

B-CELL LINE EXCHANGE #290 DECEMBER 1, 2020

B-cell Line 579 - 580

The results for B-cell Line Exchange #290 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 **Leiden University Medical Centre, Leiden, The Netherlands**, for providing the interesting cells examined in our Exchanges.

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-579. DRB1*01:01-DRB1*11:04-DRB3*02:02-DQA1*03:01-DQA1*05:05-DQB1*03:01-DQB1*03:05-DPA1*01:03-DPB1*04:01-DPB1*04:02/A*02:01-A*24:02-B*18:01-C*07:01-C*12:03 is the reported consensus type for this cell from a Caucasian donor. One likely association present is C*07:01-B*18:01-DRB1*11:04-DQB1*03:01, observed in Caucasians, with HF = 0.00677. The other association present may then be C*12:03-B*18:01-DRB1*01:01-DQB1*03:05. It is unusual to find DRB1*01:01 associated with DQB1*03:05. DRB1*01:01 is commonly associated with DQB1*05:01 (HF = 0.09022, in Caucasians).

This cell was previously typed in the Exchange as Ter 404 (2008) and Ter 300 (2002). In this present retyping, good agreement was achieved for all allele assignments by labs reporting at high resolution.

Ter-580. DRB1*04:07-DRB1*08:06-DRB4*01:03-DQA1*01:02-DQA1*03:03-DQB1*03:01-DQB1*06:02-DPA1*02:01-DPB1*11:01-DPB1*17:01/A*02:05-A*32:01-B*15:10-B*40:02-C*02:02-C*03:04 is the reported consensus type for this cell from a donor of unknown ethnicity. Class II associations present are DRB1*04:07-DQB1*03:02 and DRB1*08:06-DQB1*06:02, observed commonly in Hispanic populations, with HF = 0.05700 and 0.00139.

This cell was previously studied in the Exchange as Ter 410 (2008), Ter 296 (2002), and Ter 230 (1998). In this present retyping, good agreement was achieved for all allele assignments by labs reporting at high resolution.



NEXT MAILING DATE: February 3, 2021

Happy Holidays!

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



Table 1: Summary of the 290th B-cell Line Exchange

Ter-579

Ter-579												
DNA Typing - class II	28 labs High; 23 labs low-DRB1	%(n)	18 labs High; 16 labs Low-DRB3/4/5	%(n)	20 labs High; 21 labs Low-DQA1	%(n)	27 labs High; 21 labs Low-DQB1	%(n)	14 labs High; 10 labs Low-DPA1	%(n)	26 labs High; 13 labs Low-DPB1	%(n)
	DRB1*01:01:01	28(8)	DRB3*02:02:01:02	6 (1)	DQA1*03:01:01	20(4)	DQB1*03:01:01	19(5)	DPA1*01:03:01:02	7 (1)	DPB1*04:01:01	31(8)
	DRB1*01:01:01G	4 (1)	DRB3*02:02:01	22(4)	DQA1*03:01	80(16)	DQB1*03:01:01G	7 (2)	DPA1*01:03:01	21(3)	DPB1*04:01:01G	11(3)
	DRB1*01:01P	4 (1)	DRB3*02:02	72(13)	DQA1*03	100(21)	DQB1*03:01P	4 (1)	DPA1*01:03:01G	7 (1)	DPB1*04:01P	4 (1)
	DRB1*01:01	64(18)	DRB3*PRESENT	19(3)			DQB1*03:01	70(19)	DPA1*01:03	64(9)	DPB1*04:01	54(14)
	DRB1*01	100(23)	DRB3*02	81(13)			DQB1*03 (DQ7)	5 (1)	DPA1*01	100(10)	DPB1*04(DP401)	46(6)
							DQB1*03	95(20)			DPB1*04	54(7)
DNA Typing - class I	28 labs High; 23 labs low-DRB1	%(n)			20 labs High; 21 labs Low-DQA1	%(n)	27 labs High; 21 labs Low-DQB1	%(n)			26 labs High; 13 labs Low-DPB1	%(n)
	DRB1*11:04:01	36(10)			DQA1*05:05:01:02	5 (1)	DQB1*03:05:01	33(9)			DPB1*04:02:01	31(8)
	DRB1*11:04	64(18)			DQA1*05:05:01	15(3)	DQB1*03:05	67(18)			DPB1*04:02:01G	11(3)
	DRB1*11	100(23)			DQA1*05:05	80(16)	DQB1*03 (DQ8)	5 (1)			DPB1*04:02P	4 (1)
					DQA1*05	100(21)	DQB1*03	95(20)			DPB1*04:02	54(14)
											DPB1*04(DP402)	46(6)
											DPB1*04	54(7)
DNA Typing - class I	22 labs High; 20 labs low- A	%(n)	22 labs High; 20 labs low- B	%(n)	22 labs High; 20 labs low- C	%(n)						
	A*02:01:01	36(8)	B*18:01:01:02	4 (1)	C*07:01:01:16	4 (1)						
	A*02:01P	5 (1)	B*18:01:01	32(7)	C*07:01:01	32(7)						
	A*02:01	59(13)	B*18:01P	4 (1)	C*07:01P	4 (1)						
	A*02	100(20)	B*18:01	59(13)	C*07:01	59(13)						
			B*18	100(20)	C*07	100(20)						
DNA Typing - class I	22 labs High; 20 labs low- A	%(n)			22 labs High; 20 labs low- C	%(n)						
	A*24:02:01:04	4 (1)			C*12:03:01:01	4 (1)						
	A*24:02:01	32(7)			C*12:03:01	32(7)						
	A*24:02P	4 (1)			C*12:03P	4 (1)						
	A*24:02	59(13)			C*12:03	59(13)						
	A*24	100(20)			C*12	100(20)						

