

REPORT OF THE 389th CELL EXCHANGE NOVEMBER 24, 2015

B-cell Lines	519-520
Cells	1553-1556
Serum	1181-1184

B-cell Line Exchange #260

The results for B-cell Line Exchange #260 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We would like to express our appreciation to **Helen Bass, Jane Row-**

lands, and Tracy Rees, Welsh Blood Service, Pontyclun, for sharing the valuable reference cells studied in our exchanges.

Ter-519. The reported type for this sample from a Chinese donor was DRB1*07:01-DRB1*08:09-DRB4*01:03-DQA1*02:01-DQA1*04:01-DQB1*02:02-DQB1*04:02-DPA1*02:02-DPB1*05:01-DPB1*19:01-A*02:03-A*33:44-B*38:02-B*44:03-C*07:02-C*07:06. Data from family studies revealed the haplotypes in this study to be DRB1*07:01-DQA1*02:01-DQB1*02:02-DPB1*19:01-A*33:44-B*44:03-C*07:06 and DRB1*08:09-DQA1*04:01-DQB1*04:02-DPB1*05:01-A*02:03-B*38:02-C*07:02. The association of DRB1*08:09-DQA1*04:01-DQB1*04:02 in this cell was also observed in, JB44585, the reference cell for DRB1*08:09 (1).

This cell was previously typed as Ter 416 (2008), as astutely noted by Kvam and Tiercy. In this present retyping, DRB1*08:09 was assigned by 95% of labs reporting at high resolution, an increase from a detection level of 87% in 2008. The second DRB1 type was reported as DRB1*07:01 (100%), with 6 labs assigning DRB1*07:01:01. This remains the only DRB1*08:09 cell typed in the exchange. Hartzman and Hurley noted the presence of a possible new DPA1 allele, observing that the new allele differs from DPA1*02:02:01 by 3 nucleotide changes in exon 3 "at nt 364 where G->A (cd91 GTG->ATG) resulting in a coding change, 91V->M, at nt 474 where A->G (cd127 CCA->CCG) resulting in a silent mutation, 127P->P, and at nt 555 where A->G (cd154 GTA->GTG), resulting in a silent mutation, 154V does not change."

This cell was also previously typed for class I as extract #561 (2012). The assignment of A*33:44 (71%) in this current study was similar to its assignment in 2012, in which 74% of the labs assigned A*33:44. A*33:03 was reported by 4 labs and 2 other labs assigned A*33:01. A*33:44 is most simi-

lar to A*33:03:01, with the only difference observed in exon 4, in which a single nucleotide substitution at codon 265 (GGT → GAT) results in an amino acid change from glycine to aspartic acid (2). A*02:03 (100%) was reported as the second A-locus type, with 5 labs assigning A*02:03:01.

Ter-520. The reported type for this sample from a Caucasian donor is DRB1*01:01-DRB1*07:01-DRB4*01:03:01:02N-DQA1*01:01-DQA1*02:01-DQB1*03:03-DQB1*05:01-DPA1*01:03-DPB1*04:01-A*01:01:38L-A*02:01-B*15:17-B*57:01-C*06:02-C*07:01. One likely association in this cell is DRB1*07:01-B4*01:03:01:02N-DQA1*02:01-DQB1*03:03, observed in Ter 451 and Ter 448 (same as Ter 344, Ter 282, and Ter 218). The other likely association is DRB1*01:01-DQA1*01:01-DQB1*05:01, observed in a number of previous exchange cells, most recently Ter 497 (same as Ter 387) and Ter 492 (same as Ter 342 and Ter 264).

The presence of a DRB4 null allele was detected in this sample, with labs assigning DRB4*01:03:01:02N (42%) and DRB4*01:03N (54%). DRB1*01:01 and DRB1*07:01 were reported in complete consensus. DRB1*01:01:01 was assigned by 7 labs and 6 labs assigned DRB1*07:01:01.

This cell is the reference cell for A*01:01:38L, known as 37935. It was previously typed for class I as extract 445 (2009) and extract 574 (2013). In this present retyping, A*01:01:38L was assigned by 35% of labs reporting at high resolution. A*01:01 was reported by 60%, and 1 lab assigned A*01:01P. A*02:01 (100%) was reported as the second A-locus type, with 3 labs reporting A*02:01:01:01. B*15:17 (96%) and B*57:01 (100%) were the B-locus types. B*15:17:01:01 was reported by 3 labs and 4 labs reported B*57:01:01.

References:

1. Kashiwase, K, Tokunaga, K, Lin, L, Sugahara, et al. A new HLA-DR8 subtype showing unusual serological reaction and the confirmatory sequence of DRB1*0809. *Tissue Antigens* 1995;46: 340-342.
2. Ye, X, Ding H, Huang, YF, et al. HLA-A*33:44: a new allele identified by sequence-based typing in a Chinese blood donor. *Tissue Antigens* 2013;82:134-153.

Table 1: Summary of the 260th B-cell Line Exchange

Ter-519

DNA Typing - class II		37 labs High; 38 labs low-DRB1		21 labs High; 28 labs Low-DRB4		23 labs High; 24 labs Low-DQA1		33 High Labs; 37 labs Low-DQB1		13 High Labs; 17 labs Low-DPA1		29 High Labs; 16 labs Low-DPB1						
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
DNA Typing - class II	DRB1*07:01:01:01	3	(1)	DRB4*01:03:01:01	5	(1)	DQA1*02:01	100	(23)	DQB1*02:02:01	15	(5)	DPA1*02:02:02	8	(1)	DPB1*05:01:01G	21	(6)
	DRB1*07:01:01	13	(5)	DRB4*01:03	85	(18)	DQA1*02	100	(24)	DQB1*02:02	82	(27)	DPA1*02:02	84	(11)	DPB1*05:01:01	14	(4)
	DRB1*07:01:01G	3	(1)	DRB4*01:01/03+	5	(1)				<i>DQB1*02:12</i>	3	(1)	<i>DPA1*02:05</i>	8	(1)	DPB1*05:01	65	(19)
	DRB1*07:01	81	(30)	<i>DRB4*01:01</i>	5	(1)				DQB1*02	100	(37)	DPA1*02	100	(17)	DPB1*05(*05:01P)	12	(2)
	DRB1*07	100	(38)	DRB4*01	71	(20)										DPB1*05	88	(14)
				DRB4*PRESENT	29	(8)												
Serology - class II		2 LABS - DR		3 LABS - DRX		2 LABS - DQ												
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
DNA Typing - class I		DR7	100	(2)	DR53	100	(3)	DQ2	100	(2)								
		DR8	100	(2)					DQ4	100	(2)							
DNA Typing - class I		21 labs High; 27 labs low- A		21 labs High; 26 labs low- B		20 labs High; 27 labs low- C												
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
DNA Typing - class I		A*02:03:01	24	(5)	B*38:02:01	24	(5)	C*07:02:01:01	10	(2)								
		A*02:03	76	(16)	B*38:02	71	(15)	C*07:02:01	10	(2)								
		A*02	100	(27)	<i>B*38:44</i>	5	(1)	C*07:02:01G	10	(2)								
					B*38	100	(26)	C*07:02	70	(14)								
								C*07	100	(27)								
DNA Typing - class I		21 labs High; 27 labs low- A		21 labs High; 26 labs low- B		20 labs High; 28 labs low- C												
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)					
DNA Typing - class I		A*33:44	71	(15)	B*44:03:02	24	(5)	C*07:01:01G	10	(2)								
		A*33:03	19	(4)	B*44:03P	5	(1)	C*07:06	65	(13)								
		A*33:01	10	(2)	B*44:03	71	(15)	C*07:01/06+	10	(2)								
		A*33	100	(27)	B*44	100	(26)	C*07:01	10	(2)								
								<i>C*07:02</i>	5	(1)								

Table 2: Summary of the 260th B-cell Line Exchange

Ter-520

DNA Typing - class II	37 labs High: 37	
	labs low-DRB1	%(n)
	DRB1*01:01:01	19(7)
	DRB1*01:01:01G	3 (1)
	DRB1*01:01	78(29)
	DRB1*01	100(37)
37 labs High: 36		
labs low-DRB1	%(n)	
DRB1*07:01:01:01	3 (1)	
DRB1*07:01:01	14(5)	
DRB1*07:01:01G	5 (2)	
DRB1*07:01	78(29)	
DRB1*07	100(37)	

26 labs High: 25	
labs Low-DRB4	%(n)
DRB4*01:03:01:02N	42(11)
DRB4*01:03N	54(14)
DRB4*01:03	4 (1)
DRB4*01N	48(12)
DRB4*01	24(6)
DRB4*NULL	8 (2)
DRB4*PRESENT	20(5)

20 labs High: 24	
labs Low-DQA1	%(n)
DQA1*01:01:01	5 (1)
DQA1*01:01:01G	5 (1)
DQA1*01:01	85(17)
DQA1*05:05	5 (1)
DQA1*01	100(24)

34 High Labs: 36	
labs Low-DQB1	%(n)
DQB1*03:03:02:01	9 (3)
DQB1*03:03:02	9 (3)
DQB1*03:03	79(27)
DQB1*03:01	3 (1)
DQB1*03(DQ9)	8 (3)
DQB1*03	92(33)

13 High Labs: 17	
labs Low-DPA1	%(n)
DPA1*01:03:01	8 (1)
DPA1*01:03	92(12)
DPA1*01	100(17)

29 High Labs: 15	
labs Low-DPB1	%(n)
DPB1*04:01:01:01	3 (1)
DPB1*04:01:01	10(3)
DPB1*04:01:01G	10(3)
DPB1*04:01	76(22)
DPB1*04(DP401)	47(7)
DPB1*04	53(8)

Serology - class II	3 LABS- DR	
	DR1	100(3)
	DR7	100(3)

3 LABS - DQ	
DQ1	100(3)
DQ9	67(2)

DNA Typing - class I	20 labs High: 27	
	labs low- A	%(n)
	A*01:01:38L	35(7)
	A*01:01P	5 (1)
	A*01:01	60(12)
	A*01	100(27)
20 labs High: 27		
labs low- A	%(n)	
A*02:01:01:01	15(3)	
A*02:01:01G	5 (1)	
A*02:01P	5 (1)	
A*02:01	75(15)	
A*02	100(27)	

24 labs High: 27	
labs low- B	%(n)
B*15:17:01:01	13(3)
B*15:17:01	4 (1)
B*15:17	79(19)
B*57:22	4 (1)
B*15(B63)	7(2)
B*15	93(25)

20 labs High: 27	
labs low- C	%(n)
C*06:02:01:01	10(2)
C*06:02:01	5 (1)
C*06:02:01G	5 (1)
C*06:02P	5 (1)
C*06:02	75(15)
C*06	96(26)
C*02	4 (1)

