

CELL EXCHANGE #419 DECEMBER 1, 2020

Cells 1673-1676

The results for Cell Exchange #419 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. Thirteen 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 the class II assignment can be graded. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1673. A*24:02-A*33:05-B*14:02-B*45:01-C*08:02-C*16:01/DRB1*04:03-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*02:01-DPB1*03:01 is the reported HLA type for this cell from a Hispanic donor. One possible association present in the cell is A*24:02-B*45:01-C*16:01, observed in Hispanics, with HF = 0.00139. The other likely association present is A*33:05-B*14:02-C*08:02, observed exclusively in Caucasians, with HF = 0.00025.

This cell was examined numerous times in the Exchange as cells 1565 (2016), 1504 (2013), and 1357 (2009). It was also studied in the class I Extract Exchange as extracts 508 (2011) and 436 (2008). In this present retyping, the assignment of A*33:05 improved from 88% in 2016 to 100%. Unfortunately, only B*14:02 could be graded for this sample. At the time of the submission deadline, there were <10 labs reporting high resolution results for all other alleles.

Cell 1674. A*02:01-A*68:01-B*40:20-B*51:02-C*03:04-C*08:01/DRB1*08:02-DRB1*14:06-DRB3*01:01-DQA1*04:01-DQA1*05:03-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:02 is the reported HLA type for this sample from a Hispanic donor. Likely associations present in this cell are A*68:01-B*40:20-C*03:04 and A*02:01-B*51:02-C*08:01, observed in Hispanics, with respective HF = 0.00051 and 0.00157.

This cell was examined previously in the Exchange as cells 1547 (2015), 1473 (2012), 1415 (2010), and 1386 (2010). In this present retyping good agreement (100%) was achieved for B*40:20 and C*03:04 by labs reporting at high resolution. All other alleles could not be graded, as < 10 labs reported high resolution results by the submission deadline.

Cell 1675. A*29:02-A*30:02-B*15:10-B*49:01-C*03:04-C*07:01/DRB1*03:01-DRB1*15:03-DRB3*02:02-DRB5*01:01-DQA1*01:02-DQA1*05:01-DQB1*02:01-DQB1*06:02-DPA1*01:03-DPA1*02:02-DPB1*01:01-DPB1*02:01 is the reported HLA type for this sample from a Black donor. Likely associations present in this cell are A*29:02-B*49:01-DRB1*15:03 and A*30:02-B*15:10-DRB1*03:01, with respective HF = 0.00351 and 0.00103, in African American populations.

This B*15:10 cell was first examined in the Exchange back in 2002 (Cell 1330). It was subsequently examined 2 more times as cells 1466 (2012) and 1358 (2009). In this present retyping, B*15:10 was reported by 100%, with 2 labs assigning B*15:10:01. Once again, only this single allele could be graded due to <10 labs reporting high resolution typing results by the submission deadline.

Cell 1676. A*11:01-A*34:05-B*15:35-B*35:01-C*07:02-C*08:01-DRB1*08:03-DRB1*15:02-DRB5*01:01-DQA1*01:02-DQA1*01:03-DQB1*05:02-DQB1*06:01-DPA1*02:02-DPB1*01:01-DPB1*05:01 is the reported consensus type for this cell from a Filipino donor. Likely associations present in this cell are B*15:35-C*07:02 and B*35:01-C*08:01, observed commonly in Asians, with respective HF = 0.00545 and 0.00350.

This cell was studied numerous times in the Exchange as cells 1544 (2015), 1432 (2011), 1372 (2009), 1347 (2008), and as extracts 416 (2008) and 413 (2008). In this present retyping B*15:35 was assigned by 100% of labs. B*15:35 was the only allele graded in this sample, as the grading criteria for high resolution typing was not met (< 10 labs) for the other alleles by the results submission deadline.



NEXT MAILING DATE: February 3, 2021

Happy Holidays!

