

CELL EXCHANGE #415

MARCH 11, 2020

Cells	1657-1660
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The results for Cell Exchange #415 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. Eleven labs submitted low and/or high resolution class II results for

this study. We would like to thank each of them for sharing their findings and encourage other labs to do so as well. Once the criteria for grading is met (minimum 10 labs reporting for each resolution type), we will begin to grade individual class II results.

Cell 1657. The reported class I type for this sample from a Hispanic donor was A*25:01-A*68:01-B*40:02-B*44:03-C*03:04-C*16:01. Each allele was assigned by $\geq 90\%$ of labs reporting by high resolution, with 3 labs assigning A*25:01:01:01, A*68:01:02:01, B*40:02:01, B*44:03:01, C*03:04:01, and C*16:01:01. A25 (100%), A28(A68) (83%), B40(B61) (83%) and B44 (100%) were reported by serology.

The class II type was reported as DRB1*04:11-DRB1*15:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:01-DQB1*03:02-DQB1*06:02-DPA1*01:03-DPB1*04:02. Likely association present in this cell were A*25:01-B*44:03-DRB1*15:01 and A*68:01-B*40:02-DRB1*04:11, with respective HF = 0.00050 and 0.00039, in Hispanics.

Cell 1658. The reported class I type for this sample from a Hispanic donor was A*26:01-A*30:01-B*13:02-B*38:01-C*06:02-C*12:03. Each allele was assigned by $\geq 90\%$ of labs reporting by high resolution, with 3 labs reporting A*26:01:01:01, A*30:01:01:01, B*13:02:01:01, B*38:01:01:01, C*06:02:01:01, and C*12:03:01. A26 (100%), A30 (85%), B13 (100%), and B38 (100%) were the assigned serological types.

The class II type was reported as DRB1*07:01-DRB4*01:01-DRB4*01:03-DQA1*02:01-DQB1*02:02-DPA1*02:01-DPB1*11:01-DPB1*17:01. One likely association present in this cell was A*30:01-B*13:02-DRB1*07:01, observed commonly in Hispanics, with HF = 0.00428. The other likely association present was A*26:01-B*38:01-DRB1*07:01, with respective HF = 0.000022, in Caucasians.

Cell 1659. The reported class I type for this cell from a donor of mixed heritage was A*66:01-A*68:02-B*14:02-B*53:01-C*06:02-C*08:02. Each were assigned by $\geq 90\%$ of labs reporting by high resolution. This cell was previous examined as Cell 1551 (2015). In this present retyping, A*66:01:01, B*14:02:01, B*53:01:01, and C*08:02:01 were each reported by 3 labs. A10 (100%), A28(A68) (100%), B14(B65) (100%), and B53 (75%) were reported by serology.

The class II type was reported as DRB1*13:02-DRB1*13:03-DRB3*01:01-DRB3*03:01-DQA1*01:02-DQA1*05:05-DQB1*03:01-DQB1*06:04-DPA1*01:03-DPA1*02:01-DPB1*04:01-DPB1*17:01:01G/*131:01. One likely association in this cell was A*66:01-B*53:01-C*06:02, observed exclusively in African Americans, with HF = 0.00035. The other likely association present was A*68:02-B*14:02-C*08:02, observed in Hispanics, with HF = 0.00538.

Cell 1660. The reported class I type for this cell from a Filipino donor was A*23:01-A*34:01-B*51:01-B*57:02-C*04:01-C*18. Good agreement ($\geq 90\%$) was achieved for each allele except C*18, in which 12 labs reported C*18:02, 1 lab reported C*18:01:01G, and 1 lab reported C*18:01. A23 (100%), A34 (80%), B51 (80%), and B57 (80%) were the assigned serological types.

The class II type was reported as DRB1*04:05-DRB4*01:03-DQA1*03:03-DQB1*03:02-DQB1*04:01-DPA1*02:01-DPA1*02:02-DPB1*01:01. One likely association present in this cell was A*34:01-B*51:01-C*04:01, with respective HF = 0.00114, in Asians. The other likely association present was A*23:01-B*57:02-C*18, observed in cell 1019 (same as cell 977), from a Black donor.

