

B-CELL LINE EXCHANGE #306

AUGUST 2, 2023

B-cell Line 611- 612

The results for B-cell Line Exchange #306 are summarized in Tables 1 - 2 and individual lab results reported for each sample are listed in Tables 3 - 6. We are grateful to the generosity of **Welsh Blood Service, Pontyclun** for donating the B*44:23:01:01N reference cell 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 are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-611 The following is the reported HLA type for this cell from a Caucasian donor:

HLA-A		HLA-B		HLA-C	
*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01

Combined data from families studies (1) and exchange results show the haplotypes in this cell to be A*02:01-B*44:23N-C*05:01-DRB1*04:08-DRB4*01:03-DQA1*03:03-DQB1*03:04 and A*01:01-B*08:01-C*07:01-DRB1*04:01-DQA1*03:03-DQB1*03:01.

This cell is 12506397. It is a reference cell for B*08:01:01:01 and B*44:23:01:01N. It was previously examined in the Class I DNA Extract Exchange as extracts 360 (2006) and 297 (2004). In the present retyping, B*44:23N and B*08:01 were each assigned by $\geq 90\%$ of labs reporting at high resolution. Two subtypes of DQB1*03 are present in this cell, DQB1*03:01 (100%) and DQB1*03:04 (100%). Among labs reporting at low resolution, 52% assigned DQB1*03 (DQ7). Good agreement ($\geq 80\%$) was also achieved for all other allele assignments.

References:

1. Hammond L, Street J, Downing J, et al. Immunogenetics of a new HLA-B null allele, HLA-B*4423N. Eur J Immunogenet 2003;30:385-386 .

Ter-612. The following is the reported HLA type for this cell from a donor of Japanese descent.

HLA-A		HLA-B		HLA-C	
*02:01	*31:01	*15:01	*67:01	*07:02	

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01

One likely association present in this cell is A*31:01-C*07:02-DRB1*14:06-DRB3*01:01-DQA1*05:03-DQB1*03:01. This same association is observed in the DRB1*14:06 reference cell FKD1140601E1. The other likely association present is A*02:01-C*07:02-DRB1*14:03-DRB3*02:02-DQA1*05:03-DQB1*03:01. DRB1*14:03-DQB1*03:01 is observed exclusively in Asian populations, with HF = 0.00397.

This cell is TER313, one of the reference cells for DRB1*14:06:01. It was examined previously in the Exchange as Ter 313 (2002), Ter 240 (1999), extract 511 (2011), extract 195 (2002), and extract 88 (1999). In this present retyping, DRB1*14:06 and DRB1*14:03 were each assigned by 100%. B*15:01 and B*67:01 were also well assigned ($\geq 90\%$), with 59% of labs reporting at low resolution assigning the B15 split as B*15 (B62). Good agreement ($\geq 80\%$) was also achieved for all other allele assignments.

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Table 1: Summary of the 306th B-cell Line Exchange

Ter-611																								
DNA Typing - class II	<u>27 labs High; 22 labs low-DRB1</u>			%(n)	<u>21 labs High; 15 labs Low-DRB3/4/5</u>			%(n)	<u>20 labs High; 17 labs Low-DQA1</u>			%(n)	<u>27 labs High; 21 labs Low-DQB1</u>			%(n)	<u>16 labs High; 10 labs Low-DPA1</u>			%(n)	<u>26 labs High; 11 labs Low-DPB1</u>			%(n)
	DRB1*04:01:01			22(6)	DRB4*01:03:01			19(4)	DQA1*03:03:01			25(5)	DQB1*03:01:01			15(4)	DPA1*01:03:01			31(5)	DPB1*03:01:01			27(7)
	DRB1*04:01:01G			19(5)	DRB4*01:01:01G			10(2)	DQA1*03:01:01G			5 (1)	DQB1*03:01:01G			22(6)	DPA1*01:03:01G			6 (1)	DPB1*03:01:01G			19(5)
	DRB1*04:01			59(16)	DRB4*01:03			71(15)	DQA1*03:03			70(14)	DQB1*03:01			63(17)	DPA1*01:03			63(10)	DPB1*03:01P			4 (1)
	DRB1*04			100(22)	DRB4*01			80(12)	DQA1*03			100(17)	DQB1*03(DQ7)			52(11)	DPA1*01			100(10)	DPB1*03:01			50(13)
					DRB4*PRESENT			13 (2)					DQB1*03			48(10)					DPB1*03			100(11)
					DRB3*PRESENT			7 (1)																

