

CELL EXCHANGE #417
AUGUST 5, 2020

Cells 1665-1668

The results for Cell Exchange #417 are summarized in Table 7 - 11. Molecular typing results for individual laboratories are listed in Tables 12 – 19 for each sample and individual serological results for each sample are listed in Table 20. Twelve labs submitted low and/or high resolution class II results for

this study. We would like to thank each of them for sharing their results and encourage other labs to do so as well so that we may begin to grade the class II assignments.

Cell 1665. A*11:01-B*13:01-B*56:04-C*01:02-C*04:06 is the reported class I type for this cell from a Filipino donor. Likely class I associations present in this cell are A*11:01-B*56:04-C*01:02 and A*11:01-B*13:01-C*04:06. Each are exclusively observed in Asian populations, with respective HF = 0.00059 and 0.00075.

This cell was typed previously in the Exchange as cells 1475 (2012), 1532 (2014), and 1621 (2018). In this most recent study, good agreement (100%) was achieved among labs for each class I allele assignment. DRB1*11:01-DRB1*12:02-DRB3*02:02-DRB3*03:01-DQA1*05:05-DQA1*06:01-DQB1*03:01-DPA1*02:02-DPB1*02:02-DPB1*05:01 is the reported class II type for this sample.

Cell 1666. A*29:02-A*68:01-B*35:03-B*51:01-C*04:01-C*14:02 is the reported class I type for this cell from a Hispanic donor. Class I associations likely present in cell are A*29:02-B*35:03-C*04:01 and A*68:01-B*51:01-C*14:02, with respective HF = 0.00024 and 0.00133, in Hispanics.

Good agreement (100%) was achieved among labs for each class I allele assignment by labs reporting at high resolution. DRB1*01:01-DRB1*16:01-DRB5*02:02-DQA1*01:01-DQA1*01:02-DQB1*05:01-DQB1*05:02-DPA1*01:03-DPA1*02:01-DPB1*04:01-DPB1*09:01 is the reported class II type for this sample.

Cell 1667. A*68:01-A*68:02-B*53:01-B*58:02-C*04:01-C*06:02 was the reported class I type for this cell from a Black donor. One likely class I association present in this cell is A*68:01-B*58:02-C*06:02, observed exclusively in African Americans, with HF = 0.01215. The other likely association present, A*68:02-B*53:01-C*04:01, is the 9th most commonly observed association in African Americans, with HF = 0.01290.

This cell was previously typed as cell 1608 (2017). In this present retyping, good agreement ($\geq 90\%$) was once again achieved for class I allele assignments by labs reporting at high resolution. DRB1*12:01-DRB1*13:02-DRB3*02:02-DRB3*03:01-DQA1*01:02-DQA1*01:05-DQB1*05:01-DQB1*06:09-DPA1*01:03-DPA1*02:01-DPB1*02:01-DPB1*13:01 is the reported class II type for this sample.

Cell 1668. A*01:02-A*24:02-B*40:02-B*49:01-C*03:05-C*07:01 is the reported class I type for this cell from a Hispanic donor. Likely class I associations present in this cell are A*01:02-B*40:02-C*03:05 and A*24:02-B*49:01-C*07:01, with respective HF = 0.00025 and 0.00129, in Hispanics.

This cell was previously examined in the Exchange as cells 1498 (2013) and 1545 (2015). In this current study, good agreement (100%) was achieved for each class I allele assignment by labs reporting at high resolution. DRB1*04:07-DRB1*10:01-DRB4*01:03-DQA1*01:05-DQA1*03:01-DQB1*03:02-DQB1*05:01-DPA1*01:03-DPA1*02:01-DPB1*04:02-DPB1*13:01 is the reported class II type for this sample.

