

B-CELL LINE EXCHANGE #289

OCTOBER 7, 2020

B-cell Lines 577-578

The results for B-cell Line Exchange #289 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We are grateful to the generosity of **Welsh Blood Service, Pontyclun** for sharing the interesting cells examined in this study.

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

Ter-577. The consensus type for this cell from a Caucasian donor is DRB1*07:01-DRB1*12:01-DRB3*02:02-DRB4*01:03:01:02N-DQA1*02:01-DQA1*05:05-DQB1*03:01-DQB1*03:03-DPA1*01:03-DPB1*04:01-DPB1*20:01/A*26:01-A*32:01-B*07:02-B*27:23-C*02:02-C*07:02. Based on B*27:23 family studies examined by Darke et al. (1) and data collected from this study, the haplotypes present in this cell are most likely A*26:01-B*27:23-C*02:02-DRB1*12:01-DRB3*02:02-DQA1*05:05-DQB1*03:01 and A*32:01-B*07:02-C*07:02-DRB1*07:01-DRB4*01:03:01:02N-DQA1*02:01-DQB1*03:03.

This cell was previously examined in the Class I DNA Extract Exchange as Ext 394 (2007) and Ext 569 (2013). In this present retyping, B*27:23 was reported in complete consensus by labs reporting at high resolution. Good agreement ($\geq 90\%$) was also achieved for all other loci in this sample.

Reference:

1. Darke C, Street J, Hammond L, et al. Immunogenetic study of a new HLA allele, B*2723. *Tissue Antigens* 2002;60:400-403.

Ter-578. The consensus type for this cell from a Caucasian donor is DRB1*01:01-DRB1*07:01-DRB4*01:01-DQA1*01:01-DQA1*02:01-DQB1*02:02-DQB1*05:01-DPA1*01:03-DPA1*02:01-DPB1*04:02-DPB1*11:01/A*24:21-A*31:01-B*07:02-B*49:01-C*07:01-C*07:02. One likely association present in this cell is B*07:02-C*07:02-DRB1*01:01-DQB1*05:01, commonly observed in Caucasians, with HF = 0.00979. The other likely association present is then B*49:01-C*07:01-DRB1*07:01-DQB1*02:02.

This cell is 37057, one of the reference cells for A*24:21:01. It was previously examined in the Class I DNA Extract Exchange as Ext 402 (2007). In this present retyping, A*24:21 was assigned by 100% of labs, with 8 assigning A*24:21:01. Good concordance ($\geq 90\%$) was achieved for all loci as well. DPA1 low resolution results were not graded for this sample as there were < 10 labs reporting.

NEXT MAILING DATE: November 4, 2020

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Table 2: Summary of the 289th B-cell Line Exchange

