

# B-CELL LINE EXCHANGE #311

## MAY 8, 2024

B-cell Line	621- 622
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The results for B-cell Line Exchange #311 are summarized in Tables 1 - 2. Individual lab results reported for each sample are listed in Tables 3 - 6.

We would like to acknowledge and thank **Welsh Blood Service, Pontyclun** for generously donating the reference DRB1\*11:14:01 cell exam-

ined 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-621.** The following was the reported HLA type for this cell from an individual from the Warao Indian tribe in South America.

HLA-A		HLA-B		HLA-C	
*31:01		*15:01	*15:20	*01:02	*03:04

  

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

One likely association present in this cell was A\*31:01-B\*15:01-C\*01:02-DRB1\*08:02-DQB1\*04:02. This same association was observed in another Native American cell, SPACH, a reference cell for C\*01:02:30. The other association present was likely A\*31:01-B\*15:20-C\*03:04-DRB1\*08:02-DQB1\*04:02. DRB1\*08:02-DQB1\*04:02 is commonly observed in Hispanics, with HF = 0.05612.

This cell was OLG (OLL), a reference cell for B\*15\*01:01:01 and B\*15:20. It was examined in the workshops as IHW9071, as well as in the Exchange as Ter 569 (2019), Ter 346 (2004), Ter 175 (1996), and Extracts 551 (2012), 363 (2006), and 215 (2002). In this present retyping, B\*15:20 was assigned in complete consensus by labs reporting at high resolution. The second B-locus type, B\*15:01 (\*15:01:01), was also assigned by 100%. Among labs reporting at low resolution, more than half (55%) reported B\*15(B62). Greater than 80% agreement was achieved for all other allele assignments.

**Ter-622.** The following was the reported HLA type for this cell from a Caucasian donor.

HLA-A		HLA-B		HLA-C	
*01:01	*68:01	*07:02	*57:01	*06:02	*07:02

  

DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1
*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05

One likely association present in this cell was B\*07:02-C\*07:02-DRB1\*07:01-DQB1\*03:03, commonly observed in Caucasians, with HF = 0.00202. The other likely association present is B\*57:01-C\*06:02-DRB1\*11:14-DQB1\*03:01. The association of DRB1\*11:14-DQB1\*03:01 in this cell was also observed in DKMS-LSL\_ID16199421, a reference cell for DRB1\*11:14:01:01.

Ter 622 was also a reference cell for DRB1\*11:14:01:01. Known as 12762, it was previously examined as Ter 349 (2004) and Ter 289 (2001). In this present retyping, DRB1\*11:14 was assigned in complete consensus, with 9 labs assigning DRB1\*11:14:01. DRB1\*07:01 was also assigned by 100%, with 6 labs assigning DRB1\*07:01:01. Greater than 80% agreement was achieved for all loci, except DRB4 at low resolution; 8 labs reported DRB4\*01N, 3 labs reported DRB4\*01, 2 labs reported DRB4\*null, and 1 lab reported DRB4\*Present. As such, DRB4 was not graded at low resolution.

