

B-CELL LINE EXCHANGE #299

MAY 4, 2022

B-cell Line 597 - 598

The results for B-cell Line Exchange #299 were summarized in Tables 1 - 2 and individual laboratory results reported for each sample were listed in Tables 3 - 6.

We would like to express our appreciation to **Baylor University Medical Center, Dallas** and to **Leiden University Medical Center, Netherlands** for

providing the interesting samples examined in this study.

We would like to also thank the labs performing NGS for sharing their findings and encourage other NGS labs to do so as well. Haplotype frequencies used in this report were from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-597. The reported HLA type for this cell from a Caucasian donor was as follows:

HLA-A		HLA-B		HLA-C	
*32:01	*68:02	*08:01	*44:02	*01:02	*07:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01

This cell was the HLA identical sibling of cell 34299 (same as Ter 423 and Ter 271), one of the reference cells for DRB1*04:26. It was previously examined as Ter 548 (2018), Ter 366 (2005), and Ter 259 (2000). Based on combined family and exchange data, the haplotypes in this cell were determined to be A*68:02-B*44:02-C*07:01-DRB1*04:26-DRB4*01:03-DQA1*03:01-DQB1*03:02 and A*32:01-B*08:01-C*01:02-DRB1*03:01-DRB3*01:01-DQA1*05:01-DQB1*02:01.

In this present retyping, DRB1*04:26 was assigned by 96% of labs. Agreement for all other allele assignments was also > 90%.

Ter-598. The reported HLA type for this cell from a Caucasian donor was as follows:

HLA-A		HLA-B		HLA-C	
*24:02	*26:01	*35:02	*38:01	*04:01	*12:03

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01

This cell was previously examined as Ter 526 (2016), Ter 409 (2008), and Ter 295 (2002). Likely class I associations present in this cell were A*24:02-B*35:02-C*04:01 and A*26:01-B*38:01-C*12:03, observed in Caucasians, with respective HF = 0.00476 and 0.01115. The DRB1*08:06-DQA1*01:02-DQB1*06:02 association in this cell was also observed in a previous exchange cell, Ter 580 (same as Ter 410, Ter 296, and Ter 230).

In this present retyping, > 90% agreement was achieved for each allele assignment.

NEXT MAILING DATE: August 3, 2022

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Table 1: Summary of the 299th B-cell Line Exchange

[illegible]

DNA Typing - class I	<u>24 labs High; 24 labs low- A</u>		<u>24 labs High; 24 labs low- B</u>		<u>24 labs High; 23 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*32:01:01:01	4 (1)	B*08:01:01:01	4 (1)	C*01:02:01:01	4 (1)
	A*32:01:01	29(7)	B*08:01:01	29(7)	C*01:02:01	29(7)
	A*32:01P	4 (1)	B*08:01P	4 (1)	C*01:02P	4 (1)
	A*32:01	63(15)	B*08:01	63(15)	C*01:02	63(15)
	A*32	100(24)	B*08	100(24)	C*01	100(23)
	<u>24 labs High; 24 labs low- A</u>		<u>24 labs High; 24 labs low- B</u>		<u>24 labs High; 23 labs low- C</u>	
		%(n)		%(n)		%(n)
	A*68:02:01:01	8 (2)	B*44:02:01:01	4 (1)	C*07:01:01:01	4 (1)
	A*68:02:01	25(6)	B*44:02:01	29(7)	C*07:01:01	29(7)
	A*68:02P	4 (1)	B*44:02P	4 (1)	C*07:01P	4 (1)
	A*68:02	63(15)	B*44:02	63(15)	C*07:01	63(15)
	A*68	100(24)	B*44	100(24)	C*07	100(23)