Table 2: Summary of the 290th B-cell Line Exchange

Ter-580

DNA Typing - class II		<u>28 labs High; 23 labs low-DRB1</u>		<u>18 labs High; 16 labs Low-DRB3/4/5</u>		<u>20 labs High; 21 labs Low-DQA1</u>		<u>27 Labs High; 21 labs Low-DQB1</u>		<u>14 labs High; 10 labs Low-DPA1</u>		<u>26 labs High; 13 labs Low-DPB1</u>		
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
		DRB1*04:07:01:01	3 (1)	DRB4*01:03:01	22(4)	DQA1*01:02:01	20(4)	DQB1*03:01:01	15(4)	DPA1*02:01:01:01	7 (1)	DPB1*11:01:01:01	4 (1)	
		DRB1*04:07:01	29(8)	DRB4*01:03	72(13)	DQA1*01:02	80(16)	DQB1*03:01:01G	7 (2)	DPA1*02:01:01	21(3)	DPB1*11:01:01	27(7)	
		DRB*04:07:01G	3 (1)	<i>DRB4*01:01</i>	6 (1)	DQA1*01	100(21)	DQB1*03:01P	4 (1)	DPA1*02:01:01G	7 (1)	DPB1*11:01	69(18)	
		DRB1*04:07P	3 (1)	DRB4*PRESENT	19(3)			DQB1*03:01	74(20)	DPA1*02:01	64(9)	DPB1*11	100(13)	
		DRB1*04:07	61(17)	DRB4*01	81(13)			DQB1*03 (DQ7)	5 (1)	DPA1*02	100(10)			
		DRB1*04	100(23)					DQB1*03	95(20)					
		<u>28 labs High; 23 labs low-DRB1</u>	%(n)			<u>20 labs High; 21 labs Low-DQA1</u>	%(n)	<u>27 Labs High; 22 labs Low-DQB1</u>	%(n)			<u>26 labs High; 13 labs Low-DPB1</u>	%(n)	
		DRB1*08:06	100(28)			DQA1*03:03:01:01	5 (1)	DQB1*06:02:01:04	4 (1)			DPB1*17:01:01:02	4 (1)	
		DRB1*08	100(23)			DQA1*03:03:01	15(3)	DQB1*06:02:01	22(6)			DPB1*17:01:01	27(7)	
						DQA1*03:03	75(15)	DQB1*06:02P	4 (1)			DPB1*17:01P	4 (1)	
						<i>DQA1*03:01</i>	5 (1)	DQB1*06:02	70(19)			DPB1*17:01	65(17)	
						DQA1*03	100(21)	DQB1*06	100(21)			DPB1*17	100(13)	
DNA Typing - class I		<u>22 labs High; 20 labs low- A</u>	%(n)	<u>23 labs High; 20 labs low- B</u>	%(n)	<u>22 labs High; 20 labs low- C</u>	%(n)							
		A*02:05:01:01	9 (2)	B*15:10:01:01	4 (1)	C*02:02:02:01	4 (1)							
		A*02:05:01	32(7)	B*15:10:01	35(8)	C*02:02:02	32(7)							
		A*02:05	50(11)	B*15:10	61(14)	C*02:02P	4 (1)							
		A*02:01	4 (1)	B*15 (B71)	5 (1)	C*02:02	59(13)							
		A*02:02	4 (1)	B*15	95(19)	C*02	100(20)							
		A*02	100(20)											
		<u>22 labs High; 20 labs low- A</u>	%(n)	<u>22 labs High; 20 labs low- B</u>	%(n)	<u>22 labs High; 20 labs low- C</u>	%(n)							
		A*32:01:01:01	4 (1)	B*40:02:01:08	4 (1)	C*03:04:02	41(9)							
		A*32:01:01	32(7)	B*40:02:01	32(7)	C*03:04	59(13)							
		A*32:01P	4 (1)	B*40:02P	4 (1)	C*03 (Cw10)	5 (1)							
		A*32:01	59(13)	B*40:02	59(13)	C*03	95(19)							
		A*32	100(20)	B*40 (B61)	5 (1)									
				B*40	95(19)									