Table 2: Summary of the 306th B-cell Line Exchange

Ter-612

DNA Typing - class II	<u>27 labs High; 22 labs low-DRB1</u>		%(n)	<u>20 labs High; 16 labs Low-DRB3/4/5</u>		%(n)	<u>20 labs High; 17 labs Low-DQA1</u>		%(n)	<u>27 labs High; 21 labs Low-DQB1</u>		%(n)	<u>16 labs High; 10 labs Low-DPA1</u>		%(n)	<u>26 labs High; 11 labs Low-DPB1</u>		%(n)
	DRB1*14:03:01		30(8)	DRB3*01:01:02		10(2)	DQA1*05:03:01		25(5)	DQB1*03:01:01		22(6)	DPA1*01:03:01		31(5)	DPB1*02:01:02		23(6)
	DRB1*14:03:01G		4 (1)	DRB3*01:01:02G		5 (1)	DQA1*05:01:01G		5 (1)	DQB1*03:01:01G		15(4)	DPA1*01:03:01G		6 (1)	DPB1*02:01:02G		11(3)
	DRB1*14:03P		4 (1)	DRB3*01:01P		25(5)	DQA1*05:03		70(14)	DQB1*03:01		63(17)	DPA1*01:03		63(10)	DPB1*02:02:01G		4 (1)
	DRB1*14:03		62(17)	DRB3*01:01		60(12)	DQA1*05		100(17)	DQB1*03(DQ7)		52(11)	DPA1*01		100(10)	DPB1*02:01P		8 (2)
	DRB1*14		100(22)	DRB3*01		88(14)				DQB1*03		48(10)				DPB1*02:01		54(14)
				DRB3*PRESENT		12(2)										DPB1*02(DP201)		64(7)
																DPB1*02		36(4)

Table 3a: Individual laboratory results for B-cell #611 - Class II

Low resolution																
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles		
51																
725	*04		4*01		*03		*03(DQ7)						SSO			
747	*04	*04	4*01	4*01	*03	*03	*03	*03	*01	*01	*03	*04	SSP SSO NGS			
771	*04	*04			*03	*03	*03	*03					SSP SSO NGS			
792	*04	*04	4*01	4*01	*03	*03	*03(DQ7)	*03(DQ7)	*01	*01	*03	*04(DP401)	SSO NGS			
793	*04		4*PRESENT		*03		*03(DQ7)		*01		*03	*04(DP401)	SSP			
794	*04		4*01		*03		*03		*01		*03	*04	SSP SSO NGS			
2400	*04		4*01				*03(DQ7)		NT				RT-PCR			
2847	*04	*04											SSO NGS			
													SSO			
3519	*04		4*01		*03		*03(DQ7)		*01		*03	*04(DP401)	SSP NGS			
3753	*04		4*01		*03		*03(DQ7)		*01		*03	*04(DP401)	RT-PCR			
3966													SSO			
4079	*04	*04	4*01		*03		*03(DQ7)	*03(DQ7)	*01		*03	*04(DP401)	SSO RT-PCR			
5130	*04	*04	4*01		*03	*03	*03	*03			*03	*04	SSO NGS			
5214	*04	*04	4*01		*03		*03(DQ7)		*01		*03	*04(DP401)	SSO NGS			
5219	*04	*04			*03	*03	*03(DQ7)	*03					RT-PCR			
5488													SSO			
5642	*04		4*PRESENT				*03(DQ7)						SSO SBT NGS			
6649	*04	*04					*03	*03					SSP SSO			
6649	*04	*04					*03	*03					SSO			
8029	*04	*04			*03	*03	*03	*03					SSO NGS			
8038	*04	*04	4*01	4*01	*03	*03	*03(DQ7)	*03(DQ7)	*01	*01	*03	*04	SSO SBT			
8043	*04	*04			*03		*03	*03					SSP SSO NGS			
8058	*04		3*PRESENT				*03									
8068	*04	*04			*03	*03	*03	*03					SSO			
8123	*04	*04	4*01	4*01	*03	*03	*03(DQ7)	*03(DQ7)	*01	*01	*03	*04(DP401)	RT-PCR			