NEXT MAILING DATE: June 24, 2020

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed

Table 9: Summary of the 315th Cell Exchange - DNA Typing

Cell 1659

DNA Typing - class I	12 labs High; 18 labs low- A	%(n)	14 labs High; 18 labs low- B	%(n)	12 labs High; 17 labs low- C	%(n)
	A*66:01:01:01	17(2)	B*14:02:01:01	14(2)	C*06:02:01:01	16(2)
	A*66:01:01	8 (1)	B*14:02:01	7 (1)	C*06:02:01G	16(2)
	A*66:01	75(9)	B*14:02:01G	7 (1)	C*06:02	67(8)
	A*66	100(18)	B*14:02	71(10)	C*06	100(17)
			B*14(B65)	6 (1)		
			B*14	94(17)		

DNA Typing - class II	6 labs High; 8 labs low-DRB1	%(n)	4 labs High; 5 labs low-DRB3/4/5	%(n)	4 labs High; 6 labs Low-DQA1	%(n)	5 labs High; 7 labs Low-DQB1	%(n)	3 labs High; 4 labs Low-DPA1	%(n)	4 labs High; 3 labs Low-DPB1	%(n)
	DRB1*13:02:01	17(1)	DRB3*01:01P	25(1)	DQA1*01:02	100(4)	DQB1*03:01:01	20(1)	DPA1*01:03	100(3)	DPB1*04:01:01	25(1)
	DRB1*13:02	83(5)	DRB3*01:01	75(3)	DQA1*01	100(6)	DQB1*03:01	80(4)	DPA1*01	100(4)	DPB1*04:01	75(3)
	DRB1*13	100(8)	DRB3*01	100(5)			DQB1*03	100(7)			DPB1*04(DP401)	67(2)
											DPB1*04	33(1)

Table 11. Summary of the 415th Cell Exchange (Cell #1657- 1660)

Serological typing

(Hispanic) Cell 1657 (6 Samples Typed)	
A25	100.0%
	[100.0%]
A68	66.7%
A28	16.7%
	[83.3%]
B61	33.3%
B40	50.0%
	[83.3%]
B44	100.0%
	[100.0%]
Cw3	33.3%
	[33.3%]
Bw4	100.0%
Bw6	100.0%
Others Found	
B48	16.7%
A26	16.7%
A31	16.7%

(Hispanic) Cell 1658 (7 Samples Typed)	
A26	100.0%
	[100.0%]
A30	85.7%
	[85.7%]
B13	100.0%
B38	100.0%
	[100.0%]
Cw6	28.6%
	[28.6%]
Bw4	100.0%
Others Found	
A10	14.3%
A31	14.3%
Bw6	14.3%

(Mixed) Cell 1659 (4 Samples Typed)	
A66	25.0%
A26	25.0%
A10	50.0%
	[100.0%]
A68	50.0%
A28	50.0%
	[100.0%]
B65	50.0%
B14	50.0%
	[100.0%]
B53	75.0%
Cw8	25.0%
	[25%]
Bw4	75.0%
Bw6	100.0%
Others Found	
Cw3	25.0%
Cw5	25.0%

(Filipino) Cell 1660 (5 Samples Typed)	
A23	100.0%
	[100.0%]
A34	80.0%
	[80.0%]
B51	80.0%
B5	20.0%
	[100.0%]
B57	80.0%
B17	20.0%
	[100.0%]
Cw4	40.0%
	[40.0%]
Bw4	100.0%
Others Found	
A43	20.0%

Table 12. Individual laboratory results for Cell #1657 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSP SSO	
725	*25	*68	*40	*44	*03	*16							SSO	
731	*25	*68	*40	*44	*03	*16	*25:01:01G	*68:01:02G	*40:02	*44:03	*03:04	*16:01	SSP SSO SBT	
745							*25:01:01:01	*68:01:02:01	*40:02:01	*44:03:01	*03:04:01	*16:01:01:01	SSP SBT NGS	
747	*25	*68	*40	*44	*03	*16	*25:01:01:01	*68:01:02:01	*40:02:01:01	*44:03:01:01	*03:04:01:02	*16:01:01	SSP SSO NGS	
762							*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	NGS	
771	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSO SBT	
774	*25	*68	*40	*44	*03	*14							SSP SSO	
3186	*25	*68	*40	*44	*03	*16							SSO	
														A*68:152 B*44:298 B*44:302 B*44:309N C*03:358 C*03:359 C*03:376 C*03:387 C*16:146 B*40:303 B*40:356 C*16:111 C*16:112 C*16:118 A*25:60 A*25:62 C*03:455 C*03:456 C*03:466 C*03:467 C*03:484 C*16:154 C*16:157 C*16:160 B*40:384 B*40:405 B*40:442 B*44:474 B*44:476 C*03:408 C*03:417 C*03:423 C*03:470N B*44:466N
3545	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSO SBT	
3632	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSP SSO	
3808	*25	*68	*40	*44	*03	*16			*40:02	*44:03		*16:01	SSO	
4079							NT	NT	NT	NT	NT	NT	SSP NGS	
4251	*25	*68	*40	*44	*03	*16	*25:01:01G	*68:01P	*40:02:01G	*44:03:01G	*03:04:01G	*16:01:01G	SSO SBT	
5133							*25:01:01:01	*68:01:02:01	*40:02:01	*44:03:01	*03:04:01	*16:01:01:01	NGS	
5214	*25	*68	*40(B61)	*44	*03(Cw10)	*16							RT-PCR	
5462	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSO NGS	
5642	*25	*68	*40	*44	*03	*16								
6649	*25	*68	*40	*44									SSO	
8001	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSP SSO NGS	
8043	*25	*68	*40	*44	*03	*16	*25:01	*68:01	*40:02	*44:03	*03:04	*16:01	SSP SSO	
8103	*25	*68	*40	*44	*03	*16							SSP SSO	
													SSP SSO SBT	
8119	*25	*68	*40	*44	*03	*16							NGS RT-PCR	

