

CELL EXCHANGE #424

OCTOBER 6, 2021

Cells	1693 - 1696
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The results for Cell Exchange #424 are summarized in Table 7 - 10. Molecular typing results for individual laboratories are listed in Tables 11 – 18 for each sample.

Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1693. The reported HLA type for this cell from a donor of Asian Indian descent is A*02:06-A*24:02-B*08:01-B*52:01-C*07:02-C*12:02-DRB1*04:18-DRB1*15:02-DRB4*01-DRB5*01:02-DQA1*01:03-DQA1*03:01-DQB1*03:02-DQB1*06:01-DPA1*01:03-DPB1*02:01-DPB1*04:01. Likely associations present in this cell are A*02:06-B*08:01-C*07:02 and A*24:02-B*52:01-C*12:02, with respective HF = 0.00024 and 0.01150, in Asian populations

The rare DRB1*04:18 allele was identified in this cell. Typed for the first time in the Exchange, it was assigned by 100% of labs reporting at high resolution. Good agreement (> 90%) was also achieved for all other allele assignments, except DRB4*01. Two labs assigned DRB4*01:03:01, 2 labs assigned DRB4*01:01:01G, and 3 labs assigned DRB4*01:03.

Cell 1694. The reported HLA type for this cell from a Caucasian donor is A*02:02-A*33:01-B*14:02-B*41:01-C*08:02-C*17:01-DRB1*01:02-DRB1*04:05-DRB4*01-DQA1*01:01-DQA1*03:03-DQB1*02:02-DQB1*05:01-DPA1*01:03-DPB1*04:01-DPB1*03:01/*104:01. Likely associations present in this cell are A*02:02-B*41:01-DRB1*04:05 and A*33:01-B*14:02-DRB1*01:02, observed in Caucasians, with respective HF = 0.00032 and 0.00730.

Greater than 80% agreement was achieved for all allele assignments, except DRB4*01 and DPB1*03/*104. For DRB4*01, 3 labs reported DRB4*01:03, 2 labs reported DRB4*01:01:01G, and 2 labs reported DRB4*01:03:01. For DPB1*03/*104, 7 labs assigned DPB1*104:01, 1 lab assigned DPB1*104:01:01, 1 lab assigned DPB1*03:01:01G, 1 lab assigned DPB1*03:01P, and 1 lab assigned DPB1*03:01.

Cell 1695. The reported HLA type for this cell from a Black donor is A*33:03-A*68:02-B*15:37-B*35:01-C*03:04-C*04:01-DRB1*07:01-DRB1*11:02-DRB3*0202-DRB4*01:01-DQA1*03:03-DQA1*05:05-DQB1*02:02-DQB1*03:19-DPA1*02:01-DPA1*03:01-DPB1*13:01-DPB1*04/105. Likely associations present in this cell are A*33:03-B*35:01-C*04:01 and A*68:02-B*15:37-C*03:04, observed in African Americans, with respective HF = 0.00417 and 0.00042.

B*15:37 was reported by 100% of labs reporting at high resolution. This is only the second time B*15:37 has been examined in the Exchange. The first typing was in 1997, in which 57% of labs reporting by serology assigned B70, with an additional 11% assigning B71.

Greater than 80% agreement was achieved for all other allele assignments, except DPB1*04/*105. Six labs assigned DPB1*105:01, 1 lab assigned DPB1*105:01:01, 1 lab assigned DPB1*04:02P, and 1 lab reported DPB1*04:02.

Cell 1696. The reported HLA type for this cell from a Hispanic donor is A*02:01-A*02:02-B*38:01-B*53:01-C*04:01-C*12:03-DRB1*04:11-DRB1*08:06-DRB4*01-DQA1*01:02-DQA1*03:01-DQB1*03:02-DQB1*06:02-DPA1*01:03-DPA1*02:02-DPB1*03:01-DPB1*05:01. Likely associations present in this cell are A*02:01-B*38:01-C*12:03 and A*02:02-B*53:01-C*04:01, observed in Hispanics, with respective HF = 0.00157 and 0.00085.