Table 3b: Individual laboratory results for B-cell #611 - Class II														
	High resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:01	*04:08	4*01:03	4*01:03	*03:03	*03:03	*03:01	*03:04	*01:03	*01:03	*03:01	*04:01	NGS	
747	*04:01:01	*04:08:01	4*01:03:01	4*01:03:01	*03:03:01	*03:03:01	*03:01	*03:04:01	*01:03:01	*01:03:01	*03:01:01	*04:01:01	SSP SSO NGS	DQB1*03:276N DPB1*124:01 DPB1*350:01
762	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01	NGS	
771	*04:01	*04:08					*03:01	*03:04			*03:01	*04:01	SSP SSO NGS	
792	*04:01	*04:08	4*01:03	4*01:03	*03:03	*03:03	*03:01	*03:04	*01:03	*01:03	*03:01	*04:01	SSO NGS	DQB1*03:358N
793					*03:03						*03:01	*04:01	SSP	
794	*04:01:01	*04:08:01	4*01:03		*03:03:01		*03:01:01	*03:04:01	*01:03:01		*03:01:01	*04:01:01	SSP SSO NGS RT-PCR	
2344	*04:01:01G	*04:08:01G					*03:01:01G	*03:04:01G			*03:01:01G	*04:01:01G	NGS	
2400	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	NT		*03:01:01G	*04:01:01G	SSO NGS	DQB1*03:276N
3135	*04:01:01G	*04:08	4*01:03		*03:01:01G		*03:01:01G	*03:04:01	*01:03		*03:01:01G	*04:01:01G		
3511	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01	NGS	
3519	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01P	SSP NGS RT-PCR	DPB1*04:01
3753													SSO	
3966	*04:01	*04:08	4*01:03	4*01:03			*03:01	*03:04					SSO RT-PCR	DRB4*01:01 DRB4*01:01
4251	*04:01:01G	*04:08:01G	4*01:01:01G	4*01:01:01G	*03:03	*03:03	*03:01:01G	*03:04	*01:03:01G	*01:03:01G	*03:01	*04:01	NGS	
4337	*04:01	*04:08					*03:01	*03:04			*03:01	*04:01	SSP SBT NGS	
5130	*04:01	*04:08	4*01:03		*03:03	*03:03	*03:01	*03:04			*03:01:01G	*04:01:01G	SSO NGS	
5133	*04:01:01	*04:08:01	4*01:03:01		*03:03:01		*03:01:01	*03:04:01	*01:03:01		*03:01:01	*04:01:01	NGS	DQB1*03:276N
5219	*04:01:01	*04:08:01					*03:01:01	*03:04:01			*03:01:01	*04:01:01	SSO NGS	
5451	*04:01:01	*04:08:01	4*01:03:01		*03:03:01		*03:01:01G	*03:04:01	*01:03:01		*03:01:01	*04:01:01	NGS	
5462	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01P	*04:01P	NGS	DPB1*124:01 DPB1*350:01
5488	*04:01:01	*04:08:01	4*01:03:01		*03:03:01		*03:01:01	*03:04:01	*01:03:01		*03:01:01	*04:01:01	SSO SBT NGS	DQB1*03:276N DPB1*124:01:01 DPB1*350:01
5642	*04:01	*04:08					*03:01	*03:04					SSP SSO	
8001	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01	NGS	DQB1*03:276N DQB1*03:454 DPB1*939:01
8021	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01	SSO NGS	
8029	*04:01:01G	*04:08:01					*03:01:01G	*03:04:01			*03:01:01G	*04:01:01G	SSO NGS	
8038	*04:01:01G	*04:08P	4*01:01:01G	4*01:01:01G	NT	NT	*03:01:01G	*03:04:01	NT	NT	*03:01:01	*04:01:01G	SSO SBT	DPB1*1226:01 DPB1*03:01:08 DPB1*04:01:31 DPB1*124:01 DPB1*350:01
8043	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04			*03:01	*04:01	SSP SSO NGS	
8122	*04:01	*04:08	4*01:03		*03:03		*03:01	*03:04	*01:03		*03:01	*04:01	NGS	DPB1*124:01 DPB1*350:01