Table 2: Summary of the 299th B-cell Line Exchange

Ter-598

DNA Typing - class II	<u>26 labs High; 23 labs low-DRB1</u>		%(n)	<u>20 labs High; 16 labs Low-DRB3/4/5</u>		%(n)	<u>21 labs High; 21 labs Low-DQA1</u>		%(n)	<u>26 labs High; 22 labs Low-DQB1</u>		%(n)	<u>17 labs High; 11 labs Low-DPA1</u>		%(n)	<u>26 labs High; 14 labs Low-DPB1</u>		%(n)
	DRB1*03:01:01		19(5)	DRB3*01:01:02		20(4)	DQA1*01:02:01		24(5)	DQB1*02:01:01		27 (7)	DPA1*01:03:01		29(5)	DPB1*04:01:01		31(8)
	DRB1*03:01:01G		12(3)	DRB3*01:01:02G		5 (1)	DQA1*01:02		76(16)	DQB1*02:01:01G		8 (2)	DPA1*01:03:01G		6 (1)	DPB1*04:01:01G		4 (1)
	DRB1*03:01P		8 (2)	DRB3*01:01		75(15)	DQA1*01		100(21)	DQB1*02:01		65(17)	DPA1*01:03		65(11)	DPB1*04:01P		8 (2)
	DRB1*03:01		61(16)	DRB3*01		88(14)				DQB1*02		100(22)	DPA1*01		100(11)	DPB1*04:01		57(15)
	DRB1*03(DR17)		39(9)	DRB3*PRESENT		12(2)										DPB1*04(DP401)		50(7)
	DRB1*03		61(14)													DPB1*04		50(7)
	<u>26 labs High; 23 labs low-DRB1</u>		%(n)				<u>21 labs High; 21 labs Low-DQA1</u>		%(n)	<u>26 labs High; 22 labs Low-DQB1</u>		%(n)	<u>17 labs High; 11 labs Low-DPA1</u>		%(n)	<u>26 labs High; 13 labs Low-DPB1</u>		%(n)
	DRB1*08:06		100(26)				DQA1*05:01:01		24(5)	DQB1*06:02:01:04		4 (1)	DPA1*02:01:01		29(5)	DPB1*11:01:01:01		4 (1)
	DRB1*08		100(23)				DQA1*05:01		76(16)	DQB1*06:02:01		27(7)	DPA1*02:01		71(12)	DPB1*11:01:01		31(8)
							DQA1*05		100(21)	DQB1*06:02:01G		4 (1)	DPA1*02		100(11)	DPB1*11:01:01G		4 (1)
										DQB1*06:02		65(17)				DPB1*11:01P		4 (1)
										DQB1*06		100(22)				DPB1*11:01		57(15)
															DPB1*11		100(14)	

DNA Typing - class I	<u>25 labs High; 24 labs low- A</u>		%(n)	<u>25 labs High; 24 labs low- B</u>		%(n)	<u>25 labs High; 23 labs low- C</u>		%(n)									
	A*24:02:01:01		4 (1)	B*35:02:01:02		4 (1)	C*04:01:01:06		4 (1)									
	A*24:02:01		28(7)	B*35:02:01		28(7)	C*04:01:01		28(7)									
	A*24:02P		4 (1)	B*35:02P		4 (1)	C*04:01:01G		8 (1)									
	A*24:02		64(16)	B*35:02		64(16)	C*04:01		60(15)									
	A*24		100(24)	B*35		100(24)	C*04		100(23)									
	<u>25 labs High; 24 labs low- A</u>		%(n)	<u>25 labs High; 24 labs low- B</u>		%(n)	<u>25 labs High; 23 labs low- C</u>		%(n)									
	A*26:01:01:01		8 (2)	B*38:01:01		32(8)	C*12:03:01:01		8 (2)									
	A*26:01:01		24(6)	B*38:01:01G		4 (1)	C*12:03:01		24(6)									
	A*26:01P		4 (1)	B*38:01		64(16)	C*12:03P		4 (1)									
	A*26:01		64(16)	B*38		100(24)	C*12:03		64(16)									
	A*26		100(24)				C*12		100(23)									