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Table 7: Summary of the 419th Cell Exchange - DNA Typing

Cell 1673

DNA Typing - class I		10 labs High; 15 labs low- A		12 labs High; 15 labs low- B		10 labs High; 14 labs low- C							
	%(n)		%(n)		%(n)		%(n)						
A*24:02:01:01	20(2)	B*14:02:01:01	17(2)	C*08:02:01:01	10(1)								
A*24:02:01	10(1)	B*14:02:01	8 (1)	C*08:02:01	20(2)								
A*24:02	70(7)	B*14:02	75(9)	C*08:02	70(7)								
A*24	100(15)	B*14(B65)	7 (1)	C*08	100(14)								
		B*14	93(14)										
DNA Typing - class I		10 labs High; 15 labs low- A		10 labs High; 15 labs low- B		10 labs High; 14 labs low- C							
	%(n)		%(n)		%(n)		%(n)						
A*33:05	100(10)	B*45:01:01:03	10(1)	C*16:01:01:01	20(2)								
A*33	100(15)	B*45:01:01	20(2)	C*16:01:01	10(1)								
		B*45:01P	10(1)	C*16:01	70(7)								
		B*45:01	60(6)	C*16	100(14)								
		B*45	100(15)										
DNA Typing - class II		8 labs High; 11 labs low-DRB1		5 labs High; 8 labs low-DRB3/4/5		4 labs High; 10 labs Low-DQA1		7 labs High; 10 labs Low-DQB1		4 labs High; 7 labs Low-DPA1		8 labs High; 8 labs Low-DPB1	
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
DRB1*04:03:01:01	13(1)	DRB4*01:03:01	20(1)	DQA1*01:05:01	50(2)	DQB1*03:02:01:01	14(1)	DPA1*01:03:01:03	25(1)	DPB1*02:01:02	38(3)		
DRB1*04:03:01	25(2)	DRB4*01:03	60(3)	DQA1*01:05	50(2)	DQB1*03:02:01	14(1)	DPA1*01:03:01	25(1)	DPB1*02:01:02G	12(1)		
DRB1*04:03	62(5)	DRB3*01:03	20(1)	DQA1*01	100(10)	DQB1*03:02	71(5)	DPA1*01:03	50(2)	DPB1*02:01P	12(1)		
DRB1*04	100(11)	DRB4*01	75(6)			DQB1*03(DQ8)	10(1)	DPA1*01	100(7)	DPB1*02:01	38(3)		
		DRB4*PRESENT	12(1)			DQB1*03	90(9)			DPB1*02(DP201)	62(5)		
		DRB3*01	12(1)							DPB1*02	38(3)		
DNA Typing - class II		8 labs High; 10 labs low-DRB1		4 labs High; 10 labs Low-DQA1		7 labs High; 10 labs Low-DQB1		4 labs High; 7 labs Low-DPA1		8 labs High; 8 labs Low-DPB1			
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		
DRB1*10:01:01	38(3)	DQA1*03:01:01	50(2)	DQB1*05:01:01:02	14(1)	DPA1*02:01:01:02	25(1)	DPB1*03:01:01	38(3)				
DRB1*10:01	62(5)	DQA1*03:01	50(2)	DQB1*05:01:01	29(2)	DPA1*02:01:02	25(1)	DPB1*03:01:01G	12(1)				
DRB1*10	100(11)	DQA1*03	100(10)	DQB1*05:01	57(4)	DPA1*02:01	50(2)	DPB1*03:01P	12(1)				
				DQB1*05	100(10)	DPA1*02	100(7)	DPB1*03:01	38(3)				
								DPB1*03	100(8)				

