

REPORT OF THE 414th CELL EXCHANGE

JANUARY 15, 2020

B-cell Lines	569-570
Cells	1653-1656
Sera	1281-1288

B-cell Line Exchange #285

The results for B-cell Line Exchange #285 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun** for the valuable reference cells examined in our studies. We

would like to also acknowledge and thank the labs performing NGS for sharing their results and encourage other NGS labs to share their findings. Haplo-type frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-569. The consensus type for this cell from a donor of South American Indian descent is DRB1*08:02-DQA1*04:01-DQB1*04:02-DPA1*01:03-DPB1*03:01-DPB1*04:02-A*31:01-B*15:01-B*15:20-C*01:02-C*03:04. One likely association present in this cell is B*15:01-C*01:02-DRB1*08:02-DQB1*04:02, with respective HF=0.00465 in Hispanics. The other likely association present may then be B*15:20-C*03:04-DRB1*08:02-DQB1*04:02. The association of B*15:20-C*03:04 was observed in the workshop cell IHW9359.

The cell is OLGA, also known as OLL, as correctly identified by Chen. It is the reference cell for B*15:20 and B*15:01:01:01. It was previously examined in the Workshops as IHW9071 and in the Exchange as Ter 346 (2004), TER 175 (1996), Ext 551 (2012), Ext 363 (2006), and Ext 215 (2002). In this present study, B*15:20 and B*15:01 were each reported by 100% of labs, with 6 labs assigning B*15:01:01. Good agreement (>90%) was also achieved for all remaining class I and class II loci. Among labs reporting by high resolution, 9 assigned DRB1*08:02:01 and 5 assigned C*01:02:30:01.

Ter-570. The consensus type for this cell from a Caucasian donor was DRB1*01:01-DRB1*07:01-DRB4*01:03:01N-DQA1*01:01-DQA1*02:01-DQB1*03:03-DQB1*05:01-DPA1*01:03-DPB1*04:01-A*01:01-A*02:01-B*15:17-B*57:01-C*06:02--C*07:01. One likely association present in this cell is A*02:01-B*57:01-C*06:02-DRB1*07:01-DQB1*03:03, observed in Caucasians, with HF = 0.00843. The other likely association present may then be A*01:01-B*15:17-C*07:01-DRB1*01:01-DQB1*05:01. The B*15:17-C*07:01 association present in this cell is observed in Caucasians, with HF = 0.00267.

We congratulate Chen for correctly identifying this cell as HC15956, the reference cell for A*01:01:38L. Also known as 37935, this cell was previously examined in the Exchange for class II as Ter 520 (2015) and for class I as extracts 574 (2013) and 445 (2009). In this present retyping, A*01:01:38L was reported by 11 labs, 8 labs assigned A*01:01, and 1 lab assigned A*01:01P. Good agreement (>90%) was also achieved across all remaining loci, except DRB4. This locus was not graded for low resolution, as the consensus for DRB4*01N was only 50%.

Table 1: Summary of the 285th B-cell Line Exchange

Ter-569														
DNA Typing - class II	29 labs High; 28 labs low-DRB1	%(n)			21 labs High; 25 labs Low-DQA1	%(n)	28 labs High; 25 labs Low-DQB1	%(n)	15 labs High; 12 labs Low-DPA1	%(n)	25 labs High; 16 labs Low-DPB1	%(n)		
	DRB1*08:02:01	31(9)			DQA1*04:01:01	24(5)	DQB1*04:02:01	21(6)	DPA1*01:03:01:03	13(2)	DPB1*03:01:01	20(5)		
	DRB1*08:02	69(20)			DQA1*04:01	76(16)	DQB1*04:02P	4 (1)	DPA1*01:03:01	20(3)	DPB1*03:01:01G	16(4)		
	DRB1*08	100(28)			DQA1*04	100(25)	DQB1*04:02	75(21)	DPA1*01:03P	7 (1)	DPB1*03:01P	4 (1)		
							DQB1*04	100(25)	DPA1*01:03	60(9)	DPB1*03:01	60(15)		
									DPA1*01	100(12)	DPB1*03	100(16)		
	DNA Typing - class I	20 labs High; 21 labs low- A	%(n)	20 labs High; 21 labs low- B	%(n)	20 labs High; 21 labs low- C	%(n)							
		A*31:01:02:01	15(3)	B*15:01:01:01	15(3)	C*01:02:30:01	25(5)							
A*31:01:02		15(3)	B*15:01:01	15(3)	C*01:02P	5 (1)								
A*31:01P		5 (1)	B*15:01	70(14)	C*01:02	70(14)								
A*31:01		65(13)	B*15	95(20)	C*01	100(21)								
A*31		100(21)	B*15(B62)	5 (1)										

Table 3a: Individual laboratory results for B-cell #569 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*08	*08	NT	NT	*04	*04	*04	*04	*01	*01	*03	*04	SSP SSO	
725	*08				*04		*04						SSP SSO	
731	*08				*04		*04			*01			SSP SSO SBT	
735	*08	*08	NP	NP	*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSP SSO SBT	
747	*08				*04		*04		*01		*03	*04	SSP SSO NGS	
771	*08				*04		*04						SSP SSO	
774	*08				*04		*04				*03	*04(DP402)	SSP SSO	
792	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSP SSO SBT	
793	*08				*04		*04				*03	*04(DP402)	SSP	
2400	*08		NP	NP	*04		*04		NT	NT	*03	*04	SSO NGS	
2847	*08												SSO	
3519	*08				*04		*04		*01		*03	*04(DP402)	SSP NGS RT-PCR	
3632	*08				*04		*04		*01		*03	*04		
3753	*08	*08	NP	NP	*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO	
3966	NT												SSP SSO	
4079	*08				*04		*04		*01		*03	*04	SSP SSO NGS	
4251	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO NGS	
4492	*08				*04		*04		*01		*03	*04(DP402)	SSP SSO NGS	
5130	*08	*08			*04	*04	*04	*04			*03	*04	SSO NGS	
5214	*08				*04		*04		*01		*03	*04(DP402)	SSO RT-PCR	
5219	*08	*08			*04	*04	*04	*04			*03	*04(DP402)	SSO NGS	
5451	*08				*04		*04						SSO SBT	
5462	*08		NP		*04		*04		*01		NT	NT	SSO RT-PCR	
5488	NT												SSP SSO SBT NGS	
5642	*08						*04						SSP	
6649	*08												SSO	
8001	*08				*04		*04						SSP SSO	
8029	*08	*08			*04	*04	*04	*04					SSO	
8043	*08				*04		*04						SSP SSO	
8068	*08	*08			*04	*04	*04	*04					SSO	

Table 3b: Individual laboratory results for B-cell #569 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSO SBT NGS	
278	*08:02	*08:02	NT	NT	*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSP SSO	
731	*08:02:01						*04:02						SSP SSO SBT	
735	*08:02	*08:02			*04:01	*04:01	*04:02P	*04:02P	*01:03P	*01:03P	*03:01	*04:02	SSP SSO SBT	
747	*08:02:01				*04:01:01		*04:02:01		*01:03:01:03	*01:03:01	*03:01:01	*04:02:01	SSP SSO NGS	DPB1*463:01 B*15:228 DPB1*351:01
762	*08:02:01				*04:01:01		*04:02:01		*01:03:01:03	*01:03:01:05	*03:01:01	*04:02:01:01	NGS	DPB1*351:01 DPB1*463:01:01
771	*08:02						*04:02						SSP SSO	
774	*08:02				*04:01		*04:02				*03:01	*04:02	SSP SSO	DQB1*04:12 DQB1*04:11 DQB1*04:13 DQB1*04:18 DQB1*04:19 DQB1*04:20 DQB1*04:21 DQB1*04:22 DQB1*04:23
792	*08:02	*08:02					*04:02	*04:02			*03:01	*04:02	SSP SSO SBT	DPB1*463:01 DPB1*351:01
793					*04:01						*03:01	*04:02	SSP	
2344	*08:02:01	*08:02:01					*04:02:01	*04:02:01			*03:01:01G	*04:02:01G	NGS	
2400	*08:02				*04:01		*04:02				*03:01	*04:02	SSO NGS	
3135	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3224	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3511	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSP SSO	
3519	*08:02				*04:01		*04:02				*03:01P	*04:02P	SSP NGS RT-PCR	DPB1*351:01 DPB1*463:01
3632	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02		
3966													SSP SSO	
4079	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	SSP SSO NGS	DQB1*04:11 DQB1*04:13 DQB1*04:18 DQB1*04:19 DQB1*04:21 DQB1*04:20 DQB1*04:22 DQB1*04:23
4251	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03:01G	*03:01:01G	*04:02:01G	SSO NGS	
4337	*08:02	*08:02					*04:02	*04:02			*03:01	*04:02	SSP SBT NGS	
4492	*08:02:01				*04:01:01		*04:02		*01:03:01		*03:01:01	*04:02:01	SSP SSO NGS	DPB1*351:01 DPB1*463:01
5130	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02			*03:01	*04:02	SSO NGS	DPB1*351:01 DPB1*463:01
5133	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01:01	*04:02:01	NGS	DPB1*463:01:01 DPA1*01:14 DPB1*351:01
5219	*08:02:01	*08:02:01					*04:02:01	*04:02:01			*03:01:01	*04:02:01	SSO NGS	
5451	*08:02:01												SSO SBT	
5488	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01:01G	*04:02:01G	SSP SSO SBT NGS	
5642	*08:02						*04:02						SSP	
8001	*08:02						*04:02				*03:01:01G	*04:02	SSP SSO	
8043	*08:02				*04:01		*04:02						SSP SSO	
8086	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSO SBT	

Table 4: Individual laboratory results for B-cell #569 - Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO SBT NGS	
278	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO	
725	*31		*15		*01	*03							SSP SSO	
731	*31		*15	*35	*01	*03							SSP SSO SBT	
735	*31	*31	*15	*15	*01	*03	*31:01P	*31:01P	*15:01	*15:20	*01:02P	*03:04P	SSP SSO SBT	
747	*31		*15	*15	*01	*03	*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	SSP SSO NGS	
774	*31		*15	*15	*01	*03				*15:20			SSP SSO	
792	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO SBT	
793	*31		*15		*01	*03							SSP	
2344							*31:01:02	*31:01:02	*15:01:01	*15:20	*01:02:30:01	*03:04:01	NGS	
2400	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSO NGS	
2847	*31		*15	*15	*01	*03							SSO	
3135							*31:01		*15:01	*15:20	*01:02	*03:04		
3224							*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
3511							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO	
3519	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP NGS RT-PCR	
3753	*31	*31	*15	*15	*01	*03							SSO	
4079	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP SSO NGS	
4251	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO NGS	
4337							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SBT NGS	
4492	*31		*15		*01	*03	*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	SSP SSO NGS	
5130	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO NGS	
5133							*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	NGS	
5214	*31		*15(B62)		*01	*03(Cw10)							SSO RT-PCR	
5219	*31	*31	*15	*15	*01	*03	*31:01:02	*31:01:13	*15:01:01	*15:20	*01:02:30:01	*03:04:01	SSO NGS	
5451													SSO SBT	
5462	*31		*15	*15	*01	*03							SSO RT-PCR	
5488							*31:01:02		*15:01:01	*15:20	*01:02	*03:04:01	SSP SSO SBT	
8029	*31	*31	*15	*15	*01	*03							NGS	
8068	*31	*31	*15	*15	*01	*03							SSO	
8086							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO SBT	

Table 5a: Individual laboratory results for B-cell #570 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*07	4*01	NT	*01	*02	*03	*05	*01	*01	*04	*04	SSP SSO	
725	*01	*07	4*NULL		*01	*02	*03	*05					SSP SSO	
731	*01	*07			*01	*02	*03	*05					SSP SSO SBT	
735	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
747	*01	*07	4*PRESENT		*01	*02	*03	*05	*01		*04		SSP SSO NGS	
771	*01	*07			*01	*02	*03	*05					SSP SSO	
774	*01	*07	4*01		*01	*02	*03	*05			*04(DP401)		SSP SSO	
792	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
793	*01	*07	4*01N		*01	*02	*03	*05			*04(DP401)		SSP	
2400	*01	*07	4*01N	NP	*01	*02	*03	*05	NT	NT	*04		SSO NGS	
2847	*01	*07											SSO	
3519	*01	*07			*01	*02	*03	*05	*01		*04(DP401)		SSP NGS RT-PCR	
3632	*01	*07	4*01		*01	*02	*03	*05	*01		*04			
3753	*01	*07	NP	4*01N	*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSO	
3966	NT												SSP SSO	
4079	*01	*07	4*01		*01	*02	*03	*05	*01		*04		SSP SSO NGS	
4251	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSO NGS	
4492	*01	*07	4*NULL		*01	*02	*03	*05	*01		*04(DP401)		SSP SSO NGS	
5130	*01	*07	4*01		*01	*02	*03	*05			*04	*04	SSO NGS	
5214	*01	*07	4*01N		*01	*02	*03(DQ9)	*05	*01		*04(DP401)		SSO RT-PCR	
5219	*01	*07			*01	*02	*03	*05			*04(DP401)	*04(DP401)	SSO NGS	
5451	*01	*07	4*01N		*01	*02	*03	*05					SSO SBT	
5462	*01	*07	4*01N		*01	*02	*03	*05	*01		NT	NT	SSO RT-PCR	
5488	NT						*03	*05					SSP SSO SBT NGS	
5642	*01	*07	4*PRESENT				*03	*05					SSP	
6649	*01	*07											SSO	
8001	*01	*07	4*01N		*01	*02	*03	*05					SSP SSO	
8029	*01	*07			*01	*02	*03	*05					SSO	
8043	*01	*07			*01	*02	*03	*05					SSP SSO	
8068	*01	*07			*01	*02	*03	*05					SSO	