Table 3a: Individual laboratory results for B-cell #597 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04		
725	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)					SSO	
731	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04	NGS RT-PCR	
747	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01	*01	*03	*04	SSP SSO NGS	
762													NGS	
771	*03	*04			*03	*05	*02	*03			*03	*04	SSO NGS	
													SSP SSO SBT	
792	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01	*01	*03	*04(DP401)	NGS	
793	*03(DR17)	*04	3*01	4*PRESENT	*03	*05	*02	*03(DQ8)			*03	*04(DP401)	SSP	
													SSP SSO NGS	
794	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*03	*04	RT-PCR	
2400	*03	*04	3*01	4*01	*03	*05	*02	*03	NT	NT	*03	*04	SSO NGS	
2847	*03	*04											SSO	
3224													NGS	
													SSP NGS	
3519	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*03	*04(DP401)	RT-PCR	
3753	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01	*01	*03	*04(DP401)	SSO	
3966													SSP	
4079	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*03	*04(DP401)	SSO	
5130	*03	*04	3*01	4*01	*03	*05	*02	*03			*03	*04	SSO NGS	
5214	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*03	*04(DP401)	SSO	
5219	*03	*04			*03	*05	*02	*03					SSO NGS	
5462	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		NT	NT	SSO	
5488				4*01									SSO SBT NGS	
5642	*03(DR17)	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03(DQ8)					SSP SSO	
6649	*03(DR17)	*04					*02	*03(DQ8)					SSO	
8029	*03	*04			*03	*05	*02	*03						
8043	*03	*04			*03	*05	*02	*03					SSP SSO NGS	
8058	*03	*04	3*PRESENT	4*PRESENT	NT	NT	*02	*03	NT	NT	NT	NT		
8068	*03	*04			*03	*05	*02	*03					SSO	
8123	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01	*01	*03	*04(DP401)	RT-PCR	

Table 3b: Individual laboratory results for B-cell #597 - Class II

	High resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	NGS	
278	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01		
731	*03:01	*04:26					*02:01:01	*03:02			*03:01:01	*04:01:01	NGS RT-PCR	DQB1*03:416 DQB1*02:109 DQB1*02:163N DQB1*03:289 DRB1*03:147
747	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01	*01:03:01	*03:01:01	*04:01:01	SSP SSO NGS	DQB1*02:163N DQB1*03:289 DPB1*124:01 DPB1*350:01 DQB1*03:416
762	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	NGS	
771	*03:01	*04:26					*02:01	*03:02			*03:01	*04:01	SSO NGS	
792	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03			SSP SSO SBT NGS	
793					*03:01	*05:01					*03:01	*04:01	SSP	
794	*03:01:01	*04:26	3*01:01	4*01:03	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	SSP SSO NGS RT-PCR	
2344	*03:01:01G	*04:26	NT	NT	NT	NT	*02:01:01G	*03:02:01G	NT	NT	*03:01:01G	*04:01:01G	NGS	
2400	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	NT	NT	*03:01:01G	*04:01:01G	SSO NGS	DQB1*02:163N DQB1*03:289
3135	*03:01P	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01P	*04:01		
3224	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	NGS	
3511	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01P	NGS	
3519	*03:01P	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	SSP NGS RT-PCR	DRB1*03:147
3966	*03:01	*04:26	3*01:01	4*01:03			*02:01	*03:02					SSP	
4251	*03:01:01G	*04:26	3*01:01:02G	4*01:01:01G	*03:01	*05:01	*02:01:01G	*03:02:01G	01:03:01G	*01:03:01G	*03:01	*04:01		
4337	*03:01	*04:26					*02:01	*03:02			*03:01	*04:01	SSP SBT NGS	
5130	*03:01	*04:01	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*03:01	*04:01	SSO NGS	DRB1*03:147 DRB1*04:26
5133	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	NGS	DPB1*124:01:01 DPB1*350:01
5219	*03:01:01	*04:26					*02:01:01	*03:02:01			*03:01:01	*04:01:01	SSO NGS	
5451	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01	*01:03:01	*03:01:01	*04:01:01	NGS	