NEXT MAILING DATE: October 7, 2020

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Table 9: Summary of the 417th Cell Exchange - DNA Typing

Cell 1667

DNA Typing - class I		11 labs High; 14 labs low- A		11 labs High; 14 labs low- B		10 labs High; 13 labs low- C							
	%(n)		%(n)		%(n)		%(n)						
A*68:01:01:02	18(2)	B*53:01:01:01	18(2)	C*04:01:01	30(3)								
A*68:01:01	9 (1)	B*53:01:01	9 (1)	C*04:01:01G	10(1)								
A*68:01	73(8)	B*53:01P	9 (1)	C*04:01	60(6)								
A*68	100(14)	B*53:01	64(7)	C*04	100(13)								
		B*53	100(14)										
DNA Typing - class II		7 labs High; 7 labs low-DRB1		4 labs High; 4 labs low-DRB3/4/5		2 labs High; 6 labs Low-DQA1		6 labs High; 6 labs Low-DQB1		2 labs High; 4 labs Low-DPA1		5 labs High; 3 labs Low-DPB1	
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DRB1*12:01:01	29(2)	DRB3*02:02:01	25(1)	DQA1*01:02:01	50(1)	DQB1*05:01:01	33(2)	DPA1*01:03:01	50(1)	DPB1*02:01:02	40(2)		
DRB1*12:01P	29(2)	DRB3*02:02	75(3)	DQA1*01:02	50(1)	DQB1*05:01	67(4)	DPA1*01:03	50(1)	DPB1*02:01P	20(1)		
DRB1*12:01	42(3)	DRB3*02	100(4)	DQA1*01	100(6)	DQB1*05	100(6)	DPA1*01	100(4)	DPB1*02:01	40(2)		
DRB1*12	100(7)									DPB1*02(DP201)	100(3)		
DNA Typing - class II		7 labs High; 7 labs low-DRB1		4 labs High; 4 labs low-DRB3/4/5		2 labs High-DQA1		6 labs High; 6 labs Low-DQB1		2 labs High; 4 labs Low-DPA1		5 labs High; 3 labs Low-DPB1	
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DRB1*13:02:01	29(2)	DRB3*03:01:01	25(1)	DQA1*01:05:01	50(1)	DQB1*06:09:01	33(2)	DPA1*02:01:01	50(1)	DPB1*13:01:01	20(1)		
DRB1*13:02	71(5)	DRB3*03:01	75(3)	DQA1*01:05	50(1)	DQB1*06:09	67(4)	DPA1*02:01	50(1)	DPB1*13:01P	40(2)		
DRB1*13	100(7)	DRB3*03	100(4)			DQB1*06	100(6)	DPA1*02	100(4)	DPB1*13:01	40(2)		
										DPB1*13	100(3)		

Table 10: Summary of the 417th Cell Exchange - DNA Typing

Cell 1668

DNA Typing - class I	<u>11 labs High; 14 labs low- A</u>	%(n)	<u>11 labs High; 14 labs low- B</u>	%(n)	<u>11 labs High; 13 labs low- C</u>	%(n)
	A*01:02:01	9 (1)	B*40:02:01	27(3)	C*03:05	100(11)
	A*01:02	91(10)	B*40:02	73(8)	C*03(Cw10)	15(2)
	A*01	100(14)	B*40(B61)	14(2)	C*03	85(11)
			B*40	86(12)		
<u>11 labs High; 14 labs low- A</u>	%(n)	<u>11 labs High; 14 labs low- B</u>	%(n)	<u>11 labs High; 13 labs low- C</u>	%(n)	
A*24:02:01:06	18(2)	B*49:01:01	27(3)	C*07:01:01:16	9 (1)	
A*24:02:01	9 (1)	B*49:01	73(8)	C*07:01:01	18(2)	
A*24:02	73(8)	B*49	93(13)	C*07:01	73(8)	
A*24	100(14)	B*50	7 (1)	C*07	100(13)	