Table 5b: Individual laboratory results for B-cell #570 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO SBT NGS	
278	*01:01	*07:01	4*01:03N	NT	*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSP SSO	
731	*01:01	*07:01:01					*03:03	*05:01					SSP SSO SBT	
735	*01:01P	*07:01P	4*01:03N		*01:01P	*02:01	*03:03P	*05:01P	*01:03P	*01:03P	*04:01P	*04:01P	SSP SSO SBT	
747	*01:01:01	*07:01:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02:01	*05:01:01:03	*01:03:01:02		*04:01:01		SSP SSO NGS	
762	*01:01:01	*07:01:01:02	4*01:03:01:02N		*01:01:01:01	*02:01:01	*03:03:02	*05:01:01:03	*01:03:01:02		*04:01:01		NGS	
771	*01:01	*07:01					*03:03	*05:01					SSP SSO	
														DRB1*01:50 DRB1*01:62N DRB1*01:64 DRB1*01:65 DRB1*01:67 DRB1*07:31 DRB1*07:33 DRB1*07:35
774	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01			*04:01		SSP SSO	
792	*01:01	*07:01					*03:03	*05:01			*04:01	*04:01	SSP SSO SBT	
793			4*01:03N		*01:01	*02:01					*04:01		SSP	
2344	*01:01:01	*07:01:01					*03:03:02	*05:01:01			*04:01:01	*04:01:01	NGS	
2400	*01:01	*07:01	4*01:03:01N		*01:01	*02:01	*03:03	*05:01			*04:01		SSO NGS	
3135	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01			DQA1*01:04 DQA1*01:05
3224	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01		NGS	
3511	*01:01	*07:01	4*01:03:01N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01			*04:01		SSP NGS RT-PC	
3632	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01			
3966	*01:01	*07:04	4*01:03:01:02N				*03:03	*05:01					SSP SSO	
4079	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01		SSP SSO NGS	DRB1*01:65
4251	*01:01	*07:01:01G	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*01:01	*07:01					*03:03	*05:01			*04:01	*04:01	SSP SBT NGS	
														DRB1*01:100 DRB1*07:79 DRB1*07:93
4492	*01:01	*07:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02:01	*05:01:01	*01:03:01:02		*04:01:01		SSP SSO NGS	
5130	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01			*04:01	*04:01	SSO NGS	

Table 5b: Individual laboratory results for B-cell #570 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5133	*01:01:01	*07:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02	*05:01:01	*01:03:01		*04:01:01		NGS	DRB1*01:100 DRB1*01:01:32 DQB1*05:183 DQB1*05:01:24 DQB1*05:01:26 DQB1*05:01:33 DPA1*01:14 DRB1*07:93 DRB1*01:01:33 DRB1*07:79 DQB1*05:01:28 DQB1*05:01:29 DQB1*05:193 DQB1*05:194 DQB1*05:195
5219	*01:01:01	*07:01:01					*03:03:02	*05:01:01			*04:01:01	*04:01:01	SSO NGS	
5451	*01:01:01	*07:01:01											SSO SBT	
5488	*01:01:01	*07:01:01	4*01:03:01:02N		*01:01	*02:01			*01:03:01		*04:01:01		SSP SSO SBT NGS	
5642	*01:01	*07:01					*03:03	*05:01					SSP	
8001	*01:01	*07:01	4*01:03N				*03:03	*05:01			*04:01		SSP SSO	
8043	*01:01	*07:01			*01:01	*02:01	*03:03	*05:01					SSP SSO	
8086	*01:01	*07:01			*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO SBT	

Table 6: Individual laboratory results for B-cell #570 - Class I

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSO SBT NGS	
278	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
725	*01	*02	*15	*57	*06	*07							SSP SSO	
731	*01	*02	*15	*57	*06	*07							SSP SSO SBT	
735	*01	*02	*15	*57	*06	*07	*01:01P	*02:01P	*15:17	*57:01P	*06:02P	*07:01P	SSP SSO SBT	
747	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01:01	*15:17:01:01	*57:01:01:01	*06:02:01:01	*07:01:02	SSP SSO NGS	
774	*01	*02	*15	*57	*06	*07			*15:17				SSP SSO	B*15:268
792	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO SBT	A*02:01:01:02L
793	*01	*02	*15	*57	*06	*07							SSP	
2344							*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	NGS	
2400	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
2847	*01	*02	*15	*57	*06	*07							SSO	
3135							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01:01G		
3224							*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	NGS	
3511							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
3519	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP NGS RT-PCR	
3753	*01	*02	*15	*57	*06	*07							SSO	
3966	*01	*02	*15	*57	*06	*07							SSP SSO	
4079	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO NGS	
4251	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
4337							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SBT NGS	
4492	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01	*15:17:01	*57:01:01:01	*06:02:01:01	*07:01:02	SSP SSO NGS	
5130	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
5133							*01:01:38L	*02:01:01	*15:17:01:01	*57:01:01:01	*06:02:01:01	*07:01:02	NGS	
5214	*01	*02	*15(B63)	*57	*06	*07							SSO RT-PCR	
5219	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	SSO NGS	
5462	*01	*02	*15	*57	*06	*07							SSO RT-PCR	
													SSP SSO SBT	
5488							*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	NGS	
8029	*01	*02	*15	*57	*06	*07							SSO	
8068	*01	*02	*15	*57	*06	*07							SSO	
8086							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSO SBT	

CELL EXCHANGE #414

The results for Cell Exchange #414 are summarized in Table 7 and Table 8. Molecular typing results for individual laboratories are listed in Tables 9 -16 for each sample and individual serological results for each sample are listed in Table 17. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

We are pleased to announce participants in this survey now have the option to report class II molecular typing results along with their class I results. We would like to thank those labs who have already begun to report their class II findings and encourage other labs to do so as well. Once the criteria for grading is met, we will grade and summarize the class II results.

Cell 1653. The reported class I type for this cell from a Chinese donor is A*33:03(A33)-B*58:01(B58)-C*03:02. The association of A*33:03-B*58:01-C*03:02 is the most common association observed in Asian populations, with HF = 0.04458. A*33:03, B*58:01, and C*03:02 were each reported by 100% of labs reporting at high resolution, with 4 labs assigning A*33:03:01, B*58:01:01, and C*03:02:02. A3 (100%) and B58 (89%) were reported by serology. Class II results are shown in Tables 10a and Table 10b.

Cell 1654. The reported class I type for this cell from a Hispanic donor is A*32:01(A32)-A*68:01(A28)-B*15:15(B15)-B*35:08(B35)-C*01:02-C*04:01. Likely associations present in this cell were A*68:01-B*15:15-C*01:02 and A*32:01-B*35:08-C*04:01, with respective HF = 0.00045 and 0.00126, in Hispanics. This cell was previously examined in the Exchange as cell 1575 (2016). In this present study, good agreement (>90%) was achieved once again for all loci. Among labs reporting by high resolution, 4 labs assigned A*32:01:01, A*68:01:02:01, B*35:08:01, C*01:02:01, and C*04:01:01:06. Among serology labs, 100% (8 of 8) reported A32, A28, B15, and B35. Two labs assigned A68 as the split of A28. The split of B15, however, remained unresolved, as 3 labs reported B62 (38%) and 2 others reported B75 (13%). Class II results are shown in Tables 12a and 12b.

Cell 1655. The reported class I type for this cell from a Caucasian donor is A*11:01(A11)-A*30:02(A30)-B*18:01(B18)-B*35:01(B35)-C*04:01-C*05:01. Likely associations present were A*11:01-B*18:01-C*05:01 and A*30:02-B*35:01-C*05:01, with respective HF = 0.00088 and 0.00031, in Caucasians. Good agreement (>90%) was achieved across all loci. Among labs reporting by high resolution, 3 labs assigned A*11:01:01, A*30:02:01:01, B*18:01:01, B*35:01:01, C*04:01:01:05, and C*05:01:01:01. A30, A11, B18, and B35 were each assigned by 100% of serology labs. Class II results are shown in Tables 14a and 14b.

Cell 1656. The reported class I type for this cell from a Hispanic donor is A*02:01(A2)-A*24:02(A24)-B*35:20(B35)-B*44:03(B44)-C*04:01-C*16:02. Likely associations present were A*02:01-B*44:03-C*16:02 and A*24:02-B*35:20-C*04:01, observed in Hispanics, with respective HF = 0.00043 and 0.00051. This cell was previously studied in the exchange as cells 1602 (2017) and 1536 (2014). In this most recent study, good agreement (<90%) was achieved among labs in the reporting of class I results. Among labs reporting by high resolution, 3 labs reported A*02:01:01, A*24:02:01, B*35:20:01, B*44:03:01, C*04:01:01, and C*16:02:01. By serology, A2 (100%), A24 (100%), B35 (75%), and B44 (100%) were assigned. Class II results are shown in Tables 16a and 16b.

Table 7. Summary of the 414th Cell Exchange (Cell #1653-1656)

DNA typing

Cell 1653	
15 low/11 high labs - A	%(n)
A*33:03:01	36(4)
A*33:03:01G	9(1)
A*33:03	55(6)
A*33	100(15)
15 low/11 high labs - B	%(n)
B*58:01:01:03	18(2)
B*58:01:01	18(2)
B*58:01:01G	9 (1)
B*58:01	55(6)
B*58	100(15)
14 low/11 high Labs - C	%(n)
C*03:02:02	36(4)
C*03:02:01G	9 (1)
C*03:02	55(6)
C*03(Cw10)	14(2)
C*03	86(12)

Cell 1654	
14 low/10 high labs - A	%(n)
A*32:01:01:01	30(3)
A*32:01:01	10(1)
A*32:01:01G	10(1)
A*32:01	50(5)
A*32	100(14)
14 low/10 high labs - A	%(n)
A*68:01:02:01	40(4)
A*68:01P	10(1)
A*68:01	50(5)
A*68	100(14)
14 low/11 high labs - B	%(n)
B*15:15	100(11)
B*15(B62)	14(2)
B*15	86(12)
14 low/11 high labs - B	%(n)
B*35:08:01:01	18(2)
B*35:08:01	18(2)
B*35:08:01G	9 (1)
B*35:08	55(6)
B*35	100(14)
13 low/10 high Labs - C	%(n)
C*01:02:01:01	9 (1)
C*01:02:01	27(3)
C*01:02:01G	9 (1)
C*01:02	45(5)
C*01	100(13)
13 low/10 high Labs - C	%(n)
C*04:01:01:06	40(4)
C*04:01P	10(1)
C*04:01	50(5)
C*04	100(13)

Cell 1655	
13 low/9 high labs - A	%(n)
A*11:01:01:01:01	22(2)
A*11:01:01:01	11(1)
A*11:01:01G	11(1)
A*11:01	56(5)
A*11	100(13)
13 low/9 high labs - A	%(n)
A*30:02:01:01:01	33(3)
A*30:02:01G	11(1)
A*30:02	56(5)
A*30	100(13)
13 low/9 high labs - B	%(n)
B*18:01:01:01:01	11(1)
B*18:01:01:01	22(2)
B*18:01:01G	11(1)
B*18:01	56(5)
B*18	100(13)
13 low/9 high labs - B	%(n)
B*35:01:01:01:05	11(1)
B*35:01:01:01	22(2)
B*35:01:01G	11(1)
B*35:01	56(5)
B*35	100(13)
12 low/ 9 high Labs - C	%(n)
C*04:01:01:01:05	33(3)
C*04:01P	11(1)
C*04:01	56(5)
C*04	100(12)
12 low/ 9 high Labs - C	%(n)
C*05:01:01:01:01	33(3)
C*05:01:01G	11(1)
C*05:01	56(5)
C*05	100(12)

Cell 1656	
14 low/10 high labs - A	%(n)
A*02:01:01:01:01	20(2)
A*02:01:01:01	10(1)
A*02:01:01G	10(1)
A*02:01	60(6)
A*02	100(14)
14 low/10 high labs - A	%(n)
A*24:02:01:01:01	20(2)
A*24:02:01:01	10(1)
A*24:02P	10(1)
A*24:02	60(6)
A*24	100(14)
14 low/11 high labs - B	%(n)
B*35:20:01	27(3)
B*35:20	73(8)
B*35	100(14)
14 low/10 high labs - B	%(n)
B*44:03:01	30(3)
B*44:03:01G	10(1)
B*44:03	60(6)
B*44	100(14)
13 low/10 high labs - C	%(n)
C*04:01:01:01	30(3)
C*04:01P	10(1)
C*04:01	60(6)
C*04	100(13)
13 low/10 high labs - C	%(n)
C*16:02:01:01	30(3)
C*16:02:01G	10(1)
C*16:02	60(6)
C*16	100(13)

Table 8. Summary of the 414th Cell Exchange (Cell #1653- 1656)

