07:02:01  | 04:05:01 | 15:01     | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 2518   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | NT          | NT          | NT     | NT     | 03:02 | 06:02 | NT    | NT    | NT        | NT        |
| 2549   | 01:01       | 33:03    | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01     | NT          | NT          | 01:02  | 03:03  | 03:02 | 06:02 | 01:03 | NT    | 02:01:02G | 04:02:01G |
| 3261   | 01:01:01    | 33:03:01 | 27:05     | 40:01     | 02:02     | 07:02     | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 3325   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 3410   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | NT          | NT          | NT     | NT     | 03:02 | 06:02 | NT    | NT    | NT        | NT        |
| 3438   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | NT          | NT          | NT     | NT     | 03:02 | 06:02 | NT    | NT    | NT        | NT        |
| 3582   | 01:01       | 33:03    | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01     | 4*01:01:01G | 5*01:01:01G | NT     | NT     | 03:02 | 06:02 | NT    | NT    | 02:01:02G | 04:02:01G |
| 3600   | NT          | NT       | NT        | NT        | NT        | NT        | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | 02:01P    | 04:02P    |
| 3625   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | NT          | NT          | 01:02  | 03:02  | 03:02 | 06:02 | NT    | NT    | 02:01     | 04:02     |
| 4237   | 01:01:01:01 | 33:03:01 | 27:05:02  | 40:01:02  | 02:02     | 07:02     | 04:05:01 | 15:01     | 4*01:03     | 5*01:01     | 01:02P | 03:01P | 03:02 | 06:02 | NT    | NT    | NT        | NT        |
| 4420   | 01:01       | 33:03    | 27:03     | 40:01     | 02:02     | 07:02     | 04:05    | NT        | NT          | NT          | 01:02  | 03:03  | 03:02 | 06:02 | NT    | NT    | 02:01     | NT        |
| 4545   | 01:01       | 33:03    | 27:05:02G | 40:01     | 02:02     | 07:02:01G | 04:05    | 15:01     | 4*01:03     | 5*01:01     | 01:02  | 03:03  | 03:02 | 06:02 | 01:03 | 01:03 | 02:01:02G | 04:02:01G |
| 4551   | 01:01:01G   | 33:03    | 27:05:02G | 40:01:01G | 02:02:02G | 07:02:01G | 04:05    | 15:01:01G | 4*01:03     | 5*01:01     | NT     | NT     | 03:02 | 06:02 | 01:03 | NT    | 02:01     | 04:02     |
| 4582   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | 4*01:03     | 5*01:01     | 01:02  | 03:03  | 03:02 | 06:02 | 01:03 | 01:03 | 02:01     | 04:02     |
| 4585   | NT          | NT       | NT        | NT        | NT        | NT        | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 5451   | 01:01:01:01 | 33:03:01 | NT        | NT        | NT        | NT        | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | 02:01     | 04:02:01  |
| 6051   | NT          | NT       | NT        | NT        | NT        | NT        | 04:05    | 15:01     | NT          | NT          | NT     | NT     | 03:02 | 06:02 | 01:03 | 01:03 | 02:01:02G | 04:02:01G |
| 6313   | NT          | NT       | NT        | NT        | NT        | NT        | NT       | NT        | NT          | NT          | NT     | NT     | NT    | NT    | NT    | NT    | NT        | NT        |
| 9222   | 01:01       | 33:03    | 27:05     | 40:01     | 02:02     | 07:02     | 04:05    | 15:01     | NT          | NT          | NT     | NT     | 03:02 | 06:02 | NT    | NT    | 02:01     | 04:02     |

|                 |       |       |       |       |       |       |       |       |         |         |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Final Consensus | 01:01 | 33:03 | 27:05 | 40:01 | 02:02 | 07:02 | 04:05 | 15:01 | 4*01:03 | 5*01:01 | 01:02 | 03:03 | 03:02 | 06:02 | 01:03 | 01:03 | 02:01 | 04:02 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|

**Table 24. Individual laboratory results for DNA # 866 Low Resolution**

| CENTER | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |           |
|--------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----------|
| 16     | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 124    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 134    | NT | NT | NT | NT | NT | NT | 04   | 15 | 4*01      | 5*01      | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 138    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 139    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 142    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 144    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 147    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 148    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 168    | NT | NT | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 173    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 175    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 189    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 190    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 192    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 195    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 197    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 199    | NT | NT | NT | NT | NT | NT | 12   | 15 | 3*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 205    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 207    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 209    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 214    | NT | NT | 27 | 40 | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 226    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 234    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 238    | NT | NT | NT | NT | NT | NT | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 239    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 242    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 244    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 245    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 255    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 262    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 265    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 266    | 01 | 33 | 27 | 40 | 02 | 07 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 267    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 268    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 272    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 278    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 279    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 280    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 281    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 282    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 285    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 286    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 288    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 289    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 290    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 292    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 293    | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 294    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 302    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 304    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 305    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 309    | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 310    | 01 | 33 | 27 | 40 | 02 | 01 | 04   | 15 | 4*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 311    | NT | NT | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |

**Table 24. Individual laboratory results for DNA # 866 Low Resolution**

| CENTER          | A  |    | B  |    | C  |    | DRB1 |    | DRB3/4/5  |           | DQA1 |    | DQB1 |    | DPA1 |    | DPB1      |           |
|-----------------|----|----|----|----|----|----|------|----|-----------|-----------|------|----|------|----|------|----|-----------|-----------|
| 313             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 316             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 318             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 319             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 401             | 01 | 33 | 27 | 40 | 02 | 07 | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 402             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 519             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 615             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 726             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 732             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 769             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 805             | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 1212            | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 1251            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 1647            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 2063            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 2549            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | NT | 02(DP201) | 04(DP402) |
| 3264            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 3325            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 3410            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 3438            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 3582            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 3600            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | NT        | NT        |
| 3625            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 3849            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | 04(DP402) |
| 4237            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | NT   | NT | 03   | 06 | NT   | NT | NT        | NT        |
| 4420            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | 02(DP201) | NT        |
| 4551            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 4582            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 4585            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 4613            | 01 | 33 | 27 | 40 | NT | NT | 04   | 15 | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 4709            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 5451            | 01 | 33 | NT | NT | NT | NT | NT   | NT | NT        | NT        | NT   | NT | NT   | NT | NT   | NT | NT        | NT        |
| 6051            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| 6313            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | NT   | NT | NT        | NT        |
| 9221            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*PRESENT | 5*PRESENT | 01   | 03 | 03   | 06 | 01   | NT | 02(DP201) | 04(DP402) |
| 9222            | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | NT        | NT        | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |
| Final Consensus | 01 | 33 | 27 | 40 | 02 | 07 | 04   | 15 | 4*01      | 5*01      | 01   | 03 | 03   | 06 | 01   | 01 | 02(DP201) | 04(DP402) |