Table 13a: Individual laboratory results for Cell #1657 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*15	4*PRESENT	5*PRESENT	*01	*03	*03	*06	*01	*01	*04	*04	SSP SSO NGS	
3186	*04	*15	4*01	5*01	*01	*03	*03	*06	*01	*01	*04(DP402)	04(DP402)	SSO	
3545	*04	*15											SSO SBT	
3632	*04	*15	4*01	5*01	*01	*03	*03	*06	*01		*04		SSP SSO	
3808	*04	*15			*01	*03	*03	*06	*01	*01	*04(DP402)	04(DP402)	SSO	
5462	*04	*15	4*01	5*01	*01	*03	*03	*06	*01		NT		SSO NGS	
8001	*04	*15	4*01	5*01	*01	*03	*03	*06					SSP SSO NGS	
8103	*04	*15	4*01	5*01	*01	*03	*03	*06					SSP SSO	
8119	*04	*15					*03	*06			*04(DP402)		SSP SSO SBT N	

Table 13b: Individual laboratory results for Cell #1657 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*04:11:01	*15:01:01					*03:02:01	*06:02:01			*04:02:01		SSP SBT NGS	
747	*04:11:01	*15:01:01:03	4*01:03:01	5*01:01:01	*01:02:01	*03:01:01	*03:02:01:01	*06:02:01:01	*01:03:01	*01:03:01	*04:02:01	*04:02:01	SSP SSO NGS	DQB1*03:289
3545	*04:11	*15:01											SSO SBT	DRB1*15:171
3632	*04:11	*15:01	4*01:03	5*01:01	*01:02	*03:01	*03:02	*06:02	*01:03		*04:02		SSP SSO	DPB1*02:01P
3808	*04:11				*01:02	*03:01	*03:02		*01:03	*01:03			SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5462	*04:11	*15:01	4*01:03	5*01:01	*01:02	*03:01	*03:02	*06:02	*01:03		*04:02		SSO NGS	
8001	*04:11	*15:01	4*01:03	5*01:01	*01:02	*03:01	*03:02	*06:02			*04:02		SSP SSO NGS	
													SSP SSO SBT	
8119			4*01:03	5*01:01									NGS RT-PCR	