Serological typing							
(Chinese) Cell 1653		(Hispanic) Cell 1654		(Caucasian) Cell 1655		(Hispanic) Cell 1656	
(9 Samples Typed)		(8 Samples Typed)		(7 Samples Typed)		(8 Samples Typed)	
A33	100.0%	A32	100.0%	A30	100.0%	A2	100.0%
	[100.0%]		[100.0%]		[100.0%]		[100.0%]
B58	88.9%	A68	75.0%	A11	85.7%	A24	100.0%
B17	11.1%	A28	25.0%	A11.1	14.3%		[100.0%]
	[100.0%]		[100.0%]		[100.0%]		
	[0.0%]	B15	50.00%	B18	100.0%	B35	75.0%
Cw3	11.1%	B62	37.50%	B35	100.0%	B44	100.0%
		B75	12.50%				[100.0%]
			[100.0%]	Cw4	28.6%	Cw4	12.5%
		B35	100.0%		[28.6%]		[12.5%]
Bw4	88.9%	Cw1	12.5%	Cw5	14.3%	Bw4	87.5%
					[14.3%]		
		Cw4	12.5%	Bw6	85.7%	Bw6	87.5%
			[12.5%]				
		Bw4	25.0%	Others Found		Others Found	
		Bw6	87.5%	Cw7	14.3%	B70	25.0%
						Cw6	12.5%
Others Found		Others Found					
B57	11.1%	Cw3	12.5%				
A74	11.1%						
Cw5	11.1%						
A34	11.1%						

Table 9. Individual laboratory results for Cell #1653 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*33	*33	*58	*58	*03	*03	*33:03	*33:03	*58:01	*58:01	*03:02	*03:02	SSP SSO	
725	*33		*58		*03								SSO	
745							*33:03:01		*58:01:01		*03:02:02		SSP SBT NGS	
747	*33		*58		*03		*33:03:01		*58:01:01:03		*03:02:02		SSP SSO NGS	
762							*33:03:01		*58:01:01:03		*03:02:02		NGS	
771	*33		*58		*03		*33:03		*58:01		*03:02		SSP SSO	
774	*33		*58		*03								SSP SSO	
3186	*33		*58		*03								SSO	
3545	*33		*58		*03		*33:03		*58:01		*03:02		SSO SBT	A*33:169 B*58:95
3632	*33		*58		*03		*33:03		*58:01		*03:02			
4079	*33		*58		*03		*33:03		*58:01		*03:02		SSP SSO	A*33:169 A*33:163
4251	*33	*33	*58	*58	*03	*03	*33:03:01G	*33:03:01G	*58:01:01G	*58:01:01G	*03:02:01G	*03:02:01G	SSO SBT	
5133							*33:03:01		*58:01:01		*03:02:02		NGS	
5214	*33		*58		*03(Cw10)								SSO RT-PCR	
5462	*33		*58		*03		*33:03		*58:01		*03:02		SSO NGS	
5642	*33		*58		*03									
6649	*33		*58										SSO	
8001	*33		*58		*03(Cw10)									

Table 10a: Individual laboratory results for Cell #1653 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*03		3*PRESENT		*05		*02		*01			*04	SSP SSO NGS	
3186	*03		3*02		*05		*02		*01		*02(DP201)		SSO	
5214	*03(DR17)		3*02		*05		*02		*01		*02(DP201)	*04(DP401)	SSO RT-PCR	
5462	*03		3*02		*05		*02		*01	*01			SSO NGS	

Table 10b: Individual laboratory results for Cell #1653 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*03:01:01		3*02:02:01:01		*05:01:01		*02:01:01		*01:03:01	*01:03:01:04	*414:01	*04:01:01:02	SSP SSO NGS	DPB1*02:01 DPB1*702:01
5214											*02:01G	*04:01G	SSO RT-PCR	
5462	*03:01P		3*02:02		*05:01		*02:01		*01:03	*01:03	*02:01	*702:01	SSO NGS	DRB1*03:147

Table 11. Individual laboratory results for Cell #1654 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*32	*68	*15	*35	*01	*04	*32:01	*68:01	*15:15	*35:08	*01:02	*04:01	SSP SSO	
725	*32	*68	*15	*35	*01	*04							SSO	
745							*32:01:01:01	*68:01:02:01	*15:15	*35:08:01	*01:02:01	*04:01:01:06	SSP SBT NGS	
747	*32	*68	*15	*35	*01	*04	*32:01:01:01	*68:01:02:01	*15:15	*35:08:01	*01:02:01:01	*04:01:01:06	SSP SSO NGS	DPB1*124:01 DPB1*350:01
762							*32:01:01:01	*68:01:02:01	*15:15	*35:08:01:01	*01:02:01	*04:01:01:06	NGS	
771	*32	*68	*15	*35	*01	*04	*32:01	*68:01	*15:15	*35:08	*01:02	*04:01	SSP SSO	
774	*32	*68	*15	*35	*01	*04			*15:15	*35:08			SSP SSO	
3186	*32	*68	*15	*35	*01	*04							SSO	
3545	*32	*68	*15	*35	*01	*04	*32:01	*68:01	*15:15	*35:08	*01:02	*04:01	SSO SBT	
3632	*32	*68	*15	*35	*01	*04	*32:01	*68:01	*15:15	*35:08	*01:02	*04:01		
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*32	*68	*15	*35	*01	*04	*32:01:01G	*68:01P	*15:15	*35:08:01G	*01:02:01G	*04:01P	SSO SBT	
5133							*32:01:01	*68:01:02:01	*15:15	*35:08:01:01	*01:02:01	*04:01:01:06	NGS	
5214	*32	*68	*15(B62)	*35	*01	*04							SSO RT-PCR	
5462	*32	*68	*15	*35	*01	*04	*32:01	*68:01	*15:15	*35:08	*01:02	*04:01	SSO NGS	
5642	*32	*68	*15	*35	*01	*04								
6649	*32	*68	*15	*35									SSO	
8001	*32	*68	*15(B62)	*35	*01	*04								

Table 12a: Individual laboratory results for Cell #1654 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04	*08	4*PRESENT		*03	*04	*03	*04	*01	*01	*03	*04	SSP SSO NGS	
3186	*04	*08	4*01	NP	*03	*04	*03	*04	*01		*03	*04(DP401)	SSO	
5214	*04	*08	4*01		*03	*04	*03(DQ8)	*04	*01		*03	*04(DP401)	SSO RT-PCR	
5462	*04	*08	4*01	NP	*03	*04	*03	*04	*01	*01			SSO NGS	

Table 12b: Individual laboratory results for Cell #1654- Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	*04:03:01	*08:02:01	4*01:03:01		*03:01:01	*04:01:01	*03:02:01:01	*04:02:01	*01:03:01:02	*01:03:01:03	*03:01:01	*04:01:01:02	SSP SSO NGS	DPB1*124:01 DPB1*350:01
5214											*03:01G	*04:01G	SSO RT-PCR	
5462	*04:03	*08:02	4*01:03	NP	*03:01	*04:01	*03:02	*04:02	*01:03	*01:03	*03:01	*04:01	SSO NGS	

Table 13. Individual laboratory results for Cell #1655 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSP SSO	
725	*11	*30	*18	*35	*04	*05							SSO	
745							*11:01:01:01	*30:02:01:01	*18:01:01	*35:01:01	*04:01:01:05	*05:01:01:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*11:01:01:01	*30:02:01:01	*18:01:01:01	*35:01:01:05	*04:01:01:05	*05:01:01:01	NGS	
771	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSP SSO	
774	*11	*30	*18	*35	*04	*05							SSP SSO	
3186	*11	*30	*18	*35	*04	*05							SSO	
														B*18:17N B*18:131 B*18:144 B*18:145 C*04:226 C*04:275 C*04:277 C*04:298 C*04:306 A*11:263 A*11:270 A*11:278 A*11:280 A*11:295 A*11:303 A*11:306 B*18:159 B*18:160 B*35:42 B*35:332 B*35:347 B*35:365 B*35:370 C*04:30 C*04:82 C*04:308 C*04:320 C*04:321+
3545	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSO SBT	
3632	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01		
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*11	*30	*18	*35	*04	*05	*11:01:01G	*30:02:01G	*18:01:01G	*35:01:01G	*04:01P	*05:01:01G	SSO SBT	
5133							*11:01:01	*30:02:01:01	*18:01:01	*35:01:01	*04:01:01:05	*05:01:01:01	NGS	
5214	*11	*30	*18	*35	*04	*05							SSO RT-PCR	
5462	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSO NGS	DRB1*03:147
5642	*11	*30	*18	*35	*04	*05								
6649	*11	*30	*18	*35									SSO	
8001	*11	*30	*18	*35	*04	*05								

Table 14a: Individual laboratory results for Cell #1655 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
3186	*03	*08	3*02	NP	*04	*05	*02	*04	*01			*04(DP401)	SSO	
5214	*03(DR17)	*08	3*02		*04	*05	*02	*04	*01			*04(DP401)	SSO RT-PCR	
5462	*03	*08	3*02	NP	*04	*05	*02	*04	*01				SSO NGS	

Table 14b: Individual laboratory results for Cell #1655 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
5214						*05:01						*04:01G	SSO RT-PCR	
5462	*03:01P	*08:01	3*02:02	NP	*04:01	*05:01	*02:01	*04:02	*01:03			*04:01	SSO NGS	DRB1*03:147

Table 15. Individual laboratory results for Cell #1656 - Class I

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSP SSO	
725	*02	*24	*35	*44	*04	*16							SSO	
745							*02:01:01:01	*24:02:01:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01	SSP SBT NGS	
747	NT												SSP SSO NGS	
762							*02:01:01:01	*24:02:01:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01	NGS	
771	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSP SSO	
774	*02	*24	*35	*44	*04	*16			*35:20				SSP SSO	
3186	*02	*24	*35	*44	*04	*16							SSO	
														A*02:629 A*02:642 A*02:665 A*24:402 A*24:418 A*24:419 A*24:422 B*44:298 C*04:275 C*04:277 C*04:298 C*04:306 C*04:308 C*04:320 C*04:321 C*16:63 A*02:686 A*02:689 A*02:704 A*02:716 A*02:719 A*02:722 A*02:724 A*02:740 A*02:742 A*02:744 A*02:753 A*02:761 A*02:763 A*02:765+
3545	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSO SBT	
3632	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02		
														C*04:75 C*04:79 C*04:84 C*04:146 B*44:298 C*04:35 A*02:719 A*02:742 A*02:819 A*02:704
4079	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSP SSO	
4251	*02	*24	*35	*44	*04	*16	*02:01:01G	*24:02P	*35:20	*44:03:01G	*04:01P	*16:02:01G	SSO SBT	
5133							*02:01:01	*24:02:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01	NGS	
5214	*02	*24	*35	*44	*04	*16							SSO RT-PCR	
5462	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSO NGS	
5642	*02	*24	*35	*44	*04	*16								
6649	*02	*24	*35	*44									SSO	
8001	*02	*24	*35	*44	*04	*16								

Table 16a: Individual laboratory results for Cell #1656 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3186	*04	*13	3*01	4*01	*01	*03	*03	*06	*02		*05	*13	SSO	
5214	*04	*13	3*01	4*01	*01	*03	*03(DQ8)	*06	*02		*05	*13	SSO RT-PCR	
5462	*04	*13	3*01	4*01	*01	*03	*03	*06	*02	*02			SSO NGS	

Table 16b: Individual laboratory results for Cell #1656 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
747	NT												SSP SSO NGS	
5214											*05:01G	*13:01G	SSO RT-PCR	
5462	*04:07	*13:01	3*01:01P	4*01:03	*01:03	*03:01	*03:02	*06:03	*02:01	*02:01	*05:01P	*13:01P	SSO NGS	DPB1*107:01 DPB1*135:01 DPB1*519:01 DRB3*01:62

Table 17. Individual laboratory results for Cell #1653-1656 by serology

Investigator	Cell No 1653 (Chinese)							Cell No 1654 (Hispanic)							Cell No 1655 (Caucasian)							Cell No 1656 (Hispanic)												
	Days Old	Viab %	A33	B58	Cw3	Bw4	OTHERS	Viab %	A32	A68	B15	B35	Cw1	Cw4	Bw6	OTHERS	Viab %	A30	A11	B18	B35	Cw4	Cw5	Bw6	OTHERS	Viab %	A2	A24	B35	B44	Cw4	Bw4	Bw6	OTHERS
Cecka, J. Mic	2	>95	+	+		+		>95	+	+	+	+			+		>95	+	+	+	+			+		>95	+	+	+	+		+	+	
Fort, Marylis	3	98	+	+		+																				95	+	+	+	+		+	+	
Latham, Katy	3	98	+	+		+		98	+	+	+	+			+		98	+	+	+	+			+		98	+	+	+	+		+	+	
Permpikul, Ve	6	90	+	+		+	A74, B57	90	+	+	B62	+			+		90	+	A11.1	+	+			+		90	+	+	B70	+		+	+	
Renac, Virgin		100	+	+		+		100	+	A28	+	+			+		100	+	+	+	+			+		100	+	+	B70	+		+	+	
Shai, Isaac	14																																	
Stylianou, Ca		85	+	+		+		85	+	+	B75	+			+	Bw4	80	+	+	+	+			+		85	+	+	+	+		+	+	
Tabata, Lucas		90	+	B17			A34, Cw5	90	+	+	B62	+				Cw3	90	+	+	+	+	+			Cw7	90	+	+	+	+				
Vidan-Jeras,	6	80	+	+	+	+		80	+	+	B62	+	+	+	+		85	+	+	+	+	+	+	+		80	+	+	+	+	+	+	+	Cw6
Villard, Jean		40	+	+		+		40	+	A28	+	+			+	Bw4	NT									NT								

SERUM EXCHANGE #572

The results for **Serum Exchange 572 (sera 1281 - 1284)**, are summarized in Tables 18 - 24 and individual laboratory results by method are listed

in Tables 25 - 35. Sera strongly positive to A2, B8, Cw4 and to a number of DR and DQ specificities were observed in this study.