## Participants and Methods

| Center | A          | B                 | C          | DRB1       | DRB3/4/5   | DQA1           | DQB1       | DPA1    | DPB1       |
|--------|------------|-------------------|------------|------------|------------|----------------|------------|---------|------------|
| 7      | SBT-GSQ    | SBT-GSQ           | SBT-GSQ    | SBT-SC     | SSO-OL     | SSO-OL         | SBT-SC     | SSO-OL  | SBT-SC     |
|        | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     |            |                | SSO-OL     |         | SSO-OL     |
| 16     | NGS-OMX    | NGS-OMX           | NGS-OMX    | NGS-OMX    | NGS-OMX    | NGS-OMX        | NGS-OMX    | NGS-OMX | NGS-OMX    |
|        |            |                   |            |            | SSO-OL     |                |            |         |            |
| 124    | NGS-LT     | NGS-LT            | NGS-LT     | NGS-LT     | SBT-INH    | SSO-HS         | NGS-LT     |         | NGS-LT     |
|        | SSO-HS     | SSO-HS            | SSO-HS     | SSO-HS     | SSO-HS     |                | SSO-HS     |         | SSO-HS     |
| 131    | NGS-OMX    | NGS-OMX           | NGS-OMX    | NGS-OMX    | NGS-OMX    | NGS-OMX        | NGS-OMX    | NGS-OMX | NGS-OMX    |
| 134    | SBT-ACT    | SBT-ACT           | SBT-ACT    | SBT-ACT    | SSP-OLE    | SSO-OL         | SSO-OL     |         | SBT-ACT    |
|        | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     |            |                | SSP-OLE    |         | SSP-OLE    |
| 138    | SSP-OLE    | SSP-OLE           | SSP-OLE    | SSP-OLE    |            |                |            |         |            |
|        | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     | SSO-OL     | SSO-OL         | SBT-OL     | SSO-OL  | SSO-OL     |
| 139    | SSO-OL     | SSO-OL            |            |            |            |                |            |         |            |
| 142    | SSO-LUM    | SSO-LUM           | SSO-LUM    | SSO-LUM    | SSO-LUM    |                | SSO-LUM    |         |            |
| 144    | SBT-HA-SC  | SBT-HA-SC         | SBT-HA-SC  | SBT-HA-SC  |            | SSO-OL         | SBT-HA-SC  |         |            |
|        | SSO-OL     |                   | SSO-OL     |            |            |                | SSO-OL     |         |            |
| 147    | NGS-GIL    | NGS-GIL           | NGS-GIL    | NGS-GIL    | SSP-OLE    | SSP-OLE        | NGS-GIL    | SSP-OLE | SSP-OLE    |
|        | SSP-OLE    | SSP-OLE           | SSP-OLE    | SSP-OLE    |            |                | SSP-OLE    |         |            |
| 148    | SBT-ACT    | SBT-ACT           | SBT-ACT    | SBT-ACT    | SBT-GD     | SSP-LB         | SBT-PRO    | SSP-LB  | SBT-ACT    |
|        | SSP-LB     | SSP-LB            | SSP-LB     | SSP-LB     | SSP-LB     |                | SSP-LB     |         | SSP-LB     |
| 151    | SBT-LT     | SBT-LT            | SBT-LT     | SBT-LT     |            |                | SBT-LT     |         | SBT-LT     |
|        | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     |            |                | SSO-OL     |         | SSO-OL     |
| 160    | SBT-GD     | SBT-GD            | SBT-GD     | SBT-GD     | SSP-GD-OLE |                | SBT-GD     |         |            |
|        |            |                   | SSP-OLE    | SSO-OL     |            |                |            |         |            |
| 162    | SBT-BS     | SBT-BS            | SBT-BS     | SBT-BS     |            |                | SBT-BS     |         |            |
|        | SSP-BS     | SSP-BS            | SSP-BS     | SSP-BS     |            |                | SSP-BS     |         |            |
| 168    | SSO-WAK    | SSO-WAK           |            | SSO-WAK    |            |                |            |         |            |
| 173    | SSO-LUM-OL | SSO-LUM-OL        |            | SSO-LUM-OL |            | SSO-INV-LUM-OL | SSO-LUM-OL |         |            |
| 174    | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     |            |                | SSO-OL     |         |            |
| 175    | SBT-GD     | SSO-LUM           | SBT-GD     | SBT-GD-INV |            | SBT-LUM        | SBT-GD     |         |            |
|        | SSO-LUM    | SSP-INV-LT-OL-OLE | SSO-LUM    | SSO-LUM    |            | SSO-LUM        | SSO-LUM    |         |            |
| 176    | SBT-INH    | SBT-INH           | SBT-INH    | SBT-INH    |            |                | SBT-INH    |         |            |
| 185    | NGS-INH    | NGS-INH           | NGS-INH    | NGS-INH    | NGS-INH    | NGS-INH        | NGS-INH    |         | NGS-INH    |
| 188    | NGS-GIL    | NGS-GIL           | NGS-GIL    | NGS-GIL    |            | NGS-GIL        | NGS-GIL    |         | NGS-GIL    |
|        | SBT-ACT    | SBT-ACT           | SBT-ACT    | SBT-ACT    |            |                |            |         |            |
| 189    | SBT-LT-SC  | SBT-LT-SC         | SBT-LT-SC  | SSO-LUM-OL | SSO-LUM-OL | SSO-LUM-OL     | SSO-LUM-OL |         |            |
|        | SSO-LUM-OL | SSO-LUM-OL        | SSO-LUM-OL | SSP-OLE    |            |                | SSP-INV    |         |            |
| 190    | SSP-INV    | SSP-INV-OLE       | SSP-OLE    |            |            |                |            |         |            |
|        | SBT-SC     | SBT-SC            | SBT-SC     | SBT-SC     | SSP-OLE    |                | SBT-SC     |         |            |
| 192    | SSP-OL-OLE | SSP-OL-OLE        | SSP-OL-OLE | SSP-OLE    |            |                | SSP-OLE    |         |            |
|        | NGS-INH    | NGS-INH           | NGS-INH    | NGS-INH    | SSP-OLE    | SSP-OLE        | NGS-INH    |         | NGS-INH    |
| 193    | SSP-OLE    | SSP-OLE           | SSP-OLE    | SSP-OLE    |            |                | SSP-OLE    |         | SSP-OLE    |
|        | SBT-SC     | SBT-SC            | SBT-SC     | SBT-SC     |            |                | SBT-SC     |         |            |
| 195    | SSO-LUM-OL | SSO-LUM-OL        | SSO-LUM-OL | SSO-LUM-OL |            |                | SSO-LUM-OL |         |            |
|        | SSO-OL     | SSO-OL            | SSO-OL     | SSO-OL     | SSP-LB     | SSO-OL         | SSO-OL     | SSO-OL  | SSO-OL     |
| 197    | SSP-LB-OLE | SSP-LB-OLE        | SSP-LB     | SSP-LB-OLE |            | SSP-LB-OLE     | SSP-LB-OLE | SSP-LB  | SSP-LB-OLE |
|        | SBT-GD     | SBT-GD            | SBT-GD     | SBT-GD     |            |                | SBT-GD     |         | SBT-GD     |
|        | SSO-OL     | SSO-OL            | SSO-OL     |            |            |                | SSO-OL     |         | SSO-OL     |