This cell was previously examined as 1243 (2005). In this present retyping, good agreement (> 90%) was achieved for all allele assignment assignments, except DRB4*01. DRB4*01:03 was assigned by 2 labs, 2 labs assigned DRB4*01:01:01G, and 1 lab assigned DRB4*01:03:01.

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Table 7: Summary of the 424th Cell Exchange - DNA Typing

Cell 1693

DNA Typing - class I		11 labs High; 10 labs low- A		11 labs High; 10 labs low- B		11 labs High; 8 labs low- C												
			%(n)		%(n)		%(n)											
	A*02:06:01:01	9	(1)	B*08:01:01:02	9	(1)	C*07:02:01:01	9	(1)									
	A*02:06:01	9	(1)	B*08:01:01	9	(1)	C*07:02:01	9	(1)									
	A*02:06	82	(9)	B*08:01	73	(8)	C*07:02	82	(9)									
	A*02	100	(10)	B*08:02	9	(1)	C*07	100	(8)									
				B*08	100	(1)												
DNA Typing - class I		11 labs High; 10 labs low- A		11 labs High; 10 labs low- B		12 labs High; 8 labs low- C												
			%(n)		%(n)		%(n)											
	A*24:02:01:02L	18	(2)	B*52:01:01:01	9	(1)	C*12:02:02:01	9	(1)									
	A*24:02L	18	(2)	B*52:01:01	9	(1)	C*12:02:02	9	(1)									
	A*24:02	64	(7)	B*52:01	82	(9)	C*12:02	82	(10)									
	A*24	90	(9)	B*52	90	(9)	C*12	100	(8)									
	A*69	10	(1)	B*51	10	(1)												
DNA Typing - class II		11 labs High; 6 labs low-DRB1		7 labs High; 3 labs low-DRB3/4/5		9 labs High; 4 labs Low-DQA1		11 labs High; 6 labs Low-DQB1		7 labs High; 3 labs Low-DPA1		11 labs High; 4 labs Low-DPB1						
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
	DRB1*04:18	100	(11)	DRB4*01:03:01	29	(2)	DQA1*01:03:01	22	(2)	DQB1*03:02:01	18	(2)	DPA1*01:03:01	29	(2)	DPB1*02:01:02	18	(2)
	DRB1*04	83	(5)	DRB4*01:01:01G	29	(2)	DQA1*01:03	78	(7)	DQB1*03:02:01G	9	(1)	DPA1*01:03	71	(5)	DPB1*02:01:02G	9	(1)
	DRB1*13	17	(1)	DRB4*01:03	42	(3)	DQA1*01	100	(4)	DQB1*03:02	73	(8)	DPA1*01	100	(3)	DPB1*02:01	73	(8)
				DRB4*01	67	(2)				DQB1*03(DQ8)	17	(1)				DPB1*02(DP201)	25	(1)
				DRB4*PRESENT	33	(1)				DQB1*03	66	(4)				DPB1*02	75	(3)
										DQB1*02	17	(1)						
DNA Typing - class II		11 labs High; 6 labs low-DRB1		7 labs High; 3 labs low-DRB3/4/5		9 labs High; 4 labs Low-DQA1		11 labs High; 6 labs Low-DQB1		7 labs High; 3 labs Low-DPA1		11 labs High; 4 labs Low-DPB1						
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
	DRB1*15:02:02	18	(2)	DRB5*01:02:01G	14	(1)	DQA1*03:01:01	22	(2)	DQB1*06:01:01	18	(2)				DPB1*04:01:01	18	(2)
	DRB1*15:02	82	(9)	DRB5*01:02	86	(6)	DQA1*03:01	78	(7)	DQB1*06:01:01G	9	(1)				DPB1*04:01:01G	9	(1)
	DRB1*15	100	(6)	DRB5*01	67	(2)	DQA1*03	100	(4)	DQB1*06:01	73	(8)				DPB1*04:01	73	(8)
				DRB5*PRESENT	33	(1)				DQB1*06	100	(6)				DPB1*04(DP401)	25	(1)
																DPB1*04	75	(3)

