

B-CELL LINE EXCHANGE #288

AUGUST 5, 2020

B-cell Lines 575-576

The results for B-cell Line Exchange #288 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We are appreciative of the generosity of Leiden University Medical Centre, Leiden, The Netherlands for providing the interesting cell 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-575. The consensus type for this cell from a donor of unknown ethnicity is DRB1*04:04-DRB1*16:01-DRB4*01:03-DRB5*01:01-DQA1*01:02-DQA1*03:03-DQB1*04:02-DQB1*05:02-DPA1*01:03-DPA1*02:01-DPB1*04:01-DPB1*09:01/A*03:01-A*68:02-B*07:02-B*35:01-C*04:01-C*07:02. One possible association present in this cell is B*35:01-C*04:01-DRB1*04:04-DQB1*04:02, observed in exclusively in Asian populations, with HF = 0.00044. The other association present may be B*07:02-C*07:02-DRB1*16:01-DQB1*05:02, observed in Caucasians, with HF = 0.00053.

Good agreement (< 90%) was achieved for all loci by labs reporting at high resolution. One lab (Wieten), observed the presence of a possible new allele: "In sample Bcel 575 a new DRB1 allele was found, identical to DRB1*04:04:01 with an insertion of a G in intron 3, changing positions 8291-8295 5x G into 6x G, performed by Sanger sequencing, so no homopolymer problem."

Ter-576. The consensus type for this cell from a Black donor is DRB1*12:02-DRB1*13:03-DRB3*01:01-DRB3*03:01-DQA1*05:05-DQA1*06:01-DQB1*03:01-DPA1*02:01-DPA1*03:01-DPB1*01:01-DPB1*39:01/A*24:07-A*34:02-B*35:05-B*51:01-C*04:01-C*16:01. One possible association present in this cell is B*51:01-C*16:01-DRB1*13:03-DQB1*03:01, observed in African Americans, with HF = 0.00402. The other association likely present, B*35:05-C*04:01-DRB1*12:02-DQB1*03:01, is common in Asians, with HF = 0.00528.

This cell was examined a number of times in the Exchange for class I as cells 549 (1988), 835 (1995), 900 (1996), and 963 (1998). It was also typed for class II in 1996 as Ter 185. In this present retyping, good agreement (< 90%), was achieved for all loci by labs reporting at high resolution.

NEXT MAILING DATE: October 7, 2020

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

Table 1: Summary of the 288th B-cell Line Exchange

Ter-575

Ter-575												
DNA Typing - class II	28 labs High; 22 labs low-DRB1	%(n)	20 labs High; 15 labs Low-DRB3/4/5	%(n)	22 labs High; 19 labs Low-DQA1	%(n)	27 labs High; 20 labs Low-DQB1	%(n)	16 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 12 labs Low-DPB1	%(n)
	DRB1*04:04:01	32(9)	DRB4*01:03:01	30(6)	DQA1*01:02:02	23(5)	DQB1*04:02:01	26(7)	DPA1*01:03:01:02	6 (1)	DPB1*04:01:01	28(7)
	DRB1*04:04	68(19)	DRB4*01:03	70(14)	DQA1*01:02	77(17)	DQB1*04:02:01G	4 (1)	DPA1*01:03:01	25(4)	DPB1*04:01:01G	12(3)
	DRB1*04	100(22)	DRB4*01	73(11)	DQA1*01	100(19)	DQB1*04:02	70(19)	DPA1*01:03:01G	6 (1)	DPB1*04:01P	4 (1)
			DRB4*PRESENT	27(4)			DQB1*04	100(20)	DPA1*01:03	63(10)	DPB1*04:01	56(14)
									DPA1*01	100(9)	DPB1*04(DP401)	42(5)
											DPB1*04	58(7)
DNA Typing - class I	28 labs High; 22 labs low-DRB1	%(n)	20 labs High; 15 labs Low-DRB3/4/5	%(n)	22 labs High; 19 labs Low-DQA1	%(n)	27 labs High; 20 labs Low-DQB1	%(n)	16 labs High; 9 labs Low-DPA1	%(n)	25 labs High; 12 labs Low-DPB1	%(n)
	DRB1*16:01:01	32(9)	DRB5*01:01:01	30(6)	DQA1*03:03:01	23(5)	DQB1*05:02:01	30(8)	DPA1*02:01:01:02	6 (1)	DPB1*09:01:01	28(7)
	DRB1*16:01	68(19)	DRB5*01:01:01G	5 (1)	DQA1*03:03	73(16)	DQB1*05:02	70(19)	DPA1*02:01:01	25(4)	DPB1*09:01:01G	12(3)
	DRB1*16	100(22)	DRB5*01:01	65(13)	DQA1*03:01	4 (1)	DQB1*05	100(20)	DPA1*02:01:01G	13(2)	DPB1*09:01P	4 (1)
			DRB5*01	73(11)	DQA1*03	100(19)			DPA1*02:01	56(9)	DPB1*09:01	56(14)
			DRB5*PRESENT	27(4)					DPA1*02	100(9)	DPB1*09	100(12)
DNA Typing - class I	22 labs High; 19 labs low- A	%(n)	22 labs High; 19 labs low- B	%(n)	22 labs High; 19 labs low- C	%(n)						
	A*03:01:01:01	9 (2)	B*07:02:01:01	9 (2)	C*04:01:01	36(8)						
	A*03:01:01	27(6)	B*07:02:01	27(6)	C*04:01	64(14)						
	A*03:01	64(14)	B*07:02	64(14)	C*04	100(19)						
	A*03	100(19)	B*07	100(19)								
DNA Typing - class I	22 labs High; 19 labs low- A	%(n)	22 labs High; 19 labs low- B	%(n)	22 labs High; 19 labs low- C	%(n)						
	A*68:02:01:01	9 (2)	B*35:01:01:05	4 (1)	C*07:02:01:03	4 (1)						
	A*68:02:01	27(6)	B*35:01:01	32(7)	C*07:02:01	32(7)						
	A*68:02	64(14)	B*35:01	64(14)	C*07:02	64(14)						
	A*68	100(19)	B*35	100(19)	C*07	100(19)						