### Participants and Methods

| Center | A            | B            | C            | DRB1           | DRB3/4/5       | DQA1         | DQB1          | DPA1         | DPB1         |
|--------|--------------|--------------|--------------|----------------|----------------|--------------|---------------|--------------|--------------|
| 199    |              |              |              | SSP-OL         | SSP-OL         |              | SSP-OL        |              |              |
| 205    | NGS-IMM      | NGS-IMM      | NGS-IMM      | NGS-IMM        | NGS-IMM        | NGS-IMM      | NGS-IMM       | NGS-IMM      | NGS-IMM      |
|        | SBT-CG       | SBT-CG       | SBT-CG       | SBT-CG         | SSO-OL         | SSO-OL       | SBT-CG        | SSO-OL       | SBT-CG       |
|        | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         |                |              | SSO-OL        |              | SSO-OL       |
|        |              | SSP-OL       |              |                |                |              | SSP-OL        |              |              |
| 207    | NGS-OMX      | NGS-OMX      | NGS-OMX      | NGS-OMX        | SSP-INT-OL-OLE | NGS-OMX      | NGS-OMX       |              | NGS-OMX      |
|        | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         |                | SSO-OL       | SSO-OL        |              | SSO-OL       |
|        | SSP-INT-OLE  | SSP-INT-OLE  | SSP-INT-OLE  | SSP-INT-OLE    |                | SSP-INT      | SSP-INT-OLE   |              | SSP-INT-OLE  |
| 209    | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         | SSP-BR-OLE     | SSO-OL       | SSO-OL        |              | SSP-OLE      |
|        | SSP-BR-OLE   | SSP-BR-OLE   | SSP-BR-OLE   | SSP-BR-OLE     |                | SSP-OLE      | SSP-BR-OLE    |              |              |
| 213    | NGS-OMX      | NGS-OMX      | NGS-OMX      | NGS-OMX        |                |              | NGS-OMX       |              |              |
| 218    | SBT-INH      | SBT-INH      | SBT-INH      | SBT-INH        |                |              | SBT-INH       |              |              |
|        | SSP-INH      | SSP-INH      | SSP-INH      | SSP-INH        |                |              | SSP-INH       |              |              |
| 226    | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         | SSO-OL         | SSO-OL       | SSO-OL        | SSO-OL       | SSO-OL       |
| 227    | NGS-OL       | NGS-OL       | NGS-OL       | NGS-OL         |                |              | NGS-OL        |              | NGS-OL       |
|        | SBT-SC       | SBT-SC       | SBT-SC       | SBT-SC         |                |              | SBT-SC        |              | SBT-SC       |
|        | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         |                |              | SSO-OL        |              | SSO-OL       |
| 234    | NGS-GD       | NGS-GD       | NGS-GD       | NGS-LB         | SBT-GD         | SSO-OL       | NGS-GD        |              | NGS-GD       |
|        | SBT-PRO      | SBT-PRO      | SBT-PRO      | SBT-PRO        | SSO-OL         | SSP-INV-LB   | SSO-OL        |              | SSO-OL       |
|        | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         | SSP-INV        |              | SSP-BT-INV-LB |              | SSP-INV-LB   |
|        | SSP-BT-LB    | SSP-BT-LB    | SSP-INV-LB   | SSP-BT-GD      |                |              |               |              |              |
| 238    |              |              |              | SSO-HT         | SSP-OL-OLE     | SSP-OL-OLE   | SSP-OL-OLE    |              |              |
| 239    | SSP-LB       | SSP-LB       | SSP-LB       | SSP-LB-OL      | SSP-LB-OL      | SSP-LB-OL    | SSP-LB-OL     | SSP-LB       | SSP-LB       |
| 242    | SSP-OLE      | SSP-OL-OLE   | SSP-OL-OLE   | SSP-OL-OLE     | SSP-OL-OLE     | SSP-OLE      | SSP-OLE       |              |              |