Table 4: Individual laboratory results for B-cell #611 - Class I

	Low resolution						High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
747							01:01:01	*02:01:01	*08:01:01	*44:23:01:02N	*05:01:01	*07:01:01	SSP SSO NGS	
762							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
725	*01	*02	*08	*44	*05	*07							SSO	
747	*01	*02	*08	*44	*05	*07							SSP SSO NGS	
771	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	SSP SSO NGS	
792	*01	*02	*08		*05	*07	*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	SSO NGS	A*02:01:01:02L
793	*01	*02	*08	*44	*05	*07							SSP	
													SSP SSO NGS	
794	*01	*02	*08	*44	*05	*07	01:01:01	*02:01:01	*08:01:01	*44:23:01:02N	*05:01:01	*07:01:01	RT-PCR	
2344							01:01:01	*02:01:01	*08:01:01	*44:23:01N	*05:01:01	*07:01:01	NGS	
2400	*01	*02	*08		*05	*07	*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	SSO NGS	
2847	*01	*02	*08	*44	*05	*07							SSO	
3135							01:01P	*02:01P	*08:01P	*44:23N	*05:01P	*07:01P		
3511							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
													SSP NGS	
3519	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	RT-PCR	
3753	*01	*02	*08		*05	*07				*44:23N			SSO	
3966	*01	*02	*08	*44	*05	*07							SSO RT-PCR	
4079	*01	*02	*08	*44	*05	*07							SSO RT-PCR	
4251							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
4337							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	SSP SBT NGS	
5130	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:23:01:02N	*05:01	*07:01	SSO NGS	
5133							01:01:01:01	*02:01:01:01	*08:01:01	*44:23:01:02N	*05:01:01:02	*07:01:01:01	NGS	
5214	*01	*02	*08	*44	*05	*07							RT-PCR	
5219	*01	*02	*08	*44	*05	*07	01:01:01	*02:01:01	*08:01:01	*44:23N	*05:01:01	*07:01:01	SSO NGS	
5451							01:01:01	*02:01:01	*08:01:01	*44:23N	*05:01:01	*07:01:01	NGS	
5462							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
5488							01:01:01	*02:01:01	*08:01:01	*44:23:01N	*05:01:01	*07:01:01	SSO SBT NGS	
5642	*01	*02	*08	*44	*05	*07							SSP SSO	
6649	*01	*02	*08	*44									SSO	
8001							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	NGS	
8021							*01:01	*02:01	*08:01	*44:23N	*05:01	*07:01	SSO NGS	
8029	*01	*02	*08	*44	*05	*07	01:01:01	*02:01:01G	*08:01:01	*44:23:01:02N	*05:01:01	*07:01:01	SSO NGS	
														A*01:01:118 A*02:01:170 A*01:383 A*02:884:01 C*07:848 C*07:877
8038	*01	*02	*08	*44	*05	*07	01:01:01G	*02:01:01G	*08:01P	*44:23N	*05:01:01G	*07:01:01G	SSO SBT	
8043	*01	*02	*08	*44	*05	*07	*01:01	*02:01	*08:01	*44:23:01N	*05:01	*07:01	SSP SSO NGS	
8068	*01	*02	*08	*44	*05	*07							SSO	
8122							*01:01	*02:01	*08:01	*44:23:01N	*05:01	*07:01	NGS	
8123	*01	*02	*08	*44	*05	*07							RT-PCR	