Table 2: Summary of the 288th B-cell Line Exchange

Ter-576

		28 labs High; 22 labs low-DRB1		20 labs High; 15 labs Low-DRB3/4/5		22 labs High; 19 labs Low-DQA1		26 Labs High; 21 labs Low-DQB1		16 labs High; 9 labs Low-DPA1		25 labs High; 12 labs Low-DPB1												
DNA Typing - class II		DRB1*12:02:01	DRB1*12:02	DRB1*12	DRB3*01:01:02	DRB3*01:01	DRB3*01	DRB3*PRESENT	DQA1*05:05:01	DQA1*05:05	DQA1*05	DQB1*03:01:01	DQB1*03:01:01G	DQB1*03:01	DQB1*03(DQ7)	DQB1*03	DPA1*02:01:02	DPA1*02:01	DPA1*02	DPB1*01:01:01	DPB1*01:01	DPB1*01		
DNA Typing - class II																								
DNA Typing - class I		A*24:07:01:01	A*24:07:01	A*24:07	A*24	B*35:05:01	B*35:05	B*35	C*04:01:01:14	C*04:01:01	C*04:01	C*04												
DNA Typing - class I		A*34:02:01:01	A*34:02:01	A*34:02	A*34	B*51:01:01:10	B*51:01:01	B*51:01	B*51	B*15	C*16:01:01:01	C*16:01:01	C*16:01	C*16										

Table 3a: Individual laboratory results for B-cell #575 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSP SSO	
725	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05					SSP SSO	
731	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSO SBT NGS RT-PCR	
747	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05	*01	*02	*04	*09	SSP SSO NGS	
771	*04	*16			*01	*03	*04	*05					SSO NGS	
774	*04	*16	4*01	5*01	*01	*03	*04	*05			*04(DP401)	*09	SSP SSO	
792	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	SSO NGS	
793	*04	*16	4*PRESENT	5*PRESENT	*01	*03	*04	*05			*04(DP401)	*09	SSP SSP SSO NGS	
794	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04	*09	RT-PCR	
2400	*04	*16	4*01	5*01	*01	*03	*04	*05			*04	*09	SSO NGS	
2847	*04	*16											SSO	
3519	*04	*16			*01	*03	*04	*05	*01	*02	*04(DP401)	*09	SSP NGS RT-PCR	
4079	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04(DP401)	*09	SSO	
5130	*04	*16	4*01	5*01	*01	*03	*04	*05			*04	*09	SSO NGS	
5214	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	*04(DP401)	*09	RT-PCR	
5219	NT													
5451	*04	*16	4*01	5*01	*01	*03	*04	*05					SSO SBT	
5462	*04	*16	4*01	5*01	*01	*03	*04	*05	*01	*02	NT	NT	SSO	
5488													SSO NGS	
5642	*04	*16	4*PRESENT	5*PRESENT			*04	*05					SSP	
6649	*04	*16											SSO	
8029	*04	*16			*01	*03	*04	*05					SSO	
8043	*04	*16			*01	*03	*04	*05					SSP SSO	
8068	*04	*16			*01	*03	*04	*05					SSO	