Table 8: Summary of the 419th Cell Exchange - DNA Typing

Cell 1674

DNA Typing - class I		10 labs High; 15 labs low- A		13 labs High; 15 labs low- B		11 labs High; 14 labs low- C							
			%(n)		%(n)		%(n)						
		A*02:01:01:01	10(1)	B*40:20:01:01	8 (1)	C*03:04:01:02	9 (1)						
		A*02:01:01	20(2)	B*40:20	92(12)	C*03:04:01	18(2)						
		A*02:01	70(7)	B*40	100(15)	C*03:04	73(8)						
		A*02	100(15)			C*03	100(14)						
DNA Typing - class I		10 labs High; 15 labs low- A		10 labs High; 15 labs low- B		10 labs High; 14 labs low- C							
			%(n)		%(n)		%(n)						
		A*68:01:02:01	20(2)	B*51:02:01:01	10(1)	C*08:01:01:01	20(2)						
		A*68:01:02	10(1)	B*51:02:01	20(2)	C*08:01:01	10(1)						
		A*68:01	70(7)	B*51:02	70(7)	C*08:01	70(7)						
		A*68	100(15)	B*51	100(15)	C*08	100(14)						
DNA Typing - class II		9 labs High; 11 labs low-DRB1		5 labs High; 8 labs low-DRB3/4/5		4 labs High; 10 labs Low-DQA1		7 labs High; 10 labs Low-DQB1		4 labs High; 7 labs Low-DPA1		7 labs High; 8 labs Low-DPB1	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
		DRB1*08:02:01	33(3)	DRB3*01:01:02	40(2)	DQA1*04:01:01:07	25(1)	DQB1*03:01:01	29(2)	DPA1*01:03:01	50(2)	DPB1*04:02:01:02	14(1)
		DRB1*08:02	67(6)	DRB3*01:01P	20(1)	DQA1*04:01:01	25(1)	DQB1*03:01	71(5)	DPA1*01:03	50(2)	DPB1*04:02:01	14(1)
		DRB1*08	100(11)	DRB3*01:01	40(2)	DQA1*04:01	50(2)	DQB1*03	100(10)	DPA1*01	100(7)	DPB1*04:02	71(5)
				DRB3*01	87(7)	DQA1*04	100(10)					DPB1*04(DP402)	62(5)
				DRB3*PRESENT	13(1)							DPB1*04	38(3)
DNA Typing - class II		9 labs High; 11 labs low-DRB1				4 labs High; 10 labs Low-DQA1		7 labs High; 10 labs Low-DQB1					
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
		DRB1*14:06:01	33(3)			DQA1*05:03:01:01	25(1)	DQB1*04:02:01:04	14(1)				
		DRB1*14:06	67(6)			DQA1*05:03:01	25(1)	DQB1*04:02:01	29(2)				
		DRB1*14	100(11)			DQA1*05:03	50(2)	DQB1*04:02	57(4)				
						DQA1*05	100(10)	DQB1*04	100(10)				