Table 3a: Individual laboratory results for B-cell #519-Class II

		Low resolution												
Center	Investigator	DRB1		DRB4	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon			4*01									SSP SSO SBT	
4691	Al Ajlan , Abdulaziz						*02	*04					SSO	
5133	Askar , Medhat	*07	*08	4*01	*02	*04	*02	*04	*02			*19	SSO SBT	
774	Cecka , J. Michael	*07	*08	4*01	*02	*04	*02	*04	*02		*05	*19	SSP SSO	
3224	Chen , Dong-Feng	*07	*08	4*01	*02	*04	*02	*04	*02		*05	*19	SSO SBT OTHER	
3632	Colombe , Beth W.	*07	*08	4*01	NT	NT	*02	*04	*02		NT	NT	SSP SSO	
5130	Costeas , Paul A.	*07	*08				*02	*04					SSP SSO	
779	Daniel , Claude	*07	*08	4*01	*02	*04	*02	*04	*02		*05	*19	SSP SSO	
5219	Daniel , Dolly	*07	*08				*02	*04						
1108	DeConinck , Martha	*07	*08	4*01	*02	*04	*02	*04	*02	*02			SSO	
3766	Dunckley , Heather	*07	*08	4*01	*02	*04	*02	*04	*02		*05	*19	SSP SSO OTHER	
5214	Eckels/CPMC ,	*07	*08	4*01	*02	*04	*02	*04	*02		*05 (*05:01P)	*19	SSO	
4079	Fort , Marylise	*07	*08				*02	*04					SSP SSO	
792	Gandhi , Manish	*07	*08	4*01	*02	*04	*02	*04	*02	*02	*05	*19	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*07	*08		*02	*04	*02	*04						
910	Hahn , Amy B.	*07	*08	4*PRESENT			*02	*04						
1694	Hesse , Nicole	*07	*08	4*PRESENT			*02	*04					SSP	
8043	Hod , Reut	*07	*08		*02	*04	*02	*04					SSP SSO	
771	Israel , Shoshana	*07	*08				*02	*04					SSP SSO	
794	Jaatinen , Taina	*07	*08	4*01	*02	*04	*02	*04	*02	*02	*05	*19	SSP SSO SBT OTHER	
2847	Kihara , Masaaki	*07	*08										SSO	
87	Land , Geoffrey A.	*07	*08	4*01	*02	*04	*02	*04	*02	*02	*05	*19	SSP	
725	Lardy , N.M.	*07	*08	4*PRESENT	*02	*04	*02	*04					SSP SSO	
278	Lee , Jar-How	*07	*08	4*01	*02	*04	*02	*04	*02	*02	*05	*19		
6649	Lim , Young Ae	*07	*08	4*PRESENT									SSP	
759	Lopez-Cepero , May	*07	*08	4*01	*02	*04	*02	*04	*02		*05 (*05:01P)	*19(*19:01P)	SSP	
206	McAlack-Hanau ,	*07	*08	4*01	*02	*06	*02	*04	*02		*05	*19	SSO	
8042	Muncher , Liora	*07	*08	4*01	NT	NT	*02	*04	NT	NT	NT	NT	SSP SSO	
54	Pancoska , Carol	*07	*08	4*01	*02	*04	*02	*04	*02		*05	*19	SSO	
2400	Phelan , Donna L.	*07	*08	4*PRESENT	*02	*04	*02	*04			*05	*19	SSP SSO SBT	
8001	Rao , Prakash				*02	*04							SSP SSO	
3519	Renac , Virginie	*07	*08				*02	*04			*05	*19	SSP SBT	
1160	Rosen-Bronson , Sa	*07	*08	4*01	*02	*04	*02	*04	*02				SSO SBT	
793	Rubocki , Ronald	*07	*08	4*PRESENT	*02	*04	*02	*04					SSP	
4251	Schiller , Jennifer	*07	*08	4*01	*02	*04	*02	*04	*02	*02	*05	*19	SSO SBT	
8068	Shanmugam , Hem	*07	*08		*02	*04	*02	*04					SSO	
8029	Tarigopula , Anil	*07	*08				*02	*04					SSO	
747	Tiercy , Jean-Marie	*07	*08	4*01	*02	*04	*02	*04			*05	*19	SSP SSO SBT	
5451	Tilanus , Marcel G.	*07	*08	4*PRESENT			*02	*04					SSP SBT	
5642	Varnavidou-Nicolaïd	*07	*08	4*PRESENT			*02	*04					SSP	
8052	Yanina Marcos , Cir	*07	*08				*02	*04					SSO	

Table 3b: Individual laboratory results for B-cell #519-Class II									
Serology									
CTR	DIRNAME	DR7	DR8	DR53		DQ2	DQ4	OTH1	OTH2
4492	Charron,D.			+					
910	Hahn,Amy B.	+	+	+		+	+		
4908	Kvam,Vonnett	+	+	+		+	+		

Table 4: Individual laboratory results for B-cell #519-Class II

Center	Investigator	Intermediate/High resolution											METHOD	Other Alleles	
		DRB1		DRB4		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon	*07:01:01	*08:09			*02:01	*04:01	*02:02:01	*04:02:01			*05:01:01	*19:01	SSP SSO SBT	
4691	Al Ajlan , Abdulaziz	*07:01	*08:09											SSO	
5462	Arnold , Paula	*07:01	*08:09	4*01:03	NP	NT	NT	*02:02	*04:02	NT	NT	*05:01	*19:01	SSP SSO SBT	
5133	Askar , Medhat	*07:01	*08:09			*02:01	*04:01			*02:02		*05:01:01G	*19:01	SSO SBT	DRB1*07:31/07:33/ 07:34/07:35, DPB1*223:01/226:0 1/300:01/317:01/39 5:01
774	Cecka , J. Michael	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02	*02:02		*05:01	*19:01	SSP SSO	DRB1*07:31/07:33/ 07:34, DQB1*02:12, DQB1*04:13/04:23
8070	Chang , Uckjin	*07:01	*08:09											SBT	
9916	Charlton , Ronald K	*07:01:01	*08:09	4*01:03				*02:02:01	*04:02:01			*05:01:01	*19:01	SSP SBT	DRB4*01:09
4492	Charron , Dominique	*07:01:01	*08:09	4*01:03		*02:01	*04:01	*02:02:01	*04:02:01	*02:02		*05:01:01	*19:01	SSP SSO SBT	
3224	Chen , Dong-Feng	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02	*02:02		*05:01	*19:01	SSO SBT	
8021	Clark , Brendan	*07:01	*08:09	4*01:03	4*01:01	*02:01	*04:01	*02:02	*04:02			*05:01	*19:01	OTHER	
3632	Colombe , Beth W.	*07:01	*08:09	4*01:03				*02:02	*04:02	*02:02				SSP SSO	
5130	Costeas , Paul A.	*07:01	*08:02/09	4*01:03		*02:01	*04:01	*02:02	*04:02					SSP SSO	
779	Daniel , Claude		*08:09			*02:01	*04:01			*02:02		*05:01:01G	*19:01	SSP SSO	
3766	Dunckley , Heather											*05:01	*19:01	SSP SSO	
3135	Enczmann , J	*07:01	*08:09	4*01:03				*02:02	*04:02			*05:01:01G	*19:01	OTHER	DPB1*135:01
762	Fischer , Gottfried	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02			*05:01	*19:01	SSP SSO SBT	DRB1*07:34, DRB1*08:21, DQB1*04:13, DPB1*135:01
4079	Fort , Marylise	*07:01	*08:09					*02:02	*04:02			*05:01	*19:01	SSP SSO	DPB1*135:01/223:0 1/226:01/300:01/31 7:01
792	Gandhi , Manish	*07:01	*08:09			*02:01	*04:01	*02:02	*04:02			*05:01	*19:01	SSP SSO SBT	
810	Hamdi , Nuha	*07:01	*08:09	4*01:01	4*01:01	*02:01	*04:01	*02:02	*04:02					SSO	
8043	Hod , Reut	*07:01	*08:09			*02:01	*04:01	*02:02	*04:02	*02:02		*05:01	*19:01	SSP SSO	
2344	Hurley , Hartzman&	*07:01:01:01	*08:09	4*01:03:01:01		*02:01	*04:01:01	*02:02:01	*04:02:01	*02:02:02	*02:02	*05:01:01	*19:01	OTHER	DRB1*07:01:01:02, DPB1*135:01, DRB4*01:03:01:03
771	Israel , Shoshana	*07:01	*08:09					*02:02	*04:02					SSP SSO	
794	Jaatinen , Taina	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02	*02:02	*02:02	*05:01	*19:01	SSP SSO SBT	
4337	Kim , Tai-Gyu	*07:01	*08:09					*02:02	*04:02			*05:01	*19:01	OTHER	DPB1*135:01
278	Lee , Jar-How	*07:01	*08:09	4*01:03	NT	*02:01	*04:01	*02:02	*04:02	*02:02	*02:02	*05:01	*19:01	SBT	
274	Lo , Raymundo W.	*07:01	*08:04			*02:01	*04:01	*02:12	*04:11	*02:05	*02:05	*05:01	*19:01	OTHER	
731	Loewenthal , Ron	*07:01:01	*08:09					*02:02	*04:02:01					SSP SSO SBT	

Table 4: Individual laboratory results for B-cell #519-Class II															
Center	Investigator	Intermediate/High resolution											METHOD	Other Alleles	
		DRB1		DRB4		DQA1		DQB1		DPA1		DPB1			
8042	Muncher , Liora	*07:01	*08:09	4*01:03	4*01:03	NT	NT	*02:02	*04:02	NT	NT	NT	NT	SSP SSO	
3966	Permpikul , Vejbaes	*07:01	*08:09	4*01:03				*02:02	*04:02					SSP	
2400	Phelan , Donna L.	*07:01	*08:09			*02:01	*04:01	*02:02	*04:02			*05:01:01G	*19:01:01G	SSP SSO SBT	
8001	Rao , Prakash	*07:01	*08:09	4*01:03	NP			*02:02	*04:02			*05:01	*19:01	SSP SSO	
3753	Reed , Elaine F.	*07:01	*08:09	4*01:01/03+		*02:01	*04:01	*02:02	*04:02	*02:02		*05:01	*19:01	SSO SBT	DQB1*02:01, DPB1*135:01/223:0 1/226:01/300:01/31 7:01
3519	Renac , Virginie	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02			*05:01	*19:01	SSP SBT	DRB1*07:34, DQB1*02:01:15, DQB1*04:02:03
1160	Rosen-Bronson , Sa	*07:01	*08:09			*02:01	*04:01	*02:02	*04:02	*02:02		*05:01	*19:01	SSO SBT	
793	Rubocki , Ronald											*05:01:01G	*19:01	SSP	
4251	Schiller , Jennifer	*07:01:01G	*08:09					*02:02	*04:02			*05:01:01G	*19:01:01G	SSO SBT	
747	Tiercy , Jean-Marie	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02:01	*04:02:01			*05:01	*19:01	SSP SSO SBT	
5451	Tilanus , Marcel G.J	*07:01:01	*08:09											SSP SBT	
5642	Varnavidou-Nicolaic	*07:01	*08:09					*02:02	*04:02					SSP	
8052	Yanina Marcos , Cir		*08:09			*02:01	*04:01								
3511	Zeevi , Adriana	*07:01	*08:09	4*01:03		*02:01	*04:01	*02:02	*04:02			*05:01	*19:01	SSP SSO	

Table 5: Individual laboratory results for B-cell #519-Class I

Center	Investigator	Low Resolution						Intermediate/High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon					*07	*07	*02:03:01	*33:44	*38:02:01	*44:03:02			SSP SSO SBT	
4691	Al Ajlan , Abdulaziz	*02	*33	*38	*44	*07	*07							SSO	
5462	Arnold , Paula							*02:03	*33:44	*38:02	*44:03	*07:02	*07:06	SSP SSO SBT	
5133	Askar, Medhat	*02	*33	*38	*44	*07		*02:03:01	*33:44	*38:02:01	*44:03:02	*07:02:01	*07:06	SSO SBT	
774	Cecka , J. Michael	*02	*33	*38	*44	*07								SSP SSO	
9916	Charlton , Ronald K							*02:03:01	*33:44	*38:02:01	*44:03:02	*07:02:01	*07:06	SSP SBT	
4492	Charron , Dominique							*02:03:01	*33:44	*38:02:01	*44:03:02	*07:02:01:01	*07:06	SSP SSO SBT	
3224	Chen , Dong-Feng	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03	*07:02	*07:06	SSO SBT OTHER	
8021	Clark , Brendan							*02:03	*33:01	*38:02	*44:03	*07:02	*07:01	SSP SSO	
5130	Costeas , Paul A.	*02	*33	*38	*44	*07		*02:03	*33:03	*38:02	*44:03	*07:02	*07:06	SSP SSO	
779	Daniel , Claude	*02	*33	*38	*44	*07	*07							SSP SSO	
5219	Daniel , Dolly	*02	*33	*38	*44	*07	*07								
1108	DeConinck , Martha	*02	*33	*38	*44	*07	*07							SSO	
3766	Dunckley , Heather	*02	*33	*38	*44	*07	*07							SSP SSO OTHER	
5214	Eckels/CPMC ,	*02	*33	*38	*44	*07								SSO	
3135	Enczmann , J							*02:03	*33:03	*38:02	*44:03	*07:02	*07:01/06+	SSP SSO SBT	
792	Gandhi , Manish	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03P	*07:02	*07:06	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*02	*33			*02	*04								
810	Hamdi , Nuha							*02:03	*33:03	*38:02	*44:03	*07:02	*07:02	SSO	
1694	Hesse , Nicole	*02	*33	*38	*44	*07								SSP	
2344	Hurley , Hartzman&							*02:03:01	*33:44	*38:02:01	*44:03:02	*07:02:01:01	*07:06	OTHER	
794	Jaatinen , Taina	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03	*07:02	*07:06	SSP SSO SBT OTHER	
2847	Kihara , Masaaki	*02	*33	*38	*44	*07								SSO	
4337	Kim , Tai-Gyu							*02:03	*33:44	*38:02	*44:03	*07:02	*07:06	SBT	
87	Land , Geoffrey A.	*02	*33	*38	*44	*07	*07							SSP	
725	Lardy , N.M.													SSP SSO	
278	Lee , Jar-How	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03	*07:02	*07:06		
6649	Lim , Young Ae													SSP	
274	Lo , Raymundo W.							*02:03	*33:01	*38:44	*44:03	*07:02	*07:01	OTHER	
206	McAlack-Hanau ,	*02	*33	*38	*44	*07	*07							SSO	
8042	Muncher , Liora	*02	*33	*38	*44	*07	*07	*02:03	*33:03	*38:02	*44:03	*07:02	*07:06	SSP SSO	
54	Pancoska , Carol	*02	*33	*38	*44	*07								SSO	
3966	Permpikul , Vejbaes	*02	*33	*38	*44	*07	*07							SSP	
2400	Phelan , Donna L.	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03	*07:02:01G	*07:01:01G	SSP SSO SBT	
3753	Reed , Elaine F.							*02:03	*33:44	*38:02	*44:03	*07:02	*07:01/06+	SSO SBT	C*07:27/07:50/07:349
3519	Renac , Virginie	*02	*33	*38	*44	*07		*02:03	*33:44	*38:02	*44:03	*07:02	*07:06	SSP SBT	
4251	Schiller , Jennifer	*02	*33	*38	*44	*07	*07	*02:03	*33:44	*38:02	*44:03	*07:02:01G	*07:01:01G	SSO SBT	
8068	Shanmugam , Hem	*02	*33	*38	*44	*07	*07							SSO	
8029	Tarigopula , Anil	*02	*33	*38	*44	*07	*07							SSO	
8052	Yanina Marcos , Cir	*02	*33	*38	*44	*07	*07							SSO	