Table 8: Summary of the 424th Cell Exchange - DNA Typing

Cell 1694

DNA Typing - class I	<u>12 labs High; 10 labs low- A</u>		<u>12 labs High; 10 labs low- B</u>		<u>12 labs High; 9 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*02:02:01:01	8 (1)	B*14:02:01:01	8 (1)	C*08:02:01:01	8 (1)
	A*02:02:01	8 (1)	B*14:02:01	8 (1)	C*08:02:01	8 (1)
	A*02:02	83(10)	B*14:02	83(10)	C*08:02	83(10)
	A*02	100(10)	B*14	100(10)	C*08	100(9)
DNA Typing - class I	<u>11 labs High; 10 labs low- A</u>		<u>11 labs High; 9 labs low- B</u>		<u>11 labs High; 8 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*33:01:01:01	9 (1)	B*41:01:01:01	9 (1)	C*17:01:01:05	9 (1)
	A*33:01:01	9 (1)	B*41:01:01	9 (1)	C*17:01:01	9 (1)
	A*33:01	73(8)	B*41:01	82(9)	C*17:01	82(9)
	A*33:03	9 (1)	B*41	100(9)	C*17	100(8)
	A*33	100(10)				

DNA Typing - class II	<u>11 labs High; 6 labs low-DRB1</u>		<u>7 labs High; 3 labs low-DRB3/4/5</u>		<u>8 labs High; 4 labs Low-DQA1</u>		<u>11 labs High; 6 labs Low-DQB1</u>		<u>7 labs High; 3 labs Low-DPA1</u>		<u>11 labs High; 4 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*01:02:01	18(2)	DRB4*01:03:01	29(2)	DQA1*01:01:02	25(2)	DQB1*02:02:01	18(2)	DPA1*01:03:01	29(2)	DPB1*04:01:01	18(2)
	DRB1*01:02	82(9)	DRB4*01:01:01G	29(2)	DQA1*01:01	75(6)	DQB1*02:01:01G	9 (1)	DPA1*01:03	71(5)	DPB1*04:01:01G	9 (1)
	DRB1*01	100(6)	DRB4*01:03	42(3)	DQA1*01	100(4)	DQB1*02:02	73(8)	DPA1*01	100(3)	DPB1*04:01P	9 (1)
			DRB4*01	67(2)			DQB1*02	100(6)			DPB1*04:01	64(7)
			DRB4*PRESENT	33(1)							DPB1*04(DP401)	25(1)
											DPB1*04	75(3)
DNA Typing - class II	<u>11 labs High; 6 labs low-DRB1</u>		<u>8 labs High; 4 labs Low-DQA1</u>		<u>11 labs High; 6 labs Low-DQB1</u>		<u>7 labs High; 3 labs Low-DPA1</u>		<u>11 labs High; 4 labs Low-DPB1</u>			
		%(n)		%(n)		%(n)		%(n)		%(n)		
	DRB1*04:05:01	18(2)	DQA1*03:03:01	25(2)	DQB1*05:01:01	9 (1)			DPB1*104:01:01	9 (1)		
	DRB1*04:05	82(9)	DQA1*03:03	63(5)	DQB1*05:01:01G	9 (1)			DPB1*104:01	64(7)		
	DRB1*04	100(6)	DQA1*03:02	12(1)	DQB1*05:01	82(9)			DPB1*03:01:01G	9 (1)		
			DQA1*03	100(4)	DQB1*05	100(6)			DPB1*03:01P	9 (1)		
									DPB1*03:01	9 (1)		
									DPB1*104	50(2)		
									DPB1*03	50(2)		