| 244    | SSO-HS       | SSO-HS       | SSO-HS       | SSO-HS         |                | SSO-HS       | SSO-HS        |              |              |
|        | SSP-OLE      | SSP-OLE      | SSP-OLE      | SSP-OLE        |                | SSP-OLE      | SSP-OLE       |              |              |
| 245    | Other-Others | Other-Others | Other-Others | Other-Others   | Other-Others   | Other-Others | Other-Others  | Other-Others | Other-Others |
| 249    | SBT-BWU      | SBT-BWU      | SBT-BWU      | SBT-BWU        | SBT-BWU        | SBT-BWU      | SBT-BWU       | SBT-BWU      | SBT-BWU      |
| 255    | SSO-OL       | SSO-OL       |              | SSO-OL         |                |              |               |              |              |
| 258    | NGS-GD       | NGS-GD       | NGS-GD       | NGS-GD         |                |              | NGS-GD        |              | NGS-GD       |
|        | SBT-GD       | SBT-GD       | SBT-GD       | SBT-GD         |                |              | SBT-GD        |              | SBT-GD       |
|        | SSO-LC       | SSO-LC       | SSO-LC       | SSO-LC         |                |              | SSO-LC        |              | SSO-LC       |
|        | SSP-INV      | SSP-INV      | SSP-INV      | SSP-INV        |                |              | SSP-INV       |              | SSP-INV      |
| 262    | SSP-OLE-PRO  | SSP-PRO      | SSP-PRO      | SSP-OL-OLE-PRO | SSP-PRO        | SSP-OLE      | SSP-OLE-PRO   |              |              |
| 264    | NGS-INH      | NGS-INH      | NGS-INH      | NGS-INH        | NGS-INH        | NGS-INH      | NGS-INH       | NGS-INH      | NGS-INH      |
| 265    | SSP-OL       | SSP-OL       | SSP-OL       | SSP-OL         | SSO-OL         | SSO-OL       | SSP-OL        | SSO-OL       | SSP-OL       |
| 266    | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         |                | SSO-OL       | SSO-OL        | SSO-OL       | SSO-OL       |
| 267    | SSO-LUM-OL   | SSO-LUM-OL   | SSO-LUM-OL   | SSO-LUM-OL     | SSO-LUM-OL     | SSO-LUM-OL   | SSO-LUM-OL    | SSO-LUM-OL   | SSO-LUM-OL   |
| 268    | SSP-OL       | SSP-OL       | SSP-OL       | SSP-OL         |                |              | SSP-OL        |              |              |
| 272    | NGS-INH      | NGS-INH      | NGS-INH      | NGS-INH        | NGS-INH        | NGS-INH      | NGS-INH       | NGS-INH      | NGS-INH      |
| 275    | SBT-ACT      | SBT-ACT      |              | SBT-ACT        |                |              |               |              |              |
| 278    | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         | SSO-OL         | SSO-OL       | SSO-OL        | SSO-OL       | SSO-OL       |
|        | SSP-OL       | SSP-OL       | SSP-OL       | SSP-OL         | SSP-OL         | SSP-OL       | SSP-OL        | SSP-OL       | SSP-OL       |
| 279    | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         | SSP-OLE        | SSO-OL       | SSO-OL        | SSO-OL       | SSO-OL       |
|        |              |              |              |                |                | SSP-OLE      |               |              | SSP-OLE      |
| 280    | SBT-SC       | SBT-SC       | SBT-SC       | SBT-SC         |                |              | SSO-OL        |              |              |
|        | SSP-OLE      | SSP-OLE      | SSP-OLE      | SSP-OLE        |                |              | SSP-OLE       |              |              |
| 281    | SBT-LT-SC    | SBT-LT-SC    | SBT-LT-SC    | SBT-LT-SC      | SSO-OL         | SSO-OL       | SBT-LT-SC     | SSO-OL       | SBT-LT-SC    |
|        | SSO-OL       | SSO-OL       | SSO-OL       | SSO-OL         |                |              | SSO-OL        | SSP-OLE      | SSO-OL       |
|        |              | SSP-OLE      |              | SSP-OL         |                |              |               |              |              |