1281	method	#labs	Cw4	B35	B53	B75	B62	B51	B77	B71	B72	B70	B63	B49	B78	B56	Cw18	B76	B50	B57	B46	B52	B73	B58	B7801	
class I	NIH-Std	1	no consensus																							
	NIH-Ext	2	50%	50%	50%																					
	AHG	2	50%	50%	50%	50%	50%	50%				50%														
	Luminex	26	96%	96%	96%	100%	96%	96%	100%	96%	96%		96%	92%	92%	88%		92%	92%	88%	81%	81%	50%	46%	15%	
	Flow	3	no specificities assigned																							
	C1q	2	100%														50%									
	Other	2	50%	50%	50%	50%			50%	50%	50%		50%	50%	50%	50%										

1281	method	#labs	DR4	NEG	DQ6
class II	NIH-Ext	1	undetermined		
	Luminex	21	71%	29%	10%
	Flow	3	no specificities assigned		
	C1q	1	no consensus		
	Other	2	50%		

Other = Luminex PRA

*(median MFI)

For **Serum 1281**, anti-Cw4 (1143) reactivity was reported by all labs, except Flow. In addition, NIH-extended, antiglobulin, Luminex SAB and PRA reported anti-B35 (7675) and -B53 (7524) reactivity, with Luminex reporting each by a consensus of 96%. Additional reactivity to B56, as well as reactivity to a number of 5C and 7C specificities was reported by Luminex. The report-

ing of class II reactivity in this sample was mixed among labs. A number of labs (n=15) reported the presence of weak anti-DR4 (862) reactivity, while 6 others reported this sample as negative for class II. This sample was not graded for class II as a result.

1282	method	#labs	A2	A203	B62	B63	B57	B58	B75	A68	A69	A28	B51	B72	B70	Cw5	Cw18	Cw4	Cw403	Cw15	Cw17	Cw2	Cw6				
class I	NIH-Std	1	no consensus																								
	NIH-Ext	2	100%		50%	50%	50%		50%			50%															
	AHG	2	100%		50%	50%	50%			50%			50%		50%												
	Luminex	26	92%	15%	92%	92%	92%	92%	92%	92%	92%		88%	92%		96%	93%	96%	11%	92%	92%	92%	92%				
	Flow	3	no specificities assigned																								
	C1q	2	100%		50%		100%			100%	100%					100%	100%	50%		100%	100%	100%	100%				
	Other	2	50%		50%		50%	50%	50%	50%	50%			50%													

1282	method	#labs	B46	B49	B50	B71	B76	B77	B13	B35	B52	B53	B55	B56	A24	A2403	B78	B7801	A74	A29	A3	B45	B44				
	Luminex	26	92%	92%	92%	92%	92%	92%	88%	88%	88%	88%	88%	88%	85%	19%	85%	15%	81%	77%	77%	77%	77%				

1282	method	#labs	A11	A1101	A1102	A23	A31	A32	Cw12	B27	B2708	B67	Cw10	A34	B59	A30	B64	Cw9	A25	A33	B38	A43	A66	A6602	B39	B42	B54
	Luminex	26	73%	8%	11%	73%	69%	69%	69%	62%	15%	62%	54%	50%	50%	46%	42%	42%	38%	38%	38%	35%	35%	15%	31%	31%	31%

1282	method	#labs	DQ4	DQ8	DQ9	DQ6	DQ5	DR4	DR1	DR53	DR9	DR7	DQA1*03	DR14	DQA1*01	DQA1*04	DP19	DR10	DR15	DR51	DQ2
class II	NIH-Ext	1	undetermined																		
	Luminex	23	100%	100%	100%	100%	96%	100%	96%	100%	91%	87%	83%	57%	39%	26%	13%	13%	13%	13%	13%
	Flow	3	no specificities assigned																		
	Other	2	50%	50%	50%	50%	50%	50%	50%												

For **Serum 1282**, anti-A2 (21870) reactivity was reported by all methods, except Flow. Additional reactivity to B62 (16364) and B57 (12544) was also reported by NIH-extended, antiglobulin, C1q, and Luminex. Reactivity to a number of C-locus antigens (Cw5, Cw18, Cw4, Cw15, Cw17, Cw2, and Cw6) was also reported by Luminex labs. Each were reported by >90% consensus,

with MFI values ranging from 5899 to 13614. For class II, anti-DQ4, -DQ8, -DQ9, -DQ6, DQ5, -DR4, and -DR1 reactivity was reported by Luminex SAB and Luminex PRA, with respective MFI values = 5662, 12427, 12463, 8656, 5837, 18377, and 2647. Additional reactivity to other DR antigens was reported by Luminex SAB, including anti-DR53 (10167) reactivity.

1283	method	#labs	B8	B42	A33	B18	B55	B65	B41	B54	B59	B37	A29	Cw8	B64	Cw18	Cw4	Cw14	Cw1	Cw5	Cw12	Cw15
class I	NIH-Std	1	no consensus																			
	NIH-Ext	2	100%																			
	AHG	2	100%	50%	50%	50%	50%	50%														
	Luminex	26	96%	100%	92%	92%	96%	92%	96%	96%	100%	96%	96%	96%	92%	88%	88%	88%	92%	92%	88%	88%
	Flow	3	no specificities assigned																			
	C1q	2	100%													50%	50%	50%				
	Other	2	50%	50%	50%	50%	50%		50%	50%												

1283	method	#labs	Cw6	Cw16	A68	A32	A34	A74	A31	B63	B77	B75	B61	A69	A30	B27	B39	B81	Cw17	Cw2	Cw7	Cw10
	Luminex	26	85%	81%	81%	69%	69%	62%	62%	65%	31%	27%	54%	42%	42%	42%	27%	23%	65%	65%	62%	42%

1283	method	#labs	NEG	DQ6		
class II	NIH-Ext	1	undetermined			
	Luminex	15	80%	20%		
	Flow	3	no specificities assigned			
	Other	2	100%			

Strong anti-B8 (13712) reactivity was detected in **Serum 1283** by all methods, except Flow. In addition, antiglobulin Luminex SAB, and Luminex PRA reported anti-B42 (9180), A33 (6173), B18 (6745), and B55 (4516) reactivity. Additional reactivity to B59, B37, A29, B64, as well as reactivity to a

number of C-locus antigens was reported by Luminex. A number of Luminex labs (n= 12) and 2 labs reporting by Luminex-PRA reported this sample as negative for class II.

1284	method	#labs	A2	A203	B50	B49	B45	B57	B58	B17	B41	B42	B55	A69	A28	A11	A1101	A1102	B8	B38	B39	B3901	B60	
class I	NIH-Std	1	no consensus																					
	NIH-Ext	2	100%		50%	50%																		
	AHG	2	100%		50%		50%	50%	50%	50%	50%	50%	50%		50%	50%			50%	50%	50%			
	Luminex	26	100%	23%	92%	92%	96%	96%	96%		92%	92%	92%	96%		88%	15%	15%	92%	92%	81%	19%	92%	
	Flow	3	no specificities assigned																					
	C1q	2	100%		100%	100%	100%	100%	100%		100%	100%	100%	100%										100%
	Other	2	50%			50%	50%	50%	50%		50%	50%	50%	50%		50%			50%					50%

1284	method	#labs	B54	B59	B67	B37	A29	A43	B13	B47	Cw15	A32	A3	A25	B62	B64	B18	B51	B52	B63	B44	A36	
	Luminex	26	92%	92%	92%	92%	92%	88%	88%	88%	81%	69%	50%	46%	46%	42%	38%	31%	23%	23%	23%	19%	

1284	method	#labs	DR11	DR12	DR13	DR14	DR1403	DR1404	DR17	DR18	DR52	DR7	DR8	DR9	DQ7	DQ8	DQ9	DQ2	DQ4	
class II	NIH-Ext	1	undetermined																	
	Luminex	23	100%	100%	100%	100%	17%	17%	100%	100%	100%	100%	100%	96%	96%	96%	96%	57%	57%	
	Flow	3	no specificities assigned																	
	Other	2	50%	50%	50%	50%			50%	50%		50%	50%	50%	50%	50%	50%	50%	50%	

1284	method	#labs	DQ6	DPw2	DPw4	DP401	DP402	DP23	DP28	DQA1*05	DQA1*04	DQA1*06	DP18	DPA1*01	DPA1*03
	Luminex	23	35%	78%	65%	17%	17%	52%	52%	48%	39%	35%	30%	26%	17%

Strong A2 (17123) reactivity was detected in **Serum 1284**, by all methods except Flow. Additional reactivity to B41 (21819), B42 (15608), B55 (12091), A69 (13218), A11 (6308), as well as reactivity to a number of 5C, 7C, and 8C specificities was reported by various methods. Strong class II reactivity was also detected in this sample, with >90% of Luminex labs reporting anti DR11

(16713), DR12 (16545), DR13 (18206), DR14 (14837), DR17 (17147), DR18 (15682), DR52 (17523), DR7 (11207), DR8 (14836), DR9 (11055), DQ7 (9755), DQ8 (5883), DQ9 (6436) reactivity. Additional reactivity to a number of DP and DQA1 specificities was also reported by Luminex SAB.

SERUM EXCHANGE #573

The results for **Serum Exchange 573 (sera 1285 - 1288)** are summarized in Tables 36 - 42 and individual laboratory results by method are listed in Tables 43 - 54. Sera strongly positive to B12 (B44, B45), DQ3 (DQ7, DQ8,

DQ9), DR7, as well as sera positive to 1C and 10C specificities were examined in this study.

1285	method	#labs	A24	A2403	A1	A11	A1101	A23	A1102	A3	A36	A80	B13	B76	A32	B71	B35	B39	B45
class I	NIH-Std	1	NT																
	NIH-Ext	2											50%						
	AHG	2	50%		50%	50%													
	Flow	3	no specificities assigned																
	C1q	2	50%																
	Other	2	50%		50%	50%		50%		50%	50%	50%							
	Luminex	26	100%	26%	100%	92%	19%	100%	19%	100%	100%	100%		96%	69%	69%	69%	65%	65%

1285	method	#labs	B75	B72	A25	B46	B50	B62	B57	B60	Cw10	Cw9	B41	B48	B61	B58	B18	B64	B78
	Luminex	26	62%	62%	58%	58%	58%	58%	58%	58%	54%	54%	50%	50%	50%	50%	42%	42%	35%

1285	method	#labs	DQ7	DQ8	DQ9	DQ6	DR4	DR7	DR8	DPw3	DR11	DPw6	DR16	DR9	DR15	DP14	DP17	DP9	DPw1
class II	NIH-Ext	1	Undefined																
	Flow	3	no specificities assigned																
	C1q	1	no consensus																
	Other	2	50%	50%	50%	50%	50%	50%											
	Luminex	24	96%	96%	96%	88%	96%	88%	96%	92%	92%	88%	79%	79%	75%	75%	75%	75%	75%

1285	method	#labs	DP19	DQ4	DP11	DP20	DR1	DPw5	DR53	DQA1*05	DP13	DP10	DQA1*06	DQA1*03	DPA1*02	DPA1*03	DQA1*01
	Luminex	21	71%	71%	58%	58%	46%	38%	38%	29%	29%	25%	25%	21%	13%	13%	13%

Other = Luminex PRA

*(median MFI)

For **Serum 1285**, anti-A24 (7795) reactivity was detected in this sample by antiglobulin, C1q, and Luminex. Additional reactivity to a number of other 1C specificities, including A1 (7897), A11 (5311), A3 (8657), A36 (6968), and A80 (8869) was also reported by various methods. Each were reported by > 90% of Luminex labs. In addition, Luminex reported anti-B39 (2406), -B45

(2519), and -A25 (2859) reactivity, as well as reactivity to a number of 5C specificities. Class II reactivity was also reported in this sample, with Luminex SAB and Luminex PRA reporting anti-DQ7 (8371), -DQ8 (6154), -DQ9 (8227) -DQ6 (2664), -DR4 (9513), and -DR7 (2671) reactivity. Additional reactivity to a number of DR and DP anti-sera was also reported by Luminex SAB.

1286	method	#abs	B44	B45	B49	B50	B35	B62	B75	B18	B53	B60	B61	B70	B71	B72	B77	B78	B41	B13	B56
class I	NIH-Std	1	NT																		
	NIH-Ext	2	50%																		
	AHG	2	50%	50%	50%	50%	50%	50%	50%					50%					50%		
	Flow	3	no specificities assigned																		
	C1q	2	NT																		
	Other	2	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%	50%	50%	50%			
	Luminex	26	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		100%	100%	100%	96%	100%	100%	100%

1286	method	#abs	B76	B63	B38	B47	B52	B51	B64	B59	B48	B37	B39	B3901	B57	B58	B46	B65	B8	B82
	Luminex	26	100%	100%	100%	96%	96%	92%	92%	92%	88%	88%	88%	22%	77%	65%	73%	73%	50%	42%

1286	method	#abs	DR103	DR1	DR7	DR10	DR51	DR9	DR53	DPw1	DPw2	DPw3	DPw5	DPw6
class II	NIH-Ext	1	Undefined											
	Flow	3	no specificities assigned											
	C1q	1	NT											
	Other	2	50%	50%	50%	50%								
	Luminex	21	76%	76%	71%	38%	67%	38%	29%	24%	24%	24%	24%	

1286	method	#abs	DP11	DP13	DP14	DP15	DP18	DP19	DP9	DPA1*01	DPA1*03	DPA1*04	DPw4	DQ6	DR4
	Luminex	21	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	14%

Anti-B44 (8117) reactivity was reported in **Sample 1286** by NIH-extended, antiglobulin, Luminex SAB and Luminex PRA. Additional reactivity to a number of 5C and 7C specificities, including anti-B49 (5982), -B50 (9448), -B35 (7453), -B62 (10330), -B75 (7626), -B60 (5361), and -B61 (4968) was reported by various methods. Weak class II reactivity was also reported in this

sample, with Luminex SAB and Luminex PRA reporting reactivity to DR103 (1391), DR1 (1149), DR7 (1424), and DR10 (892). Additional reactivity to a number of DP specificities was also reported by Luminex SAB. This sample was not graded for class II as the consensus for each of the DR specificities reported was <90%.

