

Notice of OPTN Policy Changes

Human Leukocyte Antigen (HLA) Equivalency Tables Update 2020 (Including Expedited Pathway for Future Updates)

Sponsoring Committee:	Histocompatibility
Policies Affected:	<i>4.9: HLA Antigen Values and Split Equivalences</i> <i>4.10: Reference Tables of HLA Antigen Values and Split Equivalences</i>
Public Comment:	January 22, 2020 - March 23, 2020
Board Approved:	June 8, 2020
Effective Date:	Pending implementation and notice to OPTN members

Purpose of Policy Changes

The Histocompatibility Committee reviews OPTN *Policy 4.10: Reference Tables of HLA Antigen Values and Split Equivalences* on an annual basis. The OPTN Board of Directors had approved the most recent tables update in December 2017. In order to keep the equivalency tables up to date with current clinical practice and nomenclature, the Committee agreed that changes needed to be made after preliminary review in 2019. In order to expedite future routine table updates, the Committee voted to incorporate a clause in conformance with OPTN *Bylaws Article XI section 11.8: Expedited Actions*.

Proposal History

- A Histocompatibility subcommittee was formed to evaluate the HLA Equivalency tables for potential changes and met from April-October 2019
- Recommended changes were presented to the Committee in November 2019
- The Committee developed and endorsed a public comment proposal containing recommended table changes, adding epitope option for unacceptable antigens, and future use of an expedited table update pathway
- During public comment (January-March 2020), the proposal received strong support
- The Committee made one minimal post-public comment change based on feedback:
 - DPB1*99:01 added to Table 4-15 as equivalent to epitopes 55AAE and 84GGPM

Summary of Changes

This proposal makes the following changes to policy:

- Changes references for certain HLA-B and DR matching equivalences
- Changes references for certain HLA B, C, DR, DQB1, and DPB1 unacceptable antigen assignments
- Adds epitope-based unacceptable allele assignment for HLA-DPB1
- Adds reference of DPB1 reportable alleles
- Adds using option for using expedited policy pathway for future table updates

Implementation

Minimal costs for laboratory programming updates may be necessary. The proposed language will not change the current routine monitoring of OPTN members. Any data entered in UNet may be reviewed by the OPTN, and members are required to provide documentation as requested.

This proposal will require additional programming in UNetSM. IT will need to add new antigens and equivalences and also remove some values in UNetSM. IT will also need to program epitope level reporting.

Affected Policy Language

New language is underlined (example) and language that is deleted is struck through (~~example~~).

4.9 HLA Antigen Values and Split Equivalences

HLA matching of ~~A, B, DR~~ locus antigens is based on the antigens which are listed in Policy 4.10: Reference Tables of HLA Antigen Values and Split Equivalences. The Histocompatibility Committee must review and recommend any changes needed to the tables ~~on or before June 1 of each year~~ on an annual basis. Changes to the tables in Policy 4.10 are eligible for future expedited updates pursuant to OPTN Bylaw 11.8: Expedited Actions. For matching purposes, split antigens not on this list will be indicated on the waiting list as the parent antigens and will match only with the corresponding parent antigens.

4.10 Reference Tables of HLA Antigen Values and Split Equivalences

Tables 4-2, 4-3, and 4-4 show candidate-donor antigen equivalencies and whether they are mismatches. For each candidate antigen, the donor antigens that are not mismatched are listed below. All other combinations are considered mismatches.

Examples of how “Matching Antigen Equivalences” works:

- If the candidate types as B70: only donors that type as B70 are considered matched. Donors typed as B71 or B72 are considered mismatched.
- If the candidate types as B71: only donors that type as B71, B15:10, or B15:18 are considered matched. Donors typed as B70 are considered mismatched.

Table 4-3: HLA B Matching Antigen Equivalences

Candidate B-Locus Antigen	Equivalent Donor Antigens
5	5
7	7, 07:02, 07:03, 07:14

Candidate B-Locus Antigen	Equivalent Donor Antigens
07:02	07:02, 7
07:03	07:03, 7
07:14	07:14, 7
8	8, 08:01, 08:02, 08:03, 08:04
08:01	08:01, 8
08:02	08:02, 8
08:03	08:03, 8
08:04	08:04, 8
12	12
13	13, 13:01, 13:02
13:01	13:01, 13
13:02	13:02, 13
14	14
14:01	14:01, 64
14:02	14:02, 65
15	15
15:01	15:01, 62
15:02	15:02, 75
15:03	15:03, 72
15:04	15:04, 62
15:06	15:06, 62
15:07	15:07, 62
15:10	15:10, 71
15:11	15:11, 75
15:12	15:12, 76
15:13	15:13, 77
15:16	15:16, 63
15:17	15:17, 63
15:18	15:18, 71
15:20	15:20, 62
15:21	15:21, 75
15:24	15:24, 62
15:27	15:27, 62
16	16
17	17
18	18
21	21
22	22
27	27, 27:03, 27:04, 27:05, 27:06, 27:08
27:03	27:03, 27
27:04	27:04, 27
27:05	27:05, 27
27:06	27:06, 27
27:08	27:08
35	35, 35:01, 35:02, 35:03 35:08, 35:12

Candidate B-Locus Antigen	Equivalent Donor Antigens
35:01	35:01, 35
35:02	35:02, 35
35:03	35:03, 35
35:08	35:08, 35
35:12	35:12, 35
37	37
38	38, 38:01, 38:02
38:01	38:01, 38
38:02	38:02, 38
39	39, 39:01, 39:02, 39:04, 39:05, 39:06, 39:13
39:01	39:01, 39
39:02	39:02, 39
39:04	39:04, 39
39:05	39:05, 39
39:06	39:06, 39
39:13	39:13, 39
40	40
40:01	40:01, 60
40:02	40:02, 61
40:03	40:03, 61
40:04	40:04, 61
40:05	40:05, 50
40:06	40:06, 61
41	41, 41:01, 41:02
41:01	41:01, 41
41:02	41:02, 41
42	42, 42:01, 42:02
42:01	42:01, 42
42:02	42:02, 42
44	44, 44:02, 44:03
44:02	44:02, 44
44:03	44:03, 44
45	45, 50:02
46	46
47	47
48	48, 48:01, 48:02
48:01	48:01, 48
48:02	48:02, 48
49	49
50	50, 50:01, 50:02 , 40:05
50:01	50:01, 50
50:02	50:02, 45
51	51, 51:01, 51:02
51:01	51:01, 51
51:02	51:02, 51

Candidate B-Locus Antigen	Equivalent Donor Antigens
52	52
53	53
54	54
55	55, 55:01, 55:02, 55:04
55:01	55:01, 55
55:02	55:02, 55
55:04	55:04, 55
56	56, 56:01, 56:03
56:01	56:01, 56
56:03	56:03, 56
57	57, 57:01, 57:03
57:01	57:01, 57
57:03	57:03, 57
58	58
59	59
60	60, 40:01
61	61, 40:02, 40:03, 40:04, 40:06
62	62, 15:01, 15:04, 15:06, 15:07, 15:20, 15:27
63	63, 15:16, 15:17
64	64, 14:01
65	65, 14:02
67	67
70	70
71	71, 15:10, 15:18
72	72, 15:03
73	73
75	75, 15:02, 15:11, 15:21
76	76, 15:12
77	77, 15:13
78	78
81	81
82	82
<u>83:01</u>	<u>83:01</u>

Table 4-4: HLA DR Matching Antigen Equivalences

Candidate DR-Locus Antigen	Equivalent Donor Antigens
1	1, 01:01, 01:02
01:01	01:01, 1
01:02	01:02, 1
01:03	01:03, <u>103</u>
2	2
3	3, 03:01, 03:02, 03:03
03:01	03:01, 17
03:02	03:02, 18
03:03	03:03, 18

Candidate DR-Locus Antigen	Equivalent Donor Antigens
4	4, 04:01, 04:02, 04:03, 04:04, 04:05, 04:06, 04:07, 04:10, 04:11
04:01	04:01, 4
04:02	04:02, 4
04:03	04:03, 4
04:04	04:04, 4
04:05	04:05, 4
04:06	04:06, 4
04:07	04:07, 4
04:10	04:10, 4
04:11	04:11, 4
5	5
6	6
7	7
8	8, 08:01, 08:02, 08:03, 08:07
08:01	08:01, 8
08:02	08:02, 8
08:03	08:03, 8
08:07	08:07, 8
9	9, 09:01, 09:02
09:01	09:01, 9
09:02	09:02, 9
10	10
11	11, 11:01, 11:03, 11:04
11:01	11:01, 11
11:03	11:03, 11
11:04	11:04, 11
12	12, 12:01, 12:02
12:01	12:01, 12
12:02	12:02, 12
13	13, 13:01, 13:02, 13:03, 13:05
13:01	13:01, 13
13:02	13:02, 13
13:03	13:03, 13
13:05	13:05, 13
14	14, 14:01, 14:02, 14:03, 14:04, 14:05, 14:06, 14:54
14:01	14:01, 14, 14:54
14:02	14:02, 14
14:03	14:03, 14
14:04	14:04, 14
14:05	14:05, 14
14:06	14:06, 14
14:54	14:54, 14, 14:01
15	15, 15:01, 15:02, 15:03
15:01	15:01, 15
15:02	15:02, 15

Candidate DR-Locus Antigen	Equivalent Donor Antigens
15:03	15:03, 15
16	16, 16:01, 16:02
16:01	16:01, 16
16:02	16:02, 16
17	17, 03:01
18	18, 03:02, 03:03
<u>103</u>	<u>103, 01:03</u>

Tables 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 4-12, 4-13, and 4-14 show candidate-donor unacceptable antigen combinations. For each candidate antigen, the donor antigens that are unacceptable are listed below. Table 4-15 shows additional unacceptable antigen equivalences to be used in the Calculated Panel Reactive Antibody (CPRA) only.

- Tables 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 4-12, 4-13, and 4-14 show candidate-donor unacceptable antigen combinations. For each candidate antigen, the donor antigens that are unacceptable are listed below.
- Table 4-15 shows a candidate unacceptable epitopes for DPB1 and their corresponding donor HLA types.
- Table 4-16 shows the values that can be reported as valid DPB1 HLA typing.
- Table 4-17 shows additional unacceptable antigen equivalences to be used in the Calculated Panel Reactive Antibody (CPRA) only.

Examples of how “Unacceptable Antigen Equivalences” works:

If a candidate has B70 listed as an “unacceptable antigen”, donors typed as B70, B71, B72, 15:03, 15:10, or 15:18 are considered unacceptable.