### Participants and Methods

| Center | A                                       | B   | C                                       | DRB1  | DRB3/4/5             | DQA1                 | DQB1                         | DPA1                 | DPB1                 |
|--------|---|---|---|---|----------------------|----------------------|------------------------------|----------------------|----------------------|
| 282    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      |                      | SSO-OL               | SSO-OL                       |                      |                      |
| 285    | SSO-LC<br>SSP-OL                        |   |   | SSO-LC<br>SSP-OL                            |                      |                      |                              |                      |                      |
| 288    | SSO-BAG                                 | SSO-BAG                                     | SSO-BAG                                 | SSO-BAG<br>SSP-OLE                          |                      | SSO-BAG              | SSO-BAG<br>SSP-OLE           |                      |                      |
| 289    | SSO-LUM<br>SSP-OL                       | SSO-LUM<br>SSP-OL-OLE                       | SSO-LUM<br>SSP-OLE                      | SSO-LUM<br>SSP-OL                           | SSP-OL-OLE           |                      | SSO-LUM<br>SSP-OL            |                      |                      |
| 290    | SSO-LC                                  | SSO-LC                                      |   | SSO-LC                                      |                      |                      |                              |                      |                      |
| 292    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      |                      | SSO-OL               | SSO-OL                       |                      |                      |
| 293    | SSP-OL                                  | SSP-OL                                      |   | SSP-OL                                      |                      |                      | SSP-OL                       |                      |                      |
| 294    | NGS-OMX<br>SBT-INH<br>SSO-OL<br>SSP-OLE | NGS-OMX<br>SBT-ACT-INH<br>SSO-OL<br>SSP-OLE | NGS-OMX<br>SBT-INH<br>SSO-OL<br>SSP-OLE | NGS-OMX<br>SBT-ACT-INH<br>SSO-OL<br>SSP-OLE | SBT-INH<br>SSP-OLE   | NGS-OMX<br>SSO-OL    | NGS-OMX<br>SSO-OL<br>SSP-OLE |                      | NGS-OMX<br>SSP-OLE   |
| 297    | SSP-BR                                  | SSP-BR                                      | SSP-BR                                  | SSO-BR                                      | SSP-BR               | SSP-OL               | SSP-BR                       |                      |                      |
| 302    | SSP-PRO                                 | SSP-PRO                                     | SSP-PRO                                 | SSP-PRO                                     | SSP-PRO              | SSP-INV              | SSP-PRO                      |                      |                      |
| 304    | SSO-GTI                                 | SSO-GTI                                     | SSO-GTI                                 | SSO-GTI                                     |                      | SSO-GTI              | SSO-GTI                      |                      |                      |
| 305    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      |                      | SSO-OL               | SSO-OL                       |                      |                      |
| 309    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      | SSO-OL               | SSO-OL               | SSO-OL                       | SSO-OL               | SSO-OL               |
| 310    | SSP-TBG                                 | SSP-TBG                                     | SSP-TBG                                 | SSP-TBG                                     | SSP-TBG              |                      | SSP-TBG                      |                      |                      |
| 313    | SBT-INV                                 | SBT-INV                                     | SBT-INV                                 | SBT-INV                                     |                      |                      | SBT-INV                      |                      |                      |
| 316    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      |                      | SSO-OL               | SSO-OL                       | SSO-OL               | SSO-OL               |
| 317    | SSO-LUM-OL<br>SSP-OL                    | SSO-LUM-OL<br>SSP-OL                        | SSO-LUM-OL<br>SSP-OL                    | SSO-LUM-OL<br>SSP-OL                        | SSO-LUM-OL<br>SSP-OL | SSO-LUM-OL<br>SSP-OL | SSO-LUM-OL<br>SSP-OL         | SSO-LUM-OL<br>SSP-OL | SSO-LUM-OL<br>SSP-OL |
| 318    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      |                      | SSO-OL               | SSO-OL                       |                      |                      |
| 319    | SBT-TBG<br>SSP-TBG                      | SBT-TBG<br>SSP-TBG                          | SBT-TBG<br>SSP-TBG                      | SBT-TBG<br>SSP-TBG                          | SSP-TBG              |                      | SBT-TBG<br>SSP-TBG           |                      |                      |
| 401    | SBT-INH<br>SSO-OL                       | SBT-GIL-INH<br>SSO-OL                       | SBT-INH<br>SSO-OL                       |   |                      |                      |                              |                      |                      |
| 402    | SSO-OL                                  | SSO-OL                                      | SSO-OL                                  | SBT-CG<br>SSO-OL                            |                      | SSO-OL               | SBT-CG<br>SSO-OL             |                      |                      |
| 519    | SBT-ACT                                 | SBT-ACT                                     | SBT-ACT                                 | SBT-ACT                                     | SSO-LUM              | SSO-LUM              | SBT-ACT                      | SSO-LUM              | SSO-LUM              |
| 615    | SBT-CG<br>SSO-OL                        | SBT-CG<br>SSO-OL                            | SBT-CG<br>SSO-OL                        | SBT-CG<br>SSO-OL                            | SBT-CG               |                      | SBT-CG                       |                      | SBT-CG               |
| 702    | SBT-INH<br>SSO-OL                       | SBT-INH<br>SSO-OL                           | SBT-INH<br>SSO-OL                       | SBT-INH<br>SSO-OL                           | SBT-OLE<br>SSP-OLE   |                      | SBT-INH<br>SSO-OL            | SBT-INH              | SBT-INH              |
| 726    | SSO-OL<br>SSP-OLE                       | SSO-OL<br>SSP-OLE                           | SSO-OL                                  | SSO-OL                                      | SSO-OL               | SSO-OL               | SSO-OL                       | SSO-OL               | SSO-OL               |
| 732    | SBT-CG<br>SSO-OL                        | SBT-CG<br>SSO-OL                            | SBT-CG<br>SSO-OL                        | SBT-CG<br>SSO-OL                            | SBT-CG<br>SSO-OL     | SSO-OL               | SBT-CG<br>SSO-OL             | SSO-OL               | SBT-CG<br>SSO-OL     |
| 769    | SBT-CG<br>SSO-OL                        | SSO-OL                                      | SSO-OL                                  | SSO-OL                                      | SBT-CG<br>SSO-OL     |                      | SSO-OL                       |                      | SBT-CG<br>SSO-OL     |
| 805    | SBT-GD<br>SSO-IMM-OL                    | SBT-GD-OL<br>SSO-IMM-OL                     | SBT-GD-OL<br>SSO-IMM-OL                 | SBT-GD-OL<br>SSO-IMM<br>SSP-OL              |                      |                      | SBT-OL<br>SSO-IMM            |                      | SBT-OL<br>SSO-IMM    |
| 1113   | NGS-OMX<br>SBT-ACT                      | NGS-OMX<br>SBT-ACT                          | NGS-OMX<br>SBT-ACT                      | NGS-OMX<br>SBT-ACT                          | SSP-OLE              | NGS-OMX              | NGS-OMX<br>SBT-ACT           |                      | NGS-OMX              |
| 1189   | SBT-SC<br>SSO-OL                        | SBT-SC<br>SSP-LT                            | SBT-SC<br>SSO-OL                        | SBT-SC                                      | SSO-OL<br>SSP-LT     |                      | SBT-SC                       |                      | SBT-SC<br>SSP-LT     |
| 1212   | SSO-OL<br>SSP-OLE                       | SSO-OL<br>SSP-OLE                           | SSO-OL                                  | SSO-OL<br>SSP-OLE                           |                      |                      | SSO-OL<br>SSP-OLE            |                      |                      |