Table 6a: Individual laboratory results for B-cell #520-Class II														
Center	Investigator	Low resolution										METHOD	Other Alleles	
		DRB1		DRB4	DQA1		DQB1		DPA1		DPB1			
4691	Al Ajan , Abdulaziz						*03	*05						SSO
5133	Askar, Medhat	*01	*07	4*01N	*01	*02	*03	*05	*01					SSO SBT
774	Cecka , J. Michael	*01	*07	4*01	*01	*02	*03	*05	*01		*04			SSP SSO
3224	Chen , Dong-Feng	*01	*07	4*NULL	*01	*02	*03	*05	*01		*04(DP401)			SSO SBT OTHER
3632	Colombe , Beth W.	*01	*07	4*01	NT	NT	*03	*05	*01		NT	NT		SSP SSO
5130	Costeas , Paul A.	*01	*07				*03	*05						SSP SSO
779	Daniel , Claude	*01	*07	4*01	*01	*02	*03	*05	*01		*04(DP401)			SSP SSO
5219	Daniel , Dolly	*01	*07				*03	*05						
1108	DeConinck , Martha	*01	*07	4*01	*01	*02	*03	*05	*01	*01				SSO
3766	Dunckley , Heather	*01	*07	4*01N	*01	*02	*03	*05	*01		*04(DP401)			SSP SSO OTHER
5214	Eckels/CPMC ,	*01	*07	4*01N	*01	*02	*03(DQ9)	*05	*01		*04(DP401)			SSO
4079	Fort , Marylise	*01	*07				*03	*05						SSP SSO
792	Gandhi , Manish	*01	*07	4*01N	*01	*02	*03	*05	*01	*01	*04	*04		SSP SSO SBT
8087	Guerra , Q.F.B. Elb	*01	*07		*01	*02	*03	*05						
910	Hahn , Amy B.	*01	*07	4*01N			*03	*05						
1694	Hesse , Nicole	*01	*07	4*PRESENT			*03	*05						SSP
8043	Hod , Reut	*01	*07				*03	*05						SSP SSO
771	Israel , Shoshana	*01	*07				*03	*05						SSP SSO
794	Jaatinen , Taina	*01	*07	4*01N	*01	*02	*03	*05	*01	*01	*04	*04		SSP SSO SBT OTHER
2847	Kihara , Masaaki	*01	*07											SSO
87	Land , Geoffrey A.	*01	*07	4*01N	*01	*02	*03(DQ9)	*05	*01	*01	*04(DP401)	04(DP401)		SSP
725	Lardy , N.M.	*01	*07	4*PRESENT	*01	*02	*03	*05						SSP SSO
278	Lee , Jar-How	*01	*07	4*01	*01	*02	*03	*05	*01	*01	*04	*04		
6649	Lim , Young Ae	*01	*07	4*PRESENT										SSP
759	Lopez-Cepero , Ma	*01	*07	4*01N	*01	*02	*03(DQ9)	*05	*01		*04(DP401)			SSP
206	McAlack-Hanau ,	*01	*07	4*01N	*01	*02	*03	*05	*01		*04			SSO
8042	Muncher , Liora	*01	*07	4*01	NT	NT	*03	*05	NT	NT	NT	NT		SSP SSO
54	Pancoska , Carol	*01	*07	4*01N	*01	*02	*03	*05	*01		*04			SSO
2400	Phelan , Donna L.	*01	*07	4*PRESENT	*01	*02	*03	*05			*04			SSP SSO SBT
8001	Rao , Prakash				*01	*02								SSP SSO
3519	Renac , Virginie	NT	NT				NT	NT			NT	NT		SSP SBT
1160	Rosen-Bronson , Sa	*01	*07		*01	*02	*03	*05	*01					SSO SBT
793	Rubocki , Ronald	*01	*07		*01	*02	*03	*05						SSP
4251	Schiller , Jennifer	*01	*07	4*01N	*01	*02	*03	*05	*01	*01	*04	*04		SSO SBT
8068	Shanmugam , Hem	*01	*07		*01	*02	*03	*05						SSO
8029	Tarigopula , Anil	*01	*07				*03	*05						SSO
747	Tiercy , Jean-Marie	*01	*07	4*01N	*01	*02	*03	*05			*04(DP401)			SSP SSO SBT
5451	Tilanus , Marcel G.	*01	*07	4*NULL			*03	*05						SSP SBT
5642	Varnavidou-Nicolaï	*01	*07	4*PRESENT			*03	*05						SSP
8052	Yanina Marcos , Cir	*01	*07		*01	*02	*03	*05						SSO

Table 6b: Individual laboratory results for B-cell #520-Class II								
Serology								
CTR	DIRNAME	DR1	DR7		DQ1	DQ9	OTH1	OTH2
4492	Charron,D.	+	+		+	DQ3	DR13	DR53
910	Hahn,Amy B.	+	+		+	+		
4908	Kvam,Vonnett	+	+		+	+		

Table 7: Individual laboratory results for B-cell #520-Class II

		High resolution										
Center	Investigator	DRB1	DRB4	DQA1		DQB1		DPA1	DPB1	METHOD	Other Alleles	
5488	Adams , Sharon	*01:01:01	*07:01:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01		*04:01:01	SSP SSO SBT	DQA1*01:12
4691	Al Aijan , Abdulaziz	*01:01	*07:01								SSO	
5462	Arnold , Paula	*01:01	*07:01	4*01:03N	NT	NT	*03:03	*05:01	NT	*04:01	SSP SSO SBT	
5133	Askar, Medhat	*01:01	*07:01	4*01:03N		*02:01			*01:03	*04:01:01G	SSO SBT	DRB1*01:50/01:62N/01:64/01:65/01:67, DRB1*07:31/07:33/07:34, DRB1*07:35, DPB1*215:01/216:01N/224:01/225:01/227:01/228:01/230:01/231:01/232:01/240:01/253:01/254:01/255:01/262:01/275:01/279:01/280:01/281:01/282:01/283:01/298:01/318:01/319:01 >
774	Cecka , J. Michael	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03	*04:01	SSP SSO	DRB1*01:50/01:62N, DRB1*07:31/07:33/07:34 , DQB1*03:31/03:33/03:34/03:39/03:86/03:87/03:88/03:89/03:91Q/03:96/03:97/03:98/03:99Q, DQB1*05:12/05:18/05:27/05:30/05:31/05:32/05:44/05:45
8070	Chang , Uckjin	*01:01	*07:01								SBT	
9916	Charlton , Ronald K	*01:01:01	*07:01:01	4*01:03:01:02N			*03:03:02	*05:01:01		*04:01:01	SSP SBT	
4492	Charron , Dominiqu	*01:01:01	*07:01:01	4*01:03:01:02N	*01:01	*02:01	*03:03:02:01	*05:01:01	*01:03	*04:01:01	SSP SSO SBT	DQA1*01:04/01:05/01:12
3224	Chen , Dong-Feng	*01:01:01	*07:01:01G	4*01:03:01:02N	*01:01:01G	*02:01	*03:03:02:01	*05:01:01	*01:03	*04:01	SSO SBT	OTHER
8021	Clark , Brendan	*01:01	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01		*04:01	SSP SSO	
3632	Colombe , Beth W.	*01:01	*07:01	4*01:03N			*03:03	*05:01	*01:03		SSP SSO	
5130	Costeas , Paul A.	*01:01	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01			SSP SSO	DRB1*07:13, DRB1*01:07
779	Daniel , Claude			4*01:03:01:02N	*01:01	*02:01	*03:03		*01:03	*04:01	SSP SSO	
3766	Dunckley , Heather					*02:01				*04:01	SSP SSO OTHER	
3135	Enczmann , J	*01:01	*07:01	4*01:03N			*03:03	*05:01		*04:01	SSP SSO SBT	
762	Fischer , Gottfried	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01		*04:01	SSP SSO SBT	DRB1*01:50/*01:67, DRB1*07:34
4079	Fort , Marylise	*01:01	*07:01				*03:03	*05:01		*04:01	SSP SSO	DQB1*05:49/*05:63, DPB1*215:01/*216:01N/*224:01/*225:01/*227:01/*230:01/*231:01/*232:01/*240:01/*253:01/*254:01/*255:01/*262:01/*275:01/*279:01/*280:01
792	Gandhi , Manish	*01:01	*07:01		*01:01	*02:01	*03:03	*05:01		*04:01	SSP SSO SBT	

Table 7: Individual laboratory results for B-cell #520-Class II

		High resolution										
Center	Investigator	DRB1	DRB4	DQA1		DQB1		DPA1	DPB1	METHOD	Other Alleles	
810	Hamdi , Nuha	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01			SSO	
8043	Hod , Reut	*01:01	*07:01		*01:01	*02:01	*03:03	*05:01	*01:03	*04:01	SSP SSO	
2344	Hurley , Hartzman&	*01:01:01	*07:01:01:01	4*01:03:01:02N	*01:01:01	*02:01	*03:03:02:01	*05:01:01:01	*01:03:01	*04:01:01:01	OTHER	DRB1*07:01:01:02, DQB1*03:03:02:02/03:03:02:03 , DQB1*05:01:01:02, DPB1*04:01:01:02
771	Israel , Shoshana	*01:01	*07:01				*03:03	*05:01			SSP SSO	
794	Jaatinen , Taina	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03	*04:01	SSP SSO SBT	
4337	Kim , Tai-Gyu	*01:01	*07:01				*03:03	*05:01		*04:01	OTHER	DQA1*01:04/01:05/01:12
278	Lee , Jar-How	*01:01	*07:01	4*01:03N	*05:05	*02:01	*03:03	*05:01	*01:03	*04:01	SBT	
274	Lo , Raymundo W.	*01:01	*07:01		*01:01	*02:01	*03:01	*05:11	*01:03	*04:01	OTHER	DPB1*39:01
731	Loewenthal , Ron	*01:01:01	*07:01:01				*03:03:02	*05:01:01			SSP SSO SBT	
8042	Muncher , Liora	*01:01	*07:01	4*01:03	NT	NT	*03:03	*05:01	NT	NT	SSP SSO	
3966	Permpikul , Vejbaes	*01:01	*07:01	4*01:03:01:02N			*03:03	*05:01			SSP	
2400	Phelan , Donna L.	*01:01	*07:01		*01:01	*02:01	*03:03	*05:01		*04:01:01G	SSP SSO SBT	
8001	Rao , Prakash	*01:01	*07:01	4*01:03N			*03:03	*05:01		*04:01	SSP SSO	DRB1*01:07/01:11
3753	Reed , Elaine F.	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03	*04:01	SSO SBT	DRB1*01:21, DRB1*07:11, DQA1*01:04/01:05/01:12, DQB1*03:26/03:112, DQB1*05:11/05:51, DPB1*215:01/216:01N/224:01/ 225:01/227:01/228:01/230:01/2 31:01/232:01/240:01/253:01/25 4:01/255:01/262:01/275:01/279 :01/280:01/281:01/282:01/283: 01/298:01/318:01/319:01>
3519	Renac , Virginie	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01		*04:01	SSP SBT	DRB1*07:34
1160	Rosen-Bronson , Sa	*01:01	*07:01	4*01:03N		*02:01	*03:03	*05:01	*01:03	*04:01	SSO SBT	
793	Rubocki , Ronald			4*01:03:01:02N						*04:01	SSP	
4251	Schiller , Jennifer	*01:01:01G	*07:01:01G				*03:03	*05:01		*04:01:01G	SSO SBT	
747	Tiercy , Jean-Marie	*01:01	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03:02	*05:01:01		*04:01	SSP SSO SBT	DQA1*01:04/01:05/01:12
5451	Tilanus , Marcel G.J	*01:01:01	*07:01:01								SSP SBT	
5642	Varnavidou-Nicolaic	*01:01	*07:01				*03:03	*05:01			SSP	DRB1*01:11:02
3511	Zeevi , Adriana	*01:01	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01		*04:01	SSP SSO	

