

B-CELL LINE EXCHANGE #307

OCTOBER 4, 2023

B-cell Line 613- 614

The results for B-cell Line Exchange #307 are summarized in Tables 1 - 2 and individual lab results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun** for donating the reference DRB1*03:04:01 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-613. The following is the reported HLA type for this cell from a donor of unknown ethnicity.

HLA-A		HLA-B		HLA-C	
*01:01	*31:01	*08:01	*40:01	*03:04	*07:01

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

This cell is 35919, the reference cell for DRB1*03:04:01. It was previously examined in the Exchange as Ter 437 (2010) and Ter 335 (2004). One likely association present in this cell is A*31:01-B*40:01-DRB1*04:04-DQB1*03:02, observed most commonly in Caucasian populations, with HF = 0.00615. The other likely association may then be A*01:01-B*08:01-DRB1*03:04-DQB1*02:01. This same association was observed in another DRB1*03:04:01 reference cell known as 27895.

In this present retyping, DRB1*03:04 was assigned by 100%, with 11 labs assigning DRB1*03:04:01. DRB1*04:04 (96%) was assigned as the second DRB1 type. Greater than 80% agreement was 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-614. The following is the reported HLA type for this cell from a donor of African American descent.

HLA-A		HLA-B		HLA-C	
*30:01	*33:01	*53:01	*81:01	*04:01	*08:04

DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1	
*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02		*01:03	*02:01	*11:01	*104:01

This cell is HW, the reference cell for DRB1*11:08:02 (1). It was examined in the workshops as IHW9431 and in the Exchange as Ter 427 (2009) and Ter 307 (2002). Likely associations present in this cell are A*30:01-B*81:01-C*08:04 and A*33:01-B*53:01-C*04:01. Each is exclusively observed in African American populations, with respective MFI = 0.00051 and 0.00138.

In this present retyping, DRB1*11:08 was assigned by 100%, with 12 labs assigning DRB1*11:08:02. DRB1*07:01 (100%) was assigned as the second DRB1 type. Consensus grading was achieved for all loci, except DQB1. DQB1*02:02 was assigned by 21 labs (81%), DQB1*02:01:01G by 4 labs (15%), and DQB1*02:01P by 1 lab (4%).

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Table 1: Summary of the 307th B-cell Line Exchange

Ter-613																								
DNA Typing - class II	<u>27 labs High; 21 labs low-DRB1</u>			%(n)	<u>21 labs High; 15 labs Low-DRB3/4/5</u>			%(n)	<u>19 labs High; 16 labs Low-DQA1</u>			%(n)	<u>27 labs High; 20 labs Low-DQB1</u>			%(n)	<u>16 labs High; 9 labs Low-DPA1</u>			%(n)	<u>25 labs High; 10 labs Low-DPB1</u>			%(n)
	DRB1*03:04:01			41(11)	DRB3*01:01:02			14(3)	DQA1*03:01:01			32(6)	DQB1*02:01:01			22(6)	DPA1*01:03:01			38(6)	DPB1*04:01:01			16(4)
	DRB1*03:04			69(16)	DRB3*01:01:01G			5 (1)	DQA1*03:01			68(13)	DQB1*02:01:01G			18(5)	DPA1*01:03:01G			6 (1)	DPB1*04:01:01G			28(7)
	DRB1*03(DR17)			43(9)	DRB3*01:01:02G			5 (1)	DQA1*03			100(16)	DQB1*02:01P			4 (1)	DPA1*01:03			56(9)	DPB1*04:01P			8 (2)
	DRB1*03			57(12)	DRB3*01:01P			5 (1)					DQB1*02:01			56(15)	DPA1*01			100(9)	DPB1*04:01			48(12)
					DRB3*01:01			71(15)													DPB1*04(DP401)			60(6)
					DRB3*01			87(13)													DPB1*04			40(4)
					DRB3*PRESENT			13(2)																