**NEXT MAILING DATE: July 31, 2024**

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

**Table 1: Summary of the 311<sup>th</sup> B-cell Line Exchange**

Ter-621													
<b>DNA Typing - class II</b>	<b>27 labs High; 21 labs low-DRB1</b>	<b>%(n)</b>			<b>20 labs High; 18 labs Low-DQA1</b>	<b>%(n)</b>	<b>27 labs High; 20 labs Low-DQB1</b>	<b>%(n)</b>	<b>18 labs High; 10 labs Low-DPA1</b>	<b>%(n)</b>	<b>26 labs High; 11 labs Low-DPB1</b>	<b>%(n)</b>	
	DRB1*08:02:01	30(8)			DQA1*04:01:01	25(5)	DQB1*04:02:01	22(6)	DPA1*01:03:01	28(5)	DPB1*03:01:01	15(4)	
	DRB1*08:02:01G	4 (1)			DQA1*04:01	75(15)	DQB1*04:02:01G	15(4)	DPA1*01:03:01G	5 (1)	DPB1*03:01:01G	27(7)	
	DRB1*08:02P	4 (1)			DQA1*04	100(18)	DQB1*04:02P	4 (1)	DPA1*01:03	67(12)	DPB1*03:01P	15(4)	
	DRB1*08:02	62(17)					DQB1*04:02	59(16)	DPA1*01	100(10)	DPB1*03:01	42(11)	
	DRB1*08	100(21)					DQB1*04	100(20)			DPB1*03	100(11)	
												<b>26 labs High; 11 labs Low-DPB1</b>	<b>%(n)</b>
												DPB1*04:02:01	12(3)
												DPB1*04:02:01G	27(7)
											DPB1*04:02P	19(5)	
											DPB1*04:02	42(11)	
											DPB1*04(DP402)	64(7)	
											DPB1*04	36(4)	
<b>DNA Typing - class I</b>	<b>25 labs High; 22 labs low- A</b>	<b>%(n)</b>	<b>24 labs High; 22 labs low- B</b>	<b>%(n)</b>	<b>25 labs High; 21 labs low- C</b>	<b>%(n)</b>							
	A*31:01:02:01	4 (1)	B*15:01:01:01	4 (1)	C*01:02:30:01	8 (2)							
	A*31:01:02	28(7)	B*15:01:01G	4 (1)	C*01:02:30	24(6)							
	A*31:01:02G	4 (1)	B*15:01:01	25(6)	C*01:02P	8 (2)							
	A*31:01P	4 (1)	B*15:01P	4 (1)	C*01:02	60(15)							
	A*31:01	60(15)	B*15:01	63(15)	C*01	100(21)							
	A*31	100(22)	B*15(B62)	55(12)									
			B*15	45(10)									
			<b>24 labs High - B</b>	<b>%(n)</b>	<b>25 labs High; 21 labs low- C</b>	<b>%(n)</b>							
			B*15:20	100(24)	C*03:04:01:02	4 (1)							
					C*03:04:01	28(7)							
					C*03:04:01G	4 (1)							
				C*03:04P	4 (1)								
				C*03:04	60(15)								
				C*03(Cw10)	52(11)								
				C*03	48(10)								