Table 8: Individual laboratory results for B-cell #520-Class I

Center	Investigator	Low Resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*01	*02	*15	*57	*06	*07							SSP SSO SBT	
4691	Al Ajlal , Abdulaziz	*01	*02	*15	*57	*06	*07							SSO	
5462	Arnold , Paula							*01:01P	*02:01P	*15:17	*57:01	*06:02P	*07:01	SSP SSO SBT	
5133	Askar, Medhat	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17:01	*57:01:01	*06:02	*07:01	SSO SBT	B*15:268, B*57:32
774	Cecka , J. Michael	*01	*02	*15	*57	*06	*07			*15:17				SSP SSO	
9916	Charlton , Ronald K							*01:01:38L	*02:01:01:01	*15:17:01:01	*57:01:01	*06:02:01	*07:01:02	SSP SBT	
4492	Charron , Dominique							*01:01:38L	*02:01:01:01	*15:17:01:01	*57:01:01	*06:02:01:01	*07:01:02	SSP SSO SBT	
3224	Chen , Dong-Feng	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01G	*15:17	*57:01	*06:02	*07:01:01G	SSO SBT OTHER	
8021	Clark , Brendan							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
5130	Costeas , Paul A.	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	B*57:18/57:29, A*01:01
779	Daniel , Claude	*01	*02	*15	*57	*06	*07			*15:17				SSP SSO	
5219	Daniel , Dolly	*01	*02	*15	*57	*06	*07								
1108	DeConinck , Martha	*01	*02	*15	*57	*06	*07							SSO	
3766	Dunckley , Heather	*01	*02	*15	*57	*06	*07							SSP SSO OTHER	
5214	Eckels/CPMC ,	*01	*02	*15(B63)	*57	*06	*07							SSO	
3135	Enczmann , J							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO SBT	C*07:06/07:18
792	Gandhi , Manish	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO SBT	A*01:01:38L
8087	Guerra , Q.F.B. Elb	*01	*02	*15	*57	*02	*04								
910	Hahn , Amy B.									*15:17					
810	Hamdi , Nuha							*01:01	*02:01	*15:17	*57:01	*06:02	*07:02	SSO	
1694	Hesse , Nicole	*01	*02	*15	*57	*06	*07							SSP	
2344	Hurley , Hartzman&							*01:01:38L	*02:01:01:01	*15:17:01:01	*57:01:01	*06:02:01:01	*07:01:02	OTHER	
794	Jaatinen , Taina	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO SBT OTHER	C*06:83, C*07:06/07:18
2847	Kihara , Masaaki	*01	*02	*15	*57	*06	*07							SSO	
4337	Kim , Tai-Gyu							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SBT	
87	Land , Geoffrey A.	*01	*02	*15(B63)	*57	*06	*07							SSP	
278	Lee , Jar-How	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01		
274	Lo , Raymundo W.							*01:01	*02:01	*57:22	*57:01	*06:02	*07:01	OTHER	
206	McAlack-Hanau ,	*01	*02	*15	*57	*06	*07							SSO	
8042	Muncher , Liora	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
54	Pancoska , Carol	*01	*02	*15	*57	*06	*07							SSO	
3966	Permpikul , Vejbaes	*01	*02	*15	*57	*06	*07			*15:17				SSP	
2400	Phelan , Donna L.	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01:01G	SSP SSO SBT	C*06:83
3753	Reed , Elaine F.							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSO SBT	A*01:01:01:02N/01:01:38L/01:14/01:30/01:66/01:98/01:100, A*02:01L/02:01:14Q/02:101 >, B*15:268, B*57:32, C*06:04/06:11/06:17/06:31/06:83/06:122, C*07:06/07:09/07:18/07:22/07:165 >
3519	Renac , Virginie	NT	NT	NT	NT	NT	NT							SSP SBT	

Table 8: Individual laboratory results for B-cell #520-Class I

Center	Investigator	Low Resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
3519	Renac , Virginie							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SBT	
4251	Schiller , Jennifer	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02:01G	*07:01:01G	SSO SBT	
8068	Shanmugam , Hem	*01	*02	*15	*57	*06	*07							SSO	
8029	Tarigopula , Anil	*01	*02	*15	*57	*06	*07							SSO	
8052	Yanina Marcos , Cir	*01	*02	*15	*57	*06	*07							SSO	

Cell Exchange #389

The results for Cell Exchange #389 are summarized in Tables 9 - 10. Molecular typing results for individual laboratories are listed in Tables 11 - 14 for each sample and individual serology results for each sample are

listed in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <http://bioinformatics.nmdp.org/>.

Cell 1553. The consensus type for this sample from a Korean donor is A*11:01(A11)-A*24:02(A24)-B*40:06(B61)-B*51:01(B51)-C*08:01(Cw8)-C*14:02. The likely class I associations in this sample are A*11:01-B*51:01-C*14:02 and A*24:02-B*40:06-C*08:01, with respective frequencies of 0.00799 and 0.00314, in Asians. The association of A*24:02-B*40:06-C*08:01 was observed in 2 other exchange cells, cell 1194 (same as cell 1160) from a Japanese donor and cell 1508 from a Filipino donor.

B61 was reported as the B40 split by 74% and confirmed as B*40:06 (94%). B51 (96%) was reported as the second B-locus type. B*51:01 (100%) was assigned by DNA, with 3 labs assigning B*51:01:01. A11 (100%) and A24 (96%) were the reported A-locus types and confirmed as A*11:01 (94%) and A*24:02 (100%). A11.1 was reported by 1 serology lab.

Cell 1554. The consensus type for this sample from a Thai donor is A*02:01(A2)-A*02:03-B*13:01(B13)-B*40:01(B60)-C*03:04(Cw3)-C*07:02(Cw7). The likely associations in this cell are B*13:01-C*03:04 and B*40:01-C*07:02, with respective frequencies of 0.02734 and 0.03165, in Asians.

This sample was previously studied as cell 1355 (2009) and extract 375 (2006), as astutely noted by Askar and Claas. In this present typing, A2 was reported in complete consensus, with 2 labs assigning A203. Two subtypes of A2 were found to be present in this cell, A*02:01 (94%) and A*02:03 (100%). A*02:01:01 and A*02:03:01 were each assigned by 5 labs. B13 (91%) and B60 (87%) were the B-locus types, with DNA assigning B*13:01 (100%) and B*40:01 (100%). Cw3 and Cw7 were each reported by 35% and confirmed as C*03:04 (95%) and C*07:02 (100%). C*03:04:01 was assigned by 5 labs and C*07:02:01 was assigned by 3 labs.

Cell 1555. The consensus type for this sample from a Filipino donor is A*11:01(A11)-A*24:02(A24)-B*40:01(B60)-B*48:01(B48)-C*07:02(Cw7).

One likely association in this cell is A*11:01-B*40:01-C*07:02, with HF=0.01558 in Asians. The other likely association may then be A*24:02-B*48:01-C*07:02. It is unusual to observe the association of B*48:01 with C*07:02 in this sample, as B*48:01 is often associated with C*08:01 in Asians (HF= 0.01856).

A*11:01 (94%), A*24:02 (94%), B*40:01 (95%), B*48:01 (94%) and C*07:02(100%) were all well assigned by labs reporting at high resolution. B*48:01:01 and C*07:02:01 were each assigned by 4 labs. A11 (100%), A24 (95%), B60 (91%), B48 (76%), and Cw7 (48%) were reported by serology. A11.1 was assigned by 1 lab.

Cell 1556. The consensus type for this sample from a Hispanic donor is A*02:06(A2)-A*32:01(A32)-B*14:01(B64)-B*52:01(B52)-C*04:01(Cw4)-C*08:02(Cw8). The likely class I associations in this cell are A*02:06-B*52:01-C*04:01 and A*32:01-B*14:01-C*08:02, with respective frequencies of HF=0.00076 and HF=0.00181, in Hispanics.

B14 was reported by 91%, with 48% of labs assigning B64 as the split of B14. B*14:01 (*14:01:01) was assigned by 100% of labs reporting at high resolution. The second B-locus type was reported as B52 (91%) and confirmed as B*52:01 (B52:01:02) (100%). A1 and A32 were well assigned by 100% and 95%, respectively, with DNA assigning A*02:06 (*02:06:01) (100%) and A*32:01 (*32:01:01) (94%). The C-locus types were Cw4 (43%) and Cw8 (38%). C*04:01 and C*08:02 were assigned by 94% and 100%, respectively.

Table 9. Summary of the 389th Cell Exchange (Cell #1553-1556)

DNA typing

Cell 1553	
25 low/17 high labs - A	%(n)
A*11:01:01	12(2)
A*11:01	82(14)
A*11:141	6 (1)
A*11	100(25)
25 low/17 high labs - A	%(n)
A*24:02:01:01	6 (1)
A*24:02	94(16)
A*24	100(25)
25 low/18 high labs - B	%(n)
B*40:06:01	11(2)
B*40:06	83(15)
B*40:04	6 (1)
B*40(B61)	12(3)
B*40	88(22)
25 low/17 high labs - B	%(n)
B*51:01:01	18(3)
B*51:01	82(14)
B*51	100(25)
24 low/16 high Labs - C	%(n)
C*08:01:01	19(3)
C*08:01:01G	6 (1)
C*08:01P	6 (1)
C*08:01	69(11)
C*08	100(24)
24 low/16 high Labs - C	%(n)
C*14:02:01	31(5)
C*14:02	69(11)
C*14	100(24)

Cell 1554	
25 low/17 high labs - A	%(n)
A*02:01:01	29(5)
A*02:01	65(11)
A*02:101	6 (1)
A*02	100(25)
25 low/17 high labs - A	%(n)
A*02:03:01	29(5)
A*02:03	71(12)
A*02	100(25)
25 low/17 high labs - B	%(n)
B*13:01:01	6 (1)
B*13:01	94(16)
B*13	100(25)
25 low/18 high labs - B	%(n)
B*40:01:02	6 (1)
B*40:01	94(17)
B*40(B60)	12(3)
B*40	88(22)
24 low/18 high Labs - C	%(n)
C*03:04:01	28(5)
C*03:04	67(12)
C*03:191	5 (1)
C*03(Cw10)	12 (3)
C*03	88(21)
24 low/18 high Labs - C	%(n)
C*07:02:01	17(3)
C*07:02:01G	11(2)
C*07:02P	5 (1)
C*07:02	67(12)
C*07	100(24)

Cell 1555	
23 low/18 high labs - A	%(n)
A*11:01:01	6 (1)
A*11:01	88(16)
A*11:141	6 (1)
A*11	100(23)
23 low/18 high labs - A	%(n)
A*24:02	94(17)
A*24:233	6 (1)
A*24	100(23)
23 low/19 high labs - B	%(n)
B*40:01:02	5 (1)
B*40:01	90(17)
B*40:45	5 (1)
B*40(B60)	13(3)
B*40	87(20)
23 low/18 high labs - B	%(n)
B*48:01:01	22(4)
B*48:01	72(13)
B*48:03	6 (1)
B*48	100(23)
22 low/18 high Labs - C	%(n)
C*07:02:01	22(4)
C*07:02:01G	6 (1)
C*07:02P	6 (1)
C*07:02	67(12)
C*07	100(22)

Cell 1556	
24 low/18 high labs - A	%(n)
A*02:06:01	22(4)
A*02:06	78(14)
A*02	100(24)
24 low/17 high labs - A	%(n)
A*32:01:01	23(4)
A*32:01	71(12)
A*32:23	6 (1)
A*32	100(24)
24 low/17 high labs - B	%(n)
B*14:01:01	24 (4)
B*14:01	76(13)
B*14(B64)	12(3)
B*14	88(21)
24 low/16 high labs - B	%(n)
B*52:01:02	25(4)
B*52:01	75(12)
B*52	100(24)
23 low/17 high Labs - C	%(n)
C*04:01:01	6 (1)
C*04:01:01G	6 (1)
C*04:01P	6 (1)
C*04:01	76(13)
C*04:03	6 (1)
C*04	100(23)
23 low/17 high Labs - C	%(n)
C*08:02:01	12(2)
C*08:02	88(15)
C*08	100(23)

Table 10. Summary of the 389th Cell Exchange (Cell #1553-1556)

Serological typing

(Korean) Cell 1553	
(23 Samples Typed)	
A11	95.7%
A11.1	4.3%
	[100.0%]
A24	95.7%
	[95.7%]
B61	73.9%
B40	21.7%
	[95.7%]
B51	95.7%
B5	4.3%
	[100.0%]
Cw8	26.1%
Bw4	82.6%
Bw6	78.3%
Others Found	
Cw3	4.3%
A9	4.3%
Cw7	4.3%