Table 2: Summary of the 307th B-cell Line Exchange

Ter-614

DNA Typing - class II		26 labs High; 20 labs low-DRB1		20 labs High; 14 labs Low-DRB3/4/5		18 labs High; 16 labs Low-DQA1		26 labs High; 19 labs Low-DQB1		16 labs High; 8 labs Low-DPA1		24 labs High; 9 labs Low-DPB1	
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*07:01:01		31(8)	DRB3*03:01:01	25(5)	DQA1*02:01:01	28(5)	DQB1*02:02:01	23(6)	DPA1*01:03:01	38(6)	DPB1*11:01:01	42(10)
	DRB1*07:01:01G		8 (2)	DRB3*03:01:01G	10(2)	DQA1*02:01P	6 (1)	DQB1*02:01:01G	15(4)	DPA1*01:03:01G	6 (1)	DPB1*11:01:01G	12(3)
	DRB1*07:01P		11(3)	DRB3*03:01P	5 (1)	DQA1*02:01	66(12)	DQB1*02:01P	4 (1)	DPA1*01:03	56(9)	DPB1*11:01	46(11)
	DRB1*07:01		50(13)	DRB3*03:01	60(12)	DQA1*02	100(16)	DQB1*02:02	58(15)	DPA1*01	100(8)	DPB1*11	100(9)
	DRB1*07		95(19)	DRB3*03	79(11)			DQB1*02	100(19)				
	DRB1*03		5 (1)	DRB3*PRESENT	14(2)								
				DRB3*01	7 (1)								
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*11:08:02		46(12)	DRB4*01:03:01	25(5)	DRB4*01:03:01	33(6)			DPA1*02:01:01	38(6)	DPB1*104:01:01	42(10)
	DRB1*11:08		54(14)	DRB4*01:01:01G	15(3)	DQA1*03:01:01G	6 (1)			DPA1*02:01	62(10)	DPB1*03:01:01G	12(3)
	DRB1*11		100(20)	DRB4*01:03	60(12)	DQA1*03:03	61(11)			DPA1*02	100(8)	DPB1*104:01	46(11)
				DRB4*01	86(12)	DQA1*03	100(16)					DPB1*104	44(4)
				DRB4*PRESENT	14(2)							DPB1*03	56(5)
DNA Typing - class I			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	A*30:01:01:01		8 (2)	B*53:01:01:01	8 (2)	C*04:01:01	38(9)						
	A*30:01:01		29(7)	B*53:01:01	29(7)	C*04:01:01G	4 (1)						
	A*30:01P		8 (2)	B*53:01P	8 (2)	C*04:01P	4 (1)						
	A*30:01		54(13)	B*53:01	54(13)	C*04:01	54(13)						
	A*30		100(20)	B*53	100(20)	C*04	100(19)						
			%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	A*33:01:01:01		8 (2)	B*81:01:01:01	8 (2)	C*08:04:01	46(11)						
	A*33:01:01		29(7)	B*81:01:01	29(7)	C*08:04	54(13)						
	A*33:01P		8 (2)	B*81:01P	8 (2)	C*08	100(19)						
	A*33:01		54(13)	B*81:01	54(13)								
	A*33		100(20)	B*81	100(20)								

Table 3a: Individual laboratory results for B-cell #613 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
725	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)					SSO	
747	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*04	*06	SSP SSO NGS	
771	*03	*04			*03	*05	*02	*03					SSO NGS	
792	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01	*01	*04	*06	SSO NGS	
794	*03	*04	3*01	4*01	*03	*05	*02	*03	*01		*04	*06	SSP SSO NGS RT-PCR	
2400	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	NT	NT	*04(DP401)	*06	SSO NGS	
2847	*03	*04											SSO	
3519	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*04(DP401)	*06	SSP NGS RT-PCR	
3966													SSP SSO RT-PCR	
4079	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*04(DP401)	*06	SSO RT-PCR	
5130	*03	*04	3*01	4*01	*03	*05	*02	*03			*04	*06	SSO NGS	
5214	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*04(DP401)	*06	SSO	
5219	*03	*04			*03	*05	*02	*03					SSO NGS	
5462	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01			RT-PCR	
5488													SSO SBT NGS	
5642	*03(DR17)	*04	3*PRESENT	4*PRESENT			*02	*03(DQ8)					SSP SSO	
6649	*03	*04					*02	*03(DQ8)					SSO	
8029	*03	*04			*03	*05	*02	*03					SSO NGS	
8038	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01		*04(DP401)	*06	SSO SBT	
8043	*03	*04	3*01	4*01			*02	*03					SSP SSO NGS	
8058	*03	*04	3*PRESENT	4*PRESENT			*02	*03					SSP	
8068	*03	*04			*03	*05	*02	*03					SSO	
8123	*03(DR17)	*04	3*01	4*01	*03	*05	*02	*03(DQ8)	*01	*01	*04(DP401)	*06	RT-PCR	