Table 5a: Individual laboratory results for B-cell #612 - Class II

	Low resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
725	*14		3*01	3*02	*05		*03(DQ7)						SSO	
747	*14	*14	3*01	3*02	*05	*05	*03	*03	*01	*02	*02	*05	SSP SSO NGS	
771	*14	*14			*05		*03						SSP SSO NGS	
792	*14	*14	3*01	3*02	*05	*05	*03(DQ7)	*03(DQ7)	*01	*02	*02(DP201)	*05	SSO NGS	
793	*14	*14	3*01	3*02	*05		*03(DQ7)		*01	*02	*02(DP201)	*05	SSP	
													SSP SSO NGS	
794	*14		3*01	3*02	*05		*03		*01	*02	*02	*05	RT-PCR	
2400	*14		3*01	3*02			*03(DQ7)						SSO NGS	
2847	*14	*14											SSO	
													SSP NGS	
3519	*14		3*01	3*02	*05		*03(DQ7)		*01	*02	*02(DP201)	*05	RT-PCR	
3753	*14		3*01	3*02	*05		*03(DQ7)		*01	*02	*02(DP201)	*05	SSO	
3966													SSO RT-PCR	
4079	*14	*14	3*01	3*02	*05		*03(DQ7)		*01	*02	*02(DP201)	*05	SSO RT-PCR	
5130	*14	*14	3*01	3*02	*05	*05	*03	*03			*02	*05	SSO NGS	
5214	*14	*14	3*01	3*02	*05		*03(DQ7)		*01	*02	*02(DP201)	*05	RT-PCR	
5219	*14	*14			*05	*05	*03	*03					SSO NGS	
5488			3*01	3*02									SSO SBT NGS	
5642	*14		3*PRESENT				*03(DQ7)						SSP SSO	
6649	*14	*14					*03	*03					SSO	
8029	*14	*14			*05	*05	*03	*03					SSO NGS	
8038	*14	*14	3*01	3*02	*05	*05	*03(DQ7)	*03(DQ7)	*01	*02	*02	*05	SSO SBT	
8043	*14	*14			*05		*03						SSP SSO NGS	
8058	*14	*03	3*PRESENT				*03							
8068	*14	*14			*05	*04	*03	*03					SSO	DQA1*05
8123	*14	*14	3*01	3*02	*05	*05	*03(DQ7)	*03(DQ7)	*01	*02	*02(DP201)	*05	RT-PCR	