Table 4-6 HLA B Unacceptable Antigen Equivalences

Candidate Unacceptable B-Locus Antigen	Donor Equivalent Antigens
5	5, 51, 51:01, 51:02, 52
7	7, 07:02, <u>07:03</u> , 07:14
07:02	07:02
<u>07:03</u>	<u>07:03</u>
07:14	07:14
8	8, 08:01, 08:02, 08:03, 08:04
08:01	08:01
08:02	08:02
08:03	08:03
08:04	08:04
12	12, 44, 44:02, 44:03, 45, <u>50:02</u>
13	13, 13:01, 13:02
13:01	13:01
13:02	13:02
14	14, 64, 65, 14:01, 14:02
14:01	14:01, 64
14:02	14:02, 65

Candidate Unacceptable B-Locus Antigen	Donor Equivalent Antigen
15	15, 62, 63, 70, 71, 72, 75, 76, 77, 15:01, 15:02, 15:03, 15:04, 15:06, 15:07, 15:10, 15:11, 15:12, 15:13, 15:16, 15:17, 15:18, 15:20, 15:21, 15:24, 15:27
15:01	15:01
15:02	15:02
15:03	15:03
15:04	15:04
15:06	15:06
15:07	15:07
15:10	15:10
15:11	15:11
15:12	15:12
15:13	15:13
15:16	15:16
15:17	15:17
15:18	15:18
15:20	15:20
15:21	15:21
15:24	15:24
15:27	15:27
16	16, 38, 38:01, 38:02, 39, 39:01, 39:02, 39:04, 39:05, 39:06, 39:13
17	17, 57, 57:01, 57:03, 58
18	18
21	21, 49, 50, 40:05, 50:01
22	22, 54, 55, 55:01, 55:02, 55:04, 56, 56:01, 56:03
27	27, 27:03 , 27:04, 27:05, 27:06, 27:08
<u>27:03</u>	<u>27:03</u>
27:04	27:04
27:05	27:05
27:06	27:06
27:08	27:08
35	35, 35:01, 35:02, 35:03, 35:08, 35:12
35:01	35:01
35:02	35:02
35:03	35:03
35:08	35:08
35:12	35:12
37	37
38	38, 38:01, 38:02
38:01	38:01
38:02	38:02
39	39, 39:01, 39:02, 39:04, 39:05, 39:06, 39:13
39:01	39:01
39:02	39:02

Candidate Unacceptable B-Locus Antigen	Donor Equivalent Antigen
39:04	39:04
39:05	39:05
39:06	39:06
39:13	39:13
40	40, 60, 61, 40:01, 40:02, 40:03, 40:04, 40:06
40:01	40:01, 60
40:02	40:02
40:03	40:03
40:04	40:04
40:05	40:05, <u>50</u>
40:06	40:06
41	41, 41:01, 41:02
41:01	41:01
41:02	41:02
42	42, 42:01, 42:02
42:01	42:01
42:02	42:02
44	44, 44:02, 44:03
44:02	44:02
44:03	44:03
45	45, 50:02
46	46
47	47
48	48, 48:01, 48:02
48:01	48:01
48:02	48:02
49	49
50	50, 40:05, 50:01, 50:02
50:01	50:01
50:02	50:02, 45
51	51, 51:01, 51:02
51:01	51:01
51:02	51:02
52	52
53	53
54	54
55	55, 55:01, 55:02, 55:04
55:01	55:01
55:02	55:02
55:04	55:04
56	56, 56:01, 56:03
56:01	56:01
56:03	56:03
57	57, 57:01, 57:03

Candidate Unacceptable B-Locus Antigen	Donor Equivalent Antigen
57:01	57:01
57:03	57:03
58	58
59	59
60	60, 40:01
61	61, 40:02, 40:03, 40:04, 40:06
62	62, 15:01, 15:04, 15:06, 15:07, 15:20, 15:27
63	63, 15:16, 15:17
64	64, 14:01
65	65, 14:02
67	67
70	70, 71, 72, 15:03, 15:10, 15:18
71	71, 15:10, 15:18
72	72, 15:03
73	73
75	75, 15:02, 15:11, 15:21
76	76, 15:12
77	77, 15:13
78	78
81	81
82	82
<u>83:01</u>	<u>83:01</u>
Bw4	Bw4, 08:02, 08:03, 5, 13, 13:01, 13:02, 15:13, 15:16, 15:17, 15:24, 17, 27, 27:03 , 27:04, 27:05, 27:06, 37, 38, 38:01, 38:02, 44, 44:02, 44:03, 47, 49, 51, 51:01, 51:02, 52, 53, 57, 57:01, 57:03, 58, 59, 63, 77
Bw6	Bw6, 7, 07:02, 07:03 , 07:14, 8, 08:01, 08:04, 14, 14:01, 14:02, 15:01, 15:02, 15:03, 15:04, 15:06, 15:07, 15:10, 15:11, 15:12, 15:18, 15:20, 15:21, 15:27, 18, 22, 27:08, 35, 35:01, 35:02, 35:03, 35:08, 35:12, 39, 39:01, 39:02, 39:04, 39:05, 39:06, 39:13, 40, 40:01, 40:02, 40:03, 40:04, 40:05, 40:06, 41, 41:01, 41:02, 42, 42:01, 42:02, 45, 48, 48:01, 48:02, 50, 50:01, 50:02, 54, 55, 55:01, 55:02, 55:04, 56, 56:01, 56:03, 60, 61, 62, 64, 65, 67, 70, 71, 72, 75, 76, 78, 81, 82

Table 4-7: HLA C Unacceptable Antigen Equivalences

Candidate Unacceptable C-Locus Antigen	Donor Equivalent Antigen
01	01, 01:02, 01:03
01:02	01:02
01:03	01:03
02	02, 02:02, 02:10
02:02	02:02
02:10	02:10
03	03, 03:02, 03:03, 03:04, <u>03:05</u> , 03:06, 09, 10

Candidate Unacceptable C-Locus Antigen	Donor Equivalent Antigen
03:02	03:02
03:03	03:03
03:04	03:04
<u>03:05</u>	<u>03:05</u>
03:06	03:06
04	04, 04:01, 04:03, <u>04:04</u> , <u>04:07</u>
04:01	04:01
04:03	04:03
<u>04:04</u>	<u>04:04</u>
<u>04:07</u>	<u>04:07</u>
05	05, <u>05:01</u>
<u>05:01</u>	<u>05:01</u>
06	06, <u>06:02</u>
<u>06:02</u>	<u>06:02</u>
07	07, 07:01, 07:02, 07:04, <u>07:06</u> , <u>07:18</u>
07:01	07:01
07:02	07:02
07:04	07:04
<u>07:06</u>	<u>07:06</u>
<u>07:18</u>	<u>07:18</u>
08	08, 08:01, 08:02, 08:03, 08:04
08:01	08:01
08:02	08:02
08:03	08:03
08:04	08:04
09	09, 03:03
10	10, 03:02, 03:04, <u>03:06</u>
12	12, 12:02, 12:03, <u>12:04</u>
12:02	12:02
12:03	12:03
<u>12:04</u>	<u>12:04</u>
14	14, 14:02, 14:03
14:02	14:02
14:03	14:03
15	15, 15:02, <u>15:04</u> , 15:05, <u>15:06</u> , <u>15:09</u>
15:02	15:02
<u>15:04</u>	<u>15:04</u>
15:05	15:05
<u>15:06</u>	<u>15:06</u>
<u>15:09</u>	<u>15:09</u>
16	16, 16:01, 16:02, <u>16:04</u>
16:01	16:01
16:02	16:02
<u>16:04</u>	<u>16:04</u>

Candidate Unacceptable C-Locus Antigen	Donor Equivalent Antigen
17	17, 17:01, 17:03
17:01	17:01
17:03	17:03
18	18, 18:01, 18:02
18:01	18:01
18:02	18:02

Table 4-8: HLA DR Unacceptable Antigen Equivalences

Candidate Unacceptable DR Locus Antigen	Donor Equivalent Antigen
1	1, 01:01, 01:02, 01:03
01:01	01:01
01:02	01:02
01:03	01:03, <u>103</u>
2	2, 15, 15:01, 15:02, 15:03, 16, 16:01, 16:02
3	3, 17, 18, 03:01, 03:02, 03:03
03:01	03:01, 17
03:02	03:02, 18
03:03	03:03, 18
4	4, 04:01, 04:02, 04:03, 04:04, 04:05, 04:06, 04:07, 04:10, 04:11
04:01	04:01
04:02	04:02
04:03	04:03
04:04	04:04
04:05	04:05
04:06	04:06
04:07	04:07
04:10	04:10
04:11	04:11
5	5, 11, 11:01, 11:04, 12, 12:01, 12:02
6	6, 13, 13:01, 13:02, 13:03, <u>13:05</u> , 14, 14:01, 14:02, 14:03, 14:04, 14:05, 14:06, 14:54
7	7
8	8, 08:01, 08:02, 08:03, 08:07
08:01	08:01
08:02	08:02
08:03	08:03
08:07	08:07
9	9, 09:01, 09:02
09:01	09:01
09:02	09:02
10	10
11	11, 11:01, 11:03, 11:04
11:01	11:01

Candidate Unacceptable DR Locus Antigen	Donor Equivalent Antigen
11:03	11:03
11:04	11:04
12	12, 12:01, 12:02
12:01	12:01
12:02	12:02
13	13, 13:01, 13:02, 13:03, 13:05
13:01	13:01
13:02	13:02
13:03	13:03
13:05	13:05
14	14, 14:01, 14:02, 14:03, 14:04, 14:05, 14:06, 14:54
14:01	14:01, 14:54
14:02	14:02
14:03	14:03
14:04	14:04
14:05	14:05
14:06	14:06
14:54	14:54, 14:01
15	15, 15:01, 15:02, 15:03
15:01	15:01
15:02	15:02
15:03	15:03
16	16, 16:01, 16:02
16:01	16:01
16:02	16:02
17	17, 03:01
18	18, 03:02, 03:03
<u>103</u>	<u>103, 01:03</u>

Table 4-13: HLA DQB1 Unacceptable Antigen Equivalences

Candidate Unacceptable DQB1 Locus Antigen	Donor Equivalent Antigen
<u>1</u>	<u>1, 5, 6, 05:01, 05:02, 06:01, 06:02, 06:03, 06:04, 06:09</u>
2	2, 02:01, 02:02
02:01	02:01
02:02	02:02
3	3, 7, 8, 9, 03:01, 03:02, 03:03, 03:19
03:01	03:01, 7
03:02	03:02, 8
03:03	03:03, 9
03:19	03:19, 7
4	4, 04:01, 04:02
04:01	04:01
04:02	04:02

Candidate Unacceptable DQB1 Locus Antigen	Donor Equivalent Antigen
5	5, 05:01, 05:02, 05:03
05:01	05:01
05:02	05:02
05:03	05:03
6	6, 06:01, 06:02, 06:03, 06:04, 06:09
06:01	06:01
06:02	06:02
06:03	06:03
06:04	06:04
06:09	06:09
7	7, 3, 03:01, 03:19
8	8, 3, 03:02
9	9, 3, 03:03

