

# B-CELL LINE EXCHANGE #284

## NOVEMBER 26, 2019

B-cell Lines 567-568

The results for B-cell Line Exchange #284 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. The reference cells examined in this study were generously donated by Oxford Transplant Centre, Churchill Hospital, Oxford, and Welsh Blood

Service, Pontyclun. 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-567.** The consensus type for this cell from an Asian Indian donor was DRB1\*15:02-DRB5\*01:02-DQA1\*01:03-DQB1\*06:01-DPA1\*01:03-DPA1\*02:01-DPB1\*04:02-DPB1\*26:01/A\*24:33-A\*68:01-B\*07:02-B\*51:06-C\*07:02-C\*12:04. Exchange data combined with family analysis results published by Vilches (1) reveal the haplotypes in this cell to be A\*24:33-B\*51:06-C\*12:04-DRB1\*15:02-DRB5\*01:02-DQA1\*01:03-DQB1\*06:01 and A\*68:01-B\*07:02-C\*07:02-DRB1\*15:02-DRB5\*01:02-DQA1\*01:03-DQB1\*06:01.

This cell was NDS-JD, the reference cell for C\*12:04:02:01. It was previously examined for class I as extracts 266 (2003), 218 (2002), 177 (2001), and 86 (1999) and for class II as Ter 242 (1999).

In this present retyping, the assignment of A\*24:33 improved, as 100% (23/23) of labs assigned A\*24:33 compared to only 7 labs assigning A\*24:33 in 2003. A\*68:01, B\*07:02, B\*51:06, C\*07:02, and C\*12:04 were all also well assigned (100%), with 8 labs reporting A\*68:01:02, B\*07:02:01, B\*51:06:01, C\*07:02:01, and C\*12:04:02.

Good agreement was also achieved among labs for class II assignments, as 100% of labs reported this cell as homozygous for DRB1\*15:02, DRB5\*01:02, DQA1\*01:03, and DQB1\*06:01. DRB1\*15:02:01 for assigned 10 labs, DQA1\*01:03:01 was assigned by 6 labs, and DQB1\*06:01:01 was assigned by 8 labs.

### References:

1. Vilches C, Bunce M, van Dam M, and de Pablo, R. A new pair of HLA-C alleles, Cw\*12042 and Cw\*1203, differing at the KIR-related dimorphism of codons 77 77 - 80. Tissue Antigens 1998; 51:101-105.

**Ter-568.** The consensus type for this cell from a Caucasian donor was DRB1\*07:01-DRB1\*15:07-DRB4\*01:03:01N-DRB5\*01:01-DQA1\*01:02-DQA1\*02:01-DQB1\*03:03-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01/A\*03:01-A\*26:01-B\*27:05-B\*57:01-C\*06:02-C\*07:04. One likely association present in this cell was A\*03:01-B\*57:01-DRB1\*07:01-DQB1\*03:03, observed in Caucasians, with HF = 0.00130. The other likely association present was A\*26:01-B\*27:05-DRB1\*15:07-DQB1\*06:02.

This cell was UBM12218693, the reference cell for DRB1\*15:07:01. It was previously examined for class II as Ter 451 (2011), Ter 371 (2006), and Ter 291 (2002). We would like to acknowledge Rao for correctly identifying this cell as being the same cell as Ter 451.

In this present retyping, A\*03:01, A\*26:01 B\*27:05 B\*57:01, C\*06:02, and C\*07:04 were each reported by 100%. A\*03:01:01, A\*26:01:01, B\*27:05:02, B\*57:01:01, C\*06:02:01, and C\*07:04:01 were each assigned by 8 labs.

Good agreement was also achieved for class II assignments. DRB1\*07:01 and DRB1\*15:07 were each reported by 100%, with 10 labs reporting DRB1\*07:01:01 and 11 labs reporting DRB1\*15:07:01. DQB1\*03:03 (100%) and DQB1\*06:02 (100%) were the reported DQB1 types, with DQB1\*03:03:02 and DQB1\*06:02:01 each assigned by 8 labs.

**NEXT MAILING DATE: February 5, 2020**

*Happy Holidays!*

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Table 2: Summary of the 284<sup>th</sup> B-cell Line Exchange