Ter-578

Ter-578												
DNA Typing - class II	28 labs High; 24 labs low-DRB1	%(n)	18 labs High; 17 labs Low-DRB3/4/5	%(n)	21 labs High; 21 labs Low-DQA1	%(n)	27 Labs High; 22 labs Low-DQB1	%(n)	15 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 13 labs Low-DPB1	%(n)
	DRB1*01:01:01	28(8)	DRB4*01:01:01	22(4)	DQA1*01:01:01	19(4)	DQB1*02:02:01	18(5)	DPA1*01:03:01	27(4)	DPB1*04:02:01	28(7)
	DRB1*01:01:01G	11(3)	DRB4*01:01	78(14)	DQA1*01:01	81(17)	DQB1*02:01:01G	4 (1)	DPA1*01:03:01G	13(2)	DPB1*04:02:01G	8 (2)
	DRB1*01:01P	4 (1)	DRB4*01	76(13)	DQA1*01	100(21)	DQB1*02:02	78(21)	DPA1*01:03	60(9)	DPB1*04:02	60(15)
	DRB1*01:01	57(16)	DRB4*PRESENT	24(4)					DPA1*01	100(9)	DPB1*04:01	4 (1)
	DRB1*01	100(24)									DPB1*04(DP402)	46(6)
											DPB1*04	54(7)
	DNA Typing - class I	22 labs High; 21 labs low- A	%(n)	22 labs High; 21 labs low- B	%(n)	22 labs High; 21 labs low- C	%(n)					
A*24:21:01		36(8)	B*07:02:01:01	4 (1)	C*07:01:01:16	4 (1)	27 Labs High; 22 labs Low-DQB1	%(n)	15 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 13 labs Low-DPB1	%(n)
A*24:21		64(14)	B*07:02:01	27(6)	C*07:01:01	27(6)	DQB1*05:01:01	22(6)	DPA1*02:01:01	27(4)	DPB1*11:01:01	32(8)
A*24		100(21)	B*07:02:01G	4 (1)	C*07:01:01G	9 (2)	DQB1*05:01:01G	7 (2)	DPA1*02:01:01G	13(2)	DPB1*11:01G	4 (1)
			B*07:02	64(14)	C*07:01	59(13)	DQB1*05:01	70(19)	DPA1*02:01	60(9)	DPB1*11:01	64(16)
			B*07	100(21)	C*07	100(21)	DQB1*05	100(22)	DPA1*02	100(9)	DPB1*11	100(13)
DNA Typing - class I		22 labs High; 21 labs low- A	%(n)	22 labs High; 19 labs low- B	%(n)	22 labs High- C	%(n)					
	A*31:01:02:01	9 (2)	B*49:01:01:01	4 (1)	C*07:02:01:03	4 (1)						
	A*31:01:02	23(5)	B*49:01:01	27(6)	C*07:02:01	27(6)						
	A*31:01:02G	4 (1)	B*49:01:01G	4 (1)	C*07:02:01G	4 (1)						
	A*31:01	64(14)	B*49:01	64(14)	C*07:02	64(14)						
	A*31	100(21)	B*49	100(21)								

Table 3a: Individual laboratory results for B-cell #577 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*07	*12	3*02	4*01	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO	
725	*07	*12	3*PRESENT	4*PRESENT	*02	*05	*03	*03					SSP SSO	
731	*07	*12	3*02	4*01	*02	*05	*03	*03	*01	*01	*04	*20	SSO SBT RT-PCR	
747	*07	*12	3*PRESENT	4*PRESENT	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO NGS	
771	*07	*12			*02	*05	*03	*03					SSO NGS	
774	*07	*12	3*02	4*01N	*02	*05	*03	*03			*04(DP401)	*20	SSP SSO	
792	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04	*20	SSP SSO NGS	
793	*07	*12	3*02	4*01N	*02	*05	*03	*03			*04(DP401)	*20	SSP SSP SSO NGS	
794	*07	*12	3*02	4*01N	*02	*05	*03		*01		*04	*20	RT-PCR	
2400	*07	*12	3*02	4*01N	*02	*05	*03				*04	*20	SSO NGS	
2847	*07	*12											SSO SSP NGS	
3519	*07	*12			*02	*05	*03		*01		*04(DP401)	*20	RT-PCR	
3753	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04(DP401)	*20	SSO	
3966													SSP	
4079	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01		*04(DP401)	*20	SSO	
5130	*07	*12	3*02	4*01	*02	*05	*03	*03			*04	*20	SSO NGS	
5214	*07	*12	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01		*04(DP401)	*20	SSO	
5219	*07	*12			*02	*05	*03	*03					SSO NGS	
5451	*07	*12	3*02	4*01N	*02	*05	*03	*03					SSO SBT	
5462	*07	*12	3*02	4*01N	*02	*05	*03	*03	*01		NT	NT	RT-PCR	
5488													SSP SSO NGS	
5642	*07	*12	3*PRESENT	4*PRESENT			*03	*03					SSP	
6649	*07	*12											SSO	
8029	*07	*12			*02	*05	*03	*03					SSO	
8043	*07	*12			*02	*05	*03	*03					SSP SSO	
8068	*07	*12			*02	*05	*03						SSO	