Table 3b: Individual laboratory results for B-cell #575 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO SBT NGS	
278	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSP SSO	
731	*04:04:01	*16:01:01					*04:02:01G	*05:02:01			*04:01:01G	*09:01:01G	SSO SBT NGS RT-PCR	
747	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01:02	*02:01:01:02	*04:01:01	*09:01:01	SSP SSO NGS	DPB1*899:01 DQB1*05:241 DPB1*350:01
762	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	NGS	DPB1*350:01 DPB1*899:01
771	*04:04	*16:01					*04:02	*05:02					SSO NGS	
774	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSP SSO	DRB1*04:118 DRB1*04:120N DRB1*04:121 DRB1*04:149 DRB1*16:13N DRB4*01:09 DRB4*01:10 DRB5*01:16 DRB35*01:40
792	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
793					*01:02	*03:03					*04:01	*09:01	SSP	
794	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02	*03:03	*04:02:01	*05:02:01	NT	NT	*04:01:01	*09:01:01	SSP SSO NGS RT-PCR	
2344	*04:04:01	*16:01:01	NT	NT	NT	NT	*04:02:01	*05:02:01	NT	NT	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
2400	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
3135	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:01	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01		DQA1*03:02 DQA1*03:03
3224	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01:01G	*09:01:01G		
3511	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSP SSO	
3519	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01P	*09:01P	SSP NGS RT-PCR	DPB1*350:01 DPB1*899:01
3753	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
3966	*04:04	*16:01	4*01:03	5*01:01			*04:02	*05:02					SSP	
4251	*04:04	*16:01	4*01:03	5*01:01:01G	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01:01G	*04:01:01G	*09:01:01G	NGS	
4337	*04:04	*16:01					*04:02	*05:02			*04:01	*09:01	SSP SBT NGS	
5130	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02			*04:01	*09:01	SSO NGS	DPB1*350:01 DPB1*899:01
5133	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*350:01 DPB1*899:01
5219	NT													

Table 3b: Individual laboratory results for B-cell #575 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	*04:04:01	*16:01:01											SSO SBT	
														DPB1*1042:01 DPB1*1048:01 DPB1*1060:01 DPB1*1064:01 DPB1*1074:01 DPB1*1081:01 DPB1*1086:01 DPB1*797:01 DPB1*899:01 DPB1*977:01 DPB1*1043:01 DPB1*213:01 DPB1*334:01 DPB1*350:01 DPB1*523:01 DPB1*702:01 DPB1*742:01 DPB1*743:01N DPB1*750:01+
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*04:01	*09:01	SSO	
5488	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	SSO NGS	DPB1*350:01 DPB1*899:01
5642	*04:04	*16:01					*04:02	*05:02					SSP	
8021	*04:04	*16:01	4*01:03	5*01:01	*01:02	*03:03	*04:02	*05:02	*01:03	*02:01	*04:01	*09:01	SSO NGS	
8043	*04:04	*16:01			*01:02	*03:03	*04:02	*05:02					SSP SSO	
8086	*04:04	*16:01			*01:02	*03:03	*04:02	*05:02	*01:03:01G	*02:01:01G	*04:01	*09:01	SSO SBT	
8122	*04:04:01	*16:01:01	4*01:03:01	5*01:01:01	*01:02:02	*03:03:01	*04:02:01	*05:02:01	*01:03:01	*02:01:01	*04:01:01	*09:01:01	NGS	DPB1*939:01