Table 4-14: HLA DPB1 Unacceptable Antigen Equivalences

Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
01:01	<u>01:01, 162:01, 417:01, 462:01, 616:01, 733:01, 807:01, 810:01, 853:01, 931:01, 953:01, 979:01, 998:01, 999:01, 1024:01</u>
02:01	<u>02:01, 141:01, 352:01, 414:01, 416:01, 461:01, 617:01, 640:01, 678:01, 723:01, 783:01, 799:01, 819:01, 845:01, 857:01, 861:01, 955:01, 967:01, 975:01, 1036:01</u>
02:02	<u>02:02, 547:01, 721:01, 766:01</u>
03:01	<u>03:01, 104:01, 124:01, 351:01, 669:01, 675:01, 676:01, 704:01, 706:01, 728:01, 829:01, 855:01, 938:01, 946:01, 948:01, 952:01, 1000:01, 1014:01, 1021:01</u>
04:01	<u>04:01, 126:01, 350:01, 415:01, 459:01, 464:01, 534:01, 615:01, 618:01, 670:01, 699:01, 702:01, 755:01, 757:01, 765:01, 767:01, 784:01, 804:01, 813:01, 820:01, 824:01, 826:01, 849:01, 850:01, 859:01, 880:01, 882:01, 926:01, 932:01, 939:01, 978:01, 988:01, 989:01, 992:01, 997:01, 1001:01, 1002:01, 1003:01, 1004:01, 1010:01, 1011:01, 1023:01, 1033:01</u>
04:02	<u>04:02, 105:01, 463:01, 571:01, 647:01, 665:01, 701:01, 725:01, 726:01, 730:01, 731:01, 734:01, 735:01, 763:01, 809:01, 818:01, 823:01, 858:01, 881:01, 927:01, 933:01, 954:01, 958:01, 981:01, 1005:01, 1013:01, 1020:01, 1025:01, 1031:01, 1035:01</u>
05:01	<u>05:01, 135:01, 668:01, 729:01, 744:01, 764:01, 790:01, 847:01, 848:01, 851:01, 860:01, 923:01, 951:01, 1015:01, 1018:01</u>
06:01	<u>06:01, 737:01, 906:01, 914:01, 1022:01</u>
08:01	08:01
09:01	<u>09:01, 797:01, 899:01</u>

Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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11:01	11:01, 649:01, 654:01, <u>672:01, 707:01, 907:01, 937:01</u>
13:01	13:01, 107:01, 133:01, 518:01, 519:01, <u>888:01, 924:01, 947:01, 996:01</u>
14:01	14:01, 498:01, 572:01, 651:01, <u>671:01, 705:01, 834:01, 854:01, 949:01</u>
15:01	15:01, 585:01, <u>896:01, 910:01</u>
16:01	16:01, 652:01, 653:01, <u>864:01, 886:01, 940:01, 968:01</u>
17:01	17:01, 131:01, 168:01, 460:01, <u>846:01, 956:01, 1032:01</u>
18:01	18:01, <u>897:01, 942:01</u>
19:01	19:01, 106:01, 533:01, 535:01, <u>785:01, 965:01</u>
20:01	20:01, <u>905:01</u>
21:01	21:01, <u>1019:01</u>
22:01	22:01, <u>1026:01</u>
23:01	23:01, 138:01
24:01	24:01
25:01	25:01
26:01	26:01
27:01	27:01
28:01	28:01, 296:01
29:01	29:01, <u>909:01</u>
30:01	30:01
31:01	31:01, <u>945:01</u>
32:01	32:01
33:01	33:01
34:01	34:01, <u>835:01, 913:01</u>
35:01	35:01
36:01	36:01
37:01	37:01
38:01	38:01
39:01	39:01, 584:01
40:01	40:01, <u>745:01</u>
41:01	41:01
44:01	44:01

Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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57:01	57:01, 648:01
58:01	58:01
59:01	59:01, <u>782:01</u>
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74:01	74:01
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76:01	76:01
77:01	77:01
78:01	78:01
79:01	79:01
80:01	80:01, <u>762:01</u>

Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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85:01	85:01, <u>713:01, 901:01, 1034:01</u>
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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132:01	132:01, <u>1027:01</u>
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135:01	135:01
136:01	136:01
137:01	137:01, <u>791:01</u>
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Candidate Unacceptable DPB1 Locus Antigen	Donor Equivalent Antigen
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Table 4-15: Epitope based Unacceptable Antigen Assignment for DPB1

Candidate Unacceptable Epitope	Donor Equivalent Antigens								
	<u>01:01</u>	<u>04:01</u>	<u>11:01</u>	<u>13:01</u>	<u>15:01</u>	<u>23:01</u>	<u>26:01</u>	<u>27:01</u>	<u>31:01</u>
	<u>33:01</u>	<u>34:01</u>	<u>39:01</u>	<u>40:01</u>	<u>52:01</u>	<u>55:01</u>	<u>56:01</u>	<u>58:01</u>	<u>62:01</u>
	<u>63:01</u>	<u>65:01</u>	<u>66:01</u>	<u>67:01</u>	<u>71:01</u>	<u>72:01</u>	<u>74:01</u>	<u>85:01</u>	<u>87:01</u>
	<u>89:01</u>	<u>90:01</u>	<u>95:01</u>	<u>96:01</u>	<u>99:01</u>	<u>102:01</u>	<u>103:01</u>	<u>107:01</u>	<u>110:01</u>
	<u>112:01</u>	<u>117:01</u>	<u>118:01</u>	<u>121:01</u>	<u>125:01</u>	<u>126:01</u>	<u>127:01</u>	<u>128:01</u>	<u>133:01</u>
	<u>134:01</u>	<u>138:01</u>	<u>142:01</u>	<u>147:01</u>	<u>149:01</u>	<u>150:01</u>	<u>158:01</u>	<u>160:01</u>	<u>162:01</u>
	<u>169:01</u>	<u>173:01</u>	<u>174:01</u>	<u>175:01</u>	<u>176:01</u>	<u>177:01</u>	<u>178:01</u>	<u>179:01</u>	<u>180:01</u>
	<u>181:01</u>	<u>192:01</u>	<u>193:01</u>	<u>194:01</u>	<u>195:01</u>	<u>199:01</u>	<u>201:01</u>	<u>202:01</u>	<u>206:01</u>
	<u>207:01</u>	<u>209:01</u>	<u>212:01</u>	<u>213:01</u>	<u>220:01</u>	<u>224:01</u>	<u>225:01</u>	<u>227:01</u>	<u>228:01</u>
	<u>230:01</u>	<u>231:01</u>	<u>232:01</u>	<u>240:01</u>	<u>244:01</u>	<u>246:01</u>	<u>247:01</u>	<u>250:01</u>	<u>253:01</u>
<u>55AAE</u>	<u>255:01</u>	<u>262:01</u>	<u>264:01</u>	<u>267:01</u>	<u>268:01</u>	<u>272:01</u>	<u>275:01</u>	<u>276:01</u>	<u>278:01</u>

Candidate Unacceptable Epitope									
	Donor	Equivalent	Antigens						
<u>279:01</u>	<u>280:01</u>	<u>281:01</u>	<u>282:01</u>	<u>283:01</u>	<u>290:01</u>	<u>294:01</u>	<u>295:01</u>	<u>298:01</u>	
<u>299:01</u>	<u>303:01</u>	<u>304:01</u>	<u>305:01</u>	<u>306:01</u>	<u>314:01</u>	<u>318:01</u>	<u>319:01</u>	<u>320:01</u>	
<u>322:01</u>	<u>323:01</u>	<u>325:01</u>	<u>326:01</u>	<u>327:01</u>	<u>333:01</u>	<u>334:01</u>	<u>335:01</u>	<u>336:01</u>	
<u>340:01</u>	<u>341:01</u>	<u>345:01</u>	<u>346:01</u>	<u>348:01</u>	<u>350:01</u>	<u>353:01</u>	<u>354:01</u>	<u>356:01</u>	
<u>360:01</u>	<u>362:01</u>	<u>370:01</u>	<u>371:01</u>	<u>372:01</u>	<u>375:01</u>	<u>376:01</u>	<u>377:01</u>	<u>378:01</u>	
<u>387:01</u>	<u>388:01</u>	<u>389:01</u>	<u>392:01</u>	<u>393:01</u>	<u>396:01</u>	<u>397:01</u>	<u>398:01</u>	<u>399:01</u>	
<u>411:01</u>	<u>412:01</u>	<u>415:01</u>	<u>417:01</u>	<u>418:01</u>	<u>425:01</u>	<u>426:01</u>	<u>428:01</u>	<u>434:01</u>	
<u>435:01</u>	<u>436:01</u>	<u>437:01</u>	<u>438:01</u>	<u>440:01</u>	<u>449:01</u>	<u>451:01</u>	<u>453:01</u>	<u>454:01</u>	
<u>456:01</u>	<u>458:01</u>	<u>459:01</u>	<u>462:01</u>	<u>464:01</u>	<u>465:01</u>	<u>468:01</u>	<u>471:01</u>	<u>474:01</u>	
<u>475:01</u>	<u>476:01</u>	<u>479:01</u>	<u>480:01</u>	<u>481:01</u>	<u>482:01</u>	<u>483:01</u>	<u>485:01</u>	<u>486:01</u>	
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<u>518:01</u>	<u>519:01</u>	<u>520:01</u>	<u>521:01</u>	<u>522:01</u>	<u>523:01</u>	<u>524:01</u>	<u>529:01</u>	<u>531:01</u>	
<u>534:01</u>	<u>538:01</u>	<u>542:01</u>	<u>543:01</u>	<u>544:01</u>	<u>553:01</u>	<u>554:01</u>	<u>556:01</u>	<u>559:01</u>	
<u>561:01</u>	<u>562:01</u>	<u>563:01</u>	<u>564:01</u>	<u>565:01</u>	<u>569:01</u>	<u>575:01</u>	<u>576:01</u>	<u>578:01</u>	
<u>580:01</u>	<u>583:01</u>	<u>584:01</u>	<u>585:01</u>	<u>591:01</u>	<u>592:01</u>	<u>593:01</u>	<u>597:01</u>	<u>599:01</u>	
<u>600:01</u>	<u>607:01</u>	<u>609:01</u>	<u>612:01</u>	<u>614:01</u>	<u>615:01</u>	<u>616:01</u>	<u>618:01</u>	<u>623:01</u>	
<u>625:01</u>	<u>626:01</u>	<u>631:01</u>	<u>632:01</u>	<u>634:01</u>	<u>635:01</u>	<u>636:01</u>	<u>643:01</u>	<u>644:01</u>	
<u>649:01</u>	<u>654:01</u>	<u>658:01</u>	<u>666:01</u>	<u>667:01</u>	<u>670:01</u>	<u>672:01</u>	<u>677:01</u>	<u>679:01</u>	
<u>682:01</u>	<u>683:01</u>	<u>686:01</u>	<u>687:01</u>	<u>694:01</u>	<u>695:01</u>	<u>699:01</u>	<u>702:01</u>	<u>703:01</u>	
<u>707:01</u>	<u>708:01</u>	<u>709:01</u>	<u>713:01</u>	<u>716:01</u>	<u>722:01</u>	<u>733:01</u>	<u>739:01</u>	<u>742:01</u>	
<u>745:01</u>	<u>747:01</u>	<u>749:01</u>	<u>750:01</u>	<u>753:01</u>	<u>755:01</u>	<u>757:01</u>	<u>758:01</u>	<u>761:01</u>	
<u>765:01</u>	<u>767:01</u>	<u>768:01</u>	<u>769:01</u>	<u>772:01</u>	<u>773:01</u>	<u>784:01</u>	<u>787:01</u>	<u>788:01</u>	
<u>789:01</u>	<u>795:01</u>	<u>803:01</u>	<u>804:01</u>	<u>806:01</u>	<u>807:01</u>	<u>808:01</u>	<u>810:01</u>	<u>811:01</u>	
<u>812:01</u>	<u>813:01</u>	<u>814:01</u>	<u>820:01</u>	<u>822:01</u>	<u>824:01</u>	<u>826:01</u>	<u>828:01</u>	<u>830:01</u>	
<u>835:01</u>	<u>837:01</u>	<u>840:01</u>	<u>842:01</u>	<u>849:01</u>	<u>850:01</u>	<u>852:01</u>	<u>853:01</u>	<u>856:01</u>	
<u>859:01</u>	<u>879:01</u>	<u>880:01</u>	<u>882:01</u>	<u>888:01</u>	<u>893:01</u>	<u>895:01</u>	<u>896:01</u>	<u>901:01</u>	
<u>904:01</u>	<u>907:01</u>	<u>908:01</u>	<u>910:01</u>	<u>912:01</u>	<u>913:01</u>	<u>915:01</u>	<u>916:01</u>	<u>921:01</u>	
<u>922:01</u>	<u>924:01</u>	<u>926:01</u>	<u>930:01</u>	<u>931:01</u>	<u>932:01</u>	<u>934:01</u>	<u>937:01</u>	<u>945:01</u>	
<u>947:01</u>	<u>953:01</u>	<u>957:01</u>	<u>966:01</u>	<u>969:01</u>	<u>972:01</u>	<u>976:01</u>	<u>978:01</u>	<u>979:01</u>	
<u>988:01</u>	<u>989:01</u>	<u>991:01</u>	<u>992:01</u>	<u>993:01</u>	<u>996:01</u>	<u>997:01</u>	<u>998:01</u>	<u>999:01</u>	
<u>1001:01</u>	<u>1002:01</u>	<u>1003:01</u>	<u>1004:01</u>	<u>1010:01</u>	<u>1011:01</u>	<u>1012:01</u>	<u>1016:01</u>	<u>1023:01</u>	
<u>1024:01</u>	<u>1033:01</u>	<u>1034:01</u>							
<u>03:01</u>	<u>06:01</u>	<u>09:01</u>	<u>14:01</u>	<u>17:01</u>	<u>20:01</u>	<u>29:01</u>	<u>35:01</u>	<u>44:01</u>	
<u>46:01</u>	<u>50:01</u>	<u>57:01</u>	<u>69:01</u>	<u>70:01</u>	<u>76:01</u>	<u>78:01</u>	<u>80:01</u>	<u>86:01</u>	
<u>88:01</u>	<u>91:01</u>	<u>92:01</u>	<u>98:01</u>	<u>104:01</u>	<u>108:01</u>	<u>111:01</u>	<u>119:01</u>	<u>124:01</u>	
<u>130:01</u>	<u>131:01</u>	<u>132:01</u>	<u>152:01</u>	<u>156:01</u>	<u>157:01</u>	<u>164:01</u>	<u>166:01</u>	<u>168:01</u>	
<u>182:01</u>	<u>197:01</u>	<u>203:01</u>	<u>205:01</u>	<u>208:01</u>	<u>214:01</u>	<u>221:01</u>	<u>222:01</u>	<u>234:01</u>	
<u>235:01</u>	<u>241:01</u>	<u>242:01</u>	<u>243:01</u>	<u>245:01</u>	<u>248:01</u>	<u>249:01</u>	<u>251:01</u>	<u>259:01</u>	
<u>266:01</u>	<u>270:01</u>	<u>287:01</u>	<u>288:01</u>	<u>289:01</u>	<u>292:01</u>	<u>293:01</u>	<u>329:01</u>	<u>332:01</u>	
<u>343:01</u>	<u>351:01</u>	<u>355:01</u>	<u>361:01</u>	<u>363:01</u>	<u>379:01</u>	<u>383:01</u>	<u>384:01</u>	<u>385:01</u>	
<u>386:01</u>	<u>391:01</u>	<u>394:01</u>	<u>404:01</u>	<u>405:01</u>	<u>407:01</u>	<u>409:01</u>	<u>413:01</u>	<u>439:01</u>	