Table 9: Summary of the 424th Cell Exchange - DNA Typing

Cell 1695

DNA Typing - class I	<u>10 labs High; 8 labs low- A</u>		<u>10 labs High; 7 labs low- B</u>		<u>10 labs High; 7 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*33:03:01:01	10(1)	B*15:37	100(10)	C*03:04:02:01	10(1)
	A*33:03	80(8)	B*15(B62)	14(1)	C*03:04	90(9)
	A*33:01	10(1)	B*15(B71)	14(1)	C*03(Cw10)	43(3)
	A*33	100(8)	B*15(B75)	14(1)	C*03	57(4)
			B*15	57(4)		
<u>10 labs High; 8 labs low- A</u>		<u>10 labs High; 8 labs low- B</u>		<u>10 labs High; 6 labs low- C</u>		
	%(n)		%(n)		%(n)	
A*68:02:01:01	10(1)	B*35:01:01	10(1)	C*04:01:01:14	10(1)	
A*68:02	90(9)	B*35:01	80(8)	C*04:01	90(9)	
A*68	100(8)	B*35:24	10(1)	C*04	100(6)	
		B*35	100(8)			

DNA Typing - class II	<u>9 labs High; 4 labs low-DRB1</u>		<u>5 labs High; 1 lab low-DRB3/4/5</u>		<u>8 labs High; 3 labs Low-DQA1</u>		<u>9 labs High; 4 labs Low-DQB1</u>		<u>5 labs High; 3 labs Low-DPA1</u>		<u>9 labs High; 3 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*07:01:01	11(1)	DRB3*02:02:01	40(2)	DQA1*03:03:01	12(1)	DQB1*02:02:01	11(1)	DPA1*02:01:07	20(1)	DPB1*13:01:01	11(1)
	DRB1*07:01:01G	11(1)	DRB3*02:02:01G	20(1)	DQA1*03:01:01G	12(1)	DQB1*02:02	89(8)	DPA1*02:01	80(4)	DPB1*13:01:01G	22(2)
	DRB1*07:01	78(7)	DRB3*02:02	40(2)	DQA1*03:03	75(6)	DQB1*02	100(4)	DPA1*02	100(3)	DPB1*13:01P	11(1)
	DRB1*07	100(4)	DRB3*PRESENT	100(1)	DQA1*03	100(3)					DPB1*13:01	56(5)
											DPB1*13	100(3)
<u>9 labs High; 4 labs low-DRB1</u>		<u>5 labs High; 1 lab low-DRB3/4/5</u>		<u>8 labs High; 3 labs Low-DQA1</u>		<u>9 labs High; 4 labs Low-DQB1</u>		<u>5 labs High; 3 labs Low-DPA1</u>		<u>9 labs High; 3 labs Low-DPB1</u>		
	%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
DRB1*11:02:01	11(1)	DRB4*01:01:01	20(1)	DQA1*05:05:01	12(1)	DQB1*03:19:01	22(2)	DPA1*03:01:01	20(1)	DPB1*105:01:01	11(1)	
DRB1*11:02	89(8)	DRB4*01:01:01G	20(1)	DQA1*05:01:01G	12(1)	DQB1*03:19	67(6)	DPA1*03:01	80(4)	DPB1*105:01	67(6)	
DRB1*11	100(4)	DRB4*01:01	60(3)	DQA1*05:05	75(6)	DQB1*03:01	11(1)	DPA1*03	100(3)	DPB1*04:02P	11(1)	
		DRB4*PRESENT	100(1)	DQA1*05	100(3)	DQB1*03	100(4)			DPB1*04:02	11(1)	
										DPB1*105	67(2)	
										DPB1*04	33(1)	