**Table 2: Summary of the 311<sup>th</sup> B-cell Line Exchange**

Ter-622

DNA Typing - class II		27 labs High; 21 labs low-DRB1		21 labs High; 15 labs Low-DRB3/4/5		20 labs High; 17 labs Low-DQA1		27 labs High; 20 labs Low-DQB1		18 labs High; 10 labs Low-DPA1		26 labs High; 11 labs Low-DPB1	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
DNA Typing - class II	DRB1*07:01:01	22(6)	DRB3*02:02:01	19(4)	DQA1*02:01:01	25(5)	DQB1*03:01:01	19(5)	DPA1*01:03:01	28(5)	DPB1*04:01:01	15(4)	
	DRB1*07:01:01G	11(3)	DRB3*02:02:01G	14(3)	DQA1*02:01	75(15)	DQB1*03:01:01G	15(4)	DPA1*01:03:01G	6 (1)	DPB1*04:01:01G	31(8)	
	DRB1*07:01P	11(3)	DRB3*02:02P	10(2)	DQA1*02	100(17)	DQB1*03:01P	7 (2)	DPA1*01:03	66(12)	DPB1*04:01P	12(3)	
	DRB1*07:01	56(15)	DRB3*02:02	57(12)			DQB1*03:01	59(16)	DPA1*01	100(10)	DPB1*04:01	42(11)	
	DRB1*07	100(21)	DRB3*PRESENT	7 (1)			DQB1*03(DQ7)	55(11)			DPB1*04(DP401)	64(7)	
			DR3*02	93(14)			DQB1*03	45(9)			DPB1*04	36(4)	
DNA Typing - class I	DRB1*11:14:01	33(9)	DRB4*01:03:01:02N	52(11)	DQA1*05:05:01	25(5)	DQB1*03:03:02	26(7)			DPB1*04:02:01	15(4)	
	DRB1*11:14:01G	5 (1)	DRB4*01:01:01G	10(2)	DQA1*05:01:01G	5 (1)	DQB1*03:03:02G	11(3)			DPB1*04:02:01G	27(7)	
	DRB1*11:14	62(17)	DRB4*01:03N	38(8)	DQA1*05:05	70(14)	DQB1*03:03P	4 (1)			DPB1*04:02P	15(4)	
	DRB1*11	100(21)	DRB4*01N	53(8)	DQA1*05	100(17)	DQB1*03:03	59(16)			DPB1*04:02	42(11)	
			DRB4*01	20(3)			DQB1*03(DQ9)	55(11)			DPB1*04(DP402)	64(7)	
			DRB4*NULL	13(2)			DQB1*03	45(9)			DPB1*04	36(4)	
			DRB4*PRESENT	7 (1)									
			NP	7 (1)									
DNA Typing - class I	A*01:01:01:01	4 (1)	B*07:02:01	32(8)	C*06:02:01:01	4 (1)							
	A*01:01:01	28(7)	B*07:02:01G	4 (1)	C*06:02:01	28(7)							
	A*01:01:01G	4 (1)	B*07:02P	4 (1)	C*06:02P	8 (2)							
	A*01:01P	4 (1)	B*07:02	60(15)	C*06:02	60(15)							
	A*01:01	60(15)	B*07	100(22)	C*06	100(21)							
	A*01	100(22)											
DNA Typing - class I	A*68:01:02:02	8 (2)	B*57:01:01:01	8 (2)	C*07:02:01:03	4 (1)							
	A*68:01:02	28(7)	B*57:01:01	24(6)	C*07:02:01	28(7)							
	A*68:01P	8 (2)	B*57:01P	8 (2)	C*07:02:01G	4 (1)							
	A*68:01	56(14)	B*57:01	60(15)	C*07:02P	4 (1)							
	A*68	100(22)	B*57	100(22)	C*07:02	60(15)							
					C*07	100(21)							

**Table 3a: Individual laboratory results for B-cell #621 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230													NGS	
725	*08				*04		*04						SSO	
747	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04	SSP SSO NGS	
771	*08				*04		*04						SSP NGS	
792	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04	SSO NGS	
793					*04				*01		*03	*04(DP402)	SSP	
794	*08		NP	NP	*04		*04		*01		*03	*04	SSP SSO NGS RT-PCR	
2400	*08		NP	NP	*04		*04		NT	NT	*03	*04(DP402)	SSO NGS	
2847	*08												SSO	
3519	*08				*04		*04		*01		*03	*04(DP402)	SSP NGS	
3753	*08	*08	NP	NP	*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO	
3966													SSP SSO RT-PCR	
5130	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04	SSO NGS RT-PCR	
5214	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO	
5219	*08	*08			*04	*04	*04	*04					SSO NGS	
5451	*08				*04		*04						SSO NGS	
5488													SSO NGS	
5642	*08		3*PRESENT				*04						SSP SSO	
6649	*08	*08					*04	*04					SSO	A*31
8029	*08	*08			*04	*04	*04	*04						
8038	*08		NP	NP	*04		*04		*01		*03	*04(DP402)	SSO SBT	
8043	*08				*04		*04						SSP SSO NGS	
8058	*08	*13	NP	NP	NT	NT	*04	NT	NT	NT	NT	NT		
8068	*08	*08			*04	*04	*04	*04					SSP SSO	
8123	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	RT-PCR	