Table 14. Individual laboratory results for Cell #1658- Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSP SSO	
725	*26	*30	*13	*38	*06	*12							SSO	
731	*26	*30	*13	*38	*06	*12	*26:01:01G	*30:01:01	*13:02:01	*38:01:01	*06:02	*12:03	SSP SSO SBT	
745							*26:01:01:01	*30:01:01:01	*13:02:01:01	*38:01:01:01	*06:02:01:01	*12:03:01:01	SSP SBT NGS	
747	*26	*30	*13	*38	*06	*12	*26:01:01:01	*30:01:01:01	*13:02:01:01	*38:01:01:01	*06:02:01:01	*12:03:01	SSP SSO NGS	DQB1*02:156
762							*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	NGS	
771	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSO SBT	
774	*26	*30	*13	*38	*06	*12							SSP SSO	
3186	*26	*30	*13	*38	*06	*12							SSO	
														C*06:214 C*06:227 C*06:228 C*06:236 C*06:239 C*06:244 A*26:117 C*06:83 C*06:213 C*12:143 C*12:167 C*12:220 C*12:245 C*12:262 A*26:166Q A*26:167 A*26:168 A*26:183 B*13:125 B*13:136 B*38:86 C*06:255 C*06:261 C*06:266 C*06:273 C*06:274 C*12:289 C*12:290 C*12:292 A*26:163 A*26:164 A*26:187 A*30:135 A*30:141 A*30:147 A*30:148 B*13:114 B*13:116N B*13:117 B*13:123Q C*06:276 C*06:277 C*06:278 C*06:279 C*12:277 C*12:278 C*12:284
3545	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSO SBT	
3632	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSP SSO	
3808	*26	*30	*13	*38	*06	*12		*30:01	*13:02			*12:03	SSO	
4079							*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSP NGS	
4251	*26	*30	*13	*38	*06	*12	*26:01:01G	*30:01:01G	*13:02:01G	*38:01:01G	*06:02:01G	*12:03:01G	SSO SBT	
5133							*26:01:01:01	*30:01:01:01	*13:02:01:01	*38:01:01:01	*06:02:01:01	*12:03:01:01	NGS	
5214	*26	*30	*13	*38	*06	*12							RT-PCR	
5462	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02P	*38:01	*06:02	*12:03	SSO NGS	B*13:123Q
5642	*26	*30	*13	*38	*06	*12								
6649	*26	*30	*13	*38									SSO	
8001	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSP SSO NGS	
8043	*26	*30	*13	*38	*06	*12	*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	SSP SSO	
8103	*26	*30	*13	*38	*06	*12							SSP SSO	
													SSP SSO SBT	
8119							*26:01	*30:01	*13:02	*38:01	*06:02	*12:03	NGS RT-PCR	

Table 15a: Individual laboratory results for Cell #1658 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*07	*07	4*PRESENT	4*PRESENT	*02		*02		*02		*11	*17	SSP SSO NGS	
3186	*07	*07	4*01	4*01	*02	*02	*02	*02	*02	*02	*11	*17	SSO	
3545	*07												SSO SBT	
3632	*07		4*01	4*01	*02		*02		*02		*11	*17	SSP SSO	
3808	*07	*07			*02	*02	*02	*02	*02	*02	*11	*17	SSO	
5462	*07		4*01	4*01	*02		*02		*02	*02	NT	NT	SSO NGS	
8001	*07		4*01	4*01	*02		*02						SSP SSO NGS	
8103	*07	*07	4*01	4*01	*02	*02	*02	*02					SSP SSO	

Table 15b: Individual laboratory results for Cell #1658- Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*07:01:01						*02:02:01				*11:01:01	*17:01:01	SSP SBT NGS	
747	*07:01:01:01		4*01:01:01:0	4*01:03:01	*02:01:01		*02:02:01		*02:01:01:03		*11:01:01	*17:01:01	SSP SSO NGS	DQB1*02:156
3545	*07:01												SSO SBT	DRB1*07:93
3632	*07:01		4*01:01	4*01:03	*02:01		*02:02		*02:01		*11:01	*17:01	SSP SSO	
3808					*02:01	*02:01	*02:02	*02:02	*02:01	*02:01	*11:01	*17:01	SSO	
4079	*07:01		4*01:01	4*01:03	*02:01		*02:02		*02:01		*11:01	*17:01	SSP NGS	
5462	*07:01		4*01:01	4*01:03	*02:01		*02:02		*02:01	*02:01	*11:01	*17:01	SSO NGS	
8001	*07:01		4*01:01	4*01:03	*02:01		*02:02				*11:01	*17:01	SSP SSO NGS	
8119	*07:01		4*01:01	4*01:03			*02:02				*11:01	*17:01	SSP SSO SBT NGS RT-PCR	