Table 10: Summary of the 424th Cell Exchange - DNA Typing

Cell 1696

DNA Typing - class I		9 labs High; 8 labs low- A	%(n)	9 labs High; 8 labs low- B	%(n)	9 labs High; 6 labs low- C	%(n)						
		A*02:01:01:01	11(1)	B*38:01:01:05	11(1)	C*04:01:01:75	11(1)						
A*02:01	89(8)	B*38:01	89(8)	C*04:01	89(8)								
A*02	100(8)	B*38	100(8)	C*04	100(6)								
DNA Typing - class II		9 labs High; 4 labs low-DRB1	%(n)	5 labs High; 1 lab low-DRB3/4/5	%(n)	7 labs High; 3 labs Low-DQA1	%(n)	9 labs High; 4 labs Low-DQB1	%(n)	4 labs High; 3 labs Low-DPA1	%(n)	9 labs High; 3 labs Low-DPB1	%(n)
		DRB1*04:11:01	11(1)	DRB4*01:03:01	20(1)	DQA1*01:02:01	14(1)	DQB1*03:02:01	11(1)	DPA1*01:03:01	25(1)	DPB1*03:01:01	11(1)
DRB1*04:11	89(8)	DRB4*01:01:01G	40(2)	DQA1*01:02	86(6)	DQB1*03:02:01G	11(1)	DPA1*01:03	75(3)	DPB1*03:01:01G	11(1)		
DRB1*04	100(4)	DRB4*01:03	40(2)	DQA1*01	100(3)	DQB1*03:02	78(7)	DPA1*01	100(3)	DPB1*03:01	78(7)		
		DRB4*PRESENT	100(1)			DQB1*03(DQ8)	25(1)			DPB1*03	100(3)		
						DQB1*03	75(3)						
DNA Typing - class II		9 labs High; 4 labs low-DRB1	%(n)	7 labs High; 3 labs Low-DQA1	%(n)	8 labs High; 4 labs Low-DQB1	%(n)	4 labs High; 3 labs Low-DPA1	%(n)	9 labs High; 3 labs Low-DPB1	%(n)		
		DRB1*08:06	100(9)	DQA1*03:01:01	14(1)	DQB1*06:02:01	12(1)	DPA1*02:02:02	25(1)	DPB1*05:01:01	22(2)		
DRB1*08	100(4)	DQA1*03:01	86(6)	DQB1*06:02	88(7)	DPA1*02:02:02G	25(1)	DPB1*05:01	78(7)				
		DQA1*03	100(3)	DQB1*06	100(4)	DPA1*02:02	50(2)	DPB1*05	100(3)				
						DPA1*02	100(3)						

Table 11. Individual laboratory results for Cell #1693 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*08	*52	*07	*12	*02:06	*24:02	*08:01	*52:01	*07:02	*12:02		
725	*02	*24	*08	*52	*07	*12							SSO	
747	*02	*24	*08	*52	*07	*12	*02:06:01	*24:02:01:02L	*08:01:01	*52:01:01	*07:02:01	*12:02:02	SSP SSO NGS	
762							*02:06	*24:02L	*08:01	*52:01	*07:02	*12:02	NGS	
771	*02	*24	*08	*52	*07	*12	*02:06	*24:02	*08:01	*52:01	*07:02	*12:02	SSO NGS	
774	*02	*24	*08	*52	*07	*12								
3808	*02	*24	*08	*52	*07	*12						*12:02	SSO	
4079	*02	*24	*08	*52	*07	*12	*02:06	*24:02	*08:01	*52:01	*07:02	*12:02	SSP NGS	
4251							*02:06	*24:02	*08:01	*52:01	*07:02	*12:02	NGS	
5133							*02:06:01:01	*24:02:01:02L	*08:01:01:02	*52:01:01:01	*07:02:01:01	*12:02:02:01	NGS	
5462							*02:06	*24:02L	*08:01	*52:01	*07:02	*12:02	SSP NGS	
6649	*02	*24	*08	*52									SSO	
8001							*02:06	*24:02	*08:01	*52:01	*07:02	*12:02		
8043							*02:06	*24:02	*08:01	*52:01	*07:02	*12:02	NGS	
8058	*02	*69	*08	*51									OTHER	
8103	*02	*24	*08	*52	*07	*12	*02:06	*24:02	*08:02	*52:01	*07:02	*12:02	SSO	

Table 12a: Individual laboratory results for Cell #1693 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*15	4*01	5*01	*01	*03	*03	*06	*01	*01	*02	*04	SSP SSO NGS	
771	*04	*15			*01	*03	*03	*06			*02	*04	SSO NGS	
3808	*04	*15	NT	NT	*01	*03	*03	*06	*01	*01	*02(DP201)	*04(DP401)	SSO	
4079	*04	*15	4*01	5*01			*03(DQ8)	*06					SSP NGS	
8058	*13	*15	4*PRESENT	5*PRESENT			*02	*06					OTHER	
8103	*04	*15			*01	*03	*03	*06	*01	*01	*02	*04	SSO	