**Participants and Methods**

| Center | A               | B              | C                     | DRB1        | DRB3/4/5          | DQA1       | DQB1             | DPA1       | DPB1       |
|--------|-----------------|----------------|-----------------------|-------------|-------------------|------------|------------------|------------|------------|
| 1251   | SBT-PRO         | SBT-PRO        | SBT-PRO               | SBT-PRO     | SSP-OLE           | SSO-LUM    | SBT-PRO          | SSO-LUM    | SSO-LUM    |
|        | SSO-LUM         | SSO-LUM        | SSO-LUM               | SSO-LUM     |                   | SSP-OLE    | SSO-LUM          |            | SSP-OLE    |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     |                   |            | SSP-OLE          |            |            |
| 1498   | SBT-INH         | SBT-INH        | SBT-INH               | SBT-CG      | SBT-CG<br>SSP-INV | SSP-INV    | SBT-CG           |            | SBT-CG     |
| 1647   | SBT-OL          | SBT-OL         | SBT-OL                | SBT-OL      | SSP-LB            | SSP-LB     | SBT-OL           | SSP-LB     | SBT-OL     |
|        | SSP-LB          | SSP-LB         | SSP-LB                | SSP-LB      |                   |            | SSO-LB<br>SSP-LB |            | SSP-LB     |
| 1686   | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     | SSP-OLE           | SSP-OLE    | SSP-OLE          | SSP-OLE    | SSP-OLE    |
| 2063   | HR-MELTING      | HR-MELTING     | HR-MELTING            | HR-MELTING  | HR-MELTING        | HR-MELTING | HR-MELTING       | HR-MELTING | HR-MELTING |
|        | SBT-INH         | SBT-INH        | SBT-INH               | SBT-INH     |                   |            |                  |            | SSP-INV    |
| 2518   | SBT-SC          | SBT-SC         | SBT-SC                | SBT-SC      | SSP-OL            |            | SBT-SC           |            |            |
|        | SSO-OL          | SSO-OL         | SSP-OL                | SSO-OL      |                   |            | SSO-OL           |            |            |
|        | SSP-OL          | SSP-OL         |                       |             |                   |            |                  |            |            |
| 2549   | SBT-OLE         | SBT-OLE        | SBT-OLE               | SBT-OLE     | SSO-OL            | SSO-OL     | SBT-OLE          | SSO-OL     | SSO-OL     |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   | SSP-OLE    | SSO-OL           |            |            |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     |                   |            |                  |            |            |
| 3261   | SBT-GD          | SBT-GD         | SBT-GD                |             |                   |            |                  |            |            |
| 3264   | NGS-OMX         | NGS-OMX        | NGS-OMX               | NGS-OMX     | SSP-LB-OLE        | NGS-OMX    | NGS-OMX          | SSO-OL     | NGS-OMX    |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   | SSO-OL     | SSO-OL           | SSP-LB     | SSO-OL     |
|        | SSP-LB          | SSP-LB         | SSP-LB                | SSP-LB      |                   | SSP-LB     | SSP-LB           |            | SSP-LB     |
| 3325   | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      | SSO-OL            | SSO-OL     | SSO-OL           | SSO-OL     | SSO-OL     |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               |             |                   |            |                  |            |            |
| 3410   | SBT-ACT         | SBT-ACT        | SBT-ACT               | SBT-ACT     |                   |            | SBT-ACT          |            |            |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   |            | SSO-OL           |            |            |
|        | SSP-GV-UNI      | SSP-GV-UNI     | SSP-GV-UNI            | SSP-GV-UNI  |                   |            | SSP-GV-UNI       |            |            |
| 3438   | SBT-INV-OLE-TBG | SBT-INV-TBG    | SBT-INV-TBG           | SBT-INV-TBG |                   | SSO-LUM    | SBT-INV-TBG      |            |            |
|        | SSO-LUM         | SSO-LUM        | SSO-LUM               | SSO-LUM     |                   |            | SSO-LUM          |            |            |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     |                   |            | SSP-OLE          |            |            |
| 3582   | SBT-CG          | SBT-CG         | SBT-CG                | SBT-CG      | SBT-CG            |            | SBT-CG           |            | SBT-CG     |
| 3600   | SSP-LB          | SBT-LB, SSP-LB | SSP-LB                | SSP-LB      | SSP-LB            | SSP-LB     | SSP-LB           | SSP-LB-OL  | SSP-LB-OL  |
| 3614   | NGS-OMX         | NGS-OMX        | NGS-OMX               | NGS-OMX     | NGS-OMX           | NGS-OMX    | NGS-OMX          | NGS-OMX    | NGS-OMX    |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   | SSO-OL     | SSO-OL           |            | SSO-OL     |
|        | SSP-OL          | SSP-OL         |                       | SSP-OL      |                   |            | SSP-OL           |            |            |
| 3625   | SBT-INH         | SBT-INH        | SBT-INH               | SBT-INH     | SSP-INH           | SBT-INH    | SBT-INH          |            | SBT-INH    |
|        | SSP-INH         | SSP-INH        | SSP-INH               | SSP-INH     |                   | SSP-INH    | SSP-INH          |            | SSP-INH    |
| 3849   | NGS-INH         | NGS-INH        | NGS-INH               | NGS-INH     | NGS-INH           | SSO-LUM    | NGS-INH          |            | NGS-INH    |
| 4237   | SBT-RO-TBG      | SBT-RO-TBG     | SBT-RO-TBG            | SBT-RO-TBG  | SSP-OLE           | SSO-OL     | SSO-OL           |            |            |
|        | SSO-OL          | SSO-OL         | SSO-OL-OLE<br>SSP-OLE | SSO-OL      |                   | SSP-OLE    | SSP-OLE          |            |            |
| 4420   | SSO-WAK         | SSO-WAK        | SSO-WAK               | SSO-WAK     |                   | SSO-WAK    | SSO-WAK          |            | SSO-WAK    |
| 4545   | SBT-SC          | SBT-SC         | SBT-SC                | SBT-SC      | SSP-OLE           | SSP-OLE    | SBT-SC           | SSP-OL-OLE | SBT-SC     |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   |            | SSO-OL           |            | SSO-OL     |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     |                   |            | SSP-OLE          |            |            |
| 4551   | SBT-PRO         | SBT-PRO        | SBT-PRO               | SBT-PRO     | SSP-OLE           | SSO-OL     | SSO-OL           | SSO-OL     | SSO-OL     |
|        | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      |                   |            | SSP-OLE          |            | SSP-OLE    |
|        | SSP-OLE         | SSP-OLE        | SSP-OLE               | SSP-OLE     |                   |            |                  |            |            |
| 4582   | SSO-OL          | SSO-OL         | SSO-OL                | SSO-OL      | SSO-OL            | SSO-OL     | SSO-OL           | SSO-OL     | SSO-OL     |
|        | SSP-OL          | SSP-LT         |                       | SSP-LT-OL   | SSP-OL            | SSP-OL     | SSP-LT           | SSP-OL     | SSP-LT-OL  |