Table 3b: Individual laboratory results for B-cell #597 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*829:01 DPB1*728:01 DPB1*792:01N DPB1*876:01N DPB1*883:01 DPB1*1014:01 DPB1*1030:01 DPB1*1049:01 DPB1*1090:01 DPB1*1093:01 DPB1*1098:01N DPB1*1134:01 DPB1*1157:01 DPB1*1202:01N DPB1*1254:01 DPB1*773:01 DPB1*784:01 DPB1*795:01 DPB1*804:01 DPB1*811:01 DPB1*812:01 DPB1*813:01 DPB1*814:01 DPB1*838:01N DPB1*842:01 DPB1*844:01N DPB1*849:01 DPB1*850:01 DPB1*859:01 DPB1*871:01N DPB1*874:01N DPB1*878:01N+
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT		*03:01	*04:01	SSO	
5488	*03:01:01G	*04:26	3*01:01:02		*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	SSO SBT NGS	
5642	*03:01	*04:26			*03:01	*05:01	*02:01	*03:02					SSP SSO	
8001	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	NGS	DRB3*01:62
8021	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01		*01:03		*03:01	*04:01	SSO NGS	DPB1*939:01
8043	*03:01	*04:26			*03:01	*05:01	*02:01	*03:02			*03:01	*04:01	SSP SSO NGS	
8122	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	NGS	DRB3*01:62 DPB1*939:01 DPB1*350:01 DPB1*124:01

Table 4: Individual laboratory results for B-cell #597 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
278	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01		
725	*32	*68	*08	*44	*01	*07							SSO	
731	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	NGS RT-PCR	
747	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSP SSO NGS	
762							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
771	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
													SSP SSO SBT	
792	*32	*68	*08	*44	*01	*07							NGS	
793	*32	*68	*08	*44	*01	*07							SSP	
													SSP SSO NGS	
794	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	RT-PCR	
2344							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	NGS	
2400	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
2847	*32	*68	*08	*44	*01	*07							SSO	
3135							*32:01P	*68:02P	*08:01P	*44:02P	*01:02P	*07:01P		
3224							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
3511							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
													SSP NGS	
3519	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	RT-PCR	
3753	*32	*68	*08	*44	*01	*07							SSO	
3966	*32	*68	*08	*44	*01	*07							SSP	
4079	*32	*68	*08	*44	*01	*07							SSO	
4251							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01		
4337							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP SBT NGS	
5130	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
5133							*32:01:01:01	*68:02:01:01	*08:01:01:01	*44:02:01:01	*01:02:01:01	*07:01:01:01	NGS	
5214	*32	*68	*08	*44	*01	*07							SSO	
5219	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO NGS	
5451							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	NGS	
5462	*32	*68	*08	*44	*01	*07	NT	NT	NT	NT	NT	NT	SSO	
5488							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO SBT NGS	
5642	*32	*68	*08	*44	*01	*07							SSP SSO	
6649	*32	*68	*08	*44									SSO	
8001							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
8021							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
8029	*32	*68	*08	*44	*01	*07								
8043	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP SSO NGS	
8058	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
8068	*32	*68	*08	*44	*01	*07							SSO	
8122							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
8123	*32	*68	*08	*44	*01	*07							RT-PCR	