1287	method	#abs	A25	A26	A34	A10	A11	A1101	A1102	A66	A6601	A6602	A1	A36	A80	A43	A68	A32	B73	B44	B45	B41	B42	B55	
class I	NIH-Std	1	no consensus																						
	NIH-Ext	2	100%	100%	100%		100%			100%															
	AHG	2	50%	50%	50%	50%	100%			50%			100%	50%				50%		50%				50%	
	Flow	3	no specificities assigned																						
	C1q	2	100%	100%	100%		100%				50%		100%	100%	100%	100%									
	Other	2	50%	50%	50%		50%			50%			50%	50%	50%		50%			50%	50%	50%	50%		
	Luminex	26	100%	100%	100%		92%	19%	19%	92%	19%	19%	100%	100%	100%	100%	100%		100%	96%	96%	96%	96%	96%	

1287	method	#abs	Cw6	B61	B47	B49	B50	B7	B67	B54	B56	Cw7	B38	B60	B71	B37	B82	Cw18	B59	B18	B72	B13	B39	B81
	C1q	2	50%																					
	Other	2		50%																				
	Luminex	26	92%	88%	96%	96%	96%	96%	96%	96%	92%	92%	88%	88%	88%	85%	85%	85%	81%	81%	81%	77%	77%	77%

1287	method	#abs	Cw4	B48	B52	B64	B27	B58	A2	B51	B65	A69	B76	B78	B8	B53	B35	A24	A2403	Cw12	Cw15	A33	A29
	Luminex	26	77%	73%	73%	69%	62%	62%	58%	58%	58%	54%	54%	54%	46%	42%	38%	31%	27%	27%	27%	23%	19%

1287	method	#abs	DR7	DR9	DQ2	DR12	DR52	DR53	DQA1*05	
class II	NIH-Ext	1	Undefined							
	Flow	3	no specificities assigned							
	C1q	1	NT							
	Other	2	50%	50%	50%	50%				
	Luminex	24	100%	96%	96%	83%	92%	63%	13%	

Other = Luminex PRA

For **Serum 1287**, anti-A10 (A25, A26, A34, A66) and –A11 reactivity was reported by all methods. Median MFI values reported for each were 20163, 18788, 14990, 15577, and 19454, respectively. Additional reactivity to A1, A36, A80, A43, A68, B44, B45, Cw6, as well as reactivity to a number of 5C

and 7C specificities was reported by various methods. Class II reactivity was also detected in this cell with Luminex SAB and PRA reporting anti-DR7 (6545), -DR9 (2587), -DQ2 (3592), and -DR12 (1522) reactivity. Additional anti-DR52 (2700) reactivity was also reported by 92% of Luminex labs.

1288	method	#labs	NEG	A25	A3	B44
class I	NIH-Std	1	NT			
	NIH-Ext	2	Undetermined			
	AHG	2	50%			
	Flow	3	no specificities assigned			
	C1q	2	NT			
	Other	2	50%			
	Luminex	20	45%	50%	20%	5%

1288	method	#labs	DR7	DR9	DPw3	DPw6	DR53	DPw2	DP9	DP14	DP18	DP17	DP20	DP28	DP10	DPw4	DP402	DR11	DP11	DP19	DPA1*01	DPA1*04	
class II	NIH-Ext	1	Undefined																				
	Flow	3	no specificities assigned																				
	C1q	1	no consensus																				
	Other	2	50%	50%																			
	Luminex	24	100%	96%	96%	96%	92%	92%	88%	88%	88%	83%	71%	71%	67%	67%	29%	29%	13%	13%	13%	13%	

Sample 1288 was not graded for class I as only 50% of labs reporting by Luminex SAB reported anti-A25 (1589) reactivity, while 45% reported it as negative. One lab reporting by antiglobulin and 1 lab reporting by PRA also reported this sample as negative for class I. By contrast, strong class II reactivity was detected in this sample, with C1q, Luminex SAB and Luminex PRA

reporting anti-DR7 (18944) reactivity. Anti-DR9 (2256) reactivity was also reported by Luminex SAB and PRA. Additional reactivity to a number of DP specificities, including DP3 (5736) and DP6 (5896) was also reported by Luminex SAB.

NEXT MAILING DATE: March 4, 2020

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

Table 18. Summary of the 572nd Serum Exchange (Serum #1281-1284) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
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: NIH-Extended											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B35	50%	100%	A2	100%	100%	B8	100%	100%	A2	100%	95%
B53	50%	100%	B57	50%	100%				B49	50%	100%
Cw4	50%	100%	B62	50%	100%				B50	50%	100%
			B63	50%	100%						
			B75	50%	100%						
			A28	50%	50%						

Table 19. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Antiglobulin and Flow Cytometry - class I

Method: Antiglobulin												
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***			
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
B35	50%	100%	A2	100%	100%	B8	100%	100%	A2	100%	100%	
B51	50%	100%	A68	50%	100%	A33	50%	100%	A28	50%	100%	
B75	50%	100%	B62	50%	100%	B42	50%	100%	B17	50%	100%	
Cw4	50%	100%	B63	50%	100%	B65	50%	86%	B38	50%	100%	
B53	50%	86%	B70	50%	100%	B55	50%	83%	B39	50%	100%	
B70	50%	67%	B57	50%	75%	B18	50%	57%	B41	50%	100%	
B62	50%	50%	B51	50%	67%				B42	50%	100%	
									B45	50%	100%	
									B50	50%	100%	
									B55	50%	100%	
									B57	50%	100%	
									B58	50%	100%	
									A11	50%	89%	
									B8	50%	86%	

Method: Flow Cytometry											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 20. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Other and C1q - class I

Method: Other											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B35	50%	100%	A2	50%	100%	A33	50%	100%	A11	50%	100%
B49	50%	100%	A68	50%	100%	B18	50%	100%	A2	50%	100%
B53	50%	100%	A69	50%	100%	B41	50%	100%	A69	50%	100%
B56	50%	100%	B57	50%	100%	B42	50%	100%	B41	50%	100%
B62	50%	100%	B58	50%	100%	B54	50%	100%	B42	50%	100%
B63	50%	100%	B62	50%	100%	B55	50%	100%	B45	50%	100%
B71	50%	100%	B72	50%	100%	B8	50%	100%	B49	50%	100%
B72	50%	100%	B75	50%	100%				B55	50%	100%
B75	50%	100%							B57	50%	100%
B77	50%	100%							B58	50%	100%
B78	50%	100%							B60	50%	100%
Cw4	50%	100%							B8	50%	100%

Other = Luminex PRA

Method: C1q											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Cw4	100%	100%	A2	100%	100%	B8	100%	100%	A2	100%	100%
Cw18	50%	100%	A68	100%	100%	Cw14	50%	100%	A69	100%	100%
			A69	100%	100%	Cw18	50%	100%	B41	100%	100%
			B57	100%	100%	Cw4	50%	100%	B42	100%	100%
			Cw15	100%	100%				B50	100%	100%
			Cw17	100%	100%				B57	100%	100%
			Cw18	100%	100%				B58	100%	100%
			Cw2	100%	100%				B45	50%	100%
			Cw5	100%	100%				B49	50%	100%
			Cw6	100%	100%				B55	50%	100%
			B62	50%	100%				B60	50%	100%
			Cw4	50%	100%						

Table 21. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Luminex - class I

Method: Luminex											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
26 typing Labs			26 typing Labs			26 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B75	100%	100%	Cw18	93%	100%	B42	100%	100%	A2	100%	100%
B77	100%	50%	Cw4	96%	100%	B59	100%	100%	A69	96%	100%
B35	96%	100%	Cw5	96%	33%	B37	96%	100%	B45	96%	100%
B53	96%	100%	A2	92%	100%	B41	96%	100%	B57	96%	100%
B71	96%	100%	A68	92%	100%	B54	96%	100%	B58	96%	100%
Cw4	96%	88%	A69	92%	100%	B55	96%	100%	B37	92%	100%
B51	96%	80%	B46	92%	100%	B8	96%	100%	B38	92%	100%
B72	96%	75%	B49	92%	100%	A29	96%	88%	B41	92%	100%
B62	96%	50%	B50	92%	100%	Cw8	96%	64%	B42	92%	100%
B63	96%	50%	B57	92%	100%	A33	92%	100%	B49	92%	100%
B49	92%	100%	B58	92%	100%	B18	92%	100%	B50	92%	100%
B76	92%	100%	B62	92%	100%	B64	92%	100%	B54	92%	100%
B78	92%	100%	B63	92%	100%	B65	92%	100%	B55	92%	100%
B50	92%	67%	B71	92%	100%	Cw1	92%	89%	B59	92%	100%
B57	88%	100%	B72	92%	100%	Cw5	92%	67%	B60	92%	100%
B56	88%	67%	B75	92%	100%	Cw18	88%	75%	B67	92%	100%
B46	81%	100%	B76	92%	100%	Cw12	88%	67%	B8	92%	80%
B52	81%	75%	B77	92%	100%	Cw4	88%	62%	A29	92%	75%
B73	50%	100%	Cw15	92%	100%	Cw14	88%	60%	A11	88%	100%
B58	46%	100%	Cw17	92%	100%	Cw15	88%	40%	A43	88%	100%
B7801	15%	100%	Cw2	92%	100%	Cw6	85%	36%	B13	88%	80%
			Cw6	92%	100%	A68	81%	100%	B47	88%	67%
			B13	88%	100%	Cw16	81%	100%	B39	81%	100%
			B35	88%	100%	A32	69%	100%	Cw15	81%	60%
			B51	88%	100%	A34	69%	67%	A32	69%	100%
			B52	88%	100%	B63	65%	100%	A3	50%	100%
			B53	88%	100%	Cw17	65%	100%	A25	46%	100%
			B55	88%	100%	Cw2	65%	100%	B62	46%	100%
			B56	88%	100%	A31	62%	100%	B64	42%	100%
			A24	85%	100%	A74	62%	100%	B18	38%	100%
			B78	85%	100%	Cw7	62%	100%	B51	31%	100%
			A74	81%	100%	B61	54%	100%	A203	23%	100%
			A29	77%	100%	A30	42%	100%	B44	23%	100%
			A3	77%	100%	A69	42%	100%	B52	23%	100%
			B45	77%	100%	B27	42%	100%	B63	23%	100%
			B44	77%	75%	Cw10	42%	50%	A36	19%	100%

Table 21. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Luminex - class I

Method: Luminex - cont.								
*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
26 typing Labs			26 typing Labs			26 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A11	73%	100%	B77	31%	100%	B3901	19%	100%
A23	73%	100%	B39	27%	100%	A1101	15%	100%
A31	69%	100%	B75	27%	100%	A1102	15%	100%
A32	69%	100%	B81	23%	100%			
Cw12	69%	100%	B51	19%	100%			
B27	62%	100%	B73	19%	100%			
B67	62%	100%	Cw9	19%	100%			
Cw10	54%	100%	B48	15%	100%			
A34	50%	100%	B72	15%	100%			
B59	50%	100%	B78	15%	100%			
A30	46%	100%	B82	15%	100%			
B64	42%	100%						
Cw9	42%	100%						
A25	38%	100%						
A33	38%	100%						
B38	38%	100%						
A43	35%	100%						
A66	35%	100%						
B39	31%	100%						
B42	31%	100%						
B54	31%	100%						
B18	27%	100%						
B41	27%	100%						
A2403	19%	100%						
B37	19%	100%						
B47	19%	100%						
A203	15%	100%						
A6602	15%	100%						
B2708	15%	100%						
B48	15%	100%						
B61	15%	100%						
B7801	15%	100%						
A1102	11%	100%						
Bw4	11%	100%						
Cw403	11%	100%						
A1101	8%	100%						

Table 22. Summary of the 572nd Serum Exchange (Serum #1281-1284) by NIH-Extended and Flow Cytometry - class II

Method: NIH-Extended											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
Undetermined			Undetermined			Undetermined			Undetermined		

Method: Flow Cytometry											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 23. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Other and C1q - class II

Method: Other											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	50%	100%	DQ4	50%	100%	NEG	100%	-	DQ2	50%	100%
			DQ5	50%	100%				DQ4	50%	100%
			DQ6	50%	100%				DQ7	50%	100%
			DQ8	50%	100%				DQ8	50%	100%
			DQ9	50%	100%				DQ9	50%	100%
			DR1	50%	100%				DR11	50%	100%
			DR4	50%	100%				DR12	50%	100%
									DR13	50%	100%
									DR14	50%	100%
									DR17	50%	100%
									DR18	50%	100%
									DR52	50%	100%
									DR7	50%	100%
									DR8	50%	100%
									DR9	50%	100%