Table 3b: Individual laboratory results for B-cell #577 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSO NGS	
278	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO	
731	*07:01:01G	*12:01:01G					*03:01:01G	*03:03:02G			*04:01:01G	*20:01:01G	SSO SBT RT-PCR	
747	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01	*03:03:02	*01:03:01	*01:03:01	*04:01:01	*20:01:01	SSP SSO NGS	DRB1*12:10 DPB1*905:01 DPB1*350:01
762	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01	NGS	DPB1*350:01 DPB1*905:01
771	*07:01	*12:01					*03:01	*03:03					SSO NGS	
774	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSP SSO	DRB1*07:31 DRB1*07:33 DRB1*12:25 DRB1*12:28 DRB1*12:29 DRB1*12:34 DRB1*12:36 DQB1*03:73 DQB1*03:92 DQB1*03:93 DQB1*03:136
792	*07:01	*12:01	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO NGS	DPB1*350:01
793					*02:01	*05:05					*04:01	*20:01	SSP	
794	*07:01	*12:01	3*02:02:01	4*01:03:01N	*02:01	*05:05	*03:01	*03:03:02	NT	NT	*04:01:01	*20:01:01	SSP SSO NGS RT-PCR	DRB1*07:79 DRB1*12:10
2344	*07:01:01	*12:01:01	NT	NT	NT	NT	*03:01:01	*03:03:02	NT	NT	*04:01:01	*20:01:01	NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
2400	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
3135	*07:01P	*12:01P	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01		DQA1*05:09
3224	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01	NGS	
3511	*07:01	*12:01	3*02:02	4*01:03:01N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*20:01	SSP SSO	
3519	*07:01	*12:01P	3*02:02	4*01:03N	*02:01	*05:05	*03:01P	*03:03	*01:03	*01:03	*04:01P	*20:01	SSP NGS RT-PCR	DRB1*12:10
3966	*07:01	*12:01	3*02:02	4*01:03:01:02N			*03:01	*03:03					SSP	
4251	*07:01:01G	*12:01:01G	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01:01G	*20:01:01G	NGS	
4337	*07:01	*12:01					*03:01	*03:03			*04:01	*20:01	SSP SBT NGS	
5130	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03			*04:01	*20:01	SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
5133	*07:01:01	*12:01:01	3*02:02:01:02	4*01:03:01:02N	*02:01:01:01	*05:05:01:06	*03:01:01:05	*03:03:02:01	*01:03:01:02	*01:03:01:03	*04:01:01:05	*20:01:01	NGS	DPB1*939:01N
5214											*04:01G	*20:01G	SSO	
5219	*07:01:01	*12:01:01					*03:01:01	*03:03:02			*04:01:01	*20:01:01	SSO NGS	

Table 3b: Individual laboratory results for B-cell #577 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	*07:01:01	*12:01:01											SSO SBT	
5488	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01:01G	*03:03:02	*01:03:01		*04:01:01	*20:01:01	SSP SSO NGS	DRB1*12:10 DPB1*350:01 DPB1*905:01
5642	*07:01	*12:01					*03:01	*03:03					SSP	
8021	*07:01	*12:01	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*20:01		
8043	*07:01	*12:01			*02:01	*05:05	*03:01	*03:03					SSP SSO	
8086	*07:01	*12:01			*02:01	*05:05	*03:01	*03:03	*01:03:01G	*01:03:01G	*04:01	*20:01	SBT	
8122	*07:01:01	*12:01:01	3*02:02:01	4*01:03:01N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01		*04:01:01	*20:01:01	NGS	DPB1*939:01 DPB1*350:01 DPB1*905:01