DNA Typing - class II	<u>7 labs High; 7 labs low-DRB1</u>	%(n)	<u>4 labs High; 4 labs low-DRB3/4/5</u>	%(n)	<u>2 labs High; 6 labs Low-DQA1</u>	%(n)	<u>6 labs High; 6 labs Low-DQB1</u>	%(n)	<u>2 labs High; 4 labs Low-DPA1</u>	%(n)	<u>5 labs High; 3 labs Low-DPB1</u>	%(n)
	DRB1*04:07:01	29(2)	DRB4*01:03:01	25(1)	DQA1*01:05:01	50(1)	DQB1*03:02:01	17(1)	DPA1*01:03:01	50(1)	DPB1*04:02:01	40(2)
	DRB1*04:07	71(5)	DRB4*01:03	75(3)	DQA1*01:05	50(1)	DQB1*03:02P	17(1)	DPA1*01:03	50(1)	DPB1*04:02	60(3)
	DRB1*04	100(7)	DRB4*01	100(4)	DQA1*01	100(6)	DQB1*03:02	66(4)	DPA1*01	100(4)	DPB1*04(DP402)	100(3)
							DQB1*03	100(6)				
<u>7 labs High; 7 labs low-DRB1</u>	%(n)	<u>2 labs High; 6 labs Low-DQA1</u>	%(n)	<u>6 labs High; 6 labs Low-DQB1</u>	%(n)	<u>2 labs High; 4 labs Low-DPA1</u>	%(n)	<u>5 labs High; 3 labs Low-DPB1</u>	%(n)			
DRB1*10:01:01	29(2)	DQA1*03:01:01	50(1)	DQB1*05:01:01	33(2)	DPA1*02:01:01	50(1)	DPB1*13:01:01	20(1)			
DRB1*10:01	71(5)	DQA1*03:01	50(1)	DQB1*05:01	67(4)	DPA1*02:01	50(1)	DPB1*13:01P	40(2)			
DRB1*10	100(7)	DQA1*03	100(6)	DQB1*05	100(6)	DPA1*02	100(4)	DPB1*13:01	40(2)			
								DPB1*13	100(3)			

Table 11. Summary of the 417th Cell Exchange (Cell #1665- 1668)

Serological typing

(Filipino) Cell 1665 (6 Samples Typed)	
A11	83.3%
A11.1	16.7%
	[100.0%]
B13	100.0%
B56	100.0%
	[100.0%]
Cw1	16.7%
Bw4	100.0%
Bw6	100.0%
Others Found	

(Hispanic) Cell 1666 (7 Samples Typed)	
A29	100.0%
	[100.0%]
A68	100.0%
	[100.0%]
B35	100.0%
B51	100.0%
	[100.0%]
Cw4	14.3%
	[14.3%]
Bw4	100.0%
Bw6	100.0%
Others Found	

(Black) Cell 1667 (5 Samples Typed)	
A68	100.0%
	[100.0%]
B53	100.0%
B58	100.0%
	[100.0%]
Cw4	20.0%
	[20.0%]
Bw4	100.0%
Others Found	
Bw6	20.0%

(Hispanic) Cell 1668 (5 Samples Typed)	
A1	100.0%
A24	100.0%
	[100.0%]
B61	80.0%
	[80.0%]
B49	100.0%
	[100.0%]
Cw3	20.0%
	[20.0%]
Bw4	100.0%
Bw6	100.0%
Others Found	
B60	20.0%

Table 12. Individual laboratory results for Cell #1665 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*11	*13	*56	*01	*04	*11:01	*11:01	*13:01	*56:04	*01:02	*04:06	SSP SSO	
725	*11		*13	*56	*01	*04							SSO	
731	*11	*11	*13	*56	*01	*04	*11:01:01	*11:01:01	*13:01:01	*56:04:01	*01:02:01	*04:06:01	SSO SBT NGS	
745							*11:01:01:01		*13:01:01	*56:04:01	*01:02:01	*04:06:01	SSP SBT NGS	
747	*11	*11	*13	*56	*01	*04	*11:01:01:01	*11:01:01:01	*13:01:01:01	*56:04	*01:02:01:01	*04:06	SSP SSO NGS	
762							*11:01		*13:01	*56:04	*01:02	*04:06	NGS	
771	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO NGS	
774	*11		*13	*56	*01	*04								
3186	*11		*13	*56	*01	*04							SSO	
														C*01:185Q A*11:347N A*11:353 A*11:263 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 A*11:313Q A*11:316 A*11:320 A*11:324 A*11:328 C*04:03 C*04:286 C*01:22 C*01:85 C*01:127 C*01:142 C*01:150 C*01:151 C*01:164 C*01:172 C*01:173 C*01:174 C*01:182
3545	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO SBT	
3808	*11	*11	*13	*56	*01	*04							SSO	
4079							*11:01		*13:01	*56:04	*01:02	*04:06	SSP NGS	
4251							*11:01	*11:01	*13:01	*56:04	*01:02	*04:06	NGS	
5133							*11:01:01:01		*13:01:01	*56:04:01	*01:02:01	*04:06:01	NGS	
5214	*11	*11	*13	*56	*01	*04							RT-PCR	
5462	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSO NGS	
5642	*11		*13	*56	*01	*04							SSP	
6649	*11		*13	*56									SSO	
8001	*11		*13	*56	*01	*04							SSP SSO	
8043	*11		*13	*56	*01	*04	*11:01		*13:01	*56:04	*01:02	*04:06	SSP SSO	
8103	NT													
8119	*11		*13	*56	*01	*04							SSP NGS RT-PCR	