Ter-568

Ter-568												
DNA Typing - class II	<u>33 labs High; 28 labs low-DRB1</u>	%(n)	<u>22 labs High; 18 labs Low-DRB3/4/5</u>	%(n)	<u>23 labs High; 24 labs Low-DQA1</u>	%(n)	<u>32 Labs High; 26 labs Low-DQB1</u>	%(n)	<u>17 labs High; 13 labs Low-DPA1</u>	%(n)	<u>29 labs High; 18 labs Low-DPB1</u>	%(n)
	DRB1*07:01:01:02	3 (1)	DRB4*01:03:01:02N	54(12)	DQA1*01:02:01	22(5)	DQB1*03:03:02:01	9 (3)	DPA1*01:03:01:02	18(3)	DPB1*04:01:01:01	3 (1)
	DRB1*07:01:01	27(9)	DRB4*01:03:01N	14(3)	DQA1*01:02	78(18)	DQB1*03:03:02	16(5)	DPA1*01:03:01	18(3)	DPB1*04:01:01:02	3 (1)
	DRB1*07:01:01G	3 (1)	DRB4*01:03N	32(7)	DQA1*01	100(24)	DQB1*03:03P	3 (1)	DPA1*01:03P	6 (1)	DPB1*04:01:01	24(7)
	DRB1*07:01P	3 (1)	DRB4*01N	61(11)			DQB1*03:03	72(23)	DPA1*01:03	58(10)	DPB1*04:01:01G	3 (1)
	DRB1*07:01	64(21)	DRB4*01	22(4)			DQB1*03(DQ6)	4 (1)	DPA1*01	100(13)	DPB1*04:01	66(19)
	DRB1*07	100(28)	DRB4*NULL	11(2)			DQB1*03	91(25)			DPB1*04(DP401)	39(7)
			DRB4*PRESENT	6 (1)							DPB1*04	61(11)
DNA Typing - class I	<u>23 labs High; 22 labs low- A</u>	%(n)	<u>23 labs High; 23 labs low- A</u>	%(n)	<u>23 labs High; 22 labs low- C</u>	%(n)	<u>31 Labs High; 27 labs Low-DQB1</u>	%(n)	<u>17 labs High; 13 labs Low-DPA1</u>	%(n)		
	A*03:01:01:01	13(3)	B*27:05:02	35(8)	C*06:02:01:01	13(3)	DQB1*06:02:01:01	10(3)	DPA1*01:03:01:04	18(3)		
	A*03:01:01	22(5)	B*27:05P	4 (1)	C*06:02:01	22(5)	DQB1*06:02:01	16(5)	DPA1*01:03:01	18(3)		
	A*03:01P	4 (1)	B*27:05	61(14)	C*06:02P	4 (1)	DQB1*06:02P	3 (1)	DPA1*01:03P	6 (1)		
	A*03:01	61(14)	B*27	100(23)	C*06:02	61(14)	DQB1*06:02	71(22)	DPA1*01:03	58(10)		
	A*03	100(22)			C*06	100(22)	DQB1*06	100(27)	DPA1*01	100(13)		
DNA Typing - class I	<u>23 labs High; 22 labs low- A</u>	%(n)	<u>23 labs High; 23 labs low- A</u>	%(n)	<u>23 labs High; 22 labs low- C</u>	%(n)						
	A*26:01:01:01	13(3)	B*57:01:01:01	13(3)	C*07:04:01:01	4 (1)						
	A*26:01:01	22(5)	B*57:01:01	22(5)	C*07:04:01	30(7)						
	A*26:01P	4 (1)	B*57:01P	4 (1)	C*07:04P	4 (1)						
	A*26:01	61(14)	B*57:01	61(14)	C*07:04	61(14)						
	A*26	100(22)	B*57	100(23)	C*07	100(22)						

**Table 3a: Individual laboratory results for B-cell #567 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*15	*15	5*01	5*01	*01	*01	*06	*06	*01	*02	*04	*26	SSP SSO	
725	*15		5*PRESENT		*01		*06						SSP SSO	
731	*15	*15			*01	*01	*06	*06	*01	*02	*04	*26	SSP SSO SBT	
735	*15	*15	5*01	5*01	*01	*01	*06	*06	*01	*02	*04(DP402)	*26	SSP SSO SBT	
747	*15		5*PRESENT		*01		*06		*01	*02	*04	*26	SSP SSO NGS	
771	*15				*01		*06						SSP SSO	
774	*15		5*01		*01		*06				*04(DP402)	*26	SSP SSO	
792	*15	*15	5*01	5*01	*01	*01	*06	*06	*01	*02	*04	*26	SSO SBT	
793	*15		5*PRESENT		*01		*06				*04(DP402)	*26	SSP	
794	*15		5*01		*01		*06		*01	*02	*04	*26	SSP SSO NGS	
2400	*15		5*01	NP	*01		*06		NT	NT	*04	*26	RT-PCR	
2847	*15												SSO	
3519	*15				*01		*06		*01	*02	*04(DP402)	*26	SSP NGS RT-PCR	
3632	*15		5*01		*01		*06		*01	*02	*04	*26	SSP SSO	
4079	*15		5*01		*01		*06		*01	*02	*04	*26	SSP SSO NGS	
4251	*15	*15	5*01	5*01	*01	*01	*06	*06	*01	*02	*04(DP402)	*26	SSO NGS	
4492	*15		5*PRESENT		*01		*06		*01	*02	*04(DP402)	*26	SSP SSO NGS	
5130	*15	*15	5*01		*01	*01	*06	*06			*04	*26	SSO NGS	
5214	*15		5*01		*01		*06		*01	*02	*04(DP402)	*26	SSO	
5219	*15	*15					*06	*06			*04	*26	SSO NGS	
5451	*15		5*01		*01		*06						SSO SBT	
5462	*15		5*01		*01		*06		*01	*02	*04(DP402)	*26	SSO	
5642	*15	*15	5*PRESENT				*06	*06					SSP	
6649	*15												SSO	
8001	*15		5*01		*01		*06							
8029	*15	*15			*01	*01	*06	*06					SSO	
8043	*15				*01		*06						SSP SSO	
8068	*15	*15			*01	*01	*06	*06					SSO	