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Candidate Unacceptable Epitope									
	Donor	Equivalent	Antigens						
	<u>442:01</u>	<u>445:01</u>	<u>446:01</u>	<u>447:01</u>	<u>460:01</u>	<u>472:01</u>	<u>484:01</u>	<u>491:01</u>	<u>492:01</u>
	<u>498:01</u>	<u>504:01</u>	<u>505:01</u>	<u>506:01</u>	<u>508:01</u>	<u>509:01</u>	<u>530:01</u>	<u>536:01</u>	<u>540:01</u>
	<u>541:01</u>	<u>545:01</u>	<u>546:01</u>	<u>548:01</u>	<u>555:01</u>	<u>566:01</u>	<u>567:01</u>	<u>568:01</u>	<u>572:01</u>
	<u>581:01</u>	<u>601:01</u>	<u>610:01</u>	<u>613:01</u>	<u>620:01</u>	<u>621:01</u>	<u>629:01</u>	<u>630:01</u>	<u>645:01</u>
	<u>648:01</u>	<u>651:01</u>	<u>662:01</u>	<u>664:01</u>	<u>669:01</u>	<u>671:01</u>	<u>675:01</u>	<u>676:01</u>	<u>684:01</u>
	<u>688:01</u>	<u>689:01</u>	<u>698:01</u>	<u>704:01</u>	<u>705:01</u>	<u>706:01</u>	<u>714:01</u>	<u>719:01</u>	<u>727:01</u>
	<u>728:01</u>	<u>737:01</u>	<u>760:01</u>	<u>762:01</u>	<u>797:01</u>	<u>801:01</u>	<u>815:01</u>	<u>829:01</u>	<u>833:01</u>
	<u>834:01</u>	<u>839:01</u>	<u>846:01</u>	<u>854:01</u>	<u>855:01</u>	<u>883:01</u>	<u>899:01</u>	<u>905:01</u>	<u>906:01</u>
	<u>909:01</u>	<u>914:01</u>	<u>920:01</u>	<u>935:01</u>	<u>938:01</u>	<u>944:01</u>	<u>946:01</u>	<u>948:01</u>	<u>949:01</u>
	<u>952:01</u>	<u>956:01</u>	<u>970:01</u>	<u>977:01</u>	<u>983:01</u>	<u>987:01</u>	<u>990:01</u>	<u>994:01</u>	<u>1000:01</u>
	<u>1009:01</u>	<u>1014:01</u>	<u>1017:01</u>	<u>1021:01</u>	<u>1022:01</u>	<u>1027:01</u>	<u>1030:01</u>	<u>1032:01</u>	
55DEE	<u>02:01</u>	<u>04:02</u>	<u>08:01</u>	<u>10:01</u>	<u>16:01</u>	<u>18:01</u>	<u>25:01</u>	<u>28:01</u>	<u>37:01</u>
	<u>41:01</u>	<u>45:01</u>	<u>48:01</u>	<u>49:01</u>	<u>51:01</u>	<u>53:01</u>	<u>59:01</u>	<u>60:01</u>	<u>68:01</u>
	<u>73:01</u>	<u>75:01</u>	<u>77:01</u>	<u>79:01</u>	<u>81:01</u>	<u>82:01</u>	<u>83:01</u>	<u>93:01</u>	<u>94:01</u>
	<u>105:01</u>	<u>109:01</u>	<u>113:01</u>	<u>115:01</u>	<u>116:01</u>	<u>122:01</u>	<u>123:01</u>	<u>129:01</u>	<u>136:01</u>
	<u>137:01</u>	<u>141:01</u>	<u>143:01</u>	<u>144:01</u>	<u>145:01</u>	<u>146:01</u>	<u>151:01</u>	<u>153:01</u>	<u>155:01</u>
	<u>163:01</u>	<u>165:01</u>	<u>167:01</u>	<u>172:01</u>	<u>183:01</u>	<u>184:01</u>	<u>185:01</u>	<u>186:01</u>	<u>187:01</u>
	<u>188:01</u>	<u>189:01</u>	<u>191:01</u>	<u>196:01</u>	<u>198:01</u>	<u>200:01</u>	<u>204:01</u>	<u>210:01</u>	<u>211:01</u>
	<u>217:01</u>	<u>219:01</u>	<u>229:01</u>	<u>236:01</u>	<u>237:01</u>	<u>238:01</u>	<u>239:01</u>	<u>252:01</u>	<u>256:01</u>
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	<u>274:01</u>	<u>277:01</u>	<u>285:01</u>	<u>286:01</u>	<u>296:01</u>	<u>297:01</u>	<u>307:01</u>	<u>308:01</u>	<u>309:01</u>
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	<u>367:01</u>	<u>368:01</u>	<u>369:01</u>	<u>373:01</u>	<u>374:01</u>	<u>380:01</u>	<u>381:01</u>	<u>402:01</u>	<u>410:01</u>
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	<u>457:01</u>	<u>461:01</u>	<u>463:01</u>	<u>466:01</u>	<u>467:01</u>	<u>469:01</u>	<u>470:01</u>	<u>477:01</u>	<u>488:01</u>
	<u>489:01</u>	<u>494:01</u>	<u>499:01</u>	<u>501:01</u>	<u>502:01</u>	<u>510:01</u>	<u>511:01</u>	<u>513:01</u>	<u>514:01</u>
	<u>515:01</u>	<u>525:01</u>	<u>526:01</u>	<u>528:01</u>	<u>532:01</u>	<u>537:01</u>	<u>539:01</u>	<u>549:01</u>	<u>552:01</u>
	<u>557:01</u>	<u>571:01</u>	<u>574:01</u>	<u>577:01</u>	<u>579:01</u>	<u>582:01</u>	<u>586:01</u>	<u>594:01</u>	<u>595:01</u>
	<u>596:01</u>	<u>602:01</u>	<u>603:01</u>	<u>604:01</u>	<u>606:01</u>	<u>608:01</u>	<u>617:01</u>	<u>622:01</u>	<u>624:01</u>
	<u>627:01</u>	<u>628:01</u>	<u>633:01</u>	<u>637:01</u>	<u>639:01</u>	<u>640:01</u>	<u>641:01</u>	<u>646:01</u>	<u>647:01</u>
	<u>650:01</u>	<u>652:01</u>	<u>653:01</u>	<u>655:01</u>	<u>656:01</u>	<u>659:01</u>	<u>660:01</u>	<u>663:01</u>	<u>665:01</u>
	<u>673:01</u>	<u>674:01</u>	<u>678:01</u>	<u>680:01</u>	<u>681:01</u>	<u>685:01</u>	<u>690:01</u>	<u>692:01</u>	<u>701:01</u>
	<u>711:01</u>	<u>723:01</u>	<u>725:01</u>	<u>726:01</u>	<u>730:01</u>	<u>731:01</u>	<u>734:01</u>	<u>735:01</u>	<u>736:01</u>
	<u>740:01</u>	<u>741:01</u>	<u>751:01</u>	<u>752:01</u>	<u>759:01</u>	<u>763:01</u>	<u>770:01</u>	<u>771:01</u>	<u>774:01</u>
	<u>775:01</u>	<u>776:01</u>	<u>780:01</u>	<u>781:01</u>	<u>782:01</u>	<u>783:01</u>	<u>791:01</u>	<u>799:01</u>	<u>805:01</u>
	<u>809:01</u>	<u>816:01</u>	<u>817:01</u>	<u>818:01</u>	<u>819:01</u>	<u>823:01</u>	<u>827:01</u>	<u>832:01</u>	<u>836:01</u>
	<u>841:01</u>	<u>843:01</u>	<u>845:01</u>	<u>857:01</u>	<u>858:01</u>	<u>861:01</u>	<u>863:01</u>	<u>864:01</u>	<u>881:01</u>
	<u>884:01</u>	<u>885:01</u>	<u>886:01</u>	<u>887:01</u>	<u>889:01</u>	<u>890:01</u>	<u>891:01</u>	<u>892:01</u>	<u>897:01</u>
	<u>898:01</u>	<u>900:01</u>	<u>902:01</u>	<u>903:01</u>	<u>918:01</u>	<u>927:01</u>	<u>933:01</u>	<u>936:01</u>	<u>940:01</u>