Table 9: Summary of the 419th Cell Exchange - DNA Typing

Cell 1675

DNA Typing - class I		<u>9 labs High; 12 labs low- A</u>	%(n)	<u>12 labs High; 12 labs low- B</u>	%(n)	<u>10 labs High; 11 labs low- C</u>	%(n)						
		A*29:02:01:01	22(2)	B*15:10:01:01	8 (1)	C*03:04:02	20(2)						
A*29:02	78(7)	B*15:10:01	8 (1)	C*03:04	80(8)								
A*29	100(12)	B*15:10	83(10)	C*03	100(11)								
		B*15	100(12)										
DNA Typing - class I		<u>9 labs High; 12 labs low- A</u>	%(n)	<u>9 labs High; 12 labs low- B</u>	%(n)	<u>9 labs High; 11 labs low- C</u>	%(n)						
		A*30:02:01:02	22(2)	B*49:01:01:01	11(1)	C*07:01:01:16	11(1)						
A*30:02	78(7)	B*49:01:01	11(1)	C*07:01:01	11(1)								
A*30	100(12)	B*49:01	78(7)	C*07:01	78(7)								
		B*49	100(12)	C*07	100(11)								
DNA Typing - class II		<u>7 labs High; 8 labs low-DRB1</u>	%(n)	<u>4 labs High; 5 labs low-DRB3/4/5</u>	%(n)	<u>3 labs High; 7 labs Low-DQA1</u>	%(n)	<u>6 labs High; 7 labs Low-DQB1</u>	%(n)	<u>2 labs High; 6 labs Low-DPA1</u>	%(n)	<u>6 labs High; 4 labs Low-DPB1</u>	%(n)
		DRB1*03:01:01	28(2)	DRB3*02:02:01:01	25(1)	DQA1*01:02:01	33(1)	DQB1*02:01:01	17(1)	DPA1*01:03:03	50(1)	DPB1*01:01:01	33(2)
DRB1*03:01P	28(2)	DRB3*02:02	75(3)	DQA1*01:02	67(2)	DQB1*02:01	83(5)	DPA1*01:03	50(1)	DPB1*01:01	67(4)		
DRB1*03:01	43(3)	DRB3*02	100(5)	DQA1*01	100(7)	DQB1*02	100(7)	DPA1*01	100(6)	DPB1*01	100(4)		
DRB1*03	100(8)												
DNA Typing - class II		<u>8 labs High; 8 labs low-DRB1</u>	%(n)	<u>4 labs High; 5 labs low-DRB3/4/5</u>	%(n)	<u>3 labs High; 7 labs Low-DQA1</u>	%(n)	<u>6 labs High; 7 labs Low-DQB1</u>	%(n)	<u>2 labs High; 6 labs Low-DPA1</u>	%(n)	<u>6 labs High; 4 labs Low-DPB1</u>	%(n)
		DRB1*15:03:01	25(2)	DRB5*01:01:01:01	25(1)	DQA1*05:01:01:01	33(1)	DQB1*06:02:01:01	17(1)	DPA1*02:02:02:04	50(1)	DPB1*02:01:19	17(1)
DRB1*15:03	75(6)	DRB5*01:01	75(3)	DQA1*05:01	67(2)	DQB1*06:02:01	17(1)	DPA1*02:02	50(1)	DPB1*02:01:02	17(1)		
DRB1*15	100(8)	DRB5*01	100(5)	DQA1*05	100(7)	DQB1*06:02	66(4)	DPA1*02	100(6)	DPB1*02:01	66(4)		
						DQB1*06	100(7)			DPB1*02(DP201)	75(3)		
										DPB1*02	25(1)		

Table 11. Summary of the 419th Cell Exchange (Cell #1673- 1676)

Serological typing							
(Hispanic) Cell 1673		(Hispanic) Cell 1674		(Black) Cell 1675		(Filipino) Cell 1676	
(7 Samples Typed)		(7 Samples Typed)		(3 Samples Typed)		(4 Samples Typed)	
A24	100.0%	A2	100.0%	A29	100.0%	A11	100.0%
	[100.0%]		[100.0%]		[100.0%]		[100.0%]
A33	100.0%	A68	57.1%	A30	100.0%	A34	75.0%
	[100.0%]	A28	42.9%		[100.0%]	A10	25.0%
			[100.0%]				[100.0%]
B14	57.1%	B61	42.9%	B71	33.3%	B62	100.0%
B65	42.9%	B40	28.6%	B70	66.7%		[100.0%]
	[100.0%]		[71.4%]		[100.0%]		
B45	71.4%	B51	71.4%	B49	100.0%	B35	100.0%
B12	28.6%	B5	14.3%		[100.0%]		
	[100.0%]		[85.7%]		[0.0%]		
Cw8	28.6%	Cw3	28.6%			Bw6	75.0%
			[28.6%]				
Bw6	85.7%	Cw8	28.6%	Bw4	100.0%		
				Bw6	100.0%		
		Bw4	71.4%				
		Bw6	71.4%				
Others Found		Others Found		Others Found		Others Found	
Cw5	14.3%	B53	28.6%				
		B46	14.3%				
		B35	14.3%				