Table 5b: Individual laboratory results for B-cell #612 - Class II

	High resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*14:03	*14:06	3*01:01	3*02:02	*05:03	*05:03	*03:01	*03:01	*01:03	*02:02	*02:01	*05:01	NGS	
747	*14:03:01	*14:06:01	3*01:01:02	3*02:02:01	*05:03:01	*05:03:01	*03:01:01	*03:01:01	*01:03:01	*02:02:02	*02:01:02	*05:01:01	SSP SSO NGS	DPB1*414:01 DPB1*744:01 DQB1*03:276N
762	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	NGS	DRB3*01:91 DRB3*02:133
771	*14:03	*14:06					*03:01				*02:01	*05:01	SSP SSO NGS	
792	*14:03	*14:06	3*01:01	3*02:02	*05:03	*05:03	*03:01	*03:01	*01:03	*02:02	*02:01	*05:01	SSO NGS	DRB3*01:62 DRB3*01:91 DRB*3*02:133 DQB1*03:358N DPB1*1273:01
793					*05:03						*02:01	*05:01	SSP	
794	*14:03:01	*14:06:01	3*01:01	3*02:02	*05:03:01		*03:01:01		*01:03:01	*02:02:02	*02:01:02	*05:01:01	SSP SSO NGS	
2344	*14:03:01G	*14:06:01G					*03:01:01G	*03:01:01G			*02:01:02G	*05:01:01G	NGS	
2400	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01				*02:02:01G	*05:01:01G	SSO NGS	DQB1*03:276N
3135	*14:03:01	*14:06:01	3*01:01	3*02:02	*05:01:01G	*05:03	*03:01		*01:03	*02:07	*02:01	*05:01		
3511	*14:03	*14:06	3*01:01P	3*02:02P	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	NGS	
3519	*14:03	*14:06	3*01:01P	3*02:02:01G	*05:03		*03:01				*02:01	*05:01	SSP NGS RT-PCR	DRB3*01:91 DRB3*01:01 DRB3*01:62 DRB3*02:02 DRB3*02:133 DPB1*1273:01
3753													SSO	
3966	*14:03	*14:06	3*01:01	3*02:02			*03:01	*03:01					SSO RT-PCR	
4251	*14:03	*14:06	3*01:01:02G	3*02:02:01G	*05:03	*05:03	*03:01:01G	*03:01:01G	*01:03:01G	*02:02:02G	*02:01	*05:01:01G	NGS	
4337	*14:03	*14:06					*03:01	*03:01			*02:01	*05:01	SSP SBT NGS	
5130	*14:03	*14:06	3*01:01	3*02:02	*05:03	*05:03	*03:01	*03:01			*02:01:02G	*05:01:01G	SSO NGS	DRB3*02:26
5133	*14:03:01	*14:06:01	3*01:01:02	3*02:02:01	*05:03:01		*03:01:01		*01:03:01	*02:02:02	*02:01:02	*05:01:01	NGS	DQB1*03:276N DRB3*01:91 DRB3*02:133
5219	*14:03:01	*14:06:01					*03:01:01	*03:01:01			*02:01:02	*05:01:01	SSO NGS	
5451	*14:03:01	*14:06:01	3*01:01P	3*02:02P	*05:03:01		*03:01:01		*01:03:01	*02:02:02	*02:01:02	*05:01:01	NGS	
5462	*14:03	*14:06	3*01:01P	3*02:02P	*05:03		*03:01		*01:03	*02:02	*02:01P	*05:01P	NGS	DPB1*414:01 DRB3*01:91 DRB3*02:133 DPB1*744:01
5488	*14:03:01	*14:06:01			*05:03:01		*03:01:01		*01:03:01	*02:02:02	*02:01:02	*05:01:01	SSO SBT NGS	DQB1*03:276N DPB1*414:01:01 DPB1*744:01
5642	*14:03	*14:06					*03:01						SSP SSO	

Table 5b: Individual laboratory results for B-cell #612 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8001	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	NGS	DRB3*01:62 DQB1*03:276N DQB1*03:454 DPB1*1273:01 DRB3*01:91 DRB3*02:133
8021	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	SSO NGS	
8029	*14:03:01	*14:06:01					*03:01:01G	*03:01:01G			*02:01:02G	*05:01:01G	SSO NGS	
8038	*14:03P	*14:06	3*01:01P	3*02:02:01G	NT	NT	*03:01:01G	*03:01:01G	NT	NT	*02:01P	*05:01P	SSO SBT	DRB3*01:41 DRB3*02:05:01 DRB3*01:56 DRB3*01:75 DRB3*02:07 DPB1*352:01:02 DPB1*744:01 DRB3*01:15 DRB3*02:21 DRB3*01:21 DRB3*02:10 DRB3*01:28 DRB3*02:70 DRB3*01:30 DRB3*02:25 DRB3*01:32 DRB3*02:22:01 DRB3*01:36 DRB3*02:134 DRB3*01:67 DRB3*02:42 DRB3*01:76 DRB3*02:09 DRB3*01:09 DPB1*414:01:01 DPB1*02:01:25 DPB1*05:01:14
8043	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	SSP SSO NGS	
8122	*14:03	*14:06	3*01:01	3*02:02	*05:03		*03:01		*01:03	*02:02	*02:01	*05:01	NGS	DQB1*03:276N DPB1*414:01 DPB1*744:01