Table 12b: Individual laboratory results for Cell #1693 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04:18	*15:02:02	4*01:03:01	5*01:02	*01:03:01	*03:01:01	*03:02:01	*06:01:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	SSP SSO NGS	DQB1*03:289 DQB1*03:416 DQB1*06:01:15
771	*04:18	*15:02					*03:02	*06:01			*02:01	*04:01	SSO NGS	
774	*04:18	*15:02	4*01:01:01G	5*01:02:01G	*01:03	*03:01	*03:02	*06:01			*02:01	*04:01		
3808	*04:18	*15:02			*01:03	*03:01	*03:02	*06:01	*01:03	*01:03	*02:01:02G	*04:01:01G	SSO	
4079	*04:18	*15:02	4*01:03	5*01:02	*01:03	*03:01	*03:02	*06:01	*01:03		*02:01	*04:01	SSP NGS	
4251	*04:18	*15:02	4*01:01:01G	5*01:02	*01:03	*03:01	*03:02:01G	*06:01:01G	*01:03	*01:03:01G	*02:01	*04:01	NGS	
5133	*04:18	*15:02:02	4*01:03:01	5*01:02	*01:03:01	*03:01:01	*03:02:01	*06:01:01	*01:03:01		*02:01:02	*04:01:01	NGS	
5462	*04:18	*15:02	4*01:03	5*01:02	*01:03	*03:01	*03:02	*06:01	*01:03		*02:01	*04:01	SSP NGS	
8001	*04:18	*15:02	4*01:03	5*01:02	*01:03	*03:01	*03:02	*06:01			*02:01	*04:01		
8043	*04:18	*15:02					*03:02	*06:01			*02:01	*04:01	NGS	
8103	*04:18	*15:02			*01:03	*03:01	*03:02	*06:01	*01:03	*01:03	*02:01	*04:01	SSO	

Table 13. Individual laboratory results for Cell #1694 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*33	*14	*41	*08	*17	*02:02	*33:01	*14:02	*41:01	*08:02	*17:01		
725	*02	*33	*14	*41	*08	*17							SSO	
747	*02	*33	*14	*41	*08	*17	*02:02:01	*33:01:01	*14:02:01	*41:01:01	*08:02:01	*17:01:01	SSP SSO NGS	
762							*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	NGS	
771	*02	*33	*14	*41	*08	*17	*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	SSO NGS	
774	*02	*33	*14	*41	*08	*17								
3808	*02	*33	*14	*41	*08	*17	*02:02		*14:02		*08:02		SSO	
4079	*02	*33	*14	*41	*08	*17	*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	SSP NGS	
4251							*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	NGS	
5133							02:02:01:01	*33:01:01:01	*14:02:01:01	*41:01:01:01	*08:02:01:01	*17:01:01:05	NGS	
5462							*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	SSP NGS	
6649	*02	*33	*14	*41									SSO	
8001							*02:02	*33:01	*14:02	*41:01	*08:02	*17:01		
8043							*02:02	*33:01	*14:02	*41:01	*08:02	*17:01	NGS	
8058	*02	*33	*14		*08								OTHER	
8103	*02	*33	*14	*41	*08	*17	*02:02	*33:03	*14:02	*41:01	*08:02	*17:01	SSO	

Table 14a: Individual laboratory results for Cell #1694 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*01	*04	4*01		*01	*03	*02	*05	*01	*01	*04	*104	SSP SSO NGS	
771	*01	*04			*01	*03	*02	*05			*04	*104	SSO NGS	
3808	*01	*04	NT	NT	*01	*03	*02	*05	*01	*01	*04(DP401)	*03	SSO	
4079	*01	*04	4*01				*02	*05					SSP NGS	
8058	*01	*04	4*PRESENT	4*PRESENT			*02	*06					OTHER	
8103	*01	*04			*01	*03	*02	*05	*01	*01	*04	*03	SSO	