Table 3a: Individual laboratory results for B-cell #579 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*11	3*02	NT	*03	*05	*03	*03	*01	*01	*04	*04	SSP SSO	
725	*01	*11	3*PRESENT		*03	*05	*03	*03					SSP SSO	
731	*01	*11	3*02		*03	*05	*03	*03	*01	*01	*04	*04	SSO SBT NGS	
747	*01	*11	3*PRESENT		*03	*05	*03	*03	*01	*01	*04	*04	RT-PCR	
771	*01	*11			*03	*05	*03	*03			*04	*04	SSP SSO NGS	
774	*01	*11	3*02		*03	*05	*03	*03			*04(DP401)	*04(DP402)	SSP SSO	
792	*01	*11	3*02		*03	*05	*03	*03	*01	*01	*04(DP401)	*04(DP402)	SSO NGS	
793	*01	*11	3*02		*03	*05	*03	*03			*04(DP401)	*04(DP402)	SSP	B*35
794	*01	*11	3*02		*03	*05	*03		*01		*04		SSP SSO NGS	
2400	*01	*11	3*02	NP	*03	*05	*03	*03			*04	*04	RT-PCR	
2847	*01	*11											SSO NGS	
													SSO	
3519	*01	*11			*03	*05	*03	*03	*01	*01	*04(DP401)	*04(DP402)	SSP NGS	
3753			3*02	NP	*03	*05			*01	*01			RT-PCR	
3966													SSO SBT	
4079	*01	*11	3*02		*03	*05	*03	*03	*01		*04(DP401)	*04(DP402)	SSP RT-PCR	
4079	*01	*11	3*02		*03	*05	*03	*03	*01		*04(DP401)	*04(DP402)	SSO	
5130	*01	*11	3*02		*03	*05	*03	*03			*04	*04	SSO NGS	
5214	*01	*11	3*02		*03	*05	*03(DQ7)	*03(DQ8)	*01		*04(DP401)	*04(DP402)	RT-PCR	
5219	*01	*11			*03	*05	*03	*03					SSO NGS	
5451	*01	*11	3*02		*03	*05	*03	*03					SSO SBT	
5462	*01	*11	3*02	NP	*03	*05	*03	*03	*01		NT	NT	SSO	
5488													SSO NGS	
5642	*01	*11	3*PRESENT				*03	*03					SSP	
6649	*01	*11											SSO	
8029	*01	*11			*03	*05	*03	*03					SSO	
8043	*01	*11			*03	*05	*03	*03					SSP SSO	
8068	*01	*11			*03	*05	*03						SSO	