Table 16. Individual laboratory results for Cell #1659- Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSP SSO	
725	*66	*68	*14	*53	*06	*08							SSO	
731	*66	*68	*14	*53	*06	*08	*66:01:01	*68:02:01G	*14:02:01	*53:01:01	*06:02:01G	*08:02:01	SSP SSO SBT	
745							*66:01:01:01	*68:02:01:01	*14:02:01:01	*53:01:01:01	*06:02:01:01	*08:02:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	NGS	
771	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSO SBT	
774	*66	*68	*14	*53	*06	*08			*14:02	*53:01			SSP SSO	B*14:39 B*53:32 B*53:37 B*14:64
3186	*66	*68	*14	*53	*06	*08							SSO	B*14:67 B*53:37 B*53:51 B*53:54
														C*06:83 C*06:213 A*68:163 C*06:214 C*06:227 C*06:228 C*06:236 C*06:239 C*06:244 B*14:67 B*53:51 B*53:54 C*06:255 C*06:261 C*06:266 C*08:200 A*68:198 A*68:216N B*14:64 C*06:273 C*06:274 C*06:276 C*06:277 C*06:278 C*06:279 C*08:179 C*08:195
3545	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSO SBT	
3632	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSP SSO	
3808	*66	*68	*14	*53	*06	*08		*68:02	*14:02	*53:01			SSO	
4079	NT												SSP NGS	
4251	*66	*68	*14	*53	*06	*08	*66:01	*68:02:01G	*14:02:01G	*53:01:01G	*06:02:01G	*08:02:01G	SSO SBT	
5133							*66:01:01:01	*68:02:01:01	*14:02:01:01	*53:01:01:01	*06:02:01:01	*08:02:01	NGS	
5214	*66	*68	*14(B65)	*53	*06	*08							RT-PCR	
5462	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01P	*06:02	*08:02	SSO NGS	B*53:54
5642	*66	*68	*14	*53	*06	*08								
6649	*66	*68	*14	*53									SSO	
8001	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSP SSO NGS	
8043	*66	*68	*14	*53	*06	*08	*66:01	*68:02	*14:02	*53:01	*06:02	*08:02	SSP SSO	
8103	*66	*68	*14	*53	*06	*08							SSP SSO	
													SSP SSO SBT	
8119	*66	*68	*14	*53	*06	*08							NGS RT-PCR	

Table 17a: Individual laboratory results for Cell #1659 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*13	*13	3*01	3*03	*01	*05	*03	*06	*01	*02	*04(DP401)	*131	SSO	
3545	*13	*13											SSO SBT	
3632	*13	*13	3*01	3*03	*01	*05	*03	*06	*01	*02	*04	*17	SSP SSO	
3808	*13	*13			*01	*05	*03	*06	*01	*02	*04(DP401)	*17	SSO	
5462	*13	*13	3*01	3*03	*01	*05	*03	*06	*01	*02	NT	NT	SSO NGS	
8001	*13	*13	3*01	3*03	*01	*05	*03	*06					SSP SSO NGS	
8103	*13	*13	3*01	3*03	*01	*05	*03	*06					SSP SSO	
													SSP SSO SBT	
8119	*13						*03	*06					NGS RT-PCR	

Table 17b: Individual laboratory results for Cell #1659- Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*13:02:01	*13:03:01					*03:01:01	*06:04:01			*04:01:01	*131:01	SSP SBT NGS	
3545	*13:02	*13:03											SSO SBT	
3632	*13:02	*13:03	3*01:01	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*02:01	*04:01	*17:01P	SSP SSO	
3808	*13:02	*13:03			*01:02	*05:05	*03:01	*06:04	*01:03	*02:01		*17:01:01G	SSO	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP NGS	
5462	*13:02	*13:03	3*01:01P	3*03:01	*01:02	*05:05	*03:01	*06:04	*01:03	*02:01	*04:01	*131:01	SSO NGS	DRB3*01:62
8001	*13:02	*13:03	3*01:01	3*03:01	*01:02	*05:05	*03:01	*06:04			*04:01	*131:01	SSP SSO NGS	DPB1*939:01N
													SSP SSO SBT	
8119			3*01:01	3*03:01									NGS RT-PCR	

Table 18. Individual laboratory results for Cell #1660- Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSP SSO	
725	*23	*34	*51	*57	*04	*18							SSO	
731	*23	*34	*51	*57	*04	*18	*23:01:01G	*34:01:01	*51:01:02	*57:02:01	*04:01:01G	*18:02	SSP SSO SBT	
745							*23:01:01:01	*34:01:01:01	*51:01:02:01	*57:02:01	*04:01:01	*18:02:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	NGS	
771	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSO SBT	
774	*23	*34	*51	*57	*04	*18			*51:01	*57:02			SSP SSO	
3186	*23	*34	*51	*57	*04	*18							SSO	
														C*04:30 C*04:82 C*04:226 C*04:275 C*04:330 C*04:339 C*04:348 C*04:358 A*23:17 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 C*04:322 C*04:327 C*18:02 A*23:91N A*23:93 A*34:18 C*04:375 C*04:395 C*04:397 C*04:398 C*18:11 C*04:380 C*04:388 C*04:390 C*04:391 C*04:394
3545	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:01	SSO SBT	
3632	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSP SSO	
3808	*23	*34	*51	*57	*04	*18				*57:02			SSO	
4079							*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSP NGS	
4251	*23	*34	*51	*57	*04	*18	*23:01:01G	*34:01:01G	*51:01	*57:02	*04:01P	*18:01:01G	SSO SBT	
5133							*23:01:01:01	*34:01:01:01	*51:01:02:01	*57:02:01	*04:01:01	*18:02:01:01	NGS	
5214	*23	*24	*51	*57	*04	*18							RT-PCR	
5462	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSO NGS	
5642	*23	*34	*51	*57	*04	*18								
6649	*23	*34	*51	*57									SSO	
8001	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSP SSO NGS	
8043	*23	*34	*51	*57	*04	*18	*23:01	*34:01	*51:01	*57:02	*04:01	*18:02	SSP SSO	
8103	*23	*34	*51	*57	*04	*18							SSP SSO	
													SSP SSO SBT	
8119							*23:01	*34:01:01	*51:01:02	*57:02:01	*04:01	*18:02	NGS RT-PCR	