Table 13a: Individual laboratory results for Cell #1665 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*11	*12	3*PRESENT	3*PRESENT	*05	*06	*03	*03	*02	*02	*02	*05	SSP SSO NGS	
771	*11	*12			*05	*06	*03						SSO NGS	
3186	*11	*12	3*02	3*03	*05	*06	*03		*02		*02(DP202)	*05	SSO	
3545	*11	*12											SSP SSO SBT	
3808	*11	*12	NT	NT	*05	*06	*03	*03	*02	*02	*02(DP202)	*05	SSO	
5214	*11	*12	3*02	3*03	*05	*06	*03	*03	*02	*02	*02(DP202)	*05	RT-PCR	
5462	*11	*12	3*02	3*03	*05	*06	*03	*03	*02		NT	NT	SSO NGS	
8001	*11	*12	3*02	3*03	*05	*06	*03						SSP SSO	
8119	*11	*12	3*02	3*03			*03				*02	*05	SSP NGS RT-PCR	

Table 13b: Individual laboratory results for Cell #1665 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*11:01:01	*12:02:01					*03:01:01	*03:01			*02:02:01	*05:01:01	SSP SBT NGS	DQB1*03:297
747	*11:01:01	*12:02:01	3*02:02:01	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:02:02	*02:02:02	*02:02:01	*05:01:01	SSP SSO NGS	DQB1*03:297
771	*11:01	*12:02					*03:01						SSO NGS	
3545	*11:01	*12:02											SSP SSO SBT	
4079	*11:01	*12:02	3*02:02	3*03:01	*05:05	*06:01	*03:01		*02:02		*02:02	*05:01	SSP NGS	
5133	*11:01:01	*12:02:01	3*02:02:01	3*03:01:03	*05:05:01	*06:01:01	*03:01:01		*02:02:02		*02:02:01	*05:01:01	NGS	DPB1*547:01 DPB1*744:01
5462	*11:01	*12:02	3*02:02	3*03:01	*05:05	*06:01	*03:01		*02:02		*02:02P	*05:01P	SSO NGS	DPB1*547:01 DPB1*744:01
8001	*11:01	*12:02	3*02:02	3*03:01		*06:01	*03:01				*02:02	*05:01	SSP SSO	
8119							*03:01						SSP NGS RT-PCR	

Table 14. Individual laboratory results for Cell #1666 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSP SSO	
725	*29	*68	*35	*51	*04	*14							SSO	
731	*29	*68	*35	*51	*04	*14	*29:02:01	*68:01:02	*35:03:01	*51:01:01	*04:01:01	*14:02:01	SSO SBT NGS	
745							*29:02:01:01	*68:01:02:01	*35:03:01:03	*51:01:01	*04:01:01	*14:02:01	SSP SBT NGS	
747	*29	*68	*35	*51	*04	*14	*29:02:01:01	*68:01:02:01	*35:03:01	*51:01:01:01	*04:01:01	*14:02:01	SSP SSO NGS	
762							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	NGS	
771	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSO NGS	
774	*29	*68	*35	*51	*04	*14								
3186	*29	*68	*35	*51	*04	*14							SSO	
														A*29:134 A*29:135 B*35:344 B*35:399 B*35:434 B*35:442 B*35:457 B*51:269 B*51:270 B*51:271 B*51:285 B*51:286 B*51:289 B*51:296 B*51:297 B*51:308 B*51:309 A*29:95 A*29:100 A*29:119 A*29:120 A*29:121 A*68:152 B*51:193 B*51:224 B*51:230 B*51:232 B*51:248 B*51:249 B*51:250 B*51:260 B*51:262
3545	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01			SSP SSO SBT	
3808	*29	*68	*35	*51	*04	*14							SSO	
4079							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	SSP NGS	
4251							*29:02	*68:01	*35:03	*51:01	*04:01	*14:02	NGS	
5133							*29:02:01:01	*68:01:02:01	*35:03:01:03	*51:01:01:01	*04:01:01:14	*14:02:01:01	NGS	
5214	*29	*68	*35	*51	*04	*14							RT-PCR	
5462	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01P	*04:01	*14:02	SSO NGS	B*51:289
5642	*29	*68	*35	*51	*04	*14							SSP	
6649	*29	*68	*35	*51									SSO	
8001	*29	*68	*35	*51	*04	*14							SSP SSO	
8043	*29	*68	*35	*51	*04	*14	*29:02	*68:01	*35:03	*51:01	*04:01:01G	*14:02	SSP SSO	
8103	NT													
8119	*29	*68	*35	*51	*04	*14							SSP NGS RT-PCR	