Table 3b: Individual laboratory results for B-cell #579 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03	*01:03	*04:01	*04:02	NGS	
278	*01:01	*11:04	3*02:02		NT	*03:01	*05:05	*03:01	*03:05	*01:03	*01:03	*04:01	*04:02	SSP SSO
731	*01:01	*11:04:01						*03:01:01	*03:05:01			*04:01:01	*04:02:01	SSO SBT NGS RT-PCR
747	*01:01:01	*11:04:01	3*02:02:01		*03:01:01	*05:05:01	*03:01	*03:05:01	*01:03:01	*01:03:01	*04:01:01	*04:02:01	SSP SSO NGS	DQB1*03:297 DPB1*105:01 DPB1*665:01 DPB1*126:01
762	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03		*04:01	*04:02	NGS	DPB1*126:01 DPB1*105:01
771	*01:01	*11:04					*03:01	*03:05			*04:01	*04:02	SSO NGS	
774	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05			*04:01	*04:02	SSP SSO	DRB1*01:41 DRB1*01:45 DRB1*01:50 DRB1*01:52N DRB1*11:160 DRB1*11:163 DQB1*03:92 DQB1*03:93 DRB1*01:53 DRB1*01:62N DRB1*01:64 DRB1*01:67 DQB1*03:50 DQB1*03:73
792	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03	*01:03	*04:01:01G	*04:02:01G	SSO NGS	DRB1*01:100
793					*03:01	*05:05					*04:01	*04:02	SSP	
794	*01:01:01	*11:04:01	3*02:02:01		*03:01	*05:05	*03:01	*03:05:01	NT	NT	*04:01:01	*04:02:01	SSP SSO NGS	
2344	*01:01:01	*11:04:01	NT	NT	NT	NT	*03:01:01	*03:05:01	NT	NT	*04:01:01	*04:02:01	NGS	DRB1*01:100 DPB1*105:01 DPB1*665:01 DPB1*126:01
2400	*01:01	*11:04	3*02:02		NP	*03:01	*05:05	*03:01	*03:05		*04:01:01G	*04:02:01G	SSO NGS	DQB1*03:297
3135	*01:01P	*11:04:01	3*02:02		*03:01	*05:05	*03:01P	*03:05:01	*01:03	*01:03	*04:01P	*04:02P		DQA1*05:09
3511	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03	*01:03	*04:01	*04:02	SSP SSO	
3519	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03	*01:03	*04:01	*04:02	SSP NGS RT-PCR	DPB1*126:01 DPB1*665:01 DRB1*01:100

Table 3b: Individual laboratory results for B-cell #579 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DRB1*01:100 DQB1*03:256 DQB1*03:276N DQB1*03:292 DQB1*03:293 DQB1*03:294 DQB1*03:297 DQB1*03:326 DQB1*03:342 DQB1*03:350 DQB1*03:389 DPB1*23:01 DPB1*51:01 DPB1*105:01 DPB1*126:01 DPB1*138:01 DPB1*190:01 DPB1*642:01 DPB1*665:01 DPB1*736:01 DPB1*939:01 DQB1*03:419
3753	*01:01	*11:04					*03:01	*03:05			*04:01	*04:02	SSO SBT	
3966	*01:01	*11:04	3*02:02				*03:01	*03:05					SSP RT-PCR	
4251	*01:01:01G	*11:04	3*02:02		*03:01	*05:05	*03:01:01G	*03:05	*01:03	*01:03	*04:01:01G	*04:02:01G	NGS	
4337	*01:01	*11:04					*03:01	*03:05			*04:01	*04:02	SSP SBT NGS	
5130	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05			*04:01	*04:02	SSO NGS	DPB1*126:01 A*02:01L DPB1*665:01
5133	*01:01:01	*11:04:01	3*02:02:01:02		*03:01:01	*05:05:01:02	*03:01:01	*03:05:01	*01:03:01:02		*04:01:01	*04:02:01	NGS	DPB1*126:01 DPB1*939:01N DPB1*105:01 DPB1*665:01
5214											*04:01G	*04:02G	RT-PCR	
5219	*01:01:01	*11:04:01					*03:01:01	*03:05:01			*04:01:01	*04:02:01	SSO NGS	
5451	*01:01:01	*11:04:01											SSO SBT	