Candidate Unacceptable Epitope									
	Donor	Equivalent	Antigens						
	<u>942:01</u>	<u>943:01</u>	<u>954:01</u>	<u>955:01</u>	<u>958:01</u>	<u>963:01</u>	<u>964:01</u>	<u>967:01</u>	<u>968:01</u>
	<u>973:01</u>	<u>975:01</u>	<u>981:01</u>	<u>1005:01</u>	<u>1006:01</u>	<u>1007:01</u>	<u>1013:01</u>	<u>1020:01</u>	<u>1025:01</u>
	<u>1028:01</u>	<u>1031:01</u>	<u>1035:01</u>	<u>1036:01</u>					
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	<u>47:01</u>	<u>54:01</u>	<u>97:01</u>	<u>100:01</u>	<u>101:01</u>	<u>106:01</u>	<u>114:01</u>	<u>135:01</u>	<u>139:01</u>
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	<u>301:01</u>	<u>302:01</u>	<u>317:01</u>	<u>330:01</u>	<u>331:01</u>	<u>337:01</u>	<u>358:01</u>	<u>390:01</u>	<u>395:01</u>
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	<u>590:01</u>	<u>611:01</u>	<u>619:01</u>	<u>638:01</u>	<u>668:01</u>	<u>697:01</u>	<u>715:01</u>	<u>717:01</u>	<u>718:01</u>
	<u>720:01</u>	<u>721:01</u>	<u>729:01</u>	<u>744:01</u>	<u>746:01</u>	<u>764:01</u>	<u>766:01</u>	<u>778:01</u>	<u>779:01</u>
	<u>785:01</u>	<u>790:01</u>	<u>798:01</u>	<u>802:01</u>	<u>847:01</u>	<u>848:01</u>	<u>851:01</u>	<u>860:01</u>	<u>923:01</u>
	<u>928:01</u>	<u>929:01</u>	<u>951:01</u>	<u>961:01</u>	<u>962:01</u>	<u>965:01</u>	<u>971:01</u>	<u>980:01</u>	<u>982:01</u>
	<u>1008:01</u>	<u>1015:01</u>	<u>1018:01</u>	<u>1019:01</u>	<u>1026:01</u>				
84DEAV	<u>01:01</u>	<u>03:01</u>	<u>05:01</u>	<u>06:01</u>	<u>08:01</u>	<u>09:01</u>	<u>10:01</u>	<u>11:01</u>	<u>13:01</u>
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	<u>207:01</u>	<u>208:01</u>	<u>209:01</u>	<u>220:01</u>	<u>221:01</u>	<u>222:01</u>	<u>223:01</u>	<u>226:01</u>	<u>234:01</u>
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	<u>251:01</u>	<u>259:01</u>	<u>264:01</u>	<u>265:01</u>	<u>266:01</u>	<u>267:01</u>	<u>268:01</u>	<u>269:01</u>	<u>270:01</u>
	<u>277:01</u>	<u>284:01</u>	<u>285:01</u>	<u>287:01</u>	<u>288:01</u>	<u>289:01</u>	<u>291:01</u>	<u>293:01</u>	<u>295:01</u>
	<u>300:01</u>	<u>301:01</u>	<u>304:01</u>	<u>305:01</u>	<u>312:01</u>	<u>313:01</u>	<u>314:01</u>	<u>315:01</u>	<u>316:01</u>
	<u>317:01</u>	<u>324:01</u>	<u>325:01</u>	<u>326:01</u>	<u>327:01</u>	<u>329:01</u>	<u>331:01</u>	<u>337:01</u>	<u>340:01</u>
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	<u>363:01</u>	<u>370:01</u>	<u>371:01</u>	<u>379:01</u>	<u>383:01</u>	<u>384:01</u>	<u>385:01</u>	<u>386:01</u>	<u>388:01</u>
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	<u>422:01</u>	<u>437:01</u>	<u>438:01</u>	<u>439:01</u>	<u>442:01</u>	<u>445:01</u>	<u>446:01</u>	<u>447:01</u>	<u>448:01</u>
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	<u>506:01</u>	<u>509:01</u>	<u>514:01</u>	<u>515:01</u>	<u>516:01</u>	<u>517:01</u>	<u>518:01</u>	<u>519:01</u>	<u>527:01</u>
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Candidate Unacceptable Epitope									
	Donor	Equivalent	Antigens						
	<u>565:01</u>	<u>566:01</u>	<u>567:01</u>	<u>568:01</u>	<u>572:01</u>	<u>573:01</u>	<u>587:01</u>	<u>588:01</u>	<u>597:01</u>
	<u>599:01</u>	<u>600:01</u>	<u>608:01</u>	<u>609:01</u>	<u>610:01</u>	<u>611:01</u>	<u>612:01</u>	<u>613:01</u>	<u>616:01</u>
	<u>619:01</u>	<u>621:01</u>	<u>623:01</u>	<u>629:01</u>	<u>630:01</u>	<u>631:01</u>	<u>632:01</u>	<u>633:01</u>	<u>634:01</u>
	<u>635:01</u>	<u>636:01</u>	<u>638:01</u>	<u>645:01</u>	<u>648:01</u>	<u>649:01</u>	<u>650:01</u>	<u>651:01</u>	<u>652:01</u>
	<u>653:01</u>	<u>654:01</u>	<u>662:01</u>	<u>664:01</u>	<u>667:01</u>	<u>668:01</u>	<u>669:01</u>	<u>671:01</u>	<u>672:01</u>
	<u>673:01</u>	<u>675:01</u>	<u>676:01</u>	<u>684:01</u>	<u>688:01</u>	<u>689:01</u>	<u>698:01</u>	<u>703:01</u>	<u>704:01</u>
	<u>705:01</u>	<u>706:01</u>	<u>707:01</u>	<u>708:01</u>	<u>709:01</u>	<u>710:01</u>	<u>711:01</u>	<u>713:01</u>	<u>714:01</u>
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	<u>737:01</u>	<u>744:01</u>	<u>746:01</u>	<u>749:01</u>	<u>760:01</u>	<u>764:01</u>	<u>778:01</u>	<u>785:01</u>	<u>789:01</u>
	<u>790:01</u>	<u>791:01</u>	<u>797:01</u>	<u>798:01</u>	<u>801:01</u>	<u>802:01</u>	<u>807:01</u>	<u>810:01</u>	<u>815:01</u>
	<u>822:01</u>	<u>825:01</u>	<u>829:01</u>	<u>832:01</u>	<u>833:01</u>	<u>834:01</u>	<u>839:01</u>	<u>846:01</u>	<u>847:01</u>
	<u>848:01</u>	<u>851:01</u>	<u>853:01</u>	<u>854:01</u>	<u>855:01</u>	<u>856:01</u>	<u>860:01</u>	<u>864:01</u>	<u>879:01</u>
	<u>883:01</u>	<u>886:01</u>	<u>888:01</u>	<u>891:01</u>	<u>892:01</u>	<u>893:01</u>	<u>898:01</u>	<u>899:01</u>	<u>901:01</u>
	<u>902:01</u>	<u>904:01</u>	<u>905:01</u>	<u>906:01</u>	<u>907:01</u>	<u>908:01</u>	<u>909:01</u>	<u>912:01</u>	<u>914:01</u>
	<u>920:01</u>	<u>922:01</u>	<u>923:01</u>	<u>924:01</u>	<u>929:01</u>	<u>930:01</u>	<u>931:01</u>	<u>935:01</u>	<u>937:01</u>
	<u>938:01</u>	<u>940:01</u>	<u>944:01</u>	<u>945:01</u>	<u>946:01</u>	<u>947:01</u>	<u>948:01</u>	<u>949:01</u>	<u>951:01</u>
	<u>952:01</u>	<u>953:01</u>	<u>956:01</u>	<u>965:01</u>	<u>968:01</u>	<u>969:01</u>	<u>970:01</u>	<u>971:01</u>	<u>976:01</u>
	<u>977:01</u>	<u>979:01</u>	<u>980:01</u>	<u>982:01</u>	<u>983:01</u>	<u>990:01</u>	<u>991:01</u>	<u>994:01</u>	<u>996:01</u>
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	<u>1015:01</u>	<u>1017:01</u>	<u>1018:01</u>	<u>1019:01</u>	<u>1021:01</u>	<u>1022:01</u>	<u>1024:01</u>	<u>1026:01</u>	<u>1027:01</u>
	<u>1030:01</u>	<u>1032:01</u>	<u>1034:01</u>						
84GGPM	<u>02:01</u>	<u>02:02</u>	<u>04:01</u>	<u>04:02</u>	<u>23:01</u>	<u>24:01</u>	<u>32:01</u>	<u>33:01</u>	<u>39:01</u>
	<u>41:01</u>	<u>46:01</u>	<u>47:01</u>	<u>48:01</u>	<u>49:01</u>	<u>51:01</u>	<u>59:01</u>	<u>60:01</u>	<u>66:01</u>
	<u>71:01</u>	<u>72:01</u>	<u>73:01</u>	<u>75:01</u>	<u>77:01</u>	<u>80:01</u>	<u>81:01</u>	<u>82:01</u>	<u>83:01</u>
	<u>86:01</u>	<u>94:01</u>	<u>95:01</u>	<u>96:01</u>	<u>99:01</u>	<u>100:01</u>	<u>101:01</u>	<u>105:01</u>	<u>108:01</u>
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	<u>128:01</u>	<u>129:01</u>	<u>134:01</u>	<u>138:01</u>	<u>141:01</u>	<u>143:01</u>	<u>144:01</u>	<u>145:01</u>	<u>146:01</u>
	<u>148:01</u>	<u>149:01</u>	<u>151:01</u>	<u>153:01</u>	<u>155:01</u>	<u>158:01</u>	<u>163:01</u>	<u>164:01</u>	<u>169:01</u>
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	<u>232:01</u>	<u>233:01</u>	<u>235:01</u>	<u>236:01</u>	<u>237:01</u>	<u>238:01</u>	<u>239:01</u>	<u>240:01</u>	<u>252:01</u>
	<u>253:01</u>	<u>254:01</u>	<u>255:01</u>	<u>256:01</u>	<u>257:01</u>	<u>258:01</u>	<u>260:01</u>	<u>261:01</u>	<u>262:01</u>
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	<u>375:01</u>	<u>376:01</u>	<u>377:01</u>	<u>378:01</u>	<u>380:01</u>	<u>381:01</u>	<u>392:01</u>	<u>396:01</u>	<u>397:01</u>