Table 14b: Individual laboratory results for Cell #1694 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*01:02:01	*04:05:01	4*01:03:01		*01:01:02	*03:03:01	*02:02:01	*05:01	*01:03:01	*01:03:01	*04:01:01	*104:01	SSP SSO NGS	DQB1*05:237 DQB1*05:263
771	*01:02	*04:05					*02:02	*05:01			*04:01	*104:01	SSO NGS	
774	*01:02	*04:05	4*01:01:01G		*01:01	*03:03	*02:02	*05:01			*04:01	*104:01		
3808	*01:02	*04:05					*02:02	*05:01	*01:03	*01:03	*04:01:01G	*03:01:01G	SSO	
4079	*01:02	*04:05	4*01:03		*01:01	*03:03	*02:02	*05:01	*01:03		*04:01	*104:01	SSP NGS	
4251	*01:02	*04:05	4*01:01:01G		*01:01	*03:03	*02:01:01G	*05:01:01G	*01:03	*01:03:01G	*04:01	*104:01	NGS	
5133	*01:02:01	*04:05:01	4*01:03:01		*01:01:02	*03:03:01	*02:02:01	*05:01:01	*01:03:01		*04:01:01	*104:01:01	NGS	DPB1*124:01:01 DPB1*702:01
5462	*01:02	*04:05	4*01:03	NP	*01:01	*03:03	*02:02	*05:01	*01:03		*04:01P	*03:01P	SSP NGS	DPB1*702:01 DPB1*104:01 DPB1*124:01
8001	*01:02	*04:05	4*01:03		*01:01	*03:03	*02:02	*05:01			*04:01	*104:01		
8043	*01:02	*04:05					*02:02	*05:01			*04:01	*104:01	NGS	
8103	*01:02	*04:05			*01:01	*03:02	*02:02	*05:01	*01:03	*01:03	*04:01	*03:01	SSO	DQA1*03:03

Table 15. Individual laboratory results for Cell #1695 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*33	*68	*15	*35	*03	*04	*33:03	*68:02	*15:37	*35:01	*03:04	*04:01		
725	*33	*68	*15(B71)	*35	*03(Cw10)	*04							SSO	
747													SSP SSO NGS	
762							*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	NGS	
771	*33	*68	*15	*35	*03	*04	*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	SSO NGS	
774	*33	*68	*15(B75)	*35	*03(Cw10)	*04								
3808	*33	*68	*15(B62)	*35	*03(Cw10)	*04	*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	NGS	
5133							33:03:01:01	*68:02:01:01	*15:37	*35:01:01	*03:04:02:01	*04:01:01:14	NGS	
5462							*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	SSP NGS	
6649	*33	*68	*15	*35									SSO	
8001							*33:03	*68:02	*15:37	*35:01	*03:04	*04:01		
8043							*33:03	*68:02	*15:37	*35:01	*03:04	*04:01	NGS	
8058	*33	*68		*35	*03								OTHER	
8103	*33	*68	*15	*35	*03	*04	33:01	*68:02	*15:37	*35:24	*03:04	*04:01	SSO	

Table 16a: Individual laboratory results for Cell #1695 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*07	*11			*03	*05	*02	*03			*13	*04	SSO NGS	
774									*02	*03				
3808	*07	*11	NT	NT	*03	*05	*02	*03	*02	*03	*13	*105	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
8058	*07	*11	3*PRESENT	4*PRESENT			*02	*03					OTHER	
8103	*07	*11			*03	*05	*02	*03	*02	*03	*13	*105	SSO	