Table 3b: Individual laboratory results for B-cell #579 - Class II

High resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
5462	NT	NT	NT	NP	NT	NT	NT	NT	NT			*04:01	*04:02	SSO	DPB1*213:01 DPB1*334:01 DPB1*126:01 DPB1*523:01 DPB1*742:01 DPB1*743:01N DPB1*750:01 DPB1*754:01N DPB1*755:01 DPB1*756:01N DPB1*765:01 DPB1*767:01 DPB1*769:01 DPB1*773:01 DPB1*784:01 DPB1*795:01 DPB1*803:01 DPB1*804:01 DPB1*811:01+
5488	*01:01:01	*11:04:01	3*02:02:01		*03:01:01	*05:05:01	*03:01:01G	*03:05:01	*01:03:01			*04:01:01	*04:02:01	SSO NGS	DRB1*01:100 DPB1*126:01 DPB1*665:01
5642	*01:01	*11:04					*03:01	*03:05						SSP	
8021	*01:01	*11:04	3*02:02		*03:01	*05:05	*03:01	*03:05	*01:03			*04:01	*04:02	SSO NGS	
8043	*01:01	*11:04			*03:01	*05:05	*03:01	*03:05						SSP SSO	
8086	*01:01	*11:04			*03:01	*05:05	*03:01	*03:05	*01:03:01G	*01:03:01G	*04:01	*04:02		SBT	
8122	*01:01:01	*11:04:01	3*02:02:01	NP	*03:01:01	*05:05:01	*03:01:01	*03:05:01	*01:03:01			*04:01:01	*04:02:01	NGS	DPB1*939:01 DPB1*105:01 DPB1*665:01 DPB1*126:01