Table 12. Individual laboratory results for Cell #1673 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSP SSO	
725	*24	*33	*14	*45	*08	*16							SSO	
745							*24:02:01:01	*33:05	*14:02:01:01	*45:01:01	*08:02:01	*16:01:01:01	SSP SBT NGS	
747	*24	*33	*14	*45	*08	*16	*24:02:01	*33:05	*14:02:01	*45:01:01	*08:02:01	*16:01:01	SSP SSO NGS	
762							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	NGS	
771	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSO NGS	
774	*24	*33	*14	*45	*08	*16							SSP SSO	
3186	*24	*33	*14	*45	*08	*16								DPB1*104
3545	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSO SBT	
3808	*24	*33	*14	*45	*08	*16			*14:02				SSO	
4079	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	SSP NGS	
4251							*24:02	*33:05	*14:02	*45:01	*08:02	*16:01	NGS	
5133							*24:02:01:01	*33:05	*14:02:01:01	*45:01:01:03	*08:02:01:01	*16:01:01:01	NGS	
5214	*24	*33	*14(B65)	*45	*08	*16								
5462	*24	*33	*14	*45	*08	*16	*24:02	*33:05	*14:02	*45:01P	*08:02	*16:01	SSO NGS	B*45:25
6649	*24	*33	*14	*45									SSO	
8001	*24	*33	*14	*45	*08	*16			*14:02				SSP SSO	
8103	*24	*33	*14	*45	*08	*16							SSO	
8119	*24	*33	*14	*45	*08	*16							SSP SBT NGS RT-PCR	B*14:02

Table 13a: Individual laboratory results for Cell #1673 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*10	4*PRESENT		*01	*03	*03	*05	*01	*02	*02	*03	SSP SSO NGS	
771	*04	*10			*01	*03	*03	*05			*02	*03	SSO NGS	
3186	*04	*10	4*01		*01	*03	*03	*05	*01	*02	*02(DP201) *03			DPB1*104
3545	*04	*10											SSO SBT	
3808	*04	*10	NT	NT	*01	*03	*03	*05	*01	*02	*02(DP201)	*03	SSO	
4079	*04	*10	3*01		*01	*03	*03	*05	*01	*02	*02(DP201)	*03	SSP NGS	
5214	*04	*10	4*01		*01	*03	*03(DQ8)	*05	*01	*02	*02(DP201)	*03		
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	
8103	*04	*10	4*01 4*01		*01	*03	*03	*05	*01	*02	*02	*03	SSO	
													SSP SBT NGS	
8119	*04	*10	4*01		*01	*03	*03	*05			*02(DP201)	*03	RT-PCR	

Table 13b: Individual laboratory results for Cell #1673 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*04:03:01	*10:01:01					*03:02	*05:01:01			*02:01:02	*03:01:01	SSP SBT NGS	DQB1*03:289
747	*04:03:01	*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	*02:01:02	*03:01:01	SSP SSO NGS	DQB1*03:289 DQB1*05:01:33
771	*04:03	*10:01					*03:02	*05:01			*02:01	*03:01	SSO NGS	
3545	*04:03	*10:01											SSO SBT	
3808											*02:01:02G	*03:01:01G	SSO	
4079	*04:03	*10:01	3*01:03		*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*02:01	*03:01	SSP NGS	
5133	*04:03:01:01	*10:01:01	4*01:03:01		*01:05:01	*03:01:01	*03:02:01:01	*05:01:01:02	*01:03:01:03	*02:01:01:02	*02:01:02	*03:01:01	NGS	
5462	*04:03	*10:01	4*01:03 NP		*01:05	*03:01	*03:02	*05:01	*01:03	*02:01	*02:01P	*03:01P	SSO NGS	DPB1*124:01 DPB1*352:01
8001	*04:03	*10:01	4*01:03				*03:02	*05:01			*02:01	*03:01	SSP SSO	
													SSP SBT NGS	
8119	NT												RT-PCR	