**Table 3b: Individual laboratory results for B-cell #621 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5	DQA1		DQB1		DPA1		DPB1					
230	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	NGS	
747	*08:02:01	*08:02:01			*04:01:01	*04:01:01	*04:02:01	*04:02:01	*01:03:01	*01:03:01	*03:01:01	*04:02:01	SSP SSO NGS	DPB1*351:01 DPB1*463:01
762	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	DPB1*351:01 DPB1*463:01
771	*08:02						*04:02				*03:01	*04:02	SSP NGS	
792	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01:01G	*04:02:01G	SSO NGS	DPB1*351:01 DPB1*463:01
793											*03:01	*04:02	SSP	
794	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01	*04:02	SSP SSO NGS RT-PCR	DPB1*351:01 DPB1*463:01
2344	*08:02:01G	*08:02:01G					*04:02:01G	*04:02:01G			*03:01:01G	*04:02:01G		
2400	*08:02		NP	NP	*04:01		*04:02		NT	NT	*03:01:01G	*04:02:01G	SSO NGS	
3135	*08:02:01				*04:01		*04:02P		*01:03		*03:01P	*04:02P		
3224	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3511	*08:02		NP		*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3519	*08:02				*04:01		*04:02		*01:03		*03:01P	*04:02P	SSP NGS	DPB1*03:01 DPB1*351:01 DPB1*04:02 DPB1*463:01
3966	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02					SSP SSO RT-PCR	
4251	*08:02	*08:02			*04:01	*04:01	*04:02:01G	*04:02:01G	*01:03:01G	*01:03:01G	*03:01:01G	*04:02:01G	NGS	
4337	*08:02	*08:02					*04:02	*04:02			*03:01	*04:02	SSP SBT NGS	
5130	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01:01G	*04:02:01G	SSO NGS RT-PCR	
5133	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01:01	*04:02:01	NGS	DPB1*351:01 DPB1*463:01:01
5219	*08:02:01	*08:02:01					*04:02:01	*04:02:01			*03:01:01	*04:02:01	SSO NGS	
5451	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01P	*04:02P	SSO NGS	
5462	*08:02		NP	NP	*04:01		*04:02		*01:03		*03:01P	*04:02P	NGS	DPB1*351:01 DPB1*463:01
5488	*08:02:01		NP		*04:01:01		*04:02:01		*01:03:01		*03:01:01G	*04:02:01G	SSO NGS	DPB1*351:01 DPB1*463:01:01 DPB1*03:01:01 DPB1*04:02:01
5642	*08:02						*04:02						SSP SSO	
8001	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	DPB1*351:01 DPB1*463:01
8029	*08:02:01	*08:02:01					*04:02:01G	*04:02:01G			*03:01:01G	*04:02:01G		
8038	*08:02P		NP	NP	NT		*04:02:01G		NT		*03:01:01	*04:02P	SSO SBT	DPB1*351:01 DPB1*463:01:01
8043	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	SSP SSO NGS	
8122	*08:02		NP		*04:01		*04:02		*01:03		*03:01	*04:02	NGS	DPB1*351:01 DPB1*463:01 DPB1*1197:01