(Asian) Cell 1554	
(23 Samples Typed)	
A2	100.0%
A203	8.7%
	[100.0%]
B13	91.3%
B60	87.0%
B40	8.7%
	[95.7%]
Cw3	34.8%
Cw10	4.3%
	[39.1%]
Cw7	34.8%
Bw4	73.9%
Bw6	82.6%
Others Found	
Cw5	4.3%
B14	4.3%
Cw4	4.3%
B52	4.3%
A32	4.3%
Cw8	4.3%

(Filipino) Cell 1555	
(21 Samples Typed)	
A11	95.2%
A11.1	4.8%
	[100.0%]
A24	95.2%
	[95.2%]
B60	90.5%
B40	9.5%
	[95.2%]
B48	76.2%
Cw7	47.6%
Bw6	81.0%
Others Found	
B81	9.5%
A9	4.8%
B64	4.8%
B50	4.8%
Cw2	4.8%
Bw4	4.8%
Cw4	4.8%

(Hispanic) Cell 1556	
(21 Samples Typed)	
A2	100.0%
	[100.0%]
A32	95.2%
	[95.2%]
B14	47.6%
B64	42.9%
	[90.5%]
B52	90.5%
B5	4.8%
	[95.2%]
Cw4	42.9%
	[42.9%]
Cw8	38.1%
Bw4	81.0%
Bw6	76.2%
Others Found	
B13	4.8%
Cw7	4.8%
B60	4.8%
Cw3	4.8%

Table 11. Individual laboratory results for Cell #1553

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula							*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSO SBT	
16	Askar , Medhat Z.	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01:01	*14:02:01	SSO SBT	A*11:12/11:19/11:27/11:88/11:17/11:119 , A*24:07:01/24:10:01/24:21:01/24:50/24:235/24:260
5133	Askar , Medhat	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSO SBT	
8038	Cao , Kai	*11	*24	*40	*51	*08	*14	*11:01:01	*24:02	*40:06	*51:01:01	*08:01P	*14:02:01	SSO SBT	
774	Cecka , J. Michael	*11	*24	*40	*51	*08	*14								
8070	Chang , Uckjin							*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SBT	
4492	Charron , Dominiqu	*11	*24	*40	*51	*08	*14							SSP	
798	Claas , F.H.J.							*11:01	*24:02	*40:06:01	*51:01:01	*08:01:01	*14:02:01	SBT	
3632	Colombe , Beth W	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSP SSO	
779	Daniel , Claude	*11	*24	*40	*51	*08	*14			*40:04				SSP SSO	
3766	Dunckley , Heathe	*11	*24	*40	*51	*08	*14								
5214	Eckels/CPMC ,	*11	*24	*40	*51	*08	*14							SSO	
762	Fischer , Gottfried	*11	*24	*40	*51	*08	*14							SSP SSO SBT	
4079	Fort , Marylise	*11	*24	*40	*51	*08	*14							SSP SSO	
3545	Goldstein , Steven	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSP SSO SBT	C*08:22/08:99/08:102
810	Hamdi , Nuha							*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSO	A*11:21N/11:69N/11:86
771	Israel , Shoshana	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSP SSO	
725	Lardy , N.M.	*11	*24	*40	*51	*08	*14							SSP SSO	
745	Latham , Katy							*11:01	*24:02	*40:06	*51:01	*08:01:01	*14:02:01	SSP SBT	
278	Lee , Jar-How	*11	*24	*40	*51	*08	*14	*11:141	*24:02	*40:06	*51:01	*08:01	*14:02	SSP SSO	
6649	Lim , Young Ae	*11	*24	*40	*51									SSP	
731	Loewenthal , Ron							*11:01	*24:02	*40:06	*51:01	*08:01	*14:02:01	SSP SSO SBT	C*08:22
759	Lopez-Cepero , Ma	*11	*24	*40	*51	*08	*14							SSP	
54	Pancoska , Carol	*11	*24	*40	*51	*08	*14							SSO	
8001	Rao , Prakash	*11	*24	*40	*51	*08	*14							SSO	
3625	Rees , Tracey	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	NT	NT		
1160	Rosen-Bronson , S	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01	*14:02	SSP SSO SBT	
793	Rubocki , Ronald	*11	*24	*40	*51	*08	*14							SSP	
4251	Schiller , Jennifer	*11	*24	*40	*51	*08	*14	*11:01	*24:02	*40:06	*51:01	*08:01:01G	*14:02	SSO SBT	
3808	Thornton , Alycia	*11	*24	*40	*51	*08	*14							SSP	
747	Tiercy , Jean-Marie	*11	*24	*40	*51	*08	*14	*11:01:01	*24:02:01:01	*40:06:01	*51:01:01	*08:01	*14:02	SSP SSO SBT	A*24:02:01:03/24:02:40

Table 12. Individual laboratory results for Cell #1554

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula							*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSO SBT	
16	Askar , Medhat Z.	*02	*02	*13	*40	*03	*07	*02:01:01	*02:03:01	*13:01	*40:01	*03:04	*07:02	SSO SBT	A*02:22:01, A*02:171:02, B*13:11/13:13, B*40:48/40:160:02, C*03:32/03:35/03:37:02/03:38:02/03:41:01/03:90/03:92/03:178 , C*07:10/07:27:01/07:39/07:43/07:51/07:133/07:186/07:390
5133	Askar , Medhat	*02		*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSO SBT	A*02:22:01, A*02:171:02, C*07:349
8038	Cao , Kai	*02	*02	*13	*40	*03	*07	*02:01:01	*02:03:01	*13:01	*40:01	*03:04:01	*07:02P	SSO SBT	
774	Cecka , J. Michael	*02		*13	*40	*03	*07								
8070	Chang , Uckjin							*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SBT	
4492	Charron , Dominiqu	*02		*13	*40	*03	*07							SSP	
798	Claas , F.H.J.							*02:01:01	*02:03:01	*13:01	*40:01	*03:04:01	*07:02:01	SBT	A*02:22:01, A*02:171:02
3632	Colombe , Beth W	*02	*02	*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSP SSO	
779	Daniel , Claude	*02	*02	*13	*40	*03	*07	*02:01	*02:03		*40:01	*03:04	*07:02	SSP SSO	
3766	Dunckley , Heathe	*02	*02	*13	*40	*03	*07								
5214	Eckels/CPMC ,	*02	*02	*13	*40	*03	*07							SSO	
762	Fischer , Gottfried	*02		*13	*40	*03	*07							SSP SSO SBT	
4079	Fort , Marylise	*02		*13	*40	*03	*07							SSP SSO	
3545	Goldstein , Steven	*02	*02	*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSP SSO SBT	A*02:22, A*02:171, C*07:50/07:349
810	Hamdi , Nuha							*02:01	*02:03	*13:01	*40:01	*03:191	*07:02	SSO	
771	Israel , Shoshana	*02	*02	*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSP SSO	
725	Lardy , N.M.	*02		*13	*40	*03	*07							SSP SSO	
745	Latham , Katy							*02:01	*02:03	*13:01	*40:01	*03:04:01	*07:02:01	SSP SBT	A*02:22, A*02:171
278	Lee , Jar-How	*02	*02	*13	*40	*03	*07	*02:101	*02:03	*13:01	*40:01	*03:04	*07:02	SSP SSO	
6649	Lim , Young Ae	*02		*13	*40									SSP	
731	Loewenthal , Ron							*02:01:01	*02:03:01	*13:01	*40:01	*03:04:01	*07:02:01	SSP SSO SBT	C*07:50
759	Lopez-Cepero , Ma	*02		*13	*40	*03	*07							SSP	
54	Pancoska , Carol	*02		*13	*40	*03	*07							SSO	
8001	Rao , Prakash	*02		*13	*40	*03	*07							SSO	
3625	Rees , Tracey	*02	*02	*13	*40	*03	*07	NT	NT	*13:01	*40:01	*03:04	*07:02		
1160	Rosen-Bronson , S	*02	*02	*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02	SSP SSO SBT	
793	Rubocki , Ronald	*02		*13	*40	*03	*07							SSP	
4251	Schiller , Jennifer	*02	*02	*13	*40	*03	*07	*02:01	*02:03	*13:01	*40:01	*03:04	*07:02:01G	SSO SBT	
3808	Thornton , Alycia	*02		*13	*40	*03	*07							SSP	
747	Tiercy , Jean-Marie	*02	*02	*13	*40	*03	*07	*02:01:01	*02:03:01	*13:01:01	*40:01:02	*03:04:01	*07:02:01G	SSP SSO SBT	B*13:01:05

Table 13. Individual laboratory results for Cell #1555

Center	Investigator	Low Resolution					High Resolution						Method	Other Alleles	
		HLA-A		HLA-B		HLA-C	HLA-A		HLA-B		HLA-C				
5462	Arnold , Paula							*11:01	*24:02	*40:01	*48:01	*07:02		SSO SBT	B*40:210, B*48:22
16	Askar , Medhat Z.	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01:02	*48:01:01	*07:02:01		SSO SBT	A*11:12/11:19/11:27/11:88/11:117/11:119:01, A*24:07:01/24:10:01/24:21:01/24:50/24:235/24:260, B*40:80/40:210, B*48:03:01/48:22
5133	Askar , Medhat	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01	*48:01	*07:02		SSO SBT	B*40:80, B*48:03, C*07:349
8038	Cao , Kai	*11	*24	*40	*48	*07	*07	*11:01:01	*24:02	*40:01	*48:01:01	*07:02P	*07:02P	SSO SBT	
774	Cecka , J. Michael	*11	*24	*40	*48	*07									
8070	Chang , Uckjin							*11:01	*24:02	*40:01	*48:01	*07:02		SBT	
4492	Charron , Dominiq	*11	*24	*40	*48	*07								SSP	
798	Claas , F.H.J.							*11:01	*24:02	*40:01	*48:01:01	*07:02:01		SBT	
3632	Colombe , Beth W	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01	*48:01	*07:02		SSP SSO	
779	Daniel , Claude	*11	*24	*40	*48	*07	*07			*40:01				SSP SSO	
3766	Dunckley , Heathe	*11	*24	*40	*48	*07									
5214	Eckels/CPMC ,	*11	*24	*40 (B60)	*48	*07								SSO	
762	Fischer , Gottfried							*11:01	*24:02	*40:01	*48:01	*07:02		SSP SSO SBT	B*40:80, B*48:03, C*07:50/07:349
4079	Fort , Marylise	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01	*48:01	*07:02		SSP SSO	B*40:80, B*48:03/48:09/48:34, C*07:50
3545	Goldstein , Steven	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01	*48:01	*07:02		SSP SSO SBT	B*40:80, B*48:03, C*07:50/07:349
810	Hamdi , Nuha							*11:01	*24:233	*40:01	*48:01	*07:02	*07:02	SSO	
771	Israel , Shoshana	*11	*24	*40	*48	*07	*07	*11:01	*24:02	*40:01	*48:01	*07:02	*07:02	SSP SSO	
725	Lardy , N.M.	*11	*24	*40	*48	*07								SSP SSO	
745	Latham , Katy							*11:01	*24:02	*40:01	*48:01:01	*07:02:01		SSP SBT	
278	Lee , Jar-How	*11	*24	*40	*48	*07	*07	*11:141	*24:02	*40:45	*48:03	*07:02	*07:02	SSP SSO	B*40:114, B*48:01
6649	Lim , Young Ae	*11	*24	*40	*48									SSP	
731	Loewenthal , Ron							*11:01	*24:02	*40:01	*48:01	*07:02:01		SSP SSO SBT	C*07:50
759	Lopez-Cepero , Ma	*11	*24	*40 (B60)	*48	*07								SSP	
54	Pancoska , Carol	*11	*24	*40	*48	*07								SSO	
8001	Rao , Prakash	*11	*24	*40 (B60)	*48	*07								SSO	
3625	Rees , Tracey	*11	*24	*40	*48	*07	*07	*11:01	*24:02	*40:01	*48:01	*07:02	*07:02		C*07:347N/07:350N/07:347N/07:350N
1160	Rosen-Bronson , S	*11	*24	*40	*48	*07		*11:01	*24:02	*40:01	*48:01	*07:02		SSP SSO SBT	
793	Rubocki , Ronald	*11	*24	*40	*48	*07								SSP	
4251	Schiller , Jennifer	*11	*24	*40	*48	*07	*07	*11:01	*24:02	*40:01	*48:01	*07:02:01G	*07:02:01G	SSO SBT	
3808	Thornton , Alycia	*11	*24	*40	*48	*07	*07							SSP	
747	Tiercy , Jean-Marie	NT													