Table 14. Individual laboratory results for Cell #1674 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*68	*40	*51	*03	*08	*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	SSP SSO	
725	*02	*68	*40	*51	*03	*08							SSO	
745							*02:01:01:01	*68:01:02:01	*40:20	*51:02:01	*03:04:01	*08:01:01:01	SSP SBT NGS	
747	*02	*68	*40	*51	*03	*08	*02:01:01	*68:01:02	*40:20	*51:02:01	*03:04:01	*08:01:01	SSP SSO NGS	A*02:614 A*68:164
762							*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	NGS	A*02:614 A*68:164
771	*02	*68	*40	*51	*03	*08	*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	SSO NGS	
774	*02	*68	*40	*51	*03	*08			*40:20				SSP SSO	B*40:159
3186	*02	*68	*40	*51	*03	*08								
3545	*02	*68	*40	*51	*03	*08	*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	SSO SBT	
3808	*02	*68	*40	*51	*03	*08			*40:20				SSO	
4079	*02	*68	*40	*51	*03	*08	*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	SSP NGS	
4251							*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	NGS	
5133							*02:01:01	*68:01:02:01	*40:20:01:01	*51:02:01:01	*03:04:01:02	*08:01:01:01	NGS	
5214	*02	*68	*40	*51	*03	*08								
5462	*02	*68	*40	*51	*03	*08	*02:01	*68:01	*40:20	*51:02	*03:04	*08:01	SSO NGS	
6649	*02	*68	*40	*51									SSO	
8001	*02	*68	*40	*51	*03	*08			*40:20		*03:04		SSP SSO	
8103	*02	*68	*40	*51	*03	*08							SSO	
8119	*02	*68	*40	*51	*03	*08							SSP SBT NGS RT-PCR	B*40:20

Table 15a: Individual laboratory results for Cell #1674 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*08	*14	3*PRESENT		*04	*05	*03	*04	*01	*01	*04	*04	SSP SSO NGS	
771	*08	*14			*04	*05	*03	*04			*04		SSO NGS	
3186	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04(DP402)	04(DP402)		
3545	*08	*14											SSO SBT	
3808	*08	*14	NT	NT	*04	*05	*03	*04	*01	*01	*04(DP402)	04(DP402)	SSO	
4079	*08	*14	3*01		*04	*05	*03	*04	*01		*04(DP402)		SSP NGS	
5214	*08	*14	3*01		*04	*05	*03	*04	*01		*04(DP402)			
5462	*08	*14	3*01		*04	*05	*03	*04	*01		NT		SSO NGS	
8001	*08	*14	3*01		*04	*05	*03	*04					SSP SSO	
8103	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04	*04	SSO	
8119	*08	*14	3*01		*04	*05	*03	*04			*04(DP402)		SSP SBT NGS F	

Table 15b: Individual laboratory results for Cell #1674 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*08:02:01	*14:06:01					*03:01	*04:02:01			*04:02:01:02		SSP SBT NGS	DQB1*03:276N
747	*08:02:01	*14:06:01	3*01:01:02		*04:01:01	*05:03:01	*03:01:01	*04:02:01	*01:03:01	*01:03:01	*04:02	*04:02:01	SSP SSO NGS	DQB1*03:276N
771	*08:02	*14:06					*03:01	*04:02			*04:02		SSO NGS	
3545	*08:02	*14:06											SSO SBT	
3808	*08:02	*14:06											SSO	
4079	*08:02	*14:06	3*01:01		*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSP NGS	
5133	*08:02:01	*14:06:01	3*01:01:02		*04:01:01:07	*05:03:01:01	*03:01:01	*04:02:01:04	*01:03:01		*04:02:01		NGS	
5462	*08:02	*14:06	3*01:01P		*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSO NGS	DRB3*01:62
8001	*08:02	*14:06	3*01:01				*03:01	*04:02			*04:02		SSP SSO	
8119	NT												SSP SBT NGS RT-PCR	