**Table 4: Individual laboratory results for B-cell #621 - Class I**

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	NGS	
725	*31		*15(B62)		*01	*03(Cw10)							SSO	
747	*31	*31	*15	*15	*01	*03	*31:01:02	*31:01:02	*15:01:01	*15:20	*01:02:30	*03:04:01	SSP SSO NGS	
762							*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
771	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP NGS	
792	*31	*31	*15(B62)	*15(B62)	*01	*03(Cw10)	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO NGS	
793	*31		*15(B62)	*15(B62)	*01	*03(Cw10)							SSP	
794	*31		*15		*01	*03	*31:01:02		*15:01:01	*15:20	*01:02:30	*03:04:01	SSP SSO NGS	
2344							*31:01:02	*31:01:02	*15:01:01	*15:20	*01:02:30	*03:04:01	RT-PCR	
2400	*31		*15(B62)	*15(B62)	*01	*03(Cw10)	*31:01		*15:01	*15:20	*01:02	*03:04	SSO NGS	
2847	*31		*15	*15	*01	*03							SSO	
3135							*31:01P		*15:01P	*15:20	*01:02P	*03:04P		
3224							*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
3511							*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
3519	*31		*15(B62)		*01	*03(Cw10)	*31:01		*15:01	*15:20	*01:02	*03:04	SSP NGS	
3753	*31	*31	*15(B62)	*15(B62)	*01	*03(Cw10)							SSO	
3966	*31	*31	*15(B62)	*15(B62)	*01	*03(Cw10)							SSP SSO	
4251							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	RT-PCR	
4337							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	NGS	
5130	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SBT NGS	
5133							*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01:02	RT-PCR	
5214	*31	*31	*15(B62)	*15(B62)	*01	*03(Cw10)							NGS	
5219	*31	*31	*15	*15	*01	*03	*31:01:02	*31:01:02	NT	NT	*01:02:30	*03:04:01	SSO	
5451	*31		*15		*01	*03	*31:01:02		*15:01:01	*15:20	*01:02:30	*03:04:01	SSO NGS	
5462							*31:01		*15:01	*15:20	*01:02	*03:04	SSO	
5488							*31:01:02		*15:01:01	*15:20	*01:02:30	*03:04:01	NGS	
5642	*31		*15(B62)		*01	*03(Cw10)							SSO NGS	
5649	*31	*31	*15(B62)	*15(B62)									SSP SSO	
8001													SSO	
8029	*31	*31	*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
8038	*31		*15	*15	*01	*03	*31:01:02	*31:01:02	*15:01:01	*15:20	*01:02:30:01	*03:04:01		
8043	*31		*15(B62)	*15(B62)	*01	*03(Cw10)	*31:01:02G		*15:01:01G	*15:20	*01:02P	*03:04:01G	SSO SBT	C*03:04:82
8058	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP SSO NGS	
8068	*31	*31	*15	*15	*01	*03								
8122							*31:01		*15:01	*15:20	*01:02	*03:04	SSP SSO	
8123	*31	*31	*15(B62)	*15(B62)	*01	*03(Cw10)							NGS	
													RT-PCR	

**Table 5a: Individual laboratory results for B-cell #622 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230													NGS	
725	*07	*11	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)					SSO	
747	*07	*11	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04	*04	SSP SSO	
771	*07	*11			*02	*05	*03	*03					NGS	
792	*07	*11	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01	*01	*04	*04	SSP NGS	
793	*07	*11	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01		*04(DP401)	*04(DP402)	SSO NGS	
794	*07	*11	3*02	4*01	*02	*05	*03		*01		*04		SSP	
2400	*07	*11	3*02	NP	*02	*05	*03(DQ7)	*03(DQ9)	NT	NT	*04(DP401)	*04(DP402)	SSP SSO	
2847	*07	*11											NGS RT-PCR	
3519	*07	*11	3*02	4*01	*02	*05	*03(DQ7)	*03(DQ9)	*01		*04(DP401)	*04(DP402)	SSO NGS	
3753	*07	*11	3*02	4*NULL	*02	*05	*03(DQ7)	*03(DQ9)	*01	*01	*04(DP401)	*04(DP402)	SSO	
3966													SSP SSO	
													RT-PCR	
5130	*07	*11	3*02	4*01N	*02	*05	*03	*03	*01	*01	*04	*04	SSO NGS	
5214	*07	*11	3*02	4*NULL	*02	*05	*03(DQ7)	*03(DQ9)	*01	*01	*04(DP401)	*04(DP402)	RT-PCR	
5219	*07	*11			*02	*05	*03	*03					SSO	
5451	*07	*11	3*02	4*01N	*02	*05	*03						SSO NGS	
5488													SSO NGS	
5642	*07	*11	3*PRESENT	4*PRESENT			*03(DQ7)	*03(DQ9)					SSO	
6649	*07	*11					*03(DQ7)	*03(DQ9)					SSP SSO	
8029	*07	*11			*02	*05	*03	*03					SSO	
8038	*07	*11	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01		*04(DP401)	*04(DP402)	SSO NGS	
8043	*07	*11	3*02	4*01			*03	*03					SSO SBT	
8058													SSP SSO	
8068	*07	*11			*02	*05	*03	*03					NGS	
8123	*07	*11	3*02	4*01N	*02	*05	*03(DQ7)	*03(DQ9)	*01	*01	*04(DP401)	*04(DP402)	SSP SSO	
													RT-PCR	