Candidate Unacceptable Epitope									
	Donor	Equivalent	Antigens						
	<u>399:01</u>	<u>402:01</u>	<u>406:01</u>	<u>414:01</u>	<u>415:01</u>	<u>416:01</u>	<u>418:01</u>	<u>419:01</u>	<u>420:01</u>
	<u>421:01</u>	<u>423:01</u>	<u>424:01</u>	<u>425:01</u>	<u>426:01</u>	<u>427:01</u>	<u>428:01</u>	<u>429:01</u>	<u>430:01</u>
	<u>432:01</u>	<u>433:01</u>	<u>434:01</u>	<u>435:01</u>	<u>440:01</u>	<u>441:01</u>	<u>443:01</u>	<u>444:01</u>	<u>451:01</u>
	<u>452:01</u>	<u>453:01</u>	<u>456:01</u>	<u>457:01</u>	<u>459:01</u>	<u>461:01</u>	<u>463:01</u>	<u>464:01</u>	<u>465:01</u>
	<u>468:01</u>	<u>469:01</u>	<u>474:01</u>	<u>475:01</u>	<u>476:01</u>	<u>477:01</u>	<u>478:01</u>	<u>479:01</u>	<u>480:01</u>
	<u>485:01</u>	<u>486:01</u>	<u>487:01</u>	<u>488:01</u>	<u>494:01</u>	<u>496:01</u>	<u>497:01</u>	<u>500:01</u>	<u>501:01</u>
	<u>502:01</u>	<u>508:01</u>	<u>510:01</u>	<u>511:01</u>	<u>520:01</u>	<u>521:01</u>	<u>522:01</u>	<u>523:01</u>	<u>524:01</u>
	<u>525:01</u>	<u>528:01</u>	<u>529:01</u>	<u>531:01</u>	<u>534:01</u>	<u>537:01</u>	<u>539:01</u>	<u>540:01</u>	<u>547:01</u>
	<u>549:01</u>	<u>553:01</u>	<u>554:01</u>	<u>555:01</u>	<u>556:01</u>	<u>557:01</u>	<u>559:01</u>	<u>561:01</u>	<u>569:01</u>
	<u>571:01</u>	<u>574:01</u>	<u>575:01</u>	<u>576:01</u>	<u>577:01</u>	<u>578:01</u>	<u>579:01</u>	<u>581:01</u>	<u>582:01</u>
	<u>583:01</u>	<u>584:01</u>	<u>586:01</u>	<u>591:01</u>	<u>593:01</u>	<u>594:01</u>	<u>595:01</u>	<u>596:01</u>	<u>601:01</u>
	<u>602:01</u>	<u>603:01</u>	<u>604:01</u>	<u>605:01</u>	<u>606:01</u>	<u>607:01</u>	<u>614:01</u>	<u>615:01</u>	<u>617:01</u>
	<u>618:01</u>	<u>620:01</u>	<u>622:01</u>	<u>624:01</u>	<u>625:01</u>	<u>626:01</u>	<u>627:01</u>	<u>628:01</u>	<u>637:01</u>
	<u>639:01</u>	<u>640:01</u>	<u>641:01</u>	<u>642:01</u>	<u>643:01</u>	<u>646:01</u>	<u>647:01</u>	<u>655:01</u>	<u>656:01</u>
	<u>658:01</u>	<u>659:01</u>	<u>660:01</u>	<u>663:01</u>	<u>665:01</u>	<u>666:01</u>	<u>670:01</u>	<u>674:01</u>	<u>677:01</u>
	<u>678:01</u>	<u>679:01</u>	<u>680:01</u>	<u>681:01</u>	<u>682:01</u>	<u>683:01</u>	<u>685:01</u>	<u>686:01</u>	<u>687:01</u>
	<u>690:01</u>	<u>692:01</u>	<u>694:01</u>	<u>699:01</u>	<u>701:01</u>	<u>702:01</u>	<u>721:01</u>	<u>722:01</u>	<u>723:01</u>
	<u>725:01</u>	<u>726:01</u>	<u>730:01</u>	<u>731:01</u>	<u>734:01</u>	<u>735:01</u>	<u>736:01</u>	<u>739:01</u>	<u>741:01</u>
	<u>742:01</u>	<u>747:01</u>	<u>750:01</u>	<u>751:01</u>	<u>753:01</u>	<u>755:01</u>	<u>757:01</u>	<u>758:01</u>	<u>759:01</u>
	<u>761:01</u>	<u>762:01</u>	<u>763:01</u>	<u>765:01</u>	<u>766:01</u>	<u>767:01</u>	<u>769:01</u>	<u>770:01</u>	<u>771:01</u>
	<u>772:01</u>	<u>773:01</u>	<u>774:01</u>	<u>775:01</u>	<u>776:01</u>	<u>779:01</u>	<u>780:01</u>	<u>781:01</u>	<u>782:01</u>
	<u>783:01</u>	<u>784:01</u>	<u>787:01</u>	<u>788:01</u>	<u>795:01</u>	<u>796:01</u>	<u>799:01</u>	<u>803:01</u>	<u>804:01</u>
	<u>805:01</u>	<u>806:01</u>	<u>808:01</u>	<u>809:01</u>	<u>811:01</u>	<u>812:01</u>	<u>813:01</u>	<u>814:01</u>	<u>816:01</u>
	<u>817:01</u>	<u>818:01</u>	<u>819:01</u>	<u>820:01</u>	<u>823:01</u>	<u>824:01</u>	<u>826:01</u>	<u>827:01</u>	<u>828:01</u>
	<u>830:01</u>	<u>836:01</u>	<u>837:01</u>	<u>840:01</u>	<u>841:01</u>	<u>842:01</u>	<u>843:01</u>	<u>845:01</u>	<u>849:01</u>
	<u>850:01</u>	<u>852:01</u>	<u>857:01</u>	<u>858:01</u>	<u>859:01</u>	<u>861:01</u>	<u>863:01</u>	<u>880:01</u>	<u>881:01</u>
	<u>882:01</u>	<u>884:01</u>	<u>885:01</u>	<u>887:01</u>	<u>889:01</u>	<u>890:01</u>	<u>895:01</u>	<u>915:01</u>	<u>916:01</u>
	<u>921:01</u>	<u>926:01</u>	<u>927:01</u>	<u>928:01</u>	<u>932:01</u>	<u>933:01</u>	<u>934:01</u>	<u>936:01</u>	<u>943:01</u>
	<u>954:01</u>	<u>955:01</u>	<u>957:01</u>	<u>958:01</u>	<u>961:01</u>	<u>962:01</u>	<u>963:01</u>	<u>964:01</u>	<u>966:01</u>
	<u>967:01</u>	<u>972:01</u>	<u>973:01</u>	<u>975:01</u>	<u>978:01</u>	<u>981:01</u>	<u>987:01</u>	<u>988:01</u>	<u>989:01</u>
	<u>992:01</u>	<u>993:01</u>	<u>997:01</u>	<u>1001:01</u>	<u>1002:01</u>	<u>1003:01</u>	<u>1004:01</u>	<u>1005:01</u>	<u>1010:01</u>
	<u>1011:01</u>	<u>1013:01</u>	<u>1016:01</u>	<u>1020:01</u>	<u>1023:01</u>	<u>1025:01</u>	<u>1028:01</u>	<u>1031:01</u>	<u>1033:01</u>
	<u>1035:01</u>	<u>1036:01</u>							
84VGPM	<u>15:01</u>	<u>18:01</u>	<u>28:01</u>	<u>34:01</u>	<u>40:01</u>	<u>53:01</u>	<u>62:01</u>	<u>74:01</u>	<u>139:01</u>
	<u>198:01</u>	<u>290:01</u>	<u>292:01</u>	<u>296:01</u>	<u>299:01</u>	<u>333:01</u>	<u>345:01</u>	<u>347:01</u>	<u>387:01</u>
	<u>471:01</u>	<u>482:01</u>	<u>484:01</u>	<u>493:01</u>	<u>499:01</u>	<u>512:01</u>	<u>526:01</u>	<u>580:01</u>	<u>585:01</u>
	<u>644:01</u>	<u>695:01</u>	<u>745:01</u>	<u>752:01</u>	<u>768:01</u>	<u>835:01</u>	<u>896:01</u>	<u>897:01</u>	<u>900:01</u>
	<u>903:01</u>	<u>910:01</u>	<u>913:01</u>	<u>918:01</u>	<u>942:01</u>				