Other = Luminex PRA

Method: C1q											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
	No consensus			No consensus		NT				No consensus	

Table 24. Summary of the 572nd Serum Exchange (Serum #1281-1284) by Luminex - class II

Method: Luminex											
*** Serum 1281 ***			*** Serum 1282 ***			*** Serum 1283 ***			*** Serum 1284 ***		
21 typing Labs			23 typing Labs			15 typing Labs			23 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR4	71%	80%	DQ6	100%	100%	NEG	80%	-	DR11	100%	100%
NEG	29%	-	DQ8	100%	100%	DQ6	20%	17%	DR12	100%	100%
DQ6	10%	100%	DQ9	100%	100%				DR13	100%	100%
			DR4	100%	100%				DR14	100%	100%
			DR53	100%	94%				DR17	100%	100%
			DQ4	100%	82%				DR18	100%	100%
			DR1	96%	100%				DR52	100%	100%
			DQ5	96%	85%				DR7	100%	100%
			DR9	91%	86%				DR8	100%	100%
			DR7	87%	83%				DQ7	96%	100%
			DQA1*03	83%	100%				DQ8	96%	100%
			DR14	57%	100%				DQ9	96%	100%
			DQA1*01	39%	100%				DR9	96%	100%
			DQA1*04	26%	100%				DPw2	78%	100%
			DP19	13%	100%				DPw4	65%	50%
			DR10	13%	100%				DQ4	57%	25%
			DR15	13%	100%				DQ2	57%	20%
			DR51	13%	100%				DP23	52%	100%
			DQ2	13%	40%				DP28	52%	33%
									DQA1*05	48%	100%
									DQA1*04	39%	100%
									DQ6	35%	100%
									DQA1*06	35%	100%
									DP18	30%	100%
									DPA1*01	26%	100%
									DP401	17%	100%
									DP402	17%	100%
									DPA1*03	17%	100%
									DR1403	17%	100%
									DR1404	17%	100%

Table 25. Individual laboratory results for Serum #1281 - 1284 by NIH-Standard and NIH-Extended - class I

**** Serum 1281 ****					**** Serum 1282 ****					**** Serum 1283 ****					**** Serum 1284 ****					Method
Ctr	% POS	Cw4		Other	% POS	A2		Other	% POS	B8		Other	% POS	A2	A28	Other				
786		+				+				+				+	+		STD			

Std = NIH-Standard

**** Serum 1281 ****						**** Serum 1282 ****					**** Serum 1283 ****				**** Serum 1284 ****					Method
Ctr	% POS	B35	B53	Cw4	Other	% POS	A2	B57	B62	Other	% POS	B8		Other	% POS	A2	B49	B50	Other	
725	22	+	+			43	+			A28	13	+			35	+				EXT
3753	15			+		47	+	+	+	B75,B63	5	+			46	+	+	+		EXT

Ext = NIH-Extended

Table 26. Individual laboratory results for Serum #1281 - 1284 by Antiglobulin and Flow Cytometry - class I

		**** Serum 1281 ****						**** Serum 1282 ****						**** Serum 1283 ****					**** Serum 1284 ****							
Ctr	% POS	B35	B51	B75	Cw4	Other	% POS	A2	A68	B62	B63	B70	Other	% POS	B8	A33	B42	Other	% POS	A2	A28	B17	B38	B39	Other	Method
774	43	+	+	+		B70,B62,B53	45	+		+	+	+	B51,B57	38	+	+	+	B55,B65,B18	70	+			+	+	A11,B50,B45,B55>	Antiglobulin
786					+			+	+						+					+	+	+				Antiglobulin

		**** Serum 1281 ****						**** Serum 1282 ****						**** Serum 1283 ****					**** Serum 1284 ****								
Ctr	% POS					Other	% POS						Other	% POS					Other	% POS						Other	Method
3224	47						99							88						89							FC
5214	44						99							97						95							FC
8067	42						97							83						79							FC

FC = Flow Cytometry

Table 27. Individual laboratory results for Serum #1281 - 1284 by Other and C1q - class I

		**** Serum 1281 ****							**** Serum 1282 ****							**** Serum 1283 ****							**** Serum 1284 ****																
Ctr	% POS	B35	B49	B53	B56	B62	B63	Other	% POS	A2	A68	A69	B57	B58	B62						Other	% POS	A33	B18	B41	B42	B54	B55	Other	% POS	A11	A2	A69	B41	B42	B45		Other	Method
2400	41								100													68																Other	
3753	50	+	+	+	+	+	+	Cw4,B78,B75,B77>	96	+	+	+	+	+	+						B75,B72	70	+	+	+	+	+	+	B8	76	+	+	+	+	+	+	B60,B49,B55,B57>	Other	

Other = Luminex PRA

		**** Serum 1281 ****							**** Serum 1282 ****										**** Serum 1283 ****					**** Serum 1284 ****													
Ctr	% POS	Cw4					Other	% POS	A2	A68	A69	B57	Cw15	Cw17	Cw18	Cw2	Cw5	Cw6	Other	% POS	B8	Cw4	Cw14	Cw18			Other	% POS	A2	A69	B41	B42	B50	B57	B58	Other	Method
786		+							+	+	+	+	+	+	+	+	+	+	B62		+								+	+	+	+	+	+	+		C1q
2400		+					Cw18		+	+	+	+	+	+	+	+	+	+	Cw4		+	+	+	+					+	+	+	+	+	+	+	B60,B49,B45,B55	C1q

Table 28. Individual laboratory results for Serum #1281 by Luminex - class I

		**** Serum 1281 ****																								
Ctr	% POS	B75	B77	B35	B53	B71	Cw4	B51	B72	B62	B63	B49	B76	B78	B50	B57	B56	B46	B52	B73	B58	B7801	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A34(A*34:01),Cw15	LMX	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
774	27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX	
910		+	+	+	+		+	+	+			+	+	+	+	+	+	+		+					LMX	
1647		+	+	+	+	+		+		+	+			+											LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+		LMX	
3632	59	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			LMX	
3808	16	+	+	+	+	+	+	+	+	+	+	+		+	+				+			+			LMX	
3966	25	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A80	LMX
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B44,B45,A34,A80	LMX
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
5219	11	+	+			+	+		+	+	+		+			+						+			Cw6,Cw403,A203,A2 >	LMX
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
6649	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX	
8045	18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								LMX	
8062	NT																								LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8086	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A24,B44,A26,A34 >	LMX
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B12C,B5C,B7C,A2C	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		B15	LMX
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			LMX

Table 29. Individual laboratory results for Serum #1282 by Luminex - class I

		**** Serum 1282 ****																																									
Ctr	% POS	Cw18	Cw4	Cw5	A2	A68	A69	B46	B49	B50	B57	B58	B62	B63	B71	B72	B75	B76	B77	Cw15	Cw17	Cw2	Cw6	B13	B35	B51	B52	B53	B55	B56	A24	B78	A74	A29	A3	B45	B44	A11	A23				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
774	89	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3632	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3808	38	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3966	58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
5219	11	+	+	+																																							
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
6649	56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
8045																																											
8062	NT																																										
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8086	42	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Table 29. Individual laboratory results for Serum #1282 by Luminex - class I, cont.

**** Serum 1282 ****							
Ctr	A31	A32	Cw12	B27	B67	Other	Method
615	+	+	+	+	+	B61,B48,A66,B47,B*40:02 >	LMX
725							LMX
774					+		LMX
786	+	+	+	+	+	A25,A34,A30,A33 >	LMX
910	+	+	+				LMX
1647							LMX
2400	+	+	+		+	Cw10	LMX
3224	+	+	+	+	+	A203,B61,B48,B47 >	LMX
3632	+	+	+	+	+	A66,A25,A34,A30 >	LMX
3753	+	+	+	+	+	A34,A30,B64,B39 >	LMX
3766	+	+	+	+	+	A34,Cw10,Cw9,A2403 >	LMX
3808						Cw403,A203,A2403,B7801	LMX
3966	+	+	+	+	+	B54,A25,A34,A30 >	LMX
4322	+	+	+	+	+	B48,A66,B47,B54 >	LMX
5214	+	+	+	+	+	B54,A25,A34,A30,A6601 >	LMX
5219			+			Cw403,B22,B54,A19 >	LMX
5462	+	+	+		+	Cw10	LMX
6649	+	+		+		A66,A43	LMX
8045							LMX
8062							LMX
8082	+	+	+	+	+	B61,B48,A66,B47 >	LMX
8086			+				LMX
8098	+	+		+		A203,A66,A30,A43 >	LMX
8100	+	+	+	+	+	A66,A25,A34,A30 >	LMX
8103				+		Cw403,A203,B15,A2403 >	LMX
8112	+	+	+	+	+	A66,A25,A34,A30 >	LMX
8117	+	+	+	+	+	B61,A66,B47,B54 >	LMX

Table 30. Individual laboratory results for Serum #1283 by Luminex - class I

		**** Serum 1283 ****																																		
Ctr	% POS	B42	B59	B37	B41	B54	B55	B8	A29	Cw8	A33	B18	B64	B65	Cw1	Cw5	Cw18	Cw12	Cw4	Cw14	Cw15	Cw6	A68	Cw16	A32	A34	B63	Cw17	Cw2	A31	A74	Cw7	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A30,A69	LMX		
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											LMX
774	57	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B27,B51,B75 >	LMX	
910		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
1647		+	+		+			+		+						+				+															LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A69	LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B48,B27,B51 >	LMX	
3632	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B27,A30,A69 >	LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B78,B27,B82 >	LMX	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,CW10	LMX	
3808	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								CW403	LMX		
3966	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B27,A30,CW10	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,B61,B48,B78 >	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2,B61,B27,B75,A1102,A6601>	LMX	
5219	24	+	+	+	+	+	+	+	+																								A11,A203,A2,B40 >	LMX		
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61	LMX	
6649	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									LMX	
8045	20	+	+	+		+	+	+	+	+	+	+	+	+	+								+												LMX	
8062		NT																																	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,B61,B48,A66 >	LMX	
8086	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW10	LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									B12C,B5C,B8C,B7C >	LMX	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B27,A30,CW10 >	LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										CW403,B14	LMX	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B27,A30,A69 >	LMX
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A2,B61,B48 >	LMX

Table 31. Individual laboratory results for Serum #1284 by Luminex - class I

		**** Serum 1284 ****																																			
Ctr	% POS	A2	A69	B45	B57	B58	B37	B38	B41	B42	B49	B50	B54	B55	B59	B60	B67	B8	A29	A11	A43	B13	B47	B39	Cw15	A32	A3	A25	B62	B64	B18	B51	A203	Other	Method		
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B*13:02	LMX		
725		+																																			LMX
774	77	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B44,B52,B63	LMX	
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B44,B27,B52,A74 >	LMX	
3632	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B52,A36,B63,B*13:02	LMX	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1101,A1102,B3901	LMX	
3808	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A1101,A1102	LMX	
3966	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	LMX	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,B44,B27,B52 >	LMX	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B*27:05,B*44:03>	LMX	
5219	15	+	+	+	+	+																												+	A24,A9,B15,B44 >	LMX	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B*13:02	LMX	
6649	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8045	26	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B3901	LMX
8062			NT																																	LMX	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4,B44,B27,B52 >	LMX	
8086	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW4	LMX	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B12C,B5C,B8C,B7C >	LMX
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	CW6,A24,B40,B61 >	LMX
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A36	LMX

Table 32. Individual laboratory results for Serum #1281 - 1284 by NIH-Extended and Flow Cytometry - class II

		**** Serum 1281 ****				**** Serum 1282 ****				**** Serum 1283 ****				**** Serum 1284 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
3753	U				U				U				U				EXT	

EXT = NIH-extended

U = undetermined

		**** Serum 1281 ****				**** Serum 1282 ****				**** Serum 1283 ****				**** Serum 1284 ****				
Ctr	% POS			Other	% POS			Other	% POS			Other	% POS			Other	Method	
3224	9				95				0				92				FC	
5214	13				96				27				92				FC	
8067	0				79				0				93				FC	

Table 33. Individual laboratory results for Serum #1281 - 1284 by Other and C1q - class II

**** Serum 1281 ****				**** Serum 1282 ****							**** Serum 1283 ****				**** Serum 1284 ****										
Ctr	% POS	DR4	Other	% POS	DQ4	DQ5	DQ6	DQ8	DQ9	Other	% POS			Other	% POS	DQ2	DQ4	DQ7	DQ8	DQ9	DR11	DR12	Other	Method	
2400	0			89							0				94									Other	
3753	13	+		77	+	+	+	+	+	DR1,DR4	0				80	+	+	+	+	+	+	+	DR7,DR8,DR9,DR13 >	Other	

Other = Luminex-PRA

**** Serum 1281 ****				**** Serum 1282 ****							**** Serum 1283 ****				**** Serum 1284 ****										
Ctr	% POS		Other	% POS	DQ8	DQ9	DR4			Other	% POS			Other	% POS	DR11	DR12	DR13	DR14				Other	Method	
2400	NT				+	+	+				NT					+	+	+	+				DR8,DR17,DR18,DR52	C1q	

Table 34. Individual laboratory results for Serum #1281 - 1283 by Luminex - class II