Table 5a: Individual laboratory results for B-cell #598 - Class II

	Low resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*03	*08	3*01	NT	*01	*05	*02	*06	*01	*02	*04	*11		
725	*03(DR17)	*08	3*01	3*01	*01	*05	*02	*06					SSO	
731	*03	*08	3*01	NP	*01	*05	*02	*06	*01	*02	*04	*11	NGS RT-PCR	
747	*03	*08	3*PRESENT		*01	*05	*02	*06	*01	*02	*04	*11	SSP SSO NGS	
762													NGS	
771	*03	*08			*01	*05	*02	*06			*04	*11	SSO NGS	
													SSP SSO SBT	
792	*03(DR17)	*08	3*01		*01	*05	*02	*06	*01	*02	*04(DP401)	*11	NGS	
793	*03(DR17)	*08	3*01		*01	*05	*02	*06			*04(DP401)	*11	SSP	
													SSP SSO NGS	
794	*03	*08	3*01		*01	*05	*02	*06	*01	*02	*04	*11	RT-PCR	
2400	*03	*08	3*01		*01	*05	*02	*06	NT	NT	*04	*11	SSO NGS	
2847	*03	*08											SSO	
3224													NGS	
													SSP NGS	
3519	*03(DR17)	*08	3*01		*01	*05	*02	*06	*01	*02	*04(DP401)	*11	RT-PCR	
3753	*03(DR17)	*08	3*01	NP	*01	*05	*02	*06	*01	*02	*04(DP401)	*11	SSO	
3966													SSP	
4079	*03(DR17)	*08	3*01		*01	*05	*02	*06	*01	*02	*04(DP401)	*11	SSO	
5130	*03	*08	3*01		*01	*05	*02	*06			*04	*11	SSO NGS	
5214	*03(DR17)	*08	3*01		*01	*05	*02	*06	*01	*02	*04(DP401)	*11	SSO	
5219	*03	*08			*01	*05	*02	*06					SSO NGS	
5462	*03	*08	3*01	NP	*01	*05	*02	*06	*01	*02	NT	NT	SSO	
5488													SSO SBT NGS	
5642	*03	*08	3*PRESENT		*01	*05	*02	*06					SSP SSO	
6649	*03(DR17)	*08					*02	*06					SSO	
8029	*03	*08			*01	*05	*02	*06						
8043	*03	*08			*01	*05	*02	*06					SSP SSO NGS	
8058	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
8068	*03	*08			*01	*05	*02	*06					SSO	
8123	*03(DR17)	*08	3*01		*01	*05	*02	*06	*01	*02	*04(DP401)	*11	RT-PCR	

Table 5b: Individual laboratory results for B-cell #598 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	NGS	
278	*03:01	*08:06	3*01:01	NT	*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01		
731	*03:01	*08:06					*02:01:01	*06:02:01:04			*04:01:01	*11:01:01:01	NGS RT-PCR	DQB1*02:109 DQB1*02:163N DRB1*03:147
747	*03:01:01	*08:06	3*01:01:02		*01:02:01	*05:01:01	*02:01:01	*06:02:01	*01:03:01	*02:01:01	*04:01:01	*11:01:01	SSP SSO NGS	DQB1*02:163N
762	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	NGS	
771	*03:01	*08:06					*02:01	*06:02			*04:01	*11:01	SSO NGS	
792	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	SSP SSO SBT NGS	DRB1*03:147
793					*01:02	*05:01					*04:01	*11:01	SSP	
794	*03:01:01	*08:06	3*01:01		*01:02:01	*05:01:01	*02:01:01	*06:02:01	*01:03:01	*02:01:01	*04:01:01	*11:01:01	SSP SSO NGS RT-PCR	
2344	*03:01:01G	*08:06	NT	NT	NT	NT	*02:01:01G	*06:02:01	NT	NT	*04:01:01	*11:01:01	NGS	
2400	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	NT	NT	*04:01:01G	*11:01:01G	SSO NGS	DQB1*02:163N
3135	*03:01P	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01P	*11:01:01		
3224	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	NGS	
3511	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01P	*11:01P	NGS	
3519	*03:01P	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	SSP NGS RT-PCR	DRB1*03:147
3966	*03:01	*08:06	3*01:01				*02:01	*06:02					SSP	
4251	*03:01:01G	*08:06	3*01:01:02G		*01:02	*05:01	*02:01:01G	*06:02:01G	*01:03:01G	*02:01	*04:01	*11:01		
4337	*03:01	*08:06					*02:01	*06:02			*04:01	*11:01	SSP SBT NGS	
5130	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02			*04:01	*11:01	SSO NGS	DRB1*03:147
5133	*03:01:01	*08:06	3*01:01:02		*01:02:01	*05:01:01	*02:01:01	*06:02:01	*01:03:01	*02:01:01	*04:01:01	*11:01:01	NGS	DPB1*350:01 DPB1*907:01
5219	*03:01:01	*08:06					*02:01:01	*06:02:01			*04:01:01	*11:01:01	SSO NGS	
5451	*03:01:01	*08:06	3*01:01:02		*01:02:01	*05:01:01	*02:01:01	*06:02:01	*01:03:01	*02:01:01	*04:01:01	*11:01:01	NGS	