Table 4-16: Reportable OPTN DPB1 HLA Allele Values

<u>01:01</u>	<u>02:01</u>	<u>02:02</u>	<u>03:01</u>	<u>04:01</u>	<u>04:02</u>	<u>05:01</u>	<u>06:01</u>	<u>08:01</u>	<u>09:01</u>
<u>10:01</u>	<u>11:01</u>	<u>13:01</u>	<u>14:01</u>	<u>15:01</u>	<u>16:01</u>	<u>17:01</u>	<u>18:01</u>	<u>19:01</u>	<u>20:01</u>
<u>21:01</u>	<u>22:01</u>	<u>23:01</u>	<u>24:01</u>	<u>25:01</u>	<u>26:01</u>	<u>27:01</u>	<u>28:01</u>	<u>29:01</u>	<u>30:01</u>
<u>31:01</u>	<u>32:01</u>	<u>33:01</u>	<u>34:01</u>	<u>35:01</u>	<u>36:01</u>	<u>37:01</u>	<u>38:01</u>	<u>39:01</u>	<u>40:01</u>
<u>41:01</u>	<u>44:01</u>	<u>45:01</u>	<u>46:01</u>	<u>47:01</u>	<u>48:01</u>	<u>49:01</u>	<u>50:01</u>	<u>51:01</u>	<u>52:01</u>
<u>53:01</u>	<u>54:01</u>	<u>55:01</u>	<u>56:01</u>	<u>57:01</u>	<u>58:01</u>	<u>59:01</u>	<u>60:01</u>	<u>62:01</u>	<u>63:01</u>
<u>65:01</u>	<u>66:01</u>	<u>67:01</u>	<u>68:01</u>	<u>69:01</u>	<u>70:01</u>	<u>71:01</u>	<u>72:01</u>	<u>73:01</u>	<u>74:01</u>
<u>75:01</u>	<u>76:01</u>	<u>77:01</u>	<u>78:01</u>	<u>79:01</u>	<u>80:01</u>	<u>81:01</u>	<u>82:01</u>	<u>83:01</u>	<u>84:01</u>
<u>85:01</u>	<u>86:01</u>	<u>87:01</u>	<u>88:01</u>	<u>89:01</u>	<u>90:01</u>	<u>91:01</u>	<u>92:01</u>	<u>93:01</u>	<u>94:01</u>
<u>95:01</u>	<u>96:01</u>	<u>97:01</u>	<u>98:01</u>	<u>99:01</u>	<u>100:01</u>	<u>101:01</u>	<u>102:01</u>	<u>103:01</u>	<u>104:01</u>
<u>105:01</u>	<u>106:01</u>	<u>107:01</u>	<u>108:01</u>	<u>109:01</u>	<u>110:01</u>	<u>111:01</u>	<u>112:01</u>	<u>113:01</u>	<u>114:01</u>
<u>115:01</u>	<u>116:01</u>	<u>117:01</u>	<u>118:01</u>	<u>119:01</u>	<u>121:01</u>	<u>122:01</u>	<u>123:01</u>	<u>124:01</u>	<u>125:01</u>
<u>126:01</u>	<u>127:01</u>	<u>128:01</u>	<u>129:01</u>	<u>130:01</u>	<u>131:01</u>	<u>132:01</u>	<u>133:01</u>	<u>134:01</u>	<u>135:01</u>
<u>136:01</u>	<u>137:01</u>	<u>138:01</u>	<u>139:01</u>	<u>140:01</u>	<u>141:01</u>	<u>142:01</u>	<u>143:01</u>	<u>144:01</u>	<u>145:01</u>
<u>146:01</u>	<u>147:01</u>	<u>148:01</u>	<u>149:01</u>	<u>150:01</u>	<u>151:01</u>	<u>152:01</u>	<u>153:01</u>	<u>155:01</u>	<u>156:01</u>
<u>157:01</u>	<u>158:01</u>	<u>160:01</u>	<u>162:01</u>	<u>163:01</u>	<u>164:01</u>	<u>165:01</u>	<u>166:01</u>	<u>167:01</u>	<u>168:01</u>
<u>169:01</u>	<u>170:01</u>	<u>171:01</u>	<u>172:01</u>	<u>173:01</u>	<u>174:01</u>	<u>175:01</u>	<u>176:01</u>	<u>177:01</u>	<u>178:01</u>
<u>179:01</u>	<u>180:01</u>	<u>181:01</u>	<u>182:01</u>	<u>183:01</u>	<u>184:01</u>	<u>185:01</u>	<u>186:01</u>	<u>187:01</u>	<u>188:01</u>
<u>189:01</u>	<u>190:01</u>	<u>191:01</u>	<u>192:01</u>	<u>193:01</u>	<u>194:01</u>	<u>195:01</u>	<u>196:01</u>	<u>197:01</u>	<u>198:01</u>
<u>199:01</u>	<u>200:01</u>	<u>201:01</u>	<u>202:01</u>	<u>203:01</u>	<u>204:01</u>	<u>205:01</u>	<u>206:01</u>	<u>207:01</u>	<u>208:01</u>
<u>209:01</u>	<u>210:01</u>	<u>211:01</u>	<u>212:01</u>	<u>213:01</u>	<u>214:01</u>	<u>215:01</u>	<u>217:01</u>	<u>219:01</u>	<u>220:01</u>
<u>221:01</u>	<u>222:01</u>	<u>223:01</u>	<u>224:01</u>	<u>225:01</u>	<u>226:01</u>	<u>227:01</u>	<u>228:01</u>	<u>229:01</u>	<u>230:01</u>
<u>231:01</u>	<u>232:01</u>	<u>233:01</u>	<u>234:01</u>	<u>235:01</u>	<u>236:01</u>	<u>237:01</u>	<u>238:01</u>	<u>239:01</u>	<u>240:01</u>
<u>241:01</u>	<u>242:01</u>	<u>243:01</u>	<u>244:01</u>	<u>245:01</u>	<u>246:01</u>	<u>247:01</u>	<u>248:01</u>	<u>249:01</u>	<u>250:01</u>
<u>251:01</u>	<u>252:01</u>	<u>253:01</u>	<u>254:01</u>	<u>255:01</u>	<u>256:01</u>	<u>257:01</u>	<u>258:01</u>	<u>259:01</u>	<u>260:01</u>
<u>261:01</u>	<u>262:01</u>	<u>263:01</u>	<u>264:01</u>	<u>265:01</u>	<u>266:01</u>	<u>267:01</u>	<u>268:01</u>	<u>269:01</u>	<u>270:01</u>
<u>271:01</u>	<u>272:01</u>	<u>273:01</u>	<u>274:01</u>	<u>275:01</u>	<u>276:01</u>	<u>277:01</u>	<u>278:01</u>	<u>279:01</u>	<u>280:01</u>
<u>281:01</u>	<u>282:01</u>	<u>283:01</u>	<u>284:01</u>	<u>285:01</u>	<u>286:01</u>	<u>287:01</u>	<u>288:01</u>	<u>289:01</u>	<u>290:01</u>
<u>291:01</u>	<u>292:01</u>	<u>293:01</u>	<u>294:01</u>	<u>295:01</u>	<u>296:01</u>	<u>297:01</u>	<u>298:01</u>	<u>299:01</u>	<u>300:01</u>
<u>301:01</u>	<u>302:01</u>	<u>303:01</u>	<u>304:01</u>	<u>305:01</u>	<u>306:01</u>	<u>307:01</u>	<u>308:01</u>	<u>309:01</u>	<u>310:01</u>
<u>311:01</u>	<u>312:01</u>	<u>313:01</u>	<u>314:01</u>	<u>315:01</u>	<u>316:01</u>	<u>317:01</u>	<u>318:01</u>	<u>319:01</u>	<u>320:01</u>
<u>321:01</u>	<u>322:01</u>	<u>323:01</u>	<u>324:01</u>	<u>325:01</u>	<u>326:01</u>	<u>327:01</u>	<u>329:01</u>	<u>330:01</u>	<u>331:01</u>
<u>332:01</u>	<u>333:01</u>	<u>334:01</u>	<u>335:01</u>	<u>336:01</u>	<u>337:01</u>	<u>338:01</u>	<u>339:01</u>	<u>340:01</u>	<u>341:01</u>
<u>342:01</u>	<u>343:01</u>	<u>344:01</u>	<u>345:01</u>	<u>346:01</u>	<u>347:01</u>	<u>348:01</u>	<u>349:01</u>	<u>350:01</u>	<u>351:01</u>
<u>352:01</u>	<u>353:01</u>	<u>354:01</u>	<u>355:01</u>	<u>356:01</u>	<u>358:01</u>	<u>359:01</u>	<u>360:01</u>	<u>361:01</u>	<u>362:01</u>
<u>363:01</u>	<u>364:01</u>	<u>365:01</u>	<u>366:01</u>	<u>367:01</u>	<u>368:01</u>	<u>369:01</u>	<u>370:01</u>	<u>371:01</u>	<u>372:01</u>
<u>373:01</u>	<u>374:01</u>	<u>375:01</u>	<u>376:01</u>	<u>377:01</u>	<u>378:01</u>	<u>379:01</u>	<u>380:01</u>	<u>381:01</u>	<u>383:01</u>
<u>384:01</u>	<u>385:01</u>	<u>386:01</u>	<u>387:01</u>	<u>388:01</u>	<u>389:01</u>	<u>390:01</u>	<u>391:01</u>	<u>392:01</u>	<u>393:01</u>
<u>394:01</u>	<u>395:01</u>	<u>396:01</u>	<u>397:01</u>	<u>398:01</u>	<u>399:01</u>	<u>400:01</u>	<u>402:01</u>	<u>404:01</u>	<u>405:01</u>