**** Serum 1281 ****				**** Serum 1282 ****														**** Serum 1283 ****			Method			
Ctr	% POS	DR4	Other	% POS	DQ6	DQ8	DQ9	DR4	DR53	DQ4	DR1	DQ5	DR9	DR7	DQA1*03	DR14	DQA1*01	DQA1*04	Other	% POS		DQ6	Other	
615		+	DQ6		+	+	+	+	+	+	+	+	+	+	+	+	+			DRB1*14:02	0			LMX
774	0			89	+	+	+	+	+	+	+	+	+	+	+	+	+				0			LMX
910		+			+	+	+	+	+	+	+	+	+	+	+					DQA1*03:01	0			LMX
1647		+			+	+	+	+	+			+												LMX
2400					+	+	+	+	+	+	+	+	+	+	+									LMX
3224		+			+	+	+	+	+	+	+	+	+	+	+	+	+			DR10,DR15,DR51				LMX
3632	0			86	+	+	+	+	+	+	+	+	+	+	+	+	+				0			LMX
3753		+			+	+	+	+	+	+	+	+	+	+	+	+	+			DRB1*14:02	0			LMX
3766					+	+	+	+	+	+	+	+	+	+	+	+								LMX
3808	0			32	+	+	+	+	+	+	+	+	+	+	+		+	+			0			LMX
3966				29	+	+	+	+	+	+	+	+	+		+		+			DQA1*02				LMX
4322		+	DQ6,DQA1*01		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DR10,DR15,DR51,DP19 >		+	DQA1*01	LMX
5214		+	DR11,DR51,DQ5,DPw5		+	+	+	+	+	+	+	+	+	+	+	+								LMX
5219	0			25	+	+	+	+	+	+			+	+	+		+	+		DQ1,DQ3	0			LMX
5462		+			+	+	+	+	+	+	+	+	+	+	+	+				DRB1*14:02	0			LMX
6649	3	+		36	+	+	+	+	+	+	+	+	+	+	+		+	+			0			LMX
8045	0			NT																	0			LMX
8062	NT			NT																	NT			LMX
8082		+			+	+	+	+	+	+	+	+	+	+	+	+	+			DR10,DR15,DR51,DP19		+	DR9,DQA1*05	LMX
8086	4	+		29	+	+	+	+	+	+	+	+	+							DQ2,DP19	1	+		LMX
8098		+			+	+	+	+	+	+	+	+	+	+	+		+	+						LMX
8100	0				+	+	+	+	+	+	+	+	+	+		+				DQ2,DQ7	0			LMX
8103		+			+	+	+	+	+	+	+		+	+			+	+		DQ3				LMX
8112		+			+	+	+	+	+	+	+	+	+			+				DQ2,DQ7	0			LMX
8117		+			+	+	+	+	+	+	+	+	+	+	+	+								LMX

Table 36. Summary of the 573rd Serum Exchange (Serum #1285-1288) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			NT			no consensus			no consensus		

Method: NIH-Extended											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	50%	75%	B44	50%	70%	A11	100%	100%	undefined		
						A25	100%	100%			
						A26	100%	100%			
						A34	100%	100%			
						A66	100%	100%			

Table 38. Summary of the 573rd Serum Exchange (Serum #1285-1288) by Other and C1q - class I

Method: Other											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
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%	B18	50%	100%	A1	50%	100%	NEG	50%	-
A11	50%	100%	B35	50%	100%	A11	50%	100%			
A23	50%	100%	B44	50%	100%	A25	50%	100%			
A24	50%	100%	B45	50%	100%	A26	50%	100%			
A3	50%	100%	B49	50%	100%	A34	50%	100%			
A36	50%	100%	B50	50%	100%	A36	50%	100%			
A80	50%	100%	B53	50%	100%	A66	50%	100%			
			B60	50%	100%	A68	50%	100%			
			B61	50%	100%	A80	50%	100%			
			B62	50%	100%	B41	50%	100%			
			B71	50%	100%	B42	50%	100%			
			B72	50%	100%	B44	50%	100%			
			B75	50%	100%	B45	50%	100%			
			B77	50%	100%	B61	50%	100%			
			B78	50%	100%						

Other = Luminex PRA

Method: C1q											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A24	50%	100%	NT			A1	100%	100%	NT		
						A11	100%	100%			
						A25	100%	100%			
						A26	100%	100%			
						A34	100%	100%			
						A43	100%	100%			
						A80	100%	100%			
						A36	50%	100%			
						A66	50%	100%			
						A6601	50%	100%			
						Cw6	50%	100%			

Table 39. Summary of the 573rd Serum Exchange (Serum #1285-1288) by Luminex - class I

Method: Luminex												
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***			
26 typing Labs			26 typing Labs			26 typing Labs			20 typing Labs			
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	
A1	100%	100%	B13	100%	100%	A1	100%	100%	A25	50%	100%	
A23	100%	100%	B18	100%	100%	A25	100%	100%	NEG	45%	-	
A24	100%	100%	B35	100%	100%	A26	100%	100%	A3	20%	100%	
A3	100%	100%	B38	100%	100%	A34	100%	100%	B44	5%	50%	
A36	100%	100%	B41	100%	100%	A36	100%	100%				
A80	100%	100%	B44	100%	100%	A43	100%	100%				
B76	96%	100%	B45	100%	100%	A68	100%	100%				
A11	92%	100%	B49	100%	100%	A80	100%	100%				
A32	69%	100%	B50	100%	100%	B73	100%	100%				
B71	69%	100%	B53	100%	100%	B41	96%	100%				
B35	69%	80%	B56	100%	100%	B42	96%	100%				
B39	65%	100%	B60	100%	100%	B44	96%	100%				
B45	65%	100%	B61	100%	100%	B45	96%	100%				
B75	62%	80%	B62	100%	100%	B47	96%	100%				
B72	62%	75%	B71	100%	100%	B49	96%	100%				
A25	58%	100%	B72	100%	100%	B50	96%	100%				
B46	58%	100%	B75	100%	100%	B54	96%	100%				
B50	58%	100%	B76	100%	100%	B55	96%	100%				
B62	58%	100%	B77	100%	100%	B67	96%	100%				
B57	58%	83%	B63	100%	75%	B7	96%	100%				
B60	58%	80%	B47	96%	100%	A11	92%	100%				
Cw10	54%	100%	B52	96%	100%	A66	92%	100%				
Cw9	54%	100%	B78	96%	100%	Cw6	92%	100%				
B41	50%	100%	B51	92%	100%	Cw7	92%	100%				
B48	50%	100%	B64	92%	100%	B56	92%	67%				
B58	50%	100%	B59	92%	67%	B38	88%	100%				
B61	50%	100%	B37	88%	100%	B60	88%	100%				
B18	42%	100%	B48	88%	100%	B61	88%	100%				
B64	42%	100%	B39	88%	67%	B71	88%	100%				
B78	35%	100%	B57	77%	50%	B37	85%	100%				
A2403	26%	100%	B46	73%	67%	B82	85%	100%				
A1101	19%	100%	B65	73%	50%	Cw18	85%	100%				
A1102	19%	100%	B58	65%	100%	B59	81%	100%				
			B8	50%	100%	B18	81%	80%				
			B82	42%	100%	B72	81%	75%				

Table 39. Summary of the 573rd Serum Exchange (Serum #1285-1288) by Luminex - class I

Method: Luminex - cont.

*** Serum 1286 ***		
26 typing Labs		
Antigen	Consensus	Inclusion
B3901	22%	100%

*** Serum 1287 ***		
27 typing Labs		
Antigen	Consensus	Inclusion
B13	77%	100%
B39	77%	100%
B81	77%	100%
Cw4	77%	100%
B48	73%	100%
B52	73%	100%
B64	69%	100%
B27	62%	100%
B58	62%	100%
A2	58%	100%
B51	58%	100%
B65	58%	100%
A69	54%	100%
B76	54%	100%
B78	54%	100%
B8	46%	100%
B53	42%	100%
B35	38%	100%
A24	31%	100%
A2403	27%	100%
Cw12	27%	100%
Cw15	27%	100%
A33	23%	100%
A1101	19%	100%
A1102	19%	100%
A6601	19%	100%
A6602	19%	100%
A29	19%	50%

Table 40. Summary of the 573rd Serum Exchange (Serum #1285-1288) by NIH-Extended and Flow Cytometry - class II

Method: NIH-Extended											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
undefined			undefined			undefined			undefined		

Method: Flow Cytometry											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 41. Summary of the 573rd Serum Exchange (Serum #1285-1288) by Other and C1q - class II

Method: Other											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	50%	100%	DR1	50%	100%	DQ2	50%	100%	DR7	50%	100%
DQ7	50%	100%	DR10	50%	100%	DR12	50%	100%	DR9	50%	100%
DQ8	50%	100%	DR103	50%	100%	DR7	50%	100%			
DQ9	50%	100%	DR7	50%	100%	DR9	50%	100%			
DR4	50%	100%									
DR7	50%	100%									

Other = Luminex PRA

Method: C1q											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
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			NT			NT			no consensus		

Table 42. Summary of the 573rd Serum Exchange (Serum #1285-1288) by Luminex - class II

Method: Luminex											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
24 typing Labs			21 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ7	96%	100%	DR103	76%	100%	DR7	100%	100%	DR7	100%	100%
DQ8	96%	100%	DR7	76%	100%	DR9	96%	100%	DPw3	96%	100%
DQ9	96%	100%	DR51	71%	100%	DQ2	96%	80%	DPw6	96%	100%
DR4	96%	100%	DR1	67%	100%	DR52	92%	41%	DR9	96%	71%
DR8	96%	80%	DR10	38%	100%	DR12	83%	88%	DR53	92%	76%
DPw3	92%	100%	DR9	38%	100%	DR53	63%	100%	DPw2	92%	67%
DR11	92%	100%	DR53	29%	100%	DQA1*05	13%	100%	DP14	88%	100%
DPw6	88%	100%	DPw1	24%	100%				DP18	88%	100%
DR7	88%	100%	DPw2	24%	100%				DP9	88%	100%
DQ6	88%	83%	DPw3	24%	100%				DP17	83%	100%
DR16	79%	100%	DPw5	24%	100%				DP20	71%	100%
DR9	79%	100%	DPw6	24%	100%				DP28	71%	67%
DP14	75%	100%	DP11	19%	100%				DP10	67%	100%
DP17	75%	100%	DP13	19%	100%				DPw4	67%	50%
DP9	75%	100%	DP14	19%	100%				DP402	29%	100%
DPw1	75%	100%	DP15	19%	100%				DR11	29%	100%
DR15	75%	100%	DP18	19%	100%				DP11	13%	100%
DP19	71%	100%	DP19	19%	100%				DP19	13%	100%
DQ4	71%	100%	DP9	19%	100%				DPA1*01	13%	100%
DP11	58%	100%	DPA1*01	19%	100%				DPA1*04	13%	100%
DP20	58%	100%	DPA1*03	19%	100%						
DR1	46%	100%	DPA1*04	19%	100%						
DPw5	38%	100%	DPw4	19%	100%						
DR53	38%	100%	DQ6	19%	17%						
DQA1*05	29%	100%	DR4	14%	20%						
DP13	29%	33%									
DP10	25%	100%									
DQA1*06	25%	100%									
DQA1*03	21%	100%									
DPA1*02	13%	100%									
DPA1*03	13%	100%									
DQA1*01	13%	100%									

Table 43. Individual laboratory results for Serum #1285 - 1288 by NIH-Standard and NIH-Extended - class I

		**** Serum 1285 ****			**** Serum 1286 ****			**** Serum 1287 ****					**** Serum 1288 ****						
Ctr	% POS			Other	% POS			Other	% POS	A10	A11			Other	% POS			Other	Method
786	NT			Other	NT			Other		+	+			Other	NT			Other	STD

STD = NIH-Standard

		**** Serum 1285 ****			**** Serum 1286 ****			**** Serum 1287 ****					**** Serum 1288 ****							
Ctr	% POS	B13		Other	% POS	B44		Other	% POS	A11	A25	A26	A34	A66	Other	% POS			Other	Method
725	6	+			20	+			30	+	+	+	+	+		NT				EXT
3753	6				13				31	+	+	+	+	+		U				EXT

Ext = NIH-Extended

Table 44. Individual laboratory results for Serum #1285 - 1288 by Antiglobulin and Flow Cytometry - class I

		**** Serum 1285 ****					**** Serum 1286 ****							**** Serum 1287 ****										**** Serum 1288 ****										
Ctr	% POS	A1	A24	A11	Other	% POS	B44	B45	B49	B50	B62	B70	B75	B41	B35	Other	% POS	A1	A11	A10	A25	A26	A34	A36	A66	A32	B55	B44	Other	% POS			Other	Method
774	42	+	+	+		42	+	+	+	+	+	+	+	+	+		56	+	+		+	+	+	+	+	+	+	+		0				Antiglobulin
786	NT					NT												+	+	+									NT				Antiglobulin	

		**** Serum 1285 ****					**** Serum 1286 ****							**** Serum 1287 ****										**** Serum 1288 ****										
Ctr	% POS				Other	% POS									Other	% POS														% POS			Other	Method
3224	81					88										92													3				FC	
5214	96					96										99													0				FC	
8067	82					97										91												18				FC		

FC = Flow cytometry

Table 45. Individual laboratory results for Serum #1285 - 1288 by Other and C1q - class I