Table 4: Individual laboratory results for B-cell #579 - Class I

Table 4: Individual laboratory results for B-cell #579 - Class I														
Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	NGS	
278	*02	*24	*18	*18	*07	*12	*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	SSP SSO	
725	*02	*24	*18		*07	*12							SSP SSO	
731	*02	*24	*18	*18	*07	*12	*02:01:01	*24:02:01	*18:01:01	*18:01:01	*07:01:01	*12:03:01	SSO SBT NGS	
747	*02	*24	*18	*18	*07	*12	*02:01:01	*24:02:01	*18:01:01	*18:01:01	*07:01:01	*12:03:01	RT-PCR	
771	*02	*24	*18		*07	*12	*02:01	*24:02	*18:01		*07:01	*12:03	SSP SSO NGS	
774	*02	*24	*18		*07	*12							SSO NGS	
792	*02	*24	*18	*18	*07	*12	*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	SSP SSO	
793	*02	*24	*18		*07	*12							SSO NGS	A*02:01:01:02L
													SSP	
794	*02	*24	*18		*07	*12	*02:01:01	*24:02:01	*18:01:01		*07:01:01	*12:03:01	SSP SSO NGS	
2344							*02:01:01	*24:02:01	*18:01:01	*18:01:01	*07:01:01	*12:03:01	RT-PCR	
2400	*02	*24	*18		*07	*12	*02:01	*24:02	*18:01		*07:01	*12:03	NGS	
2847	*02	*24	*18		*07	*12							SSO NGS	
3135							*02:01P	*24:02P	*18:01P	*18:01P	*07:01P	*12:03P	SSO	
3511							*02:01	*24:02	*18:01		*07:01	*12:03	SSP SSO	
3519	*02	*24	*18		*07	*12	*02:01	*24:02	*18:01		*07:01	*12:03	SSP NGS	
													RT-PCR	
3753							*02:01	*24:02	*18:01	*18:01	*07:01	*12:03		A*24:466 A*24:469 B*18:145 B*18:177 B*18:181 B*18:186 A*24:353 A*24:419 A*24:437 A*24:443 A*24:448N A*24:454
3966	*02	*24	*18	*18	*07	*12							SSO SBT	
4079	*02	*24	*18		*07	*12							SSP RT-PCR	
4251							*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	SSO	
4337							*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	NGS	
5130	*02	*24	*18	*18	*07	*12	*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	SSP SBT NGS	
5133							*02:01:01	*24:02:01:04	*18:01:01:02		*07:01:01:16	*12:03:01:01	SSO NGS	A*02:01L
5214	*02	*24	*18		*07	*12							NGS	
5219	*02	*24	*18	*18	*07	*12	*02:01:01	*24:02:01	*18:01:01	*18:01:01	*07:01:01	*12:03:01	RT-PCR	
5451													SSO NGS	
5462	*02	*24	*18		*07	*12	NT	NT	NT		NT	NT	SSO SBT	
5488							*02:01:01	*24:02:01	*18:01:01		*07:01:01	*12:03:01	SSO	
8021							*02:01	*24:02	*18:01		*07:01	*12:03	SSO NGS	
8029	*02	*24	*18	*18	*07	*12							SSO	
8068	*02	*24	*18		*07	*12							SSO	
8086							*02:01	*24:02	*18:01	*18:01	*07:01	*12:03	SSO	
8122							*02:01:01	*24:02:01	*18:01:01		*07:01:01	*12:03:01	SBT	
													NGS	

Table 5a: Individual laboratory results for B-cell #580 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*08	4*01	NT	*01	*03	*03	*06	*02	*02	*11	*17	SSP SSO	
725	*04	*08	4*PRESENT		*01	*03	*03	*06					SSP SSO	
731	*04	*08	4*01		*01	*03	*03	*06	*02	*02	*11	*17	SSO SBT NGS RT-PCR	
747	*04	*08	4*PRESENT		*01	*03	*03	*06	*02	*02	*11	*17	SSP SSO NGS	
771	*04	*08			*01	*03	*03	*06			*11	*17	SSO NGS	
774	*04	*08	4*01		*01	*03	*03	*06			*11	*17	SSP SSO	
792	*04	*08	4*01		*01	*03	*03	*06	*02	*02	*11	*17	SSO NGS	
793	*04	*08	4*01		*01	*03	*03	*06			*11	*17	SSP	
794	*04	*08	4*01		*01	*03	*03	*06	*02		*11	*17	SSP SSO NGS RT-PCR	
2400	*04	*08	4*01	NP	*01	*03	*03	*06			*11	*17	SSO NGS	
2847	*04	*08											SSO	
3519	*04	*08			*01	*03	*03	*06	*02	*02	*11	*17	SSP NGS RT-PCR	
3753			4*01	NP	*01	*03			*02	*02			SSO SBT	
3966													SSP RT-PCR	
4079	*04	*08	4*01		*01	*03	*03	*06	*02		*11	*17	SSO	
5130	*04	*08	4*01		*01	*03	*03	*06			*11	*17	SSO NGS	
5214	*04	*08	4*01		*01	*03	*03(DQ7)	*06	*02		*11	*17	RT-PCR	
5219	*04	*08			*01	*03	*03	*06					SSO NGS	
5451	*04	*08	4*01		*01	*03	*03	*06					SSO SBT	
5462	*04	*08	4*01	NP	*01	*03	*03	*06	*02		NT	NT	SSO	
5488													SSO NGS	
5642	*04	*08	4*PRESENT				*03	*06					SSP	
6649	*04	*08											SSO	
8029	*04	*08			*01	*03	*03	*06					SSO	
8043	*04	*08			*01	*03	*03	*06					SSP SSO	
8068	*04	*08			*01	*03	*03	*06					SSO	