Table 15a: Individual laboratory results for Cell #1666 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*01	*16	5*PRESENT		*01	*01	*05	*05	*01	*02	*04	*09	SSP SSO NGS	
771	*01	*16			*01		*05	*05					SSO NGS	
3186	*01	*16	5*02		*01	*01	*05	*05	*01	*02	*04(DP401)	*09	SSO	
3545	*01	*16											SSP SSO SBT	
3808	*01	*16	NT	NT	*01	*01	*05	*05	*01	*02	*04(DP401)	*09	SSO	
5214	*01	*16	5*02		*01	*01	*05	*05	*01	*02	*04(DP401)	*09	RT-PCR	
5462	*01	*16	5*02		*01	*01	*05	*05	*01	*02	NT	NT	SSO NGS	
8001	*01	*16	5*02		*01		*05	*05					SSP SSO	
													SSP NGS	
8119	*01	*16	5*02				*05	*05			*04	*09	RT-PCR	

Table 15b: Individual laboratory results for Cell #1666 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*01:01:01	*16:01:01					*05:01	*05:02:01			*04:01:01	*09:01:01	SSP SBT NGS	
747	*01:01:01	*16:01:01	5*02:02:01		*01:01:01	*01:02:02	*05:01:01	*05:02	*01:03:01:02	*02:01:01:02	*04:01:01	*09:01:01	SSP SSO NGS	DQB1*05:241 DPB1*350:01 DPB1*899:01
771	*01:01	*16:01					*05:01	*05:02					SSO NGS	
3545	*01:01	*16:01											SSP SSO SBT	DRB1*01:100
4079	*01:01	*16:01	5*02:02		*01:01	*01:02	*05:01	*05:02	*01:03	*02:01	*04:01	*09:01	SSP NGS	
5133	*01:01:01	*16:01:01	5*02:02:01		*01:01:01	*01:02:02	*05:01:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
5462	*01:01P	*16:01	5*02:02		*01:01	*01:02	*05:01	*05:02	*01:03	*02:01	*04:01P	*09:01P	SSO NGS	DPB1*350:01 DPB1*899:01 DRB1*01:100
8001	*01:01	*16:01	5*02:02				*05:01	*05:02			*04:01	*09:01	SSP SSO	
													SSP NGS	
8119							*05:01	*05:02					RT-PCR	