		**** Serum 1285 ****									**** Serum 1286 ****								**** Serum 1287 ****								**** Serum 1288 ****							
Ctrl	% POS	A1	A11	A23	A24	A3	A36	A80	Other	% POS	B18	B35	B44	B45	B49	B50	B53	Other	% POS	A1	A11	A25	A26	A34	A36	A66	Other	% POS				Other	Method	
2400	80									91									100														Other	Other
3753	64	+	+	+	+	+	+	+		68	+	+	+	+	+	+	+	B60,B61,B78,B62>	80	+	+	+	+	+	+	+	B61,B44,B45,A68>	0					Other	

Other = Luminex PRA

		**** Serum 1285 ****									**** Serum 1286 ****								**** Serum 1287 ****								**** Serum 1288 ****						
Ctrl	% POS	A24							Other	% POS									% POS	A1	A11	A25	A26	A34	A43	A80	Other	% POS					Method
786		+								NT										+	+	+	+	+	+	+	A6601,Cw6	NT					C1q
2400	NT									NT										+	+	+	+	+	+	+	A36,A66	NT					C1q

Table 46. Individual laboratory results for Serum #1285 by Luminex - class I

		**** Serum 1285 ****																																			
Ctr	% POS	A1	A23	A24	A3	A36	A80	B76	A11	A32	B71	B35	B39	B45	B75	B72	A25	B46	B50	B62	B57	B60	Cw10	Cw9	B41	B48	B58	B61	B18	B64	B78	Other	Method				
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex			
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex		
774	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex		
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Bw6		Luminex		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex	
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex	
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		A2403,B7801,A1101,A1102 >		Luminex	
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34		Luminex	
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102,B3901		Luminex
3808	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102		Luminex	
3966	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A34,B63		Luminex
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63,A6601		Luminex
5219	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,B15,B70,A2403 >		Luminex	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
6649	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
8045	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403		Luminex
8062	NT																																			Luminex	
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63		Luminex
8086	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34		Luminex
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1C,A2C		Luminex
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,A2403,A1101,A1102		Luminex
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A26,A34,A29 >		Luminex

Table 47. Individual laboratory results for Serum #1286 by Luminex - class I

		**** Serum 1286 ****																																									
Ctr	% POS	B13	B18	B35	B38	B41	B44	B45	B49	B50	B53	B56	B60	B61	B62	B71	B72	B75	B76	B77	B63	B47	B52	B78	B51	B64	B59	B37	B48	B39	B57	B46	B65	B58	B8	Other	Method						
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex					
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex				
774	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex					
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4,Bw6	Luminex				
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex				
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex				
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex				
3632	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7801,B8201	Luminex				
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex			
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B8C,B3901	Luminex			
3808	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,B3901	Luminex			
3966	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,Cw10,Cw9	Luminex	
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Bw4	Luminex	
5219	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B40,B15,B70,B21 >	Luminex		
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex		
6649	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex		
8045	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B3901	Luminex	
8062	NT																																								Luminex		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex	
8086	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,A34	Luminex
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,B703,B12C,B5C >	Luminex
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B12C,B5C,B8C	Luminex
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B40,B15,B82,B7801 >	Luminex
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex

Table 48. Individual laboratory results for Serum #1287 by Luminex - class I, cont.

**** Serum 1287 ****													
Ctr	% POS	A69	B76	B78	B8	B53	B35	A24	A2403	Cw12	Cw15	Other	Method
615		+	+	+	+	+	+	+	+	+	+	A33,A*24:03	Luminex
725													Luminex
774	93												Luminex
786		+	+	+	+		+	+		+	+	Bw4,Bw6	Luminex
910		+	+	+		+							Luminex
1647													Luminex
2400													Luminex
3224		+	+		+	+	+		+	+	+	A203,B8101,B2708,B7801 >	Luminex
3632	100	+	+	+	+	+	+		+	+	+	A29,A31,A33	Luminex
3753				+	+								Luminex
3766		+	+					+	+			B8101,A1101,A1102,A6601 >	Luminex
3808	57					+			+			Cw403,B703,B8101,B2708 >	Luminex
3966	58	+	+		+			+				A29	Luminex
4322		+	+	+	+	+	+		+	+	+	A33,Cw1,Cw5,Cw8 >	Luminex
5214		+	+	+	+	+	+	+				A29,A33	Luminex
5219	38			+								B40,B70,A10,B21 >	Luminex
5462			+										Luminex
6649	49			+				+					Luminex
8045	33												Luminex
8062	NT												Luminex
8082		+	+	+	+	+	+			+	+	Cw1,Cw5,Cw8,Cw14	Luminex
8086	75	+	+	+	+	+	+	+		+	+	A29,A31,A33,Cw17	Luminex
8098				+		+	+		+			B703,B12C,B5C,B8C >	Luminex
8100		+	+	+								B12C,A1C	Luminex
8103												A1101,A1102,A6601,A6602	Luminex
8112		+			+								Luminex
8117		+	+	+	+	+	+	+				A29,A31,A33,B2708	Luminex

Table 49. Individual laboratory results for Serum #1288 by Luminex - class I

**** Serum 1288 ****				
Ctr	% POS	A25	Other	Method
615		+	A3	Luminex
725				Luminex
774	0			Luminex
786		+		Luminex
910		+		Luminex
1647				Luminex
2400				Luminex
3224		+		Luminex
3632	3	+		Luminex
3753	0			Luminex
3766		+		Luminex
3808	0			Luminex
3966	2	+		Luminex
4322		+	A3	Luminex
5214				Luminex
5219	0			Luminex
5462		+		Luminex
6649	0			Luminex
8045	0			Luminex
8062				Luminex
8082	0			Luminex
8086	3	+	B44,A3	Luminex
8098				Luminex
8100	0			Luminex
8103				Luminex
8112	0			Luminex
8117			A3	Luminex

Table 50. Individual laboratory results for Serum #1285 - 1288 by NIH-Extended and Flow Cytometry - class II

**** Serum 1285 ****				**** Serum 1286 ****				**** Serum 1287 ****				**** Serum 1288 ****				
Ctr	% POS		Other	% POS		Other	% POS		Other	% POS	DR7		Other	Method		
3753	16			4			24			16	+			EXT		

Ext = NIH- Extended

**** Serum 1285 ****				**** Serum 1286 ****				**** Serum 1287 ****				**** Serum 1288 ****				
Ctr	% POS		Other	% POS		Other	% POS		Other	% POS			Other	Method		
3224	70			62			52			50				FC		
5214	96			61			64			51				FC		
8067	97			61			67			50				FC		

FC = Flow Cytometry

Table 51. Individual laboratory results for Serum #1285 - 1288 by Other and C1q - class II

**** Serum 1285 ****							**** Serum 1286 ****					**** Serum 1287 ****					*** Serum 1288 ***						
Ctr	% POS	DQ6	DQ7	DQ8	DQ9	Other	% POS	DR1	DR10	DR103	DR7	Other	% POS	DQ2	DR12	DR7	DR9	Other	% POS	DR7	DR9	Other	Method
2400	83						11						40						60				Other
3753	80	+	+	+	+	DR4,DR7	50	+	+	+	+		43	+	+	+	+		37	+	+		Other

Other = Luminex PRA

**** Serum 1285 ****						**** Serum 1286 ****					**** Serum 1287 ****					*** Serum 1288 ***					
Ctr	% POS	DQ8			Other	% POS				Other	% POS				Other	% POS	DR7		Other	Method	
2400		+															+				C1q

Table 52. Individual laboratory results for Serum #1285 by Luminex - class II

		**** Serum 1285 ****																														
Ctr	% POS	DQ7	DQ8	DQ9	DR4	DR8	DPw3	DR11	DPw6	DR7	DQ6	DR16	DR9	DP14	DP17	DP9	DPw1	DR15	DP19	DQ4	DP11	DP20	DR1	DPw5	DR53	DQA1*05	DP13	DP10	DQA1*06	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*05:05, DQA1*05:03,DQA1*05:01	Luminex	
774	74					+																										Luminex
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+				DQA1*05:01	Luminex	
1647		+	+	+	+																											Luminex
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
3632	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							Luminex
3753		+	+	+	+	+	+	+	+	+				+	+	+	+			+		+	+				+					Luminex
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
3808	30	+	+	+	+	+	+	+	+	+	+		+	+	+	+																Luminex
3966	64	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+		+	+	+	+			+	DPA1*02,DPA1*03,DQA1*01,DQA1*02 >	Luminex	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*01,DPA1*02,DPA1*03,DQA1*01 >	Luminex
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+										Luminex
5219	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								DR2,DR5,DQ1,DQ3	Luminex	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		DQ2,DQA1*05	Luminex	
6649	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		DQA1*03	Luminex	
8045	42	+	+	+	+	+	+	+	+	+	+	+	+				+	+		+			+	+								Luminex
8062	NT																															Luminex
8082		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+		+	+	+		+	+	DPA1*02,DPA1*03,DQA1*01,DQA1*03	Luminex	
8086	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ2	Luminex	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+					+		DQA1*03	Luminex	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
8103		+	+	+	+	+	+		+			+																		DQ3	Luminex	
8112		+	+	+	+	+	+	+		+	+						+	+	+	+	+	+					+					Luminex
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex

Table 53. Individual laboratory results for Serum #1286 - 1287 by Luminex - class II

Ctr	**** Serum 1286 ****													Other	% POS	**** Serum 1287 ****							Other	Method
	% POS	DR103	DR7	DR51	DR1	DR10	DR9	DR53	DPw1	DPw2	DPw3	DPw5	DPw6			DR7	DR9	DQ2	DR52	DR12	DR53			
615		+	+	+	+	+	+	+												DRB3*01:01,DRB3*03:01	Luminex			
774	9																					Luminex		
910		+	+	+	+															DRB3*01:01,DRB3*03:01	Luminex			
1647															+	+						Luminex		
2400															+	+	+	+				Luminex		
3224		+	+	+	+	+	+								+	+	+	+	+			Luminex		
3632	60	+	+	+	+										+	+	+	+	+			Luminex		
3753		+	+	+	+										+	+	+	+	+	DRB3*01:01,DRB3*03:01	Luminex			
3766		+													+	+	+	+	+			Luminex		
3808	26								+	+	+	+	+		+	+	+	+		DP9,DP11,DP13,DP15 >	Luminex			
3966	12	+	+	+	+	+	+								+	+	+	+	+	DQA1*05	Luminex			
4322		+	+	+	+	+	+								+	+	+	+	+	DR3,DQA1*03,DQA1*04,DQA1*05	Luminex			
5214		+	+												+	+	+	+	+	DRB3*01,DRB3*03	Luminex			
5219	0		+												+	+	+	+	+	DR5	Luminex			
5462		+	+	+	+										+	+	+	+	+	DRB3*01:01,DRB3*03:01	Luminex			
6649	39		+	+	+	+	+		+	+	+	+	+		+	+	+	+	+	DPw4,DQ6,DP9,DP11 >	Luminex			
8045	35	+	+	+	+				+	+	+	+	+		+	+	+	+		DPw4,DQ6	Luminex			
8062	NT																					Luminex		
8082		+	+	+	+	+	+								+	+	+	+	+	DQA1*05	Luminex			
8086	8	+	+	+	+										+	+	+	+	+	DR4,DQ6	Luminex			
8098		+	+	+	+	+			+	+	+	+	+		+	+	+	+	+	DR4,DR15,DR16,DR52 >	Luminex			
8100	0														+	+	+	+	+		Luminex			
8103									+	+	+	+	+		+	+				DPw4,DP9,DP11,DP13 >	Luminex			
8112		+		+											+	+	+	+	+		Luminex			
8117		+	+	+	+	+	+								+	+	+	+	+	DR4	Luminex			

Table 54. Individual laboratory results for Serum #1288 by Luminex - class II

**** Serum 1288 ****																			
Ctr	% POS	DR7	DPw3	DPw6	DR9	DR53	DPw2	DP14	DP18	DP9	DP17	DP20	DP28	DP10	DPw4	DP402	DR11	Other	Method
615		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	DPB1*04:02	Luminex
774	54	+	+	+	+	+	+	+		+	+	+							Luminex
910		+	+	+	+	+	+	+	+	+	+	+		+	+			DRB1*04:02	Luminex
1647		+																	Luminex
2400		+	+	+	+	+	+	+	+	+		+	+	+	+			DR17	Luminex
3224		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DPw1,DP11,DP19	Luminex
3632	50	+	+	+	+	+	+	+	+	+	+	+	+	+					Luminex
3753		+	+	+	+	+	+	+	+	+	+	+		+					Luminex
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
3808	14	+	+	+	+	+	+	+	+	+	+		+				+		Luminex
3966	23	+	+	+	+	+	+		+			+		+	+			DPA1*01,DPA1*02,DPA1*03,DPA1*04	Luminex
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DPw1,DP11,DP13,DP19 >	Luminex
5214		+	+	+	+	+	+	+	+	+	+	+	+	+		+			Luminex
5219	14	+	+	+	+	+	+	+	+	+	+		+		+				Luminex
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+			DPB1*04:02	Luminex
6649	15	+	+	+	+	+	+	+	+	+	+		+		+		+		Luminex
8045	17	+	+	+	+	+									+		+		Luminex
8062	NT																		Luminex
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DP19,DPA1*01,DPA1*04	Luminex
8086	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8098		+	+	+	+	+	+	+	+	+	+		+		+		+		Luminex
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8103		+	+	+	+		+	+	+	+	+				+				Luminex
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8117		+	+	+	+	+	+	+	+	+	+	+	+	+		+		DP11	Luminex