Table 3b: Individual laboratory results for B-cell #613 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*04:01	*06:01	NGS	
747	*03:04:01	*04:04:01	3*01:01	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01	*01:03:01	*04:01	*06:01:01	SSP SSO NGS	DPB1*350:01 DQB1*03:416 DQB1*02:163N DQB1*03:289 DPB1*914:01
762	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*04:01	*06:01	NGS	
771	*03:04	*04:04					*02:01	*03:02			*04:01	*06:01	SSO NGS	
792	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*04:01	*06:01	SSO NGS	DPB1*350:01 DPB1*914:01
794	*03:04:01	*04:04:01	3*01:01	4*01:03	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*04:01	*06:01	SSP SSO NGS RT-PCR	
2344	*03:04:01	*04:04:01G					*02:01:01G	*03:02:01G			*04:01:01G	*06:01:01G		
2400	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	NT	NT	*04:01:01G	*06:01:01G	SSO NGS	DQB1*03:289 DQB1*03:416 DQB1*02:163N
3135	*03:04:01	*04:04:01G	3*01:01	4*01:03	*03:01	*05:01	*02:01P	*03:02P	*01:03		*04:01P	*06:01:01		
3511	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*04:01	*06:01	NGS	
3519	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*04:01P	*06:01	SSP NGS RT-PCR	DPB1*350:01 DPB1*914:01
3753	*03:04:01	*04:04:01	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01G	*03:02:01G	*01:03:01	*01:03:01	*04:01:01G	*06:01:01G	NGS	
3966	*03:04	*04:23	3*01:01	4*01:03			*02:01	*03:02					SSP SSO RT-PCR	DRB1*04:04
4251	*03:04	*04:04:01G	3*01:01:02G	4*01:01:01G	*03:01	*05:01	*02:01:01G	*03:02:01G	*01:03:01G	*01:03:01G	*04:01:01G	*06:01:01G	NGS	
4337	*03:04	*04:04					*02:01	*03:02			*04:01	*06:01	SSP SBT NGS	
5130	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*04:01:01G	*06:01:01G	SSO NGS	
5133	*03:04:01	*04:04:01	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*04:01:01	*06:01:01	NGS	DPB1*350:01 DPB1*914:01
5219	*03:04:01	*04:04:01					*02:01:01	*03:02:01			*04:01:01	*06:01:01	SSO NGS	
5451	*03:04:01	*04:04:01	3*01:01	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*04:01:01	*06:01:01	SBT NGS	
5488	*03:04:01	*04:04:01	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*04:01:01	*06:01:01	SSO SBT NGS	DPB1*350:01 DPB1*914:01
5642	*03:04	*04:04					*02:01	*03:02					SSP SSO	
8001	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*04:01	*06:01	NGS	DRB3*01:62 DPB1*939:01
8021	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*04:01	*06:01	SSO NGS	
8029	*03:04:01	*04:04:01G					*02:01:01G	*03:02:01G			*04:01:01G	*06:01:01G	SSO NGS	
8038	*03:04:01	*04:04P	3*01:01P	4*01:01:01G	NT	NT	*02:01:01G	*03:02P	NT	NT	*04:01:01G	*06:01:01	SSO SBT	DQB1*02:01:27 DQB1*03:02:09 DPB1*04:01:31 DPB1*1226:01 DPB1*350:01 DPB1*914:01
8043	*03:04	*04:04	3*01:01:01G	4*01:01:01G	*03:01	*05:01	*02:01	*03:02			*04:01	*06:01	SSP SSO NGS	