Table 5b: Individual laboratory results for B-cell #598 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*1100:01 DPB1*1086:01 DPB1*1091:01 DPB1*1113:01 DPB1*1129:01 DPB1*1132:01 DPB1*1135:01N DPB1*1146:01 DPB1*1148:01Q DPB1*1152:01 DPB1*1155:01 DPB1*1161:01 DPB1*1164:01 DPB1*1167:01 DPB1*1173:01 DPB1*1184:01 DPB1*1193:01N DPB1*1268:01 DPB1*742:01 DPB1*743:01N DPB1*748:01N DPB1*754:01N DPB1*755:01 DPB1*756:01N DPB1*765:01 DPB1*880:01 DPB1*932:01 DPB1*939:01 DPB1*966:01 DPB1*974:01N DPB1*978:01 DPB1*989:01 DPB1*1001:01+
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*04:01	*11:01	SSO	DPB1*350:01 DPB1*907:01
5488	*03:01:01G	*08:06	3*01:01:02		*01:02:01	*05:01:01	*02:01:01	*06:02:01	*01:03:01	*02:01:01	*04:01:01	*11:01:01	SSO SBT NGS	
5642	*03:01	*08:06			*01:02	*05:01	*02:01	*06:02					SSP SSO	
														DRB3/4/5*3*01:62 DPB1*939:01 DPB1*350:01 DPB1*907:01
8001	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	NGS	
8021	*03:01	*08:06	3*01:01		*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	SSO NGS	
8043													SSP SSO NGS	
														DRB3*01:62 DPB1*939:01 DPB1*907:01 DPB1*350:01
8122	*03:01	*08:06	3*01:01	NP	*01:02	*05:01	*02:01	*06:02	*01:03	*02:01	*04:01	*11:01	NGS	

Table 6: Individual laboratory results for B-cell #598 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
278	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03		
725	*24	*26	*35	*38	*04	*12							SSO	
731	*24	*26	*35	*38	*04	*12	*24:02:01	*26:01:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01:01	NGS RT-PCR	
747	*24	*26	*35	*38	*04	*12	*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	SSP SSO NGS	
762							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
771	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	SSO NGS	
													SSP SSO SBT	
792	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
793	*24	*26	*35	*38	*04	*12							SSP	
													SSP SSO NGS	
794	*24	*26	*35	*38	*04	*12	*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	RT-PCR	
2344							*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	NGS	
2400	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	SSO NGS	
2847	*24	*26	*35	*38	*04	*12							SSO	
3135							*24:02P	*26:01P	*35:02P	*38:01:01G	*04:01:01G	*12:03P		
3224							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
3511							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
													SSP NGS	
3519	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	RT-PCR	
3753	*24	*26	*35	*38	*04	*12							SSO	
3966	*24	*26	*35	*38	*04	*12							SSP	
4079	*24	*26	*35	*38	*04	*12							SSO	
4251							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03		
4337							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	SSP SBT NGS	
5130	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	SSO NGS	
5133							*24:02:01:01	*26:01:01:01	*35:02:01:02	*38:01:01	*04:01:01:06	*12:03:01:01	NGS	
5214	*24	*26	*35	*38	*04	*12							SSO	
5219	*24	*26	*35	*38	*04	*12	*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	SSO NGS	
5451							*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	NGS	
5462	*24	*26	*35	*38	*04	*12	NT	NT	NT	NT	NT	NT	SSO	
5488							*24:02:01	*26:01:01	*35:02:01	*38:01:01	*04:01:01	*12:03:01	SSO SBT NGS	
5642	*24	*26	*35	*38	*04	*12							SSP SSO	
6649	*24	*26	*35	*38									SSO	
8001							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
8021							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	SSO NGS	
8029	*24	*26	*35	*38	*04	*12								
8043	*24	*26	*35	*38	*04	*12	*24:02	*26:01	*35:02	*38:01	*04:01:01G	*12:03	SSP SSO NGS	
8058	NT	NT	NT	NT	NT	NT								
8068	*24	*26	*35	*38	*04	*12							SSO	
8122							*24:02	*26:01	*35:02	*38:01	*04:01	*12:03	NGS	
8123	*24	*26	*35	*38	*04	*12							RT-PCR	