Table 16. Individual laboratory results for Cell #1667 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP SSO	
725	*68		*53	*58	*04	*06							SSO	
731	*68	*68	*53	*58	*04	*06	*68:01:01	*68:02:01	*53:01:01	*58:02:01	*04:01:01	*06:02:01	SSO SBT NGS	
745							*68:01:01:02	*68:02:01:01	*53:01:01:01	*58:02:01:01	*04:01:01	*06:02:01:01	SSP SBT NGS	
747	NT						NT						SSP SSO NGS	
762							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	NGS	A*68:27 A*68:39
771	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSO NGS	
774	*68	*68	*53	*58	*04	*06								
3186	*68	*68	*53	*58	*04	*06							SSO	
3545	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02			SSP SSO SBT	A*68:188 A*68:211 B*58:104 A*68:27 A*68:39 A*68:163 A*68:198 A*68:216N B*53:51 B*53:54
3808	*68	*68	*53	*58	*04	*06							SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	NGS	
5133							*68:01:01:02	*68:02:01:01	*53:01:01:01	*58:02:01:01	*04:01:01	*06:02:01	NGS	
5214	*68	*68	*53	*58	*04	*06							RT-PCR	
5462	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01P	*58:02	*04:01	*06:02	SSO NGS	B*53:54
5642	*68		*53	*58	*04	*06							SSP	
6649	*68		*53	*58									SSO	
8001	*68		*53	*58	*04	*06							SSP SSO	
8043	*68	*68	*53	*58	*04	*06	*68:01	*68:02	*53:01	*58:02	*04:01:01G	*06:02	SSP SSO	
8103	NT													
8119							*68:01	*68:02	*53:01	*58:02	*04:01	*06:02	SSP NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1667 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*12	*13			*01		*05	*06					SSO NGS	
774														
3186	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	SSO	
3545	*12	*13											SSP SSO SBT	
3808	*12	*13	NT	NT	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	SSO	
5214	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	*02(DP201)	*13	RT-PCR	
5462	*12	*13	3*02	3*03	*01	*01	*05	*06	*01	*02	NT	NT	SSO NGS	
8001	*12	*13	3*02	3*03	*01		*05	*06					SSP SSO	

Table 17b: Individual laboratory results for Cell #1667 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*12:01:01	*13:02:01					*05:01:01	*06:09:01			*02:01:02	*13:01	SSP SBT NGS	DPB1*107:01
747	NT												SSP SSO NGS	
771	*12:01	*13:02					*05:01	*06:09					SSO NGS	
3545	*12:01	*13:02											SSP SSO SBT	DRB1*12:10
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*12:01:01	*13:02:01	3*02:02:01	3*03:01:01	*01:02:01	*01:05:01	*05:01:01	*06:09:01	*01:03:01	*02:01:01	*02:01:02	*13:01:01	NGS	
5462	*12:01P	*13:02	3*02:02	3*03:01	*01:02	*01:05	*05:01	*06:09	*01:03	*02:01	*02:01P	*13:01P	SSO NGS	DPB1*352:01 DPB1*107:01 DPB1*133:01 DRB1*12:10
8001	*12:01	*13:02	3*02:02	3*03:01			*05:01	*06:09			*02:01	*13:01	SSP SSO	
8119	*12:01P	*13:02	3*02:02	3*03:01			*05:01	*06:09			*02:01	*13:01P	SSP NGS	
													RT-PCR	

Table 18. Individual laboratory results for Cell #1668 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO	
725	*01	*24	*40	*49	*03	*07							SSO	
731	*01	*24	*40	*49	*03	*07	*01:02	*24:02:01	*40:02:01	*49:01:01	*03:05	*07:01:01	SSO SBT NGS	
745							*01:02	*24:02:01:06	*40:02:01	*49:01:01	*03:05	*07:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	NGS	
771	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSO NGS	
774	*01	*24	*40	*49	*03	*07								
3186	*01	*24	*40	*50	*03	*07							SSO	
														A*24:473Q A*24:474 A*24:479Q B*40:444 B*49:62 B*49:65 C*03:335 C*03:407 C*03:482 C*07:823 C*07:843 A*24:352 A*24:353 A*24:402 A*24:418 A*24:419 A*24:422 A*24:436 A*24:437 A*24:443 A*24:448N A*24:451 A*24:454 A*24:460 A*24:463 A*24:464 A*24:465 A*24:466 A*24:469 A*24:470 B*40:303 B*40:356 B*40:384 B*40:405 B*40:442 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 C*07:591 C*07:610 C*07:615 C*07:618 C*07:617 C*07:619 C*07:657 C*07:682 C*07:687 C*07:696 C*07:721 C*07:732 C*07:735 C*07:739 C*07:762 C*07:777 C*07:781 C*07:782 C*07:805 C*07:808N C*07:813 C*07:814
3545	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO SBT	
3808	*01	*24	*40	*49	*03	*07							SSO	
4079							NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	NGS	
5133							*01:02:01	*24:02:01:06	*40:02:01	*49:01:01	*03:05	*07:01:01:16	NGS	
5462							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSO NGS	
5214	*01	*24	*40 (B61)	*49	*03 (Cw10)	*07							RT-PCR	
5462	*01	*24	*40	*49	*03	*07							SSO NGS	
5642	*01	*24	*40	*49	*03	*07							SSP	
6649	*01	*24	*40	*49									SSO	
8001	*01	*24	*40 (B61)	*49	*03 (Cw10)	*07							SSP SSO	
8043	*01	*24	*40	*49	*03	*07	*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP SSO	
8103	NT													
8119							*01:02	*24:02	*40:02	*49:01	*03:05	*07:01	SSP NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1668 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04	*10			*01	*03	*03	*05					SSO NGS	
3186	*04	*10	4*01		*01	*03	*03	*05	*01	*02	*04(DP402)	*13	SSO	
3545	*04	*10											SSP SSO SBT	
3808	*04	*10	NT	NT	*01	*03	*03	*05	*01	*02	*04(DP402)	*13	SSO	
5214	*04	*10	4*01		*01	*03	*03	*05	*01	*02	*04(DP402)	*13	RT-PCR	
5462	*04	*10	4*01	NP	*01	*03	*03	*05	*01	*02	NT	NT	SSO NGS	
8001	*04	*10	4*01		*01	*03	*03	*05					SSP SSO	