Table 14. Individual laboratory results for Cell #1556

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula							*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSO SBT	
16	Askar , Medhat Z.	*02	*32	*14	*52	*04	*08	*02:06:01	*32:01:01	*14:01:01	*52:01:02	*04:01	*08:02	SSO SBT	A*02:415, A*32:31, C*04:10/04:120 , C*08:05/08:15:01
5133	Askar , Medhat	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSO SBT	
8038	Cao , Kai	*02	*32	*14	*52	*04	*08	*02:06:01	*32:01:01	*14:01:01	*52:01:02	*04:01:01G	*08:02:01	SSO SBT	
774	Cecka , J. Michael	*02	*32	*14	*52	*04	*08								
8070	Chang , Uckjin							*02:06	*32:01	*14:01	*52:01	*04:03	*08:02	SBT	
4492	Charron , Dominique	*02	*32	*14	*52	*04	*08							SSP	
798	Claas , F.H.J.							*02:06:01	*32:01:01	*14:01:01	*52:01:02	*04:01:01	*08:02:01	SBT	
3632	Colombe , Beth W.	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO	
779	Daniel , Claude	*02	*32	*14	*52	*04	*08	*02:06		*14:01				SSP SSO	
3766	Dunckley , Heather	*02	*32	*14	*52	*04	*08								
5214	Eckels/CPMC ,	*02	*32	*14 (B64)	*52	*04	*08							SSO	
762	Fischer , Gottfried							*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO SBT	C*04:09N/04:30/04:82
4079	Fort , Marylise	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO	
3545	Goldstein , Steven	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO SBT	C*04:30/04:82
810	Hamdi , Nuha							*02:06	*32:23	*14:01	*52:01	*04:01	*08:02	SSO	
771	Israel , Shoshana	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO	
725	Lardy , N.M.	*02	*32	*14	*52	*04	*08							SSP SSO	
745	Latham , Katy							*02:06:01	*32:01:01	*14:01:01	*52:01:02	*04:01	*08:02	SSP SBT	
278	Lee , Jar-How	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO	
6649	Lim , Young Ae	*02	*32	*14	*52									SSP	
731	Loewenthal , Ron	*02	*32	*14	*52	*04	*08							SSP SSO SBT	
759	Lopez-Cepero , May	*02	*32	*14 (B64)	*52	*04	*08							SSP	
54	Pancoska , Carol	*02	*32	*14	*52	*04	*08							SSO	
8001	Rao , Prakash	*02	*32	*14 (B64)	*52	*04	*08							SSO	
3625	Rees , Tracey	*02	*32	*14	*52	*04	*08	*02:06	*32:01	NT	NT	*04:01	*08:02		C*08:52N
1160	Rosen-Bronson , Sa	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01	*08:02	SSP SSO SBT	
793	Rubocki , Ronald	*02	*32	*14	*52	*04	*08							SSP	
4251	Schiller , Jennifer	*02	*32	*14	*52	*04	*08	*02:06	*32:01	*14:01	*52:01	*04:01P	*08:02	SSO SBT	
3808	Thornton , Alycia	*02	*32	*14	*52	*04	*08							SSP	
747	Tiercy , Jean-Marie	NT												SSP SSO SBT	

Table 15. Individual laboratory results for Cell #1553-1556 by serology

Investigator	Days Old	Cell No 1553 (Korean)										Cell No 1554 (Asian)										Cell No 1555 (Filipino)										Cell No 1556 (Hispanic)									
		Viab %	A11	A24	B61	B51	Cw8	Bw4	Bw6	OTHERS	Viab %	A2	B13	B60	Cw3	Cw7	Bw4	Bw6	OTHERS	Viab %	A11	A24	B60	B48	Cw7	Bw6	OTHERS	Viab %	A2	A32	B14	B52	Cw4	Cw8	Bw4	Bw6	OTHERS				
Askar, Medhat	2	95	+	+	+	+		+	+		95	+	+	+	+	+	+		95	+	+	+	+	+	+		95	+	+	+	+	+	+	+							
Bengochea, Ca		90	+	+		+		+			90	+		B40			+			90	+	+	+		+		90	+	+		+	+		+	+						
Cecka, J. Mic	2	95	+	+	+	+		+	+		95	+	+	+		+	+		95	+	+	+	+		+		95	+	+	B64	+			+	+						
Charron, Domi		100	+	+	B40	+					95	+	+	B40					100	+	+	B40	+			100	+	+	+	+											
Claas, F.H.J.	6	90	+	+	+	+		+	+		90	+	+	+	+		+	+	90	+	+	+			+	90	+	+	+	+	+		+	+							
Dunckley, Hea	6	95	+	+	+	+					95	+	+	+					95	+	+	+	+			95	+	+	B64	+											
Enczmann, J	14	95	+	+	+	+					95	+	+	+				A203	95	+	+	+	+			95	+	+	B64	+											
Fort, Marylis	3	95	+	+	+	+		+	+		88	+	+	+			+	+																							
Hahn, Amy B.	7	99	+	+	B40	+	w3	+	+	Cw7	99	+	+	+	+		+	+	99	+	+	+		+	+	B81	99	+	+	+	+		+	+	+						
Latham, Katy	3	80	+	+	+	+		+	+		80	+	+	+			+	+	80	+	+	+	+		+	80	+	+	+	+			+	+							
Loewenthal ,		85	+	+	+	+	+	+	+		90	+	+	+	+	+	+		90	+	+	+	+	+	+	90	+	+	+	+	+	+	+	+	+						
McCoy, Heathe	2	98	+	+	+	+	+	+	+		98	+	+	+	w10	+	+	+	98	+	+	B64	+	+	+	Cw4	98	+	+	B64	+	+	+	+	+	+					
Pancoska, Car	2	98	+	+	+	+					98	+	+	+					97	+	+	+	+			97	+	+	B64	+											
Permpikul, Ve	6	90	A11.1	+	+	+		+	+		90	+	+	+			+	+	A203	90	A11.1	+	+		+	B40	90	+	+	+	+			+	+						
Rees, Tracey	3	80	+	+	+	+	+	+	+		90	+	+	+	+	+	+		80	+	+	+	+	+	+	90	+	+	B64	+	+	+	+	+	+						
Renac, Virgin	3	100	+	+	B40	+		+	+		100	+	+	+			+	+	100	+	+	+	+	+	+	100	+	+	+	+	+	+	+	+	+						
Rosen-Bronson		95	+	+	+	+	+	+	+		95	+	+	+	+	+	+		95	+	+	+	+	+	+	95	+	+	B64	+	+	+	+	+	+						
Rubocki, Rona	2	98	+	+	+	+		+	+		98	+	+	+	+	+	+		98	+	+	+	+	+	+	98	+	+	+	+	+	+	+	+	+						
Shai, Isaac	8	88	+	+	B40	+	+	+	+		90	+	B14	B52	w4	w5	+	+	A32>	92	+	+	+	B50	+	+	B81>	90	+		B13	B60	w3	w7	+	+					
Thornton, Aly		90	+	+	+	+		+	+		90	+	+	+			+	+	90	+	+	+	+	+	+	90	+	+	B64	+	+	+	+	+	+						
Tiercy, Jean-	6	80	+	+	+	+		+	+		75	+	+	+			+	+																							
Vidan-Jeras,	6	100	+	+	+	+	+	+	+		100	+	+	+	+	+	+		100	+	+	+	+	+	+	100	+	+	B64	+	+	+	+	+	+						
Watson, Narel	8	80	+		B40	B5		+	+	A9	80	+	+	+			+	+	80	+		+	+		+	A9	80	+	+	+	B5			+	+						

Serum Exchange #547

The results for **Serum Exchange 547 (sera 1181 - 1184)** are summarized in Tables 16-21, showing percent consensus by method. Individual laboratory

results by method are listed in Tables 22-31. Sera positive to A1, A3, and A11 were examined in this study.

class I																					
1181	method	#labs	A1	A36	A23	A24	A25	A29	A32	A80	A68	B27	B37	B38	B44	B51	B52	B49	B53	B57	B58
	NIH-Std	4	75	25							25										
	NIH-Ext	3	67																		
	AHG	1	no consensus																		
	Luminex	23	100	100	100	100	100	100	96	96	4	100	100	100	100	96	100	100	100	100	100
	Flow	1	no specificities assigned																		
	ELISA	2	50	100	100	50	100	100	100	50		100	50	100	100	100	50	100	50	50	100
	C1q	1	no consensus																		
	Other	2	50	50	50	50	50	50	50	50	50										
class II																					
1181	method	#labs	DR11	DR15	DR16	DR8	DR51	DR12	DQ6	DR9											
	NIH-STD	1	NT																		
	NIH-Ext	1	no specificities assigned																		
	Luminex	20	100	100	100	100	95	68	68	64											
	Flow	1	no specificities assigned																		
	C1q	1	NT																		
	Other	2	50	50	50	50															

class I																				
1181	method	#labs	B13	B47	B59	B63	A26	A66	A6601	A3	Cw7	B77	B76	A43	A11	A1101	A34	B45	B82	Bw4
	NIH-Std	4									25									
	Luminex	23	100	96	96	96	96	65	35	91	4	96	91	100	87	22	83	61	61	39
	ELISA	2	50	50	100	100	50	50												
	Other	2								50										

Sample 1181 was reported to be positive to A1 by all methods. Reactivity to A9 (A23, A24), A25, A29, A32, and A80 was also detected by various methods. In addition, Luminex and ELISA reported positivity to A26, A66, B37, B38, B44, 5C and 7C specificities. Strong class II reactivity to DR11, DR15, DR16, and DR8 was reported by Luminex SAG and Luminex PRA. In addition to anti-DR9, -DR12, -DR51, and -DQ6 reactivity, allele specific reactivity to DQB1*06:01 and DRB1*12:02 was also reported by Luminex.

class I																													
1182	method	#labs	A1	A11	A1101	A1102	A26	A36	A66	A6601	A6602	A2	A3	A24	A2403	A25	A34	A80	A68	A69	A29	A74	B8	A43	A33	A31	B59	B76	B73
	NIH-Std	4	100	75			50	25																					
	NIH-Ext	3	100	100			33	33	33																				
	AHG	1	no consensus																										
	Luminex	23	100	87	22	22	96	100	87	26	26	100	100	100	22	100	100	100	100	100	100	96	91	100	96	91	87	39	35
	Flow	1	no specificities assigned																										
	ELISA	2	100	100			100	100	100			100	100	100		100	100	100	100	100	100	100	100						
	C1q	1	no consensus																										
	Other	2	50	50			50	50	50			50	50	50		50	50	50	50										

class II					
1182	method	#labs	DR17	DR18	DR13
	NIH-STD	1	NT		
	NIH-Ext	1	no specificities assigned		
	Luminex	11	64	27	27
	Flow	1	no specificities assigned		
	C1q	1	NT		
	Other	2	no specificities assigned		

For **sample 1182**, reactivity to A1 and A11 was detected by all methods. In addition, reactivity to a number of 1C, 2C, and 10C specificities was reported by various methods. Luminex and Elisa also reported strong reactivity to B8. Weak class II reactivity was reported for this sample, as only a small number (n=7) of Luminex labs reported anti-DR17 reactivity. A few (n=4) Luminex labs, along with 1 PRA lab, reported this sample as negative for class II.