<u>406:01</u>	<u>407:01</u>	<u>408:01</u>	<u>409:01</u>	<u>410:01</u>	<u>411:01</u>	<u>412:01</u>	<u>413:01</u>	<u>414:01</u>	<u>415:01</u>
<u>416:01</u>	<u>417:01</u>	<u>418:01</u>	<u>419:01</u>	<u>420:01</u>	<u>421:01</u>	<u>422:01</u>	<u>423:01</u>	<u>424:01</u>	<u>425:01</u>
<u>426:01</u>	<u>427:01</u>	<u>428:01</u>	<u>429:01</u>	<u>430:01</u>	<u>431:01</u>	<u>432:01</u>	<u>433:01</u>	<u>434:01</u>	<u>435:01</u>
<u>436:01</u>	<u>437:01</u>	<u>438:01</u>	<u>439:01</u>	<u>440:01</u>	<u>441:01</u>	<u>442:01</u>	<u>443:01</u>	<u>444:01</u>	<u>445:01</u>
<u>446:01</u>	<u>447:01</u>	<u>448:01</u>	<u>449:01</u>	<u>451:01</u>	<u>452:01</u>	<u>453:01</u>	<u>454:01</u>	<u>456:01</u>	<u>457:01</u>
<u>458:01</u>	<u>459:01</u>	<u>460:01</u>	<u>461:01</u>	<u>462:01</u>	<u>463:01</u>	<u>464:01</u>	<u>465:01</u>	<u>466:01</u>	<u>467:01</u>
<u>468:01</u>	<u>469:01</u>	<u>470:01</u>	<u>471:01</u>	<u>472:01</u>	<u>473:01</u>	<u>474:01</u>	<u>475:01</u>	<u>476:01</u>	<u>477:01</u>
<u>478:01</u>	<u>479:01</u>	<u>480:01</u>	<u>481:01</u>	<u>482:01</u>	<u>483:01</u>	<u>484:01</u>	<u>485:01</u>	<u>486:01</u>	<u>487:01</u>
<u>488:01</u>	<u>489:01</u>	<u>490:01</u>	<u>491:01</u>	<u>492:01</u>	<u>493:01</u>	<u>494:01</u>	<u>495:01</u>	<u>496:01</u>	<u>497:01</u>
<u>498:01</u>	<u>499:01</u>	<u>500:01</u>	<u>501:01</u>	<u>502:01</u>	<u>503:01</u>	<u>504:01</u>	<u>505:01</u>	<u>506:01</u>	<u>508:01</u>
<u>509:01</u>	<u>510:01</u>	<u>511:01</u>	<u>512:01</u>	<u>513:01</u>	<u>514:01</u>	<u>515:01</u>	<u>516:01</u>	<u>517:01</u>	<u>518:01</u>
<u>519:01</u>	<u>520:01</u>	<u>521:01</u>	<u>522:01</u>	<u>523:01</u>	<u>524:01</u>	<u>525:01</u>	<u>526:01</u>	<u>527:01</u>	<u>528:01</u>
<u>529:01</u>	<u>530:01</u>	<u>531:01</u>	<u>532:01</u>	<u>533:01</u>	<u>534:01</u>	<u>535:01</u>	<u>536:01</u>	<u>537:01</u>	<u>538:01</u>
<u>539:01</u>	<u>540:01</u>	<u>541:01</u>	<u>542:01</u>	<u>543:01</u>	<u>544:01</u>	<u>545:01</u>	<u>546:01</u>	<u>547:01</u>	<u>548:01</u>
<u>549:01</u>	<u>550:01</u>	<u>552:01</u>	<u>553:01</u>	<u>554:01</u>	<u>555:01</u>	<u>556:01</u>	<u>557:01</u>	<u>558:01</u>	<u>559:01</u>
<u>560:01</u>	<u>561:01</u>	<u>562:01</u>	<u>563:01</u>	<u>564:01</u>	<u>565:01</u>	<u>566:01</u>	<u>567:01</u>	<u>568:01</u>	<u>569:01</u>
<u>571:01</u>	<u>572:01</u>	<u>573:01</u>	<u>574:01</u>	<u>575:01</u>	<u>576:01</u>	<u>577:01</u>	<u>578:01</u>	<u>579:01</u>	<u>580:01</u>
<u>581:01</u>	<u>582:01</u>	<u>583:01</u>	<u>584:01</u>	<u>585:01</u>	<u>586:01</u>	<u>587:01</u>	<u>588:01</u>	<u>589:01</u>	<u>590:01</u>
<u>591:01</u>	<u>592:01</u>	<u>593:01</u>	<u>594:01</u>	<u>595:01</u>	<u>596:01</u>	<u>597:01</u>	<u>599:01</u>	<u>600:01</u>	<u>601:01</u>
<u>602:01</u>	<u>603:01</u>	<u>604:01</u>	<u>605:01</u>	<u>606:01</u>	<u>607:01</u>	<u>608:01</u>	<u>609:01</u>	<u>610:01</u>	<u>611:01</u>
<u>612:01</u>	<u>613:01</u>	<u>614:01</u>	<u>615:01</u>	<u>616:01</u>	<u>617:01</u>	<u>618:01</u>	<u>619:01</u>	<u>620:01</u>	<u>621:01</u>
<u>622:01</u>	<u>623:01</u>	<u>624:01</u>	<u>625:01</u>	<u>626:01</u>	<u>627:01</u>	<u>628:01</u>	<u>629:01</u>	<u>630:01</u>	<u>631:01</u>
<u>632:01</u>	<u>633:01</u>	<u>634:01</u>	<u>635:01</u>	<u>636:01</u>	<u>637:01</u>	<u>638:01</u>	<u>639:01</u>	<u>640:01</u>	<u>641:01</u>
<u>642:01</u>	<u>643:01</u>	<u>644:01</u>	<u>645:01</u>	<u>646:01</u>	<u>647:01</u>	<u>648:01</u>	<u>649:01</u>	<u>650:01</u>	<u>651:01</u>
<u>652:01</u>	<u>653:01</u>	<u>654:01</u>	<u>655:01</u>	<u>656:01</u>	<u>658:01</u>	<u>659:01</u>	<u>660:01</u>	<u>662:01</u>	<u>663:01</u>
<u>664:01</u>	<u>665:01</u>	<u>666:01</u>	<u>667:01</u>	<u>668:01</u>	<u>669:01</u>	<u>670:01</u>	<u>671:01</u>	<u>672:01</u>	<u>673:01</u>
<u>674:01</u>	<u>675:01</u>	<u>676:01</u>	<u>677:01</u>	<u>678:01</u>	<u>679:01</u>	<u>680:01</u>	<u>681:01</u>	<u>682:01</u>	<u>683:01</u>
<u>684:01</u>	<u>685:01</u>	<u>686:01</u>	<u>687:01</u>	<u>688:01</u>	<u>689:01</u>	<u>690:01</u>	<u>692:01</u>	<u>694:01</u>	<u>695:01</u>
<u>697:01</u>	<u>698:01</u>	<u>699:01</u>	<u>701:01</u>	<u>702:01</u>	<u>703:01</u>	<u>704:01</u>	<u>705:01</u>	<u>706:01</u>	<u>707:01</u>
<u>708:01</u>	<u>709:01</u>	<u>710:01</u>	<u>711:01</u>	<u>713:01</u>	<u>714:01</u>	<u>715:01</u>	<u>716:01</u>	<u>717:01</u>	<u>718:01</u>
<u>718:01</u>	<u>719:01</u>	<u>720:01</u>	<u>721:01</u>	<u>722:01</u>	<u>723:01</u>	<u>725:01</u>	<u>726:01</u>	<u>727:01</u>	<u>729:01</u>
<u>730:01</u>	<u>731:01</u>	<u>733:01</u>	<u>734:01</u>	<u>735:01</u>	<u>736:01</u>	<u>737:01</u>	<u>739:01</u>	<u>740:01</u>	<u>741:01</u>
<u>742:01</u>	<u>744:01</u>	<u>745:01</u>	<u>746:01</u>	<u>747:01</u>	<u>749:01</u>	<u>750:01</u>	<u>751:01</u>	<u>752:01</u>	<u>753:01</u>
<u>755:01</u>	<u>757:01</u>	<u>758:01</u>	<u>759:01</u>	<u>760:01</u>	<u>761:01</u>	<u>762:01</u>	<u>763:01</u>	<u>764:01</u>	<u>765:01</u>
<u>766:01</u>	<u>767:01</u>	<u>768:01</u>	<u>769:01</u>	<u>770:01</u>	<u>771:01</u>	<u>772:01</u>	<u>773:01</u>	<u>774:01</u>	<u>775:01</u>
<u>776:01</u>	<u>778:01</u>	<u>779:01</u>	<u>780:01</u>	<u>781:01</u>	<u>782:01</u>	<u>783:01</u>	<u>784:01</u>	<u>785:01</u>	<u>787:01</u>
<u>788:01</u>	<u>789:01</u>	<u>790:01</u>	<u>791:01</u>	<u>795:01</u>	<u>796:01</u>	<u>797:01</u>	<u>798:01</u>	<u>799:01</u>	<u>801:01</u>
<u>802:01</u>	<u>803:01</u>	<u>804:01</u>	<u>805:01</u>	<u>806:01</u>	<u>807:01</u>	<u>808:01</u>	<u>809:01</u>	<u>810:01</u>	<u>811:01</u>
<u>812:01</u>	<u>813:01</u>	<u>814:01</u>	<u>815:01</u>	<u>816:01</u>	<u>817:01</u>	<u>818:01</u>	<u>819:01</u>	<u>820:01</u>	<u>822:01</u>
<u>823:01</u>	<u>824:01</u>	<u>825:01</u>	<u>826:01</u>	<u>827:01</u>	<u>828:01</u>	<u>829:01</u>	<u>830:01</u>	<u>832:01</u>	<u>833:01</u>

<u>834:01</u>	<u>835:01</u>	<u>836:01</u>	<u>837:01</u>	<u>839:01</u>	<u>840:01</u>	<u>841:01</u>	<u>842:01</u>	<u>843:01</u>	<u>845:01</u>
<u>846:01</u>	<u>847:01</u>	<u>848:01</u>	<u>849:01</u>	<u>850:01</u>	<u>851:01</u>	<u>852:01</u>	<u>853:01</u>	<u>854:01</u>	<u>855:01</u>
<u>856:01</u>	<u>857:01</u>	<u>858:01</u>	<u>859:01</u>	<u>860:01</u>	<u>861:01</u>	<u>863:01</u>	<u>864:01</u>	<u>879:01</u>	<u>880:01</u>
<u>881:01</u>	<u>882:01</u>	<u>883:01</u>	<u>884:01</u>	<u>885:01</u>	<u>886:01</u>	<u>887:01</u>	<u>888:01</u>	<u>889:01</u>	<u>890:01</u>
<u>891:01</u>	<u>892:01</u>	<u>893:01</u>	<u>895:01</u>	<u>896:01</u>	<u>897:01</u>	<u>898:01</u>	<u>899:01</u>	<u>900:01</u>	<u>901:01</u>
<u>902:01</u>	<u>903:01</u>	<u>904:01</u>	<u>905:01</u>	<u>906:01</u>	<u>907:01</u>	<u>908:01</u>	<u>909:01</u>	<u>910:01</u>	<u>912:01</u>
<u>913:01</u>	<u>914:01</u>	<u>915:01</u>	<u>916:01</u>	<u>918:01</u>	<u>920:01</u>	<u>921:01</u>	<u>922:01</u>	<u>923:01</u>	<u>924:01</u>
<u>926:01</u>	<u>927:01</u>	<u>928:01</u>	<u>929:01</u>	<u>930:01</u>	<u>931:01</u>	<u>932:01</u>	<u>933:01</u>	<u>934:01</u>	<u>935:01</u>
<u>936:01</u>	<u>937:01</u>	<u>938:01</u>	<u>940:01</u>	<u>942:01</u>	<u>943:01</u>	<u>944:01</u>	<u>945:01</u>	<u>946:01</u>	<u>947:01</u>
<u>948:01</u>	<u>949:01</u>	<u>951:01</u>	<u>952:01</u>	<u>953:01</u>	<u>954:01</u>	<u>955:01</u>	<u>956:01</u>	<u>957:01</u>	<u>958:01</u>
<u>961:01</u>	<u>962:01</u>	<u>963:01</u>	<u>964:01</u>	<u>965:01</u>	<u>966:01</u>	<u>967:01</u>	<u>968:01</u>	<u>969:01</u>	<u>970:01</u>
<u>971:01</u>	<u>972:01</u>	<u>973:01</u>	<u>975:01</u>	<u>976:01</u>	<u>977:01</u>	<u>978:01</u>	<u>979:01</u>	<u>980:01</u>	<u>981:01</u>
<u>982:01</u>	<u>983:01</u>	<u>987:01</u>	<u>988:01</u>	<u>989:01</u>	<u>990:01</u>	<u>991:01</u>	<u>992:01</u>	<u>993:01</u>	<u>994:01</u>
<u>996:01</u>	<u>997:01</u>	<u>998:01</u>	<u>999:01</u>	<u>1000:01</u>	<u>1001:01</u>	<u>1002:01</u>	<u>1003:01</u>	<u>1004:01</u>	<u>1005:01</u>
<u>1006:01</u>	<u>1007:01</u>	<u>1008:01</u>	<u>1009:01</u>	<u>1010:01</u>	<u>1011:01</u>	<u>1012:01</u>	<u>1013:01</u>	<u>1014:01</u>	<u>1015:01</u>
<u>1016:01</u>	<u>1017:01</u>	<u>1018:01</u>	<u>1019:01</u>	<u>1020:01</u>	<u>1021:01</u>	<u>1022:01</u>	<u>1023:01</u>	<u>1024:01</u>	<u>1025:01</u>
<u>1026:01</u>	<u>1027:01</u>	<u>1028:01</u>	<u>1030:01</u>	<u>1031:01</u>	<u>1032:01</u>	<u>1033:01</u>	<u>1034:01</u>	<u>1035:01</u>	<u>1036:01</u>

Table 4-157: Additional Unacceptable Antigen Equivalences to be used in the Calculated Panel Reactive Antibody (CPRA) Only

Locus	Patient Unacceptable Antigen	Unacceptable DR antigen equivalences used for CPRA calculation
DR51	51	2, 15, 16
DR52	52	3, 5, 6, 11, 12, 13, 14, 17, 18
DR53	53	4, 7, 9