**Table 5b: Individual laboratory results for B-cell #622 - Class II**

High resolution														
Center	DRB1	DRB3/4/5	DQA1	DQB1	DPA1	DPB1	METHOD	Other Alleles						
230	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01	*04:02	NGS	
747	*07:01:01	*11:14:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01	*01:03:01	*04:01:01	*04:02:01	SSP SSO NGS	DPB1*126:01 DPB1*105:01
762	*07:01	*11:14	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*04:02	NGS	DPB1*126:01 DPB1*105:01
771	*07:01	*11:14					*03:01	*03:03			*04:01	*04:02	SSP NGS	
792	*07:01	*11:14	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01:01G	*04:02:01G	SSO NGS	DPB1*126:01 DPB1*105:01 DPB1*665:01
793											*04:01	*04:02	SSP	
794	*07:01:01	*11:14:01	3*02:02	4*01:03N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01		*04:01:01	*04:02:01	SSP SSO NGS RT-PCR	
2344	*07:01:01G	*11:14:01G					*03:01:01G	*03:03:02G			*04:01:01G	*04:02:01G		
2400	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	NT	NT	*04:01:01G	*04:02:01G	SSO NGS	DQB1*03:276N DQB1*03:297 DQB1*03:419
3135	*07:01P	*11:14:01	3*02:02:01G	4*01:01:01G	*02:01	*05:01:01G	*03:01P	*03:03P	*01:03		*04:01P	*04:02P		
3224	*07:01	*11:14	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*04:02	NGS	
3511	*07:01	*11:14	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*04:02	NGS	
3519	*07:01P	*11:14	3*02:02P	4*01:03N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01	*04:02	SSP NGS	DRB1*07:01 DRB3*02:02 DPB1*105:01 DPB1*126:01
3966	*07:01	*11:14	3*02:02	4*01:03N	*02:01	*05:05	*03:01	*03:03					SSP SSO RT-PCR	DQA1*05:09
4251	*07:01:01G	*11:14	3*02:02:01G	4*01:03N	*02:01	*05:05	*03:01:01G	*03:03:02G	*01:03:01G	*01:03:01G	*04:01:01G	*04:02:01G	NGS	
4337	*07:01	*11:14					*03:01	*03:03			*04:01	*04:02	SSP SBT NGS	
5130	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03	*01:03	*04:01:01G	*04:02:01G	SSO NGS RT-PCR	
5133	*07:01:01	*11:14:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01		*04:01:01	*04:02:01	NGS	DPB1*126:01:01 DPB1*105:01:01
5219	*07:01:01	*11:14:01					*03:01:01	*03:03:02			*04:01:01	*04:02:01	SSO NGS	
5451	*07:01:01	*11:14:01	3*02:02P	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01P	*03:03:02	*01:03:01		*04:01P	*04:02P	SSO NGS	
5462	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03		*04:01P	*04:02P	NGS	DPB1*126:01 DPB1*105:01
5488	*07:01:01	*11:14:01	3*02:02:01	4*01:03:01:02N	*02:01:01	*05:05:01	*03:01:01	*03:03:02	*01:03:01		*04:01:01G	*04:02:01G	SSO NGS	DPB1*04:01:01 DPB1*126:01:01 DPB1*04:02:01 DPB1*105:01:01
5642	*07:01	*11:14					*03:01	*03:03					SSP SSO	