Table 3b: Individual laboratory results for B-cell #613 - Class II														
	High resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8122	*03:04	*04:04	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*04:01	*06:01	NGS	DRB3*01:62 DPB1*1226:01 DPB1*939:01 DPB1*350:01 DPB1*914:01

Table 4: Individual laboratory results for B-cell #613 - 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	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
725	*01	*31	*08	*40(B60)	*03(Cw10)	*07							SSO	
747	*01	*31	*08	*40	*03	*07	*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	SSP SSO NGS	
762							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
771	*01	*31	*08	*40	*03	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSO NGS	
792	*01	*31	*08	*40(B60)	*03(Cw10)	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSO NGS	
													SSP SSO NGS	
794	*01	*31	*08	*40	*03	*07	*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	RT-PCR	
2344							*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01		
2400	*01	*31	*08	*40(B60)	*03(Cw10)	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSO NGS	
2847	*01	*31	*08	*40	*03	*07							SSO	
3135							01:01P	*31:01P	*08:01P	*40:01P	*03:04P	*07:01P		
3511							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
													SSP NGS	
3519	*01	*31	*08	*40(B60)	*03(Cw10)	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	RT-PCR	
3753							*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	NGS	
													SSP SSO	
3966	*01	*31	*08	*40(B60)	*03(Cw10)	*07							RT-PCR	
4079	*01	*31	*08	*40(B60)	*03(Cw10)	*07							SSO RT-PCR	
4251							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
4337							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSP SBT NGS	
5130	*01	*31	*08	*40	*03	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSO NGS	
5133							*01:01:01:01	*31:01:02:01	*08:01:01	*40:01:02	*03:04:01:01	*07:01:01:01	NGS	
5214	*01	*31	*08	*40(B60)	*03(Cw10)	*07							SSO	
5219	*01	*31	*08	*40	*03	*07	*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	SSO NGS	
5451							*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	SBT NGS	
5462	*01	*31	*08	*40	*03	*07							RT-PCR	
							*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	SSO SBT NGS	
5488													SSP SSO	
5642	*01	*31	*08	*40(B60)	*03(Cw10)	*07							SSO	
6649	*01	*31	*08	*40(B60)									SSO	
8001							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
8021							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSO NGS	
8029	*01	*31	*08	*40	*03	*07	*01:01:01	*31:01:02	*08:01:01	*40:01:02	*03:04:01	*07:01:01	SSO NGS	
														B*40:450 B*40:506N C*07:848 C*07:877 C*03:04:82 B*08:207
8038	*01	*31	*08	*40(B60)	*03(Cw10)	*07	01:01:01G	*31:01:02G	*08:01P	*40:01P	*03:04:01G	*07:01:01G	SSO SBT	
8043	*01	*31	*08	*40	*03	*07	*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	SSP SSO NGS	
8058	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP	

Table 4: Individual laboratory results for B-cell #613 - Class I														
	Low resolution						High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
8068	*01	*31	*08	*40	*03	*07							SSO	
8122							*01:01	*31:01	*08:01	*40:01	*03:04	*07:01	NGS	
8123	*01	*31	*08	*40(B60)	*03(Cw10)	*07							RT-PCR	