Table 19b: Individual laboratory results for Cell #1668 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*04:07:01	*10:01:01					*03:02	*05:01:01			*04:02:01	*13:01	SSP SBT NGS	DQB1*03:289
747	NT												SSP SSO NGS	DPB1*107:01
771	*04:07	*10:01					*03:02	*05:01					SSO NGS	
3545	*04:07	*10:01											SSP SSO SBT	DRB1*04:92
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*04:07:01	*10:01:01	4*01:03:01		*01:05:01	*03:01:01	*03:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*13:01:01	NGS	
5462	*04:07	*10:01	4*01:03	NP	*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*04:02	*13:01P	SSO NGS	DPB1*107:01
8001	*04:07	*10:01	4*01:03				*03:02	*05:01:01			*04:02	*13:01	SSP SSO	
8119	*04:07	*10:01	4*01:03				*03:02P	*05:01			*04:02	*13:01P	SSP NGS RT-PCR	

Table 20. Individual laboratory results for Cell #1665-1668 by serology

Investigator	Days Old	Viab %	Cell No 1665 (Filipino)							Cell No 1666 (Hispanic)							Cell No 1667 (Black)						Cell No 1668 (Hispanic)											
			A11	B13	B56	Cw1	Bw4	Bw6	OTHERS	Viab %	A29	A68	B35	B51	Cw4	Bw4	Bw6	OTHERS	Viab %	A68	B53	B58	Cw4	Bw4	OTHERS	Viab %	A1	A24	B61	B49	Cw3	Bw4	Bw6	OTHERS
Cecka, J. Mic	3	>95	+	+	+		+	+		>95	+	+	+	+		+	+		>95	+	+	+		+		>95	+	+	+	+		+	+	
Fort, Marylis		95	+	+	+		+	+		97	+	+	+	+		+	+		NT						NT									
Gillis, David	7	LC	+	+	+	+	+	+		LC	+	+	+	+	+	+	+		90	+	+	+	+	+		90	+	+	+	+	+	+		
Loewenthal ,	6	NT								NT									NT							NT								
Permpikul, Ve	6	90	A11.1	+	+		+	+		90	+	+	+	+		+	+		90	+	+	+		+		90	+	+	+	+		+	+	
Shai, Isaac		NT								NT									NT							NT								
Stylianou, Ca	8	>95								85	+	+	+	+		+	+		95	+	+	+		+	Bw6	95	+	+	B60	+		+	+	
Villard, Jean	6	80	+	+	+		+	+		80	+	+	+	+		+	+		NT							NT								
walsh, Lisa	3	99	+	+	+		+	+		99	+	+	+	+		+	+		99	+	+	+		+		95	+	+	+	+		+	+	