Table 6: Individual laboratory results for B-cell #612 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
725	*02	*31	*15(B62)	*67	*07		*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	NGS	
747	*02	*31	*15	*67	*07	*07	*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01	*07:02:01	SSP SSO NGS	
762							*02:01	*31:01	*15:01	*67:01	*07:02		NGS	
771	*02	*31	*15	*67	*07		*02:01	*31:01	*15:01	*67:01	*07:02		SSP SSO NGS	
792	*02	*31	*15(B62)	*67	*07	*07	*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	SSO NGS	A*02:01:01:02L
793	*02	*31	*15(B62)	*67	*07								SSP	
794	*02	*31	*15	*67	*07		*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01		SSP SSO NGS RT-PCR	
2344							*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01	*07:02:01	NGS	
2400	*02	*31	*15(B62)	*67	*07		*02:01	*31:01	*15:01	*67:01	*07:02		SSO NGS	
2847	*02	*31	*15	*67	*07								SSO	
3135							*02:01:01G	*31:01P	*15:01P	*67:01:01	*07:02P			
3511							*02:01	*31:01	*15:01	*67:01	*07:02		NGS	
3519	*02	*31	*15(B62)	*67	*07		*02:01	*31:01	*15:01	*67:01	*07:02		SSP NGS RT-PCR	
3753	*02	*31	*15(B62)	*67	*07								SSO	
3966	*02	*31	*15(B62)	*67	*07	*07							SSO RT-PCR	
4079	*02	*31	*15(B62)	*67	*07								SSO RT-PCR	
4251							*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	NGS	
4337							*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	SSP SBT NGS	
5130	*02	*31	*15	*67	*07	*07	*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	SSO NGS	
5133							*02:01:01:01	*31:01:02:01	*15:01:01:01	*67:01:01	*07:02:01:01	*07:02:01:108	NGS	
5214	*02	*31	*15(B62)	*67	*07								RT-PCR	
5219	*02	*31	*15	*67	*07	*07	*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01	*07:02:01	SSO NGS	
5451							*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01		NGS	
5462							*02:01	*31:01	*15:01	*67:01	*07:02		NGS	
5488							*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01		SSO SBT NGS	
5642	*02	*31	*15(B62)	*67	*07								SSP SSO	
6649	*02	*31	*15(B62)	*67									SSO	
8001							*02:01	*31:01	*15:01	*67:01	*07:02		NGS	
8021							*02:01	*31:01	*15:01	*67:01	*07:02		SSO NGS	
8029	*02	*31	*15	*67	*07	*07	*02:01:01G	*31:01:02	*15:01:01	*67:01:01	*07:02:01	*07:02:01	SSO NGS	
8038	*02	*31	*15(B62)	*67	*07	*07	*02:01:01G	*31:01:02G	*15:01:01G	*67:01:01	*07:02:01G	*07:02:01G	SSO SBT	C*07:853
8043	*02	*31	*15	*67	*07		*02:01	*31:01	*15:01	*67:01	*07:02		SSP SSO NGS	
8068	*02	*31	*15	*67	*07	*07							SSO	
8122							*02:01	*31:01	*15:01	*67:01	*07:02		NGS	
8123	*02	*31	*15(B62)	*67	*07	*07							RT-PCR	