Table 16. Individual laboratory results for Cell #1675 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*29	*30	*15	*49	*03	*07	*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	SSP SSO	
725	*29	*30	*15	*49	*03	*07							SSO	
745							*29:02:01:01	*30:02:01:02	*15:10:01	*49:01:01	*03:04:02	*07:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	NGS	
771	*29	*30	*15	*49	*03	*07	*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	SSO NGS	
774	*29	*30	*15	*49	*03	*07			*15:10				SSP SSO	B*15:312 B*15:313
3186	*29	*30	*15	*49	*03	*07								
3545	*29	*30	*15	*49	*03	*07	*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	SSO SBT	
3808	*29	*30	*15	*49	*03	*07			*15:10				SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	NGS	
5133							*29:02:01:01	*30:02:01:02	*15:10:01:01	*49:01:01:01	*03:04:02	*07:01:01:16	NGS	
5214	*29	*30	*15	*49	*03	*07								
5462	*29	*30	*15	*49	*03	*07	*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	SSO NGS	
6649	*29	*30	*15	*49									SSO	
8001	*29	*30	*15	*49	*03	*07			*15:10		*03:04		SSP SSO	
8103	*29	*30	*15	*49	*03	*07							SSO	
8119							*29:02	*30:02	*15:10	*49:01	*03:04	*07:01	SSP SBT NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1675 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*03	*15			*01	*05	*02	*06	*01	*02			SSO NGS	
3186	*03	*15	3*02	5*01	*01	*05	*02	*06	*01	*02	*01	*02(DP201)		
3545	*03	*15											SSO SBT	
3808	*03	*15	NT	NT	*01	*05	*02	*06	*01	*02	*01	*02(DP201)	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5214	*03	*15	3*02	5*01	*01	*05	*02	*06	*01	*02	*01	*02(DP201)		
5462	*03	*15	3*02	5*01	*01	*05	*02	*06	*01	*02	NT	NT	SSO NGS	
6649													SSO	
8001	*03	*15	3*02	5*01	*01	*05	*02	*06					SSP SSO	
8103	*03	*15	3*02	5*01	*01	*05	*02	*06	*01	*02	*01	*02	SSO	
8119	NT												SSP SBT NGS RT-PCR	

Table 17b: Individual laboratory results for Cell #1675 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*03:01:01	*15:03:01					*02:01	*06:02:01			*01:01:01	*02:01:19	SSP SBT NGS	DQB1*02:163N
747	NT												SSP SSO NGS	
771	*03:01	*15:03					*02:01	*06:02			*01:01	*02:01	SSO NGS	
3545	*03:01	*15:03											SSO SBT	
3808		*15:03											SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*03:01:01	*15:03:01	3*02:02:01:01	5*01:01:01:01	*01:02:01	*05:01:01:01	*02:01:01	*06:02:01:01	*01:03:03	*02:02:02:04	*01:01:01	*02:01:02	NGS	DPB1*162:01 DPB1*461:01
5462	*03:01P	*15:03	3*02:02	5*01:01	*01:02	*05:01	*02:01	*06:02	*01:03	*02:02	*01:01	*02:01	SSO NGS	DRB1*03:147
8001	*03:01	*15:03	3*02:02	5*01:01			*02:01	*06:02			*01:01	*02:01	SSP SSO	
8119	*03:01P	*15:03	3*02:02	5*01:01	*01:02	*05:01	*02:01	*06:02			*01:01	*02:01	SSP SBT NGS RT-PCR	DRB1*03:147