Table 5a: Individual laboratory results for B-cell #614 - Class II

	Low resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
725	*07	*11	3*03	4*01	*02	*03	*02						SSO	
747	*07	*11	3*01	4*01	*02	*03	*02	*02	*01	*02	*11	*03	SSP SSO NGS	
771	*07	*11			*02	*03	*02						SSO NGS	
792	NT												SSO NGS	
													SSP SSO NGS	
794	*07	*11	3*03	4*01	*02	*03	*02		*01	*02	*11	*104	RT-PCR	
2400	*07	*11	3*03	4*01	*02	*03	*02		NT	NT	*11	*03	SSO NGS	
2847	*07	*11											SSO	
													SSP NGS	
3519	*07	*11	3*03	4*01	*02	*03	*02		*01	*02	*11	*104	RT-PCR	
													SSP SSO	
3966													RT-PCR	
4079	*07	*11	3*03	4*01	*02	*03	*02		*01	*02	*11	*104	SSO RT-PCR	
5130	*07	*11	3*03	4*01	*02	*03	*02	*02			*11	*03	SSO NGS	
5214	*07	*11	3*03	4*01	*02	*03	*02		*01	*02	*11	*03	SSO	
5219	*07	*11			*02	*03	*02	*02					SSO NGS	
5462	*07	*11	3*03	4*01	*02	*03	*02	*02	*01	*02			RT-PCR	
5488													SSO SBT NGS	
5642	*07	*11	3*PRESENT	4*PRESENT			*02						SSP SSO	
6649	*07	*11					*02	*02					SSO	
8029	*07	*11			*02	*03	*02	*02					SSO NGS	
8038	*07	*11	3*03	4*01	*02	*03	*02		*01	*02	*11	*03	SSO SBT	
8043	*07	*11	3*03	4*01	*02	*03	*02						SSP SSO NGS	
8058	*03	*11	3*PRESENT	4*PRESENT			*02	*02					SSP	
8068	*07	*11			*02	*03	*02	*02					SSO	
8123	*07	*11	3*03	4*01	*02	*03	*02	*02	*01	*02	*11	*104	RT-PCR	

Table 5b: Individual laboratory results for B-cell #614 - Class II

	High resolution													
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02	*02:02	*01:03	*02:01	*11:01	*104:01	NGS	
747	*07:01:01	*11:08:02	3*03:01:01	4*01:03:01	*02:01:01	*03:03:01	*02:02	*02:02:01	*01:03:01	*02:01:01	*11:01:01	*104:01:01	SSP SSO NGS	DQB1*02:156 DPB1*104:01
762	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	NGS	
771	*07:01	*11:08					*02:02	*02:02			*11:01	*104:01	SSO NGS	
792	NT												SSO NGS	
794	*07:01:01	*11:08:02	3*03:01	4*01:03	*02:01:01	*03:03:01	*02:02:01		*01:03:01	*02:01:01	*11:01:01	*104:01:01	SSP SSO NGS RT-PCR	
2344	*07:01:01	*11:08:02					*02:01:01G	*02:01:01G			*11:01:01G	*03:01:01G		
2400	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02	*02:02	NT	NT	*11:01:01G	*03:01:01G	SSO NGS	DQB1*02:156
3135	*07:01P	*11:08:02	3*03:01	4*01:03	*02:01	*03:01:01G	*02:01P		*01:03	*02:01	*11:01:01	*104:01:01		
3511	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	NGS	
3519	*07:01P	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	SSP NGS RT-PCR	
3753	*07:01:01	*11:08:02	3*03:01:01	4*01:03:01	*02:01:01	*03:03:01	*02:01:01G	*02:02:01	*01:03:01	*02:01:01	*11:01:01	*104:01:01	NGS	
3966	*07:01	*11:08	3*03:01	4*01:03			*02:02						SSP SSO RT-PCR	
4251	*07:01:01G	*11:08	3*03:01:01G	4*01:01:01G	*02:01	*03:03	*02:01:01G	*02:01:01G	*01:03:01G	*02:01	*11:01	*104:01	NGS	
4337	*07:01	*11:08:02					*02:02	*02:02			*11:01	*104:01	SSP SBT NGS	
5130	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02	*02:02			*11:01:01G	*03:01:01G	SSO NGS	DPB1*104:01
5133	*07:01:01	*11:08:02	3*03:01:01	4*01:03:01	*02:01:01	*03:03:01	*02:02:01		*01:03:01	*02:01:01	*11:01:01	*104:01:01	NGS	
5219	*07:01:01	*11:08:02					*02:02:01	*02:02:01			*11:01:01	*104:01:01	SSO NGS	
5451	*07:01:01	*11:08:02	3*03:01:01	4*01:03:01	*02:01P	*03:03:01	*02:02:01		*01:03:01	*02:01:01	*11:01:01	*104:01:01	SBT NGS	
5488	*07:01:01	*11:08:02	3*03:01:01	4*01:03:01	*02:01:01	*03:03:01	*02:02:01		*01:03:01	*02:01:01	*11:01:01	*104:01:01	SSO SBT NGS	
5642	*07:01	*11:08					*02:02						SSP SSO	
8001	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	NGS	
8021	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	SSO NGS	
8029	*07:01:01G	*11:08:02					*02:01:01G	*02:01:01G			*11:01:01	*104:01:01	SSO NGS	
8038	*07:01P	*11:08:02	3*03:01P	4*01:01:01G	NT	NT	*02:02:01		NT	NT	*11:01:01	*104:01:01	SSO SBT	DPB1*204:01 DPB1*203:01 DQB1*02:156
8043	*07:01	*11:08	3*03:01:01G	4*01:01:01G	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	SSP SSO NGS	
8122	*07:01	*11:08	3*03:01	4*01:03	*02:01	*03:03	*02:02		*01:03	*02:01	*11:01	*104:01	NGS	