Table 16b: Individual laboratory results for Cell #1695 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*07:01	*11:02					*02:02	*03:19			*13:01	*04:02	SSO NGS	
774	*07:01	*11:02	3*02:02:01	4*01:01:01G	*03:03	*05:05	*02:02	*03:19:01			*13:01	*105:01		
3808	*07:01	*11:02			*03:03	*05:05	*02:02	*03:19	*02:01	*03:01	*13:01:01G	*105:01	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251	*07:01:01G	*11:02	3*02:02:01G	4*01:01	*03:03	*05:05	*02:02	*03:19	*02:01	*03:01	*13:01:01G	*105:01	NGS	
5133	*07:01:01	*11:02:01	3*02:02:01	4*01:01:01	*03:03:01	*05:05:01	*02:02:01	*03:19:01	*02:01:07	*03:01:01	*13:01:01	*105:01:01	NGS	
5462	*07:01	*11:02	3*02:02	4*01:01	*03:03	*05:05	*02:02	*03:19	*02:01	*03:01	*13:01P	*04:02P	SSP NGS	DPB1*105:01 DPB1*463:01 DPB1*133:01
8001	*07:01	*11:02	3*02:02	4*01:01	*03:03	*05:05	*02:02	*03:19			*13:01	*105:01		
8043	*07:01	*11:02			*03:01:01G	*05:01:01G	*02:02	*03:19			*13:01	*105:01	NGS	
8103	*07:01	*11:02			*03:03	*05:05	*02:02	*03:01	*02:01	*03:01	*13:01	*105:01	SSO	DQA1*03:02

Table 17. Individual laboratory results for Cell #1696 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*02	*38	*53	*04	*12	*02:01	*02:02	*38:01	*53:01	*04:01	*12:03		
725	*02		*38	*53	*04	*12							SSO	
747	NT												SSP SSO NGS	
762							*02:01	*02:02	*38:01	*53:01	*04:01	*12:03	NGS	A*02:102 A*02:603
771	*02	*02	*38	*53	*04	*12	*02:01	*02:02	*38:01	*53:01	*04:01	*12:03	SSO NGS	
774	*02	*02	*38	*53	*04	*12								
3808	*02	*02	*38	*53	*04	*12		*02:02		*53:01		*12:03	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251							*02:01	*02:02	*38:01	*53:01	*04:01	*12:03	NGS	
5133							02:01:01:01	*02:02:01:01	*38:01:01:05	*53:01:01:01	*04:01:01:75	*12:03:01:01	NGS	
5462							*02:01	*02:02	*38:01	*53:01	*04:01	*12:03	SSP NGS	
6649	*02	*02	*38	*53									SSO	
8001							*02:01	*02:02	*38:01	*53:01	*04:01	*12:03		
8043							*02:01	*02:02	*38:01	*53:01	*04:01	*12:03	NGS	
8058	*02	*69	*38	*53									OTHER	
8103	*02	*02	*38	*53	*04	*12	*02:01	*02:02	*38:01	*53:01	*04:01	*12:28	SSO	

Table 18a: Individual laboratory results for Cell #1696 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04	*08			*01	*03	*03	*06			*03	*05	SSO NGS	
774									*01	*02				
3808	*04	*08	NT	NT	*01	*03	*03(DQ8)	*06	*01	*02	*03	*05	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
8058	*04	*08	4*PRESENT	4*PRESENT			*03	*06					OTHER	
8103	*04	*08			*01	*03	*03	*06	*01	*02	*03	*05	SSO	

Table 18b: Individual laboratory results for Cell #1696 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
771	*04:11	*08:06					*03:02	*06:02			*03:01	*05:01	SSO NGS	
774	*04:11	*08:06	4*01:01:01G		*01:02	*03:01	*03:02	*06:02			*03:01	*05:01		
3808	*04:11	*08:06			*01:02	*03:01	*03:02				*03:01:01G	*05:01:01	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
4251	*04:11	*08:06	4*01:01:01G		*01:02	*03:01	*03:02:01G	*06:02	*01:03	*02:02:02G	*03:01	*05:01	NGS	
5133	*04:11:01	*08:06	4*01:03:01		*01:02:01	*03:01:01	*03:02:01	*06:02:01	*01:03:01	*02:02:02	*03:01:01	*05:01:01	NGS	
5462	*04:11	*08:06	4*01:03	NP	*01:02	*03:01	*03:02	*06:02	*01:03	*02:02	*03:01	*05:01	SSP NGS	
8001	*04:11	*08:06	4*01:03		*01:02	*03:01	*03:02	*06:02			*03:01	*05:01		
8043	*04:11	*08:06					*03:02	*06:02			*03:01	*05:01	NGS	
8103	*04:11	*08:06			*01:02	*03:01	*03:02	*06:02	*01:03	*02:02	*03:01	*05:01	SSO	DQB1*06:11