**Table 3b: Individual laboratory results for B-cell #567 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5	DQA1		DQB1		DPA1		DPB1					
230	*15:02	*15:02					*06:01	*06:01			*04:02	*26:01	SSO SBT NGS	
278	*15:02	*15:02	5*01:02	5*01:02	*01:03	*01:03	*06:01	*06:01	*01:03	*02:01	*04:02	*26:01	SSP SSO	
731	*15:02:01						*06:01						SSP SSO SBT	
735	*15:02:01G	*15:02:01G	5*01:02:01G	5*01:02:01G	*01:03	*01:03	*06:01P	*06:01P	*01:03P	*02:01	*04:02	*26:01	SSP SSO SBT	
747	*15:02:01:01		5*01:02		*01:03:01:01		*06:01:01		*01:03:01:01	*02:01:01	*04:02:01	*26:01:02	SSP SSO NGS	DRB1*15:140 DRB1*15:149 DQB1*06:01:15
762	*15:02:01:01		5*01:02		*01:03:01:01		*06:01:01		*01:03:01:01	*02:01:01	*04:02:01	*26:01:02	NGS	
771	*15:02						*06:01						SSP SSO	
774	*15:02		5*01:02		*01:03		*06:01				*04:02	*26:01	SSP SSO	
792	*15:02	*15:02					*06:01	*06:01			*04:02	*26:01	SSO SBT	
793					*01:03						*04:02	*26:01	SSP	
794	*15:02:01		5*01:02		*01:03		*06:01:01		NT	NT	*04:02:01	*26:01:02	SSP SSO NGS RT-PCR	
2344	*15:02:01	*15:02:01					*06:01:01	*06:01:01			*04:02:01	*26:01:02	OTHER	
2400	*15:02		5*01:02	NP	*01:03		*06:01				*04:02	*26:01	SSO NGS	
3135	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01		
3224	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01	NGS	
3511	*15:02	*15:02	5*01:02	5*01:02	*01:03	*01:03	*06:01	*06:01	*01:03	*02:01	*04:02	*26:01	SSP SSO	
3519	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01	SSP NGS RT-PCR	DRB1*15:140 DRB1*15:149
3632	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01	SSP SSO	
3753	*15:02:01G	*15:02:01G	5*01:02	5*01:02	*01:03:01	*01:03:01	*06:01	*06:01:01	*01:03:01	*02:01:01	*04:02:01	*26:01:02	NGS	
3966	*15:02		5*01:02				*06:01						SSP	
4079	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01	SSP SSO NGS	
4251	*15:02	*15:02	5*01:02	5*01:02	*01:03	*01:03	*06:01	*06:01	*01:03	*02:01:01G	*04:02	*26:01	SSO NGS	
4337	*15:02	*15:02					*06:01	*06:01			*04:02	*26:01	SSP SBT NGS	
4492	*15:02:01	*15:02:01	5*01:02	5*01:02	*01:03:01:01	*01:03:01:01	*06:01:01	*06:01:01	*01:03:01	*02:01:01	*04:02:01	*26:01:02	SSP SSO NGS	DQB1*06:309 DQB1*06:01:15 DQB1*06:307 DQB1*06:309 DPA1*01:03:08 DQB1*06:285 DQB1*06:01:15 DQB1*06:285 DQB1*06:307
5130	*15:02	*15:02	5*01:02		*01:03	*01:03	*06:01	*06:01			*04:02	*26:01	SSO NGS	
5133	*15:02:01		5*01:02		*01:03:01:01		*06:01:01		*01:03:01	*02:01:01	*04:02:01	*26:01:02	NGS	DPA1*01:03:08 DPA1*02:08 DRB1*15:140 DRB1*15:149 DQB1*06:285 DQB1*06:307 DQB1*06:309 DQB1*06:01:15
5219	*15:02:01	*15:02:01					*06:01:01	*06:01:01			*04:02:01	*26:01:02	SSO NGS	

**Table 3b: Individual laboratory results for B-cell #567 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	*15:02:01												SSO SBT	
														DPB1*726:01 DPB1*730:01 DPB1*731:01 DPB1*734:01 DPB1*735:01 DPB1*759:01 DPB1*776:01 DPB1*777:01N DPB1*809:01 DPB1*818:01 DPB1*933:01 DPB1*958:01 DPB1*981:01 DPB1*985:01N DPB1*995:01N DPB1*1005:01 DPB1*647:01 DPB1*674:01 DPB1*701:01 DPB1*724:01N DPB1*725:01 DPB1*823:01 DPB1*858:01+
5462	NT		NT		NT		NT		NT	NT	*04:02	*26:01	SSO	
5488	*15:02:01		5*01:02		*01:03:01		*06:01:01		*01:03:01	*02:01:01	*04:02:01	*26:01:02	SSO SBT NGS	DRB1*15:140
5642	*15:02	*15:02					*06:01	*06:01					SSP	DRB1*15:149