Table 5b: Individual laboratory results for B-cell #580 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02	*02:01	*02:01	*11:01	*17:01	NGS	
278	*04:07	*08:06	4*01:03	NT	*01:02	*03:03	*03:01	*06:02	*02:01	*02:01	*11:01	*17:01	SSP SSO	
731	*04:07:01	*08:06					*03:01	*06:02			*11:01	*17:01	SSO SBT NGS RT-PCR	
747	*04:07:01	*08:06	4*01:03:01		*01:02:01	*03:03:01	*03:01	*06:02:01	*02:01:01	*02:01:01	*11:01:01	*17:01:01	SSP SSO NGS	DQB1*03:276N
762	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02	*02:01		*11:01	*17:01	NGS	
771	*04:07	*08:06					*03:01	*06:02			*11:01	*17:01	SSO NGS	
774	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02			*11:01	*17:01	SSP SSO	DRB1*08:54 DRB1*04:92 DQB1*03:73 DQB1*03:92 DQB1*03:93
792	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02	*02:01	*02:01	*11:01	*17:01	SSO NGS	DRB1*04:92
793					*01:02	*03:03					*11:01	*17:01	SSP	
794	*04:07:01	*08:06	4*01:03:01		*01:02	*03:03	*03:01	*06:02:01	NT	NT	*11:01:01	*17:01:01	SSP SSO NGS RT-PCR	DRB1*04:92
2344	*04:07:01	*08:06	NT	NT	NT	NT	*03:01:01	*06:02:01	NT	NT	*11:01:01	*17:01:01	NGS	
2400	*04:07	*08:06	4*01:03	NP	*01:02	*03:03	*03:01	*06:02			*11:01	*17:01P	SSO NGS	DQB1*03:276N
3135	*04:07P	*08:06	4*01:03		*01:02	*03:01	*03:01P	*06:02P	*02:01		*11:01:01	*17:01:01		DQA1*03:02 DQA1*03:03
3511	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02	*02:01	*02:01	*11:01	*17:01	SSP SSO	
3519	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02	*02:01	*02:01	*11:01	*17:01	SSP NGS RT-PCR	
3753	*04:07	*08:06					*03:01	*06:02			*11:01	*17:01	SSO SBT	DRB1*04:92 DQB1*03:10 DQB1*03:69 DQB1*03:74 DQB1*03:194 DQB1*03:256 DQB1*03:264 DQB1*03:276N DQB1*03:292 DQB1*03:293 DQB1*06:48 DQB1*06:82 DQB1*06:122 DQB1*06:176 DQB1*06:286 DPB1*264:01 DPB1*343:01 DPB1*348:01 DQB1*06:208 DQB1*06:273 DPB1*413:01+

Table 5b: Individual laboratory results for B-cell #580 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3966	*04:07	*08:06	4*01:03				*03:01	*06:02					SSP RT-PCR	
4251	*04:07:01G	*08:06	4*01:03		*01:02	*03:03	*03:01:01G	*06:02	*02:01	*02:01	*11:01	*17:01	NGS	
4337	*04:07	*08:06					*03:01	*06:02			*11:01	*17:01	SSP SBT NGS	
5130	*04:07	*08:06	4*01:03		*01:02	*03:03	*03:01	*06:02			*11:01	*17:01	SSO NGS	
5133	*04:07:01:01	*08:06	4*01:03:01		*01:02:01	*03:03:01:01	*03:01:01	*06:02:01:04	*02:01:01:01	*02:01:01:03	*11:01:01:01	*17:01:01:02	NGS	
5214											*11:01G	*17:01G	RT-PCR	
5219	*04:07:01	*08:06					*03:01:01	*06:02:01			*11:01:01	*17:01:01	SSO NGS	
5451	*04:07:01	*08:06											SSO SBT	
5462	NT	NT	NT	NP	NT	NT	NT	NT	NT		*11:01	*17:01	SSO	DPB1*654:01 DPB1*732:01N DPB1*907:01 DPB1*131:01 DPB1*738:01N DPB1*846:01 DPB1*956:01 DPB1*1017:01
5488	*04:07:01	*08:06	4*01:03:01		*01:02:01	*03:03:01	*03:01:01G	*06:02:01	*02:01:01		*11:01:01	*17:01:01	SSO NGS	
5642	*04:07	*08:06					*03:01	*06:02					SSP	
8021	*04:07	*08:06	4*01:01	4*01:03	*01:02	*03:03	*03:01	*06:02	*02:01		*11:01	*17:01	SSO NGS	
8043	*04:07	*08:06			*01:02	*03:03	*03:01	*06:02					SSP SSO	
8086	*04:07	*08:06			*01:02	*03:03	*03:01	*06:02	*02:01:01G	*02:01:01G	*11:01	*17:01	SBT	
8122	*04:07:01	*08:06	4*01:03	NP	*01:02:01	*03:03:01	*03:01:01	*06:02:01	*02:01:01		*11:01:01	*17:01:01	NGS	