Sample 1183 was found to be strongly positive to A3 by all methods. Anti-A11 and -B50 reactivity, along with reactivity to a number of 5C specificities, was reported by Luminex, ELISA, and PRA. In addition, Luminex and ELISA reported strong to moderate reactivity to a number of 1C specificities, as well as to some C-locus antigens. Anti-DQ reactivity (DQ4, DQ6 DQ7, DQ8, and DQ9) was reported by various methods. In addition, Luminex reported strong reactivity to a number of DR and DP antigens. Allele specific reactivity to DPA1*01 and DPA1*03 was also reported.

		class I																					
1183	method	#abs	A3	A11	B50	B49	B62	B63	B72	B71	B56	B75	B57	B58	A1	A24	A36	A80	B35	B52	B46	B13	B51
	NIH-Std	3	100										33	33									
	NIH-Ext	3	100																				
	AHG	1	no consensus																				
	Luminex	22	100	86	100	95	86	95	95	95	100	95	91	82	91	91	91	91	91	91	86	77	77
	Flow	1	no specificities assigned																				
	ELISA	2	100	50	50	100	100	50	50	50	50	50			50	50	100	50	50	50	100	50	100
	C1q	1	no consensus																				
	Other	2	50	50	50	50	50	50	50														
1183	method	#abs	A23	A30	A25	A34	B37	B41	B45	B55	Cw9	Cw5	Cw1	Cw14	Cw4	Cw18	Cw10	B73	B76	B77	B53	A32	A74
	Luminex	22	50	50	45	45	18	14	45	45	86	45	100	95	91	91	86	100	95	95	86	86	77
	ELISA	2	50	50	50	50	50	50	50	50	50	50											

		class II																																					
1183	method	#abs	DQ6	DQ8	DQ7	DQ9	DQ4	DR11	DR12	DR13	DR14	DR15	DR16	DR8	DR17	DR18	DR52	DR103	DR4	DR9	DPw3	DP14	DP17	DP18	DP28	DPw2	DPw4	DPw6	DP9	DP10	DP20	DP23	DP11	DP19	DPw1	DR51	DP13	DP401	
	NIH-STD	1	no consensus																																				
	NIH-Ext	1	no specificities assigned																																				
	Luminex	19	100	89	89	89	16	100	100	100	100	100	100	100	95	95	95	89	79	63	95	95	95	95	95	84	84	84	84	84	84	84	79	74	68	53	37	37	26
	Flow	1	no specificities assigned																																				
	C1q	1	no consensus																																				
	Other	2	50	50	50	50	50	50																															

		class I																																	
1184	method	#abs	A3	A11	A1101	A1102	A31	A29	A30	A32	A66	A6601	A6602	A25	A26	A34	A33	A74	A68	A69	A80	A36	B18	A43	A1	A24	A2403	A23	Cw12	Cw17	Cw6				
	NIH-Std	3	100	67																															
	NIH-Ext	3	100	100			67	33	33	33																									
	AHG	1	no consensus																																
	Luminex	22	100	86	23	23	100	100	100	100	86	27	27	100	95	100	100	100	100	100	100	95	86	100	91	95	23	55	73	64	59				
	Flow	1	no specificities assigned																																
	ELISA	2	100	100			100	100	100	100	50			100	50	100	50	50	100	50	100	50	50												
	C1q	1	no consensus																																
	Other	2	50	50			50	50	50	50	50			50	50	50	50	50	50																

		class II			
1184	method	#abs	NEG	DR51	
	NIH-STD	1	NT		
	NIH-Ext	1	no specificities assigned		
	Luminex	8	88	13	
	Flow	1	no specificities assigned		
	C1q	1	NT		
	Other	2	100		

For **sample 1184**, strong reactivity to A3 and A11 was reported by all methods. Additional reactivity to A29, A30, A31 and a number of 10C specificities was reported by various methods. Anti-Cw6, Cw12 and Cw17 reactivity was also reported by Luminex. This sample was reported as negative for class II.

Table 16. Summary of the 547th Serum Exchange (Serum #1181-1184) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
4 typing Labs			4 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	75%	81%	A1	100%	100%	A3	100%	80%	A3	100%	97%
A36	25%	100%	A11	75%	100%	B57	33%	100%	A11	67%	67%
A68	25%	100%	A26	50%	57%	B58	33%	100%			
CW7	25%	91%	A36	25%	100%						

Method: NIH-Extended											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	67%	100%	A1	100%	100%	A3	100%	100%	A3	100%	100%
			A11	100%	100%				A11	100%	75%
			A26	33%	100%				A31	67%	100%
			A36	33%	100%				A29	33%	100%
			A66	33%	100%				A30	33%	100%
									A32	33%	100%
									A66	33%	100%

Table 17. Summary of the 547th Serum Exchange (Serum #1181-1184) by Antiglobulin, C1q, and Other - class I

Method: Antiglobulin											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: C1q											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: Other											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	50%	100%	A1	50%	100%	A11	50%	100%	A11	50%	100%
A23	50%	100%	A11	50%	100%	A3	50%	100%	A25	50%	100%
A24	50%	100%	A2	50%	100%	B49	50%	100%	A26	50%	100%
A25	50%	100%	A24	50%	100%	B50	50%	100%	A29	50%	100%
A29	50%	100%	A25	50%	100%	B62	50%	100%	A3	50%	100%
A3	50%	100%	A26	50%	100%	B63	50%	100%	A30	50%	100%
A32	50%	100%	A3	50%	100%	B72	50%	100%	A31	50%	100%
A36	50%	100%	A34	50%	100%				A32	50%	100%
A68	50%	100%	A36	50%	100%				A33	50%	100%
A80	50%	100%	A66	50%	100%				A34	50%	100%
			A68	50%	100%				A66	50%	100%
			A80	50%	100%				A68	50%	100%
									A74	50%	100%

Table 18. Summary of the 547th Serum Exchange (Serum #1181-1184) by Luminex - class I

*** Serum 1181 ***		
23 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	100%
A23	100%	100%
A24	100%	100%
A25	100%	100%
A29	100%	100%
A36	100%	100%
A43	100%	100%
B37	100%	100%
B38	100%	100%
B44	100%	100%
B52	100%	100%
B53	100%	100%
B57	100%	100%
B58	100%	100%
B13	100%	86%
B49	100%	75%
B27	100%	71%
A26	96%	100%
A32	96%	100%
A80	96%	100%
B47	96%	100%
B51	96%	100%
B59	96%	100%
B63	96%	100%
B77	96%	100%
B76	91%	100%
A3	91%	78%
A11	87%	94%
A34	83%	33%
A66	65%	62%
B45	61%	100%
B82	61%	100%
BW4	39%	100%
A6601	35%	100%
A1101	22%	100%

*** Serum 1182 ***		
23 typing Labs		
Antigen	Consensus	Inclusion
A1	100%	100%
A2	100%	100%
A24	100%	100%
A25	100%	100%
A29	100%	100%
A3	100%	100%
A34	100%	100%
A36	100%	100%
A43	100%	100%
A68	100%	100%
A69	100%	100%
A80	100%	100%
A26	96%	100%
A74	96%	100%
A33	96%	88%
A31	91%	100%
B8	91%	100%
A11	87%	100%
A66	87%	100%
B59	87%	100%
B76	39%	100%
B73	35%	100%
A6601	26%	100%
A6602	26%	100%
A1101	22%	100%
A1102	22%	100%
A2403	22%	100%
A203	18%	100%
A30	18%	100%

*** Serum 1183 ***		
22 typing Labs		
Antigen	Consensus	Inclusion
A3	100%	100%
B50	100%	100%
B56	100%	100%
B73	100%	100%
CW1	100%	100%
B49	95%	100%
B63	95%	100%
B71	95%	100%
B72	95%	100%
B75	95%	100%
B76	95%	100%
B77	95%	100%
CW14	95%	100%
A1	91%	100%
A24	91%	100%
A36	91%	100%
A80	91%	100%
B35	91%	100%
B52	91%	100%
B57	91%	100%
CW18	91%	100%
CW4	91%	100%
A11	86%	100%
A32	86%	100%
B53	86%	100%
B62	86%	100%
CW10	86%	100%
CW9	86%	100%
B46	82%	100%
B58	82%	100%
A74	77%	100%
B13	77%	100%
B51	77%	67%
A23	50%	100%
A30	50%	100%

*** Serum 1184 ***		
22 typing Labs		
Antigen	Consensus	Inclusion
A25	100%	100%
A29	100%	100%
A3	100%	100%
A30	100%	100%
A31	100%	100%
A32	100%	100%
A33	100%	100%
A34	100%	100%
A43	100%	100%
A68	100%	100%
A69	100%	100%
A74	100%	100%
A80	100%	100%
A24	95%	100%
A26	95%	100%
A36	95%	100%
A1	91%	100%
A11	86%	100%
A66	86%	100%
B18	86%	100%
CW12	73%	100%
CW17	64%	100%
CW6	59%	100%
A23	55%	100%
A6601	27%	100%
A6602	27%	100%
A1101	23%	100%
A1102	23%	100%
A2403	23%	100%

Table 19. Summary of the 547th Serum Exchange (Serum #1181-1184) by Flow and ELISA - class I

Method: Flow Cytometry											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no antigens assigned			no antigens assigned		

Method: ELISA											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A23	100%	100%	A1	100%	100%	A3	100%	100%	A11	100%	100%
A25	100%	100%	A11	100%	100%	A36	100%	100%	A25	100%	100%
A29	100%	100%	A29	100%	100%	B46	100%	100%	A29	100%	100%
A32	100%	100%	A36	100%	100%	B62	100%	100%	A3	100%	100%
A36	100%	100%	A66	100%	100%	B51	100%	75%	A30	100%	100%
B38	100%	100%	B8	100%	67%	A11	50%	100%	A31	100%	100%
B44	100%	100%	A2	50%	100%	A24	50%	100%	A32	100%	100%
B49	100%	100%	A24	50%	100%	A34	50%	100%	A34	100%	100%
B51	100%	100%	A25	50%	100%	A80	50%	100%	A68	100%	100%
B58	100%	100%	A26	50%	100%	B35	50%	100%	A80	100%	100%
B59	100%	100%	A3	50%	100%	B37	50%	100%	A26	50%	100%
B63	100%	100%	A34	50%	100%	B41	50%	100%	A33	50%	100%
B27	100%	80%	A68	50%	100%	B45	50%	100%	A36	50%	100%
A1	50%	100%	A69	50%	100%	B49	50%	100%	A66	50%	100%
A24	50%	100%	A74	50%	100%	B50	50%	100%	A69	50%	100%
A26	50%	100%	A80	50%	100%	B55	50%	100%	A74	50%	100%
A66	50%	100%				B56	50%	100%	B18	50%	100%
A80	50%	100%				B63	50%	100%			
B13	50%	100%				B71	50%	100%			
B37	50%	100%				B72	50%	100%			
B47	50%	100%				B75	50%	100%			
B52	50%	100%				CW5	50%	100%			
B53	50%	100%				CW9	50%	100%			
B57	50%	100%				A1	50%	50%			

Table 20. Summary of the 547th Serum Exchange (Serum #1181-1184) by Luminex- class II

*** Serum 1181 ***		
20 typing Labs		
Antigen	Consensus	Inclusion
DR11	100%	100%
DR15	100%	100%
DR16	100%	100%
DR8	100%	100%
DR51	95%	100%
DR12	68%	50%
DQ6	68%	17%
DR9	64%	100%
DP15	5%	100%
DPW5	5%	100%
DQ2	5%	100%
DQ4	5%	100%
DQ5	5%	100%
DR13	5%	100%
DR14	5%	100%
DR17	5%	100%
DR18	5%	100%
DR4	5%	100%

*** Serum 1182 ***		
11 typing Labs		
Antigen	Consensus	Inclusion
DR17	64%	100%
NEG	36%	100%
DR18	27%	100%
DR13	27%	50%

*** Serum 1183 ***		
19 typing Labs		
Antigen	Consensus	Inclusion
DQ6	100%	100%
DR11	100%	100%
DR12	100%	100%
DR13	100%	100%
DR14	100%	100%
DR15	100%	100%
DR16	100%	100%
DR8	100%	100%
DP14	95%	100%
DP17	95%	100%
DP18	95%	100%
DP28	95%	100%
DPW3	95%	100%
DR17	95%	100%
DR18	95%	100%
DR52	95%	100%
DQ8	89%	100%
DR103	89%	100%
DQ7	89%	94%
DQ9	89%	90%
DP10	84%	100%
DP20	84%	100%
DP9	84%	100%
DPW6	84%	100%
DPW4	84%	93%
DPW2	84%	91%
DP23	79%	100%
DR4	79%	20%
DP11	74%	100%
DP19	68%	100%
DR9	63%	100%
DPW1	53%	50%
DR51	37%	100%
DP13	37%	33%
DP401	26%	100%

*** Serum 1184 ***		
8 typing Labs		
Antigen	Consensus	Inclusion
NEG	88%	100%
DR51	13%	100%

Table 21. Summary of the 547th Serum Exchange (Serum #1181-1184) by NIH, Flow, C1q, and Other - class II

Method: NIH-Standard											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			NT			no consensus			NT		

Method: NIH-Extended											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no antigens assigned			no antigens assigned		

Method: Flow Cytometry											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no antigens assigned			no antigens assigned			no antigens assigned			no antigens assigned		

Method: C1q											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			NT			no consensus			NT		

Method: Other											
*** Serum 1181 ***			*** Serum 1182 ***			*** Serum 1183 ***			*** Serum 1184 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR11	50%	100%	no antigens assigned			DQ4	50%	100%	NEG	100%	100%
DR15	50%	100%				DQ6	50%	100%			
DR16	50%	100%				DQ7	50%	100%			
DR8	50%	100%				DQ8	50%	100%			
						DQ9	50%	100%			
						DR11	50%	100%			

Table 22. Individual laboratory results for Serum #1181-#1184 by NIH-Standard and NIH-Extended

	**** Serum 1181 ****						**** Serum 1182 ****						**** Serum 1183 ****					**** Serum 1184 ****															
Investigator	% POS	A1	A36	A68	CW7	Other	% POS	A1	A11	A26	A36		Other	% POS	A3	B57	B58		Other	% POS	A3	A11											Method
Claas, F.H.J.	58	+	+	+	+		39	+	+	+				24	+	+	+			38	+	+										STD	
Fort, Marylise	5						20	+			+			NT						NT												STD	
Thornton, Alycia		+						+	+	+					+						+	+										STD	
Watson, Narelle	18	+					46	+	+					24	+					28	+											STD	