Table 18. Individual laboratory results for Cell #1676 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*34	*15	*35	*07	*08	*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	SSP SSO	
725	*11	*34	*15	*35	*07	*08							SSO	
745							*11:01:01:01	*34:05	*15:35	*35:01:01	*07:02:01	*08:01:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	NGS	
771	*11	*34	*15	*35	*07	*08	*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	SSO NGS	
774	*11	*34	*15	*35	*07	*08			*15:35				SSP SSO	
3186	*11	*34	*15	*35	*07	*08								
3545	*11	*34	*15	*35	*07	*08	*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	SSO SBT	
3808	*11	*34	*15	*35	*07	*08			*15:35				SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	NGS	
5133							*11:01:01:01	*34:05	*15:35	*35:01:01:02	*07:02:01:01	*08:01:01:01	NGS	
5214	*11	*34	*15	*35	*07	*08								
5462	*11	*34	*15	*35	*07	*08	*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	SSO NGS	
6649	*11	*34	*15	*35									SSO	
8001	*11	*34	*15	*35	*07	*08			*15:35				SSP SSO	
8103	*11	*34	*15	*35	*07	*08							SSO	
8119							*11:01	*34:05	*15:35	*35:01	*07:02	*08:01	SSP SBT NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1676 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*08	*15			*01		*05	*06			*01	*05	SSO NGS	
3186	*08	*15	5*01		*01	*01	*05	*06	*02	*02	*01	*05		
3545	*08	*15											SSO SBT	
3808	*08	*15	NT	NT	*01	*01	*05	*06	*02	*02	*01	*05	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5214	*08	*15	5*01		*01	*01	*05	*06	*02		*01	*05		
5462	*08	*15	5*01	NP	*01	*01	*05	*06	*02		NT	NT	SSO NGS	
8001	*08	*15	5*01		*01	*01	*05	*06					SSP SSO	
8103	*08	*15	5*01	5*01	*01	*01	*05	*06	*02	*02	*01	*05	SSO	
8119	NT												SSP SBT NGS RT-PCR	

Table 19b: Individual laboratory results for Cell #1676 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*08:03:02	*15:02:01					*05:02:01	*06:01			*01:01:01	*05:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
771	*08:03	*15:02					*05:02	*06:01			*01:01	*05:01	SSO NGS	
3545	*08:03	*15:02											SSO SBT	
3808	*08:03	*15:02:01G											SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5133	*08:03:02	*15:02:01	5*01:01:01:01		*01:02:01	*01:03:01	*05:02:01	*06:01:01:01	*02:02:02		*01:01:01	*05:01:01	NGS	
5462	*08:03	*15:02P	5*01:01	NP	*01:02	*01:03	*05:02	*06:01	*02:02		*01:01	*05:01	SSO NGS	DRB1*15:140 DRB1*15:149
8001	*08:03	*15:02	5*01:01				*05:02	*06:01			*01:01	*05:01	SSP SSO	
8119	*08:03	*15:02P	5*01:01		*01:02	*01:03	*05:02	*06:01			*01:01	*05:01	SSP SBT NGS RT-PCR	DRB1*15:140 DRB1*15:149

Table 20. Individual laboratory results for Cell #1673-1676 by serology

Investigator	Cell No 1673 (Hispanic)										Cell No 1674 (Hispanic)						Cell No 1675 (Black)						Cell No 1676 (Filipino)															
	Days Old	Viab %	A24	A33	B14	B45	Cw8	Bw6	OTHERS	Viab %	A2	A68	B61	B51	Cw3	Cw8	Bw4	Bw6	OTHERS	Viab %	A29	A30	B71	B49	Cw3	Cw7	Bw4	Bw6	OTHERS	Viab %	A11	A34	B62	B35	Cw7	Cw8	Bw6	OTHERS
Cecka, J. Mic	2	>95	+	+	B65	+		+		>95	+	+	+	+			+	+		>95	+	+	+	+			+	+		>95	+	+	+	+			+	
Fort, Marylis	3	95	+	+	+	+		+		95	+	+	+	+						NT									NT									
Gillis, David		60	+	+	B65	+		+		60	+	+	+	+			+	+		60	+	+	B70	+			+	+	60	+	+	+	+				+	
Meyer, Pieter		70	+	+	+	B12	+			70	+	A28	B53	B35	+	+				0								70	+	A10	+	+						
Permpikul, Ve	6																																					
Shai, Isaac	15	55	+	+	+	+	+	+	Cw5	52	+	A28	B53	B5	+	+	+	+	B46	30								30										
Villard, Jean	6	70	+	+	+	B12		+		70	+	A28	B40	+			+	+																				
Walsh, Lisa	3	90	+	+	B65	+		+		99	+	+	B40	+			+	+		95	+	+	B70	+			+	+	99	+	+	+	+				+	