Table 6: Individual laboratory results for B-cell #580 - Class I

Table 6: Individual laboratory results for B-cell #580 - Class I														
Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	NGS	
278	*02	*32	*15	*40	*02	*03	*02:01	*32:01	*15:10	*40:02	*02:02	*03:04	SSP SSO	
725	*02	*32	*15	*40	*02	*03							SSP SSO	
731	*02	*32	*15	*40	*02	*03	*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	SSO SBT NGS RT-PCR	
747	*02	*32	*15	*40	*02	*03	*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	SSP SSO NGS	
771	*02	*32	*15	*40	*02	*03	*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSO NGS	
774	*02	*32	*15	*40	*02	*03			*15:10				SSP SSO	B*15:313
792	*02	*32	*15	*40	*02	*03	*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSO NGS	
793	*02	*32	*15	*40	*02	*03							SSP	
794	*02	*32	*15	*40	*02	*03	*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	SSP SSO NGS RT-PCR	
2344							*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	NGS	
2400	*02	*32	*15	*40	*02	*03	*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSO NGS	
2847	*02	*32	*15	*40	*02	*03							SSO	
3135							*02:05:01:01	*32:01P	*15:10:01	*40:02P	*02:02P	*03:04:02		
3511							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSP SSO	
3519	*02	*32	*15	*40	*02	*03	*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSP NGS RT-PCR	
3753							*02:02	*32:01	*15:10	*40:02	*02:02	*03:04	SSO SBT	A*02:05 A*02:08 A*02:14 A*02:172 A*02:507 A*02:591 A*32:28 A*32:31 A*32:64 A*32:122 B*40:356 B*40:384 B*40:442 C*02:19 C*02:27 C*03:07 C*03:40 A*32:91 A*32:118 A*32:129 C*02:186
3966	*02	*32	*15	*40	*02	*03							SSP RT-PCR	
4079	*02	*32	*15	*40	*02	*03							SSO	
4251							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	NGS	
4337							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSP SBT NGS	
5130	*02	*32	*15	*40	*02	*03	*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSO NGS	
5133							*02:05:01:01	*32:01:01:01	*15:10:01:01	*40:02:01:08	*02:02:02:01	*03:04:02	NGS	
5214	*02	*32	*15(B71)	*40(B61)	*02	*03(Cw10)							RT-PCR	
5219	*02	*32	*15	*40	*02	*03	*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	SSO NGS	
5462	*02	*32	*15	*40	*02	*03	NT	NT	NT	NT	NT	NT	SSO	
5488							*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	SSO NGS	
8021							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SSO NGS	
8029	*02	*32	*15	*40	*02	*03							SSO	
8068	*02	*32	*15	*40	*02	*03							SSO	
8086							*02:05	*32:01	*15:10	*40:02	*02:02	*03:04	SBT	
8122							*02:05:01	*32:01:01	*15:10:01	*40:02:01	*02:02:02	*03:04:02	NGS	