	**** Serum 1181 ****						**** Serum 1182 ****						**** Serum 1183 ****					**** Serum 1184 ****														
Investigator	% POS	A1				Other	% POS	A1	A11	A26	A36	A66	Other	% POS	A3				Other	% POS	A3	A11	A31	A29	A30	A32	A66		Other	Method		
Dunckley, Heather	29	+					35	+	+					33	+					49	+	+	+			+	+				EXT	
Lardy, N.M.	100						30	+	+		+			23	+					29	+	+										EXT
Reed, Elaine F. PhD	27	+					35	+	+	+		+		16	+					42	+	+	+	+	+							EXT

Table 23. Individual laboratory results for Serum #1181-#1184 by Antiglobulin, C1q, and Other

	**** Serum 1181 ****									**** Serum 1182 ****									**** Serum 1183 ****					**** Serum 1184 ****																		
Investigator	% POS	A1	A23	A25	A26	A32	A36	A24	Other	% POS	A11	A26	A36	A1							% POS	A3	B62	A11				Other	% POS	A11	A26	A28	A29	A3	A30	A31	A32	A33	A68	A25	Other	Method
Hahn, Amy B. PhD		+	+	+	+	+	+	+	B49		+	+	+	+								+	+	+				Other	+	+	+	+	+	+	+	+	+	+	+	+	A74	AHG

	**** Serum 1181 ****									**** Serum 1182 ****									**** Serum 1183 ****						**** Serum 1184 ****																		
Investigator	% POS	A1	A26	A36	A80				Other	% POS	A1	A11	A24	A26	A3	A36	A6601	A80	Other	% POS	A3	CW1	CW10	CW14	CW18	CW9	Other	% POS	A11	A25	A26	A29	A3	A30	A31	A32	A33	A66	A68	Other	Method		
Phelan, Donna L.		+	+	+	+						+	+	+	+	+	+	+	+	A43		+	+	+	+	+	+	Other		+	+	+	+	+	+	+	+	+	+	+	+	+	A74>	C1q

	**** Serum 1181 ****									**** Serum 1182 ****									**** Serum 1183 ****						**** Serum 1184 ****																	
Investigator	% POS	A1	A36	A68	A80	A23	A24	A25	Other	% POS	A1	A11	A24	A26	A3	A36	A66	A80	Other	% POS	A11	A3	B49	B50	B62	B63	Other	% POS	A11	A25	A26	A29	A3	A30	A31	A32	A33	A66	A68	Other	Method	
Phelan, Donna L.	91									98										96								93														Other
Reed, Elaine F. Ph	90	+	+	+	+	+	+	+	A3>	90	+	+	+	+	+	+	+	A25>		92	+	+	+	+	+	+	B72	90	+	+	+	+	+	+	+	+	+	+	+	+	A74>	Other

AHG = antiglobulin
 Other = Luminex PRA

Table 24. Individual laboratory results for Serum #1181 by Luminex

		**** Serum 1181 ****																																					
Investigator	% POS	A1	A23	A24	A25	A29	A36	A43	B37	B38	B44	B52	B53	B57	B58	B13	B49	B27	A26	A32	A80	B47	B51	B59	B63	B77	B76	A3	A11	A34	A66	B45	B82	A6601	BW4	Other	Method		
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102	LMX		
Bengochea, Carrette	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102	LMX		
Cecka, J. Michael P	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8	LMX		
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102,B8201	LMX		
Dunckley, Heather		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A33	LMX		
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Hamdi, Nuha	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Libyh/Roulin, Tabary	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,CW6,B61,B48 >	LMX		
Loewenthal , Ron M	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX		
Martinho, Paiva &		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7,A30,A33,B64 >	LMX	
McCoy, Heather	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX	
Pancoska, Carol Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX	
Permpikul, Vejbaesy	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX	
Phelan, Donna L.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX	
Pule, Ziningi	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX	
Rosen-Bronson, Sai		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LMX
Vather/Pinetown		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,A2,B54,A31 >	LMX

Table 25. Individual laboratory results for Serum #1182 by Luminex

		**** Serum 1182 ****																													
Investigator	% POS	A1	A2	A24	A25	A29	A3	A34	A36	A43	A68	A69	A80	A26	A74	A33	A31	B8	A11	A66	B59	B76	B73	A6601	A6602	A1101	A1102	A2403	Other	Method	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	A203	LMX	
Bengochea, Carrette	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+			LMX
Cecka, J. Michael P	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+			LMX
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	A203	LMX	
Dunckley, Heather		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,CW7	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A30	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			A30	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
Hamdi, Nuha	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+						+	+									LMX	
Libyh/Roulin, Tabary	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+	+	+	+	A203	LMX	
Loewenthal , Ron M	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Martinho, Paiva &		+	+	+	+	+	+	+	+	+	+	+	+		+	+				+	+	+							B13,B27,B7,A30 >	LMX	
McCoy, Heather	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Pancoska, Carol Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						B53,B35	LMX	
Permpikul, Vejbaesy	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Phelan, Donna L.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX
Pule, Ziningi	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Rosen-Bronson, Sai		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX
Vather/Pinetown		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					CW6,B48,B82,B7 >	LMX	

Table 26. Individual laboratory results for Serum #1183 by Luminex

		**** Serum 1183 ****																																					
Investigator	% POS	A3	B50	B56	B73	CW1	B49	B63	B71	B72	B75	B76	B77	CW14	A1	A24	A36	A80	B35	B52	B57	CW18	CW4	A11	A32	B53	B62	CW10	CW9	B46	B58	A74	B13	B51	A23	Other	Method		
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102	LMX	
Bengochea, Carrette	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,CW3,A2403,A1101 >	LMX	
Cecka, J. Michael P	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B44,B45,B55,A25 >	LMX	
Dunckley, Heather		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B44 >	LMX	
Eckels/CPMC, Fort, Marylise	NT	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A66,B78,B44 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A66,B78,B44 >	LMX	
Hamdi, Nuha	62	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B18	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A66,B78,B44 >	LMX	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Libyh/Roulin, Tabary	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B45,B55,A25,A26 >	LMX	
Loewenthal , Ron M	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,CW3	LMX	
Martinho, Paiva &		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7,A43,B64,B18 >	LMX	
McCoy, Heather	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Pancoska, Carol Ph	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B44,B45 >	LMX	
Permpikul, Vejbaesy	44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A30,A31	LMX	
Phelan, Donna L.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Pule, Ziningi	13	+	+	+	+	+											+							+												B15	LMX		
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B44,B45 >	LMX	
Rosen-Bronson, Sai		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B78,B44,B45 >	LMX	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Vather/Pinetown		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX

Table 27. Individual laboratory results for Serum #1184 by Luminex

		**** Serum 1184 ****																															
Investigator	% POS	A25	A29	A3	A30	A31	A32	A33	A34	A43	A68	A69	A74	A80	A24	A26	A36	A1	A11	A66	B18	CW12	CW17	CW6	A23	A6601	A6602	A1101	A1102	A2403	Other	Method	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Bengochea, Carrette	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Cecka, J. Michael P	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Chen, Dong-Feng P		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Dunckley, Heather		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Fort, Marylise	NT																																LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Hamdi, Nuha	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Libyh/Roulin, Tabary	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B61,B48,B13 >	LMX
Loewenthal , Ron M	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Martinho, Paiva &		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B27,B7	LMX
McCoy, Heather	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Pancoska, Carol Ph	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Permpikul, Vejbaesy	33	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Phelan, Donna L.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Pule, Ziningi	24	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Rosen-Bronson, Sai		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Vather/Pinetown		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B57	LMX

Table 29. Individual laboratory results for Serum #1181-1182 by Luminex - class II

Investigator	**** Serum 1181 ****									Other	**** Serum 1182 ****			Method
	% POS	DR11	DR15	DR16	DR8	DR51	DR12	DQ6	DR9		% POS	DR17	Other	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	DRB1*12:01, DRB1*12:02, DQB1*06:01		weak DR17	LMX	
Bengochea, Carret	16	+	+	+	+	+		+	+				LMX	
Cecka, J. Michael F	40	+	+	+	+	+					0		LMX	
Chen, Dong-Feng f		+	+	+	+	+	+		+	DQB1*06:01		+	LMX	
Dunckley, Heather		+	+	+	+	+	+	+	+				LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+			+	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+				LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+				LMX	
Hamdi, Nuha	37	+	+	+	+	+	+	+			0	+	DR13,DR18	LMX
Holdsworth, Rhond		+	+	+	+	+	+		+	DRB1*09:02, DRB1*12:02, DQB1*06:01		+	LMX	
Libyh/Roulin, Tabal	43	+	+	+	+	+	+	+	+	DR4,DR13,DR14,DR17 >	0		LMX	
Pancoska, Carol Pl	0	+	+	+	+	+	+	+	+				LMX	
Permpikul, Vejbaes	13	+	+	+	+	+	+	+					LMX	
Phelan, Donna L.		+	+	+	+	+	+	+					LMX	
Pule, Ziningi	13	+	+	+	+			+			0		LMX	
Reed, Elaine F. Ph		+	+	+	+	+			+	DRB1*12:02, DQB1*06:01		+	LMX	
Rosen-Bronson, S		+	+	+	+	+	+			DQB1*06:01, DQA1*01:03			LMX	
Thornton, Alycia		+	+	+	+	+		+	+				LMX	
Vather/JHB,		+	+	+	+	+	+	+	+			+	DR13,DR18	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+			+	DR13,DR18	LMX

Table 30. Individual laboratory results for Serum #1183-1184 by Luminex - class II

Investigator	% POS	**** Serum 1183 ****																				**** Serum 1184 ****			Method													
		DQ6	DR11	DR12	DR13	DR14	DR15	DR16	DR8	DP14	DP17	DP18	DP28	DPW3	DR17	DR18	DR52	DQ8	DR103	DQ7	DQ9	DP10	DP20	DP9		DPW6	DPW4	DPW2	DP23	DR4	DP11	DP19	DR9	Other	% POS	DR51	Other	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP402,DP401, DRB1*04:02, DRB1*09:02, DQA1*01:03, DPA1*01:03, DPA1*03:01	0			LMX
Bengochea, Carret	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1,DQ3				LMX	
Cecka, J. Michael I	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		0		LMX	
Chen, Dong-Feng I		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DPW1,DP401,D PA1*01, DPA1*03, DPA1*04				LMX	
Dunckley, Heather		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ2,DQ4>				LMX	
Eckels/CPMC, Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ4,DPW1>				LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ2,DPW1>				LMX	
Hamdi, Nuha	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW1,DP13	0			LMX	
Holdsworth, Rhonc		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DPW1,DP13>	0			LMX	
Libyh/Roulin, Taba	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DP402,DP401	0			LMX	
Pancoska, Carol P	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW1,DP13	0			LMX	
Permpikul, Vejbaes	64	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW1		+		LMX	
Phelan, Donna L.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPW1				LMX	
Pule, Ziningi	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR1,DR3,DQ3				LMX	
Reed, Elaine F. Ph		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB5*01:01, DQA1*05, DPA1*01, DPA1*03	0			LMX	
Rosen-Bronson, S		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DRB1*04:02, DPA1*01, DPA1*03				LMX	
Thornton, Alycia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*01, DPA1*03, DQA1*01, DPA1*04				LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51,DQ4,DPW1>				LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR51				LMX	

Table 31. Individual laboratory results for Serum #1181-1184 by NIH, Flow, Other, and C1q - class II

Investigator	**** Serum 1181 ****																**** Serum 1182 ****				Method
	% POS	DR11	DR15	DR16	DR8												Other	% POS	no specificities assigned	Other	
Claas, F.H.J.																					STD
Reed, Elaine F. Ph	23																	32			EXT
Eckels/CPMC	54																	20			FC
Phelan, Donna L.																					C1q
Phelan, Donna L.	54																	0			Other
Reed, Elaine F. Ph	40	+	+	+	+													7			Other

Investigator	**** Serum 1183 ****																**** Serum 1184 ****				Method				
	% POS	DQ4	DQ6	DQ7	DQ8	DQ9	DR11	DR12	DR13	DR14	DR15	DR16	DR17	DR18	DR8	DR3	DR52	DP28	DPW2	DPW4		Other	% POS	no specificities assigned	Other
Claas, F.H.J.	54															+									STD
Reed, Elaine F. Ph	83																					60			EXT
Eckels/CPMC	99																					0			FC
Phelan, Donna L.			+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+					C1q
Phelan, Donna L.	100																					0			Other
Reed, Elaine F. Ph	97	+	+	+	+	+	+	+	+	+	+	+	+	+	+							0			Other

FC = Flow cytometry
 STD = NIH-standard
 EXT = NIH-extended
 Other = Luminex PRA



NEXT MAILING DATE: February 3, 2016

Season's Greetings!

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