### Participants and Methods

| Center | A                          | B                          | C                          | DRB1                       | DRB3/4/5          | DQA1              | DQB1                       | DPA1             | DPB1              |
|--------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|----------------------------|------------------|-------------------|
| 4585   | SSO-LUM                    | SSO-LUM                    | SSO-LUM                    | SSO-LUM                    |                   | SSO-LUM           | SSO-LUM                    |                  |                   |
| 4613   | SSO-OL<br>SSP-OLE          | SSO-OL                     |                            | SSO-OL<br>SSP-OLE          |                   |                   |                            |                  |                   |
| 4709   | NGS-OMX<br>SSO-OL          | NGS-OMX<br>SSO-OL          | NGS-OMX<br>SSO-OL          | NGS-OMX<br>SSO-OL          | NGS-OMX<br>SSO-OL | NGS-OMX<br>SSO-OL | NGS-OMX<br>SSO-OL          | SSO-OL           | NGS-OMX<br>SSO-OL |
| 5451   | SBT-INH<br>SSO-LUM         |                            |                            |                            |                   |                   |                            |                  | SBT-INH           |
| 6051   | SSO-OL                     | SSO-OL                     | SSO-OL                     | SSO-OL                     | SSO-OL            | SSO-OL<br>SSP-OL  | SSO-OL                     | SSO-OL           | SSO-OL            |
| 6313   | SBT-INV-OLE-PRO<br>SSO-IMM | SBT-INV-OLE-PRO<br>SSO-IMM | SBT-INV-OLE-PRO<br>SSO-IMM | SBT-INV-OLE-PRO<br>SSO-IMM |                   | SSO-IMM           | SBT-INV-OLE-PRO<br>SSO-IMM |                  |                   |
| 9221   | SSO-OL<br>SSP-LB           | SSO-OL<br>SSP-LB           | SSO-OL<br>SSP-LB           | SSO-OL<br>SSP-LB           | SSO-OL<br>SSP-LB  | SSO-OL            | SSO-OL<br>SSP-LB           | SSO-OL<br>SSP-LB | SSO-OL<br>SSP-LB  |
| 9222   | SBT-SC<br>SSO-LUM          | SBT-SC<br>SSO-LUM          | SBT-SC<br>SSO-LUM          | SBT-SC<br>SSO-LUM          |                   | SSO-LUM           | SBT-SC<br>SSO-LUM          | SSO-LUM          | SBT-SC<br>SSO-LUM |
| 45452  | NGS-LT                     | NGS-LT                     | NGS-LT                     | NGS-LT                     | NGS-LT            |                   | NGS-LT                     |                  | NGS-LT            |