Table 4: Individual laboratory results for B-cell #577 - Class I

Table 4: Individual laboratory results for B-cell #577 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
278	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO	
725	*26	*32	*07	*27	*02	*07							SSP SSO	
731	*26	*32	*07	*27	*02	*07	*26:01:01G	*32:01:01G	*07:02:01G	*27:23	*02:02:02G	*07:02:01G	SSO SBT RT-PCR	
747	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS	
771	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
774	*26	*32	*07	*27	*02	*07				*27:23			SSP SSO	
792	*26	*32	*07		*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO NGS	
793	*26	*32	*07	*27	*02	*07							SSP	
794	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS RT-PCR	
2344							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	NGS	
2400	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
2847	*26	*32	*07	*27	*02	*07							SSO	
3135							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02		
3224							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	NGS	
3511							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SSO	
3519	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP NGS RT-PCR	
3753	*26	*32	*07	*27	*02	*07							SSO	
3966	*26	*32	*07	*27	*02	*07							SSP	
4079	*26	*32	*07	*27	*02	*07							SSO	
4251							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	NGS	
4337							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSP SBT NGS	
5130	*26	*32	*07	*27	*02	*07	*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SSO NGS	
5133							*26:01:01:01	*32:01:01:01	*07:02:01:01	*27:23	*02:02:02:01	*07:02:01:03	NGS	
5214	*26	*32	*07	*27	*02	*07							SSO	
5219	*26	*32	*07	*27	*02	*07	*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSO NGS	
5462	*26	*32	*07	*27	*02	*07							RT-PCR	
5488							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	SSP SSO NGS	
8021							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02		
8029	*26	*32	*07	*27	*02	*07							SSO	
8068	*26	*32	*07	*27	*02	*07							SSO	
8086							*26:01	*32:01	*07:02	*27:23	*02:02	*07:02	SBT	
8122							*26:01:01	*32:01:01	*07:02:01	*27:23	*02:02:02	*07:02:01	NGS	

Table 5a: Individual laboratory results for B-cell #578 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*07	4*01	NT	*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO	
725	*01	*07	4*PRESENT		*01	*02	*02	*05					SSP SSO	
731	*01	*07	4*01	4*01	*01	*02	*02	*05	*01	*02	*04	*11	SSO SBT RT-PCR	
747	*01	*07	4*PRESENT		*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS	
771	*01	*07			*01	*02	*02	*05					SSO NGS	
774	*01	*07	4*01		*01	*02	*02	*05			*04(DP402)	*11	SSP SSO	
792	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS	
793	*01	*07	4*PRESENT		*01	*02	*02	*05			*04(DP402)	*11	SSP	
794	*01	*07	4*01	NP	*01	*02	*02	*05	*01	*02	*04	*11	SSP SSO NGS RT-PCR	
2400	*01	*07	4*01		*01	*02	*02	*05			*04	*11	SSO NGS	
2847	*01	*07											SSO	
3519	*01	*07			*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSP NGS RT-PCR	
3753	*01	*07	4*01	NP	*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
3966													SSP	
4079	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
5130	*01	*07	4*01		*01	*02	*02	*05			*04	*11	SSO NGS	
5214	*01	*07	4*01		*01	*02	*02	*05	*01	*02	*04(DP402)	*11	SSO	
5219	*01	*07			*01	*02	*02	*05					SSO NGS	
5451	*01	*07	4*01		*01	*02	*02	*05					SSO SBT	
5462	*01	*07	4*01	NP	*01	*02	*02	*05	NT	NT	NT	NT	RT-PCR	
5488			4*01										SSP SSO NGS	
5642	*01	*07	4*PRESENT				*02	*05					SSP	
6649	*01	*07											SSO	
8029	*01	*07			*01	*02	*02	*05					SSO	
8043	*01	*07			*01	*02	*02	*05					SSP SSO	
8068	*01	*07			*01	*02	*02	*05					SSO	