Table 4: Individual laboratory results for B-cell #575 - Class I

Table 4: Individual laboratory results for B-cell #575 - Class I														
Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO SBT NGS	
278	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SSO	
725	*03	*68	*07	*35	*04	*07							SSP SSO	
731	*03	*68	*07	*35	*04	*07	*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO SBT NGS RT-PCR	
747	*03	*68	*07	*35	*04	*07	*03:01:01:01	*68:02:01:01	*07:02:01:01	*35:01:01:05	*04:01:01	*07:02:01:03	SSP SSO NGS	
771	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
774	*03	*68	*07	*35	*04	*07							SSP SSO	
792	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
793	*03	*68	*07	*35	*04	*07							SSP	
794	*03	*68	*07	*35	*04	*07							SSP SSO NGS RT-PCR	
794							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
2400	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
2847	*03	*68	*07	*35	*04	*07							SSO	
3135							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02		C*04:09N
3224							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02		
3511							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SSO	
3519	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP NGS RT-PCR	
3753							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
3966	*03	*68	*07	*35	*04	*07							SSP	
4079	*03	*68	*07	*35	*04	*07							SSO	
4251							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	NGS	
4337							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSP SBT NGS	
5130	*03	*68	*07	*35	*04	*07	*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
5133							*03:01:01:01	*68:02:01:01	*07:02:01:01	*35:01:01	*04:01:01	*07:02:01	NGS	
5214	*03	*68	*07	*35	*04	*07							RT-PCR	
5219	NT													
5462	*03	*68	*07	*35	*04	*07	NT	NT	NT	NT	NT	NT	SSO	
5488							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8021							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO NGS	
8029	*03	*68	*07	*35	*04	*07							SSO	
8068	*03	*68	*07	*35	*04	*07							SSO	
8086							*03:01	*68:02	*07:02	*35:01	*04:01	*07:02	SSO SBT	
8122							*03:01:01	*68:02:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	

Table 5a: Individual laboratory results for B-cell #576 - Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	Vander Horn ,	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSP SSO	
725	Lardy , N.M.	*12	*13	3*PRESENT		*05	*06	*03						SSP SSO	
731	Loewenthal ,	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSO SBT NGS	
747	Villard , Jean	*12	*13	3*PRESENT	3*PRESENT	*05	*06	*03	*03	*02	*03	*01	*39	RT-PCR	
771	Benedek , Gil	*12	*13			*05	*06	*03						SSP SSO NGS	
774	Cecka , J. Mid	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	SSP SSO	
792	Gandhi , Mani	*12	*13	3*01	3*03	*05	*06	*03	*03	*02	*03	*01	*39	SSO NGS	
793	Rubocki , Ron	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	SSP	
794	Jaatinen , Tai	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	*01	*39	SSP SSO NGS	
2400	Liu , Chang	*12	*13	3*01	3*03	*05	*06	*03				*01	*39	RT-PCR	
2847	Wakita , Atsus	*12	*13											SSO NGS	
3519	Renac , Virgin	*12	*13			*05	*06	*03		*02	*03	*01	*39	SSP SSO	
4079	Fort , Marylise	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	*01	*39	RT-PCR	
5130	Costeas , Pau	*12	*13	3*01	3*03	*05	*06	*03	*03			*01	*39	SSO	
5214	Gebel , Howar	*12	*13	3*01	3*03	*05	*06	*03(DQ7)	*03	*02	*03	*01	*39	SSO NGS	
5219	Daniel , Dolly	NT												RT-PCR	
5451	Wieten , Lotte	*12	*13	3*01	3*03	*05	*06	*03						SSP SBT	
5462	Arnold , Paula	*12	*13	3*01	3*03	*05	*06	*03		*02	*03	NT	NT	SSO	
5488	Ward , William							*03						SSO NGS	
5642	Stylianou , Ca	*12	*13	3*PRESENT				*03						SSP	
6649	Park , Seo-Jin	*12	*13											SSO	
8029	Tarigopula , A	*12	*13			*05	*06	*03	*03					SSO	
8043	Gideoni , Osn	*12	*13			*05	*06	*03						SSP SSO	
8068	Shanmugam ,	*12	*13			*05	*06	*03						SSO	