Table 6: Individual laboratory results for B-cell #614 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
230							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
725	*30	*33	*53	*81	*04	*08							SSO	
747	*30	*33	*53	*81	*04	*08	*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	SSP SSO NGS	
762							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
771	*30	*33	*53	*81	*04	*08	*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSO NGS	
792	NT												SSO NGS	
													SSP SSO NGS	
794	*30	*33	*53	*81	*04	*08	*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	RT-PCR	
2344							*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01		
2400	*30	*33	*53	*81	*04	*08	*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSO NGS	
2847	*30	*33	*53	*81	*04	*08							SSO	
3135							*30:01P	*33:01P	*53:01P	*81:01P	*04:01:01G	*08:04:01		
3511							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
													SSP NGS	
3519	*30	*33	*53	*81	*04	*08	*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	RT-PCR	
3753							*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	NGS	
													SSP SSO	
3966	*30	*33	*53	*81	*04	*08							RT-PCR	
4079	*30	*33	*53	*81	*04	*08							SSO RT-PCR	
4251							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
4337							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSP SBT NGS	
5130	*30	*33	*53	*81	*04	*08	*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSO NGS	
5133							*30:01:01:01	*33:01:01:01	*53:01:01:01	*81:01:01:01	*04:01:01	*08:04:01	NGS	
5214	*30	*33	*53	*81	*04	*08							SSO	
5219	*30	*33	*53	*81	*04	*08	*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	SSO NGS	
5451							*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	SBT NGS	
5462	*30	*33	*53	*81	*04	*08							RT-PCR	
5488							*30:01:01	*33:01:01	*53:01:01	*81:01:01	*04:01:01	*08:04:01	SSO SBT NGS	
5642	*30	*33	*53	*81	*04	*08							SSP SSO	
6649	*30	*33	*53	*81									SSO	
8001							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
8021							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSO NGS	
8029	*30	*33	*53	*81	*04	*08	*30:01:01:01	*33:01:01:01	*53:01:01:01	*81:01:01:01	*04:01:01	*08:04:01	SSO NGS	
8038	*30	*33	*53	*81	*04	*08	*30:01P	*33:01P	*53:01P	*81:01P	*04:01P	*08:04:01	SSO SBT	C*04:01:110
8043	*30	*33	*53	*81	*04	*08	*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	SSP SSO NGS	C*04:423
8058	NT	NT	NT	NT	NT	NT							SSP	
8068	*30	*33	*53	*81	*04	*08							SSO	
8122							*30:01	*33:01	*53:01	*81:01	*04:01	*08:04	NGS	
8123	*30	*33	*53	*81	*04	*08							RT-PCR	