Table 19a: Individual laboratory results for Cell #1660 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*04	*04	4*01	4*01	*03	*03	*03	*04	*02	*02	*01	*01	SSO	
3545	*04												SSO SBT	
3632	*04		4*01		*03		*03	*04	*02	*02	*01		SSP SSO	
3808	*04	*04			*03	*03	*03	*04	*02	*02	*01	*01	SSO	
5462	*04		4*01		*03		*03	*04	*02	*02	NT	NT	SSO NGS	
8001	*04		4*01		*03		*03	*04					SSP SSO NGS	
8103	*04	*04	4*01	4*01	*03	*03	*03	*04					SSP SSO	
													SSP SSO SBT	
8119					*03								NGS RT-PCR	

Table 19b: Individual laboratory results for Cell #1660 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
745	*04:05:01						*03:02:01	*04:01:01			*01:01:01	*01:01:02	SSP SBT NGS	
3632	*04:05		4*01:03		*03:03		*03:02	*04:01	*02:01	*02:02	*01:01		SSP SSO	
3808	*04:05	*04:05					*03:02	*04:01			*01:01	*01:01	SSO	
4079	*04:05		4*01:03		*03:03		*03:02	*04:01	*02:01	*02:02	*01:01		SSP NGS	
5462	*04:05		4*01:03		*03:03		*03:02	*04:01	*02:01	*02:02	*01:01	*01:01	SSO NGS	
8001	*04:05		4*01:03		*03:03		*03:02	*04:01			*01:01		SSP SSO NGS	
													SSP SSO SBT	
8119	*04:05		4*01:03		*03:02			*04:01			*01:01		NGS RT-PCR	

Table 20. Individual laboratory results for Cell #1657-1660 by serology

Investigator	Days Old	Viab %	Cell No 1657 (Hispanic)								Cell No 1658 (Hispanic)							Cell No 1659 (Mixed)							Cell No 1660 (Filipino)											
			A25	A68	B61	B44	Cw3	Bw4	Bw6	OTHERS	Viab %	A26	A30	B13	B38	Cw6	Bw4	OTHERS	Viab %	A66	A68	B65	B53	Cw6	Cw8	Bw4	Bw6	OTHERS	Viab %	A23	A34	B51	B57	Cw4	Bw4	OTHERS
Cecka, J. Mic	3	>95	+	+	+	+		+	+		>95	+	+	+	+	+		>95	+	+	+	+				+	+		>95	+	+	+	+		+	
Fort, Marylis	3	NT									97	+	+	+	+	+		NT										95	+	+	+	+		+		
Loewenthal ,	6	NT									NT							NT										NT								
Meyer, Pieter		80	+	A28	B40	+	+	+	+		80	+	A10	+	+	+	+	80	A10	A28	B14			+		+		75	+	+	B5	B17	+	+		
Permpikul, Ve	7	0									0							0										0								
Shai, Isaac	8	84	+	A26	B48	+	+	+	+	A31	82	+	+	+	+	+	+	82	A26	A28	B14	+	Cw3	Cw5	+	+		84	+	A43	+	+	+	+		
Stylianou, Ca			+	+	+	+		+	+			+	+	+	+	+			A10	+	+	+			+	+			+	+	+	+		+		
Villard, Jean	6	90	+	+	B40	+		+	+		90	+	+	+	+	+		NT										NT								
Walsh, Lisa	3	98	+	+	B40	+		+	+		98	+	+	+	+	+		0										0								