Table 5b: Individual laboratory results for B-cell #578 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSO NGS	
278	*01:01	*07:01	4*01:01	NT	*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:01	*11:01	SSP SSO	
731	*01:01:01G	*07:01:01G					*02:02	*05:01:01G			*04:02:01G	*11:01:01	SSO SBT RT-PCR	
747	*01:01:01	*07:01:01	4*01:01:01		*01:01:01	*02:01:01	*02:02	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	SSP SSO NGS	DQB1*05:01:33 DQB1*02:156 DQB1*02:163N
762	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	NGS	
771	*01:01	*07:01					*02:02	*05:01					SSO NGS	
774	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSP SSO	DRB1*01:41 DRB1*01:45 DRB1*01:47 DRB1*01:50 DRB1*01:52N DRB1*01:53 DRB1*01:60 DRB1*01:62N DRB1*01:64 DRB1*01:67 DRB1*07:31 DRB1*07:33 DRB1*07:35
792	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO NGS	DRB1*01:100
793					*01:01	*02:01					*04:02	*11:01	SSP	
794	*01:01:01	*07:01:01	4*01:01:01	NP	*01:01	*02:01	*02:02	*05:01	NT	NT	*04:02:01	*11:01:01	SSP SSO NGS RT-PCR	
2344	*01:01:01	*07:01:01	NT	NT	NT	NT	*02:02:01	*05:01:01	NT	NT	*04:02:01	*11:01:01	NGS	DRB1*01:100
2400	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSO NGS	
3135	*01:01:01G	*07:01:01G	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01		DQA1*01:04 DQA1*01:05
3224	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	NGS	
3511	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO	
3519	*01:01P	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01	SSP SSO RT-PCR	DRB1*01:100
3966	*01:01	*07:01	4*01:01				*02:02	*05:01					SSP	
4251	*01:01:01G	*07:01:01G	4*01:01		*01:01	*02:01	*02:01:01G	*05:01:01G	*01:03:01G	*02:01:01G	*04:02	*11:01	NGS	
4337	*01:01	*07:01					*02:02	*05:01			*04:02	*11:01	SSP SBT NGS	
5130	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*04:02	*11:01	SSO NGS	
5133	*01:01:01	*07:01:01	4*01:01:01		*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	NGS	
5214											*04:02G	*11:01G	SSO	
5219	*01:01:01	*07:01:01					*02:02:01	*05:01:01			*04:02:01	*11:01:01	SSO NGS	
5451	*01:01:01	*07:01:01											SSO SBT	
5488	*01:01:01	*07:01:01			*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	SSP SSO NGS	DRB1*01:100
5642	*01:01	*07:01					*02:02	*05:01					SSP	

Table 5b: Individual laboratory results for B-cell #578 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8021	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03	*02:01	*04:02	*11:01		
8043	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01					SSP SSO	
8086	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01	*01:03:01G	*02:01:01G	*04:02	*11:01	SBT	
8122	*01:01:01	*07:01:01	4*01:01:01	NP	*01:01:01	*02:01:01	*02:02:01	*05:01:01	*01:03:01	*02:01:01	*04:02:01	*11:01:01	NGS	

Table 6: Individual laboratory results for B-cell #578 - Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
278	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
725	*24	*31	*07	*49	*07								SSP SSO	
731	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02G	*07:02:01G	*49:01:01G	*07:01:01G	*07:02:01G	SSO SBT RT-PCR	
747	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02:01	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS	
771	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
774	*24	*31	*07	*49	*07								SSP SSO	
792	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO NGS	
793	*24	*31	*07	*49	*07								SSP	
794	*24	*31	*07	*49	*07		*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	NGS	
2400	*24	*31	*07	*49	*07		*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
2847	*24	*31	*07	*49	*07	*07							SSO	
3135							*24:21	*31:01	*07:02	*49:01	*07:01:01G	*07:02		
3224							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	NGS	
3511							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SSO	
3519	*24	*31	*07	*49	*07		*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP NGS RT-PCR	
3753	*24	*31	*07	*49	*07	*07							SSO	
3966	*24	*31	*07	*49	*07	*07							SSP	
4079	*24	*31	*07	*49	*07	*07							SSO	
4251							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	NGS	
4337							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSP SBT NGS	
5130	*24	*31	*07	*49	*07	*07	*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SSO NGS	
5133							*24:21:01	*31:01:02:01	*07:02:01:01	*49:01:01:01	*07:01:01:16	*07:02:01:03	NGS	
5214	*24	*31	*07	*49	*07								SSO	
5219	*24	*31	*07	*49	*07	*07	*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSO NGS	
5462	*24	*31	*07	*49	*07								RT-PCR	
5488							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	SSP SSO NGS	
8021							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02		
8029	*24	*31	*07	*49	*07	*07							SSO	
8068	*24	*31	*07	*49	*07								SSO	
8086							*24:21	*31:01	*07:02	*49:01	*07:01	*07:02	SBT	
8122							*24:21:01	*31:01:02	*07:02:01	*49:01:01	*07:01:01	*07:02:01	NGS	