**Table 5b: Individual laboratory results for B-cell #622 - Class II**

High resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
8001	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03			*04:01	*04:02	NGS	DQB1*03:454 DPB1*939:01 DPB1*105:01 DPB1*126:01 DPB1*665:01
8029	*07:01:01G	*11:14:01					*03:01:01G	*03:03:02				*04:01:01G	*04:02:01G		
8038	*07:01P	*11:14:01	3*02:02:01G	4*01:03:01:02N	NT	NT	*03:01:01G	*03:03:02G	NT			*04:01:01G	*04:02P	SSO SBT	DPB1*1226:01 DPB1*105:01:01 DPB1*126:01:01 DPB1*1072:01 DPB1*665:01:01 DPB1*190:01 DPB1*642:01 DPB1*23:01:01 DPB1*736:01 DPB1*51:01:01 DPB1*138:01 DPB1*985:01N DPB1*04:02:09 DPB1*105:01:02
8043	*07:01	*11:14	3*02:02:01	4*01:01:01G	*02:01	*05:05	*03:01	*03:03	*01:03			*04:01	*04:02	SSP SSO NGS	
8122	*07:01	*11:14	3*02:02	4*01:03:01:02N	*02:01	*05:05	*03:01	*03:03	*01:03			*04:01	*04:02	NGS	DPB1*939:01 DPB1*1226:01 DPB1*1197:01 DPB1*126:01 DPB1*105:01 DPB1*665:01 DPB1*1072:01 DQB1*03:454

**Table 6: Individual laboratory results for B-cell #622 - Class I**

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
725	*01	*68	*07	*57	*06	*07							SSO	
747	*01	*68	*07	*57	*06	*07	*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01	SSP SSO NGS	
762							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
771	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSP NGS	
792	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSO NGS	
793	*01	*68	*07	*57	*06	*07							SSP	
794	*01	*68	*07	*57	*06	*07	*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01		
2400	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSO NGS	
2847	*01	*68	*07	*57	*06	*07							SSO	
3135							*01:01P	*68:01P	*07:02P	*57:01P	*06:02P	*07:02P		
3224							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
3511							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
3519	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSP NGS	
3753	*01	*68	*07	*57	*06	*07							SSO	
3966	*01	*68	*07	*57	*06	*07							SSP SSO RT-PCR	
4251							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
4337							*01:01	*68:01:02	*07:02	*57:01	*06:02	*07:02	SSP SBT NGS	
5130	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSO NGS RT-PCR	
5133							*01:01:01:01	*68:01:02:02	*07:02:01	*57:01:01:01	*06:02:01:01	*07:02:01:03	NGS	
5214	*01	*68	*07	*57	*06	*07							SSO	
5219	*01	*68	*07	*57	*06	*07	*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01	SSO NGS	
5451	*01	*68	*07	*57	*06	*07	*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01	SSO NGS	
5462							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
5488							*01:01:01	*68:01:02	*07:02:01	*57:01:01	*06:02:01	*07:02:01	SSO NGS	
5642	*01	*68	*07	*57	*06	*07							SSP SSO	
6649	*01	*68	*07	*57									SSO	
8001							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
8029	*01	*68	*07	*57	*06	*07	*01:01:01	*68:01:02:02	*07:02:01	*57:01:01:01	*06:02:01	*07:02:01		
8038	*01	*68	*07	*57	*06	*07	*01:01:01G	*68:01P	*07:02:01G	*57:01P	*06:02P	*07:02:01G	SSO SBT	A*68:152 C*07:853 C*06:297 C*06:220N C*06:338N C*07:754N
8043	*01	*68	*07	*57	*06	*07	*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	SSP SSO NGS	
8058														
8068	*01	*68	*07	*57	*06	*07							SSP SSO	
8122							*01:01	*68:01	*07:02	*57:01	*06:02	*07:02	NGS	
8123	*01	*68	*07	*57	*06	*07							RT-PCR	