Table 5b: Individual laboratory results for B-cell #576 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSO SBT NGS	
278	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP SSO	
731	*12:02:01	*13:03:01					*03:01:01G	*03:01:01G			*01:01:01	*39:01	SSO SBT NGS RT-PCR	
747	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:01:02	*03:01:01	*01:01:01	*39:01:01	SSP SSO NGS	DQB1*03:297
762	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01		*02:01		*01:01	*39:01	NGS	
771	*12:02	*13:03					*03:01						SSO NGS	
774	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01				*01:01	*39:01	SSP SSO	DRB1*12:32 DRB1*12:37 DRB1*12:43 DRB1*12:45 DRB1*13:152 DQB1*03:73 DQB1*03:92 DQB1*03:93
792	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSO NGS	
793					*05:05	*06:01					*01:01	*39:01	SSP	
794	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05	*06:01	*03:01:01		NT	NT	*01:01:01	*39:01:01	SSP SSO NGS RT-PCR	
2344	*12:02:01	*13:03:01	NT	NT	NT	NT	*03:01:01	*03:01:01	NT	NT	*01:01:01	*39:01	NGS	
2400	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01				*01:01	*39:01	SSO NGS	DQB1*03:276N
3135	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01		DQA1*05:09
3224	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01		
3511	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP SSO	
3519	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01	*02:01	*03:01	*01:01	*39:01	SSP NGS RT-PCR	
3753	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01	*03:01	*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS	DQB1*03:297
3966	*12:02	*13:03	3*01:01	3*03:01			*03:01	*03:01					SSP	
4251	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01:01G	*03:01	*02:01	*03:01:01G	*01:01	*39:01	NGS	
4337	*12:02	*13:03					*03:01	*03:01			*01:01	*39:01	SSP SBT NGS	
5130	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01	*03:01			*01:01	*39:01	SSO NGS	
5133	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01:01		*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS	
5219	NT													
5451	*12:02:01	*13:03:01											SSO SBT	

Table 5b: Individual laboratory results for B-cell #576 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*584:01 DPB1*867:01N DPB1*04:01 DPB1*733:01 DPB1*800:01N DPB1*807:01 DPB1*862:01N DPB1*953:01 DPB1*969:01 DPB1*979:01 DPB1*984:01N DPB1*998:01 DPB1*999:01 DPB1*1038:01Q DPB1*1050:01 DPB1*1068:01 DPB1*1073:01 DPB1*162:01+
5462	NT	NT	NT	NT	NT	NT	NT			NT	NT	*01:01	*39:01	SSO
5488	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01				*02:01:02	*03:01:01	*01:01:01	*39:01:01	SSO NGS
5642	*12:02	*13:03					*03:01							SSP
8021	*12:02	*13:03	3*01:01	3*03:01	*05:05	*06:01	*03:01			*02:01	*03:01	*01:01	*39:01	SSO NGS
8043	*12:02	*13:03			*05:05	*06:01	*03:01							SSP SSO
8086	*12:02	*13:03			*05:05	*06:01	*03:01	*03:01		*02:01	*03:01:01G	*01:01	*39:01	SSO SBT
8122	*12:02:01	*13:03:01	3*01:01:02	3*03:01:03	*05:05:01	*06:01:01	*03:01:01			*02:01:02	*03:01:01	*01:01:01	*39:01:01	NGS

Table 6: Individual laboratory results for B-cell #576 - Class I

Table 6: Individual laboratory results for B-cell #576 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO SBT NGS	
278	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SSO	
725	*24	*34	*35	*51	*04	*16							SSP SSO	
731	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSO SBT NGS RT-PCR	
747	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSP SSO NGS	
762													NGS	
771	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
774	*24	*34	*35	*51	*04	*16			*35:05				SSP SSO	
792	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
793	*24	*34	*35	*51	*04	*16							SSP	
794	*24	*34	*35	*51	*04	*16	*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSP SSO NGS RT-PCR	
2344							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	
2400	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
2847	*24	*34	*35	*51	*04	*16							SSO	
3135							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01		C*04:09N
3224							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01		
3511							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SSO	
3519	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP NGS RT-PCR	
3753							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	
3966	*24	*34	*35	*51	*04	*16							SSP	
4079	*24	*34	*35	*51	*04	*16							SSO	
4251							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	NGS	
4337							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSP SBT NGS	
5130	*24	*34	*35	*51	*04	*16	*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
5133							*24:07:01:01	*34:02:01:01	*35:05:01	*51:01:01:10	*04:01:01:14	*16:01:01:01	NGS	
5214	*24	*34	*35	*51	*04	*16							RT-PCR	
5219	NT													
5462	*24	*34	*35	*51	*04	*16	NT	NT	NT	NT	NT	NT	SSO	
5488							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	SSO NGS	
8021							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO NGS	
8029	*24	*34	*35	*51	*04	*16							SSO	
8068	*24	*34	*35	*15	*04	*16							SSO	
8086							*24:07	*34:02	*35:05	*51:01	*04:01	*16:01	SSO SBT	
8122							*24:07:01	*34:02:01	*35:05:01	*51:01:01	*04:01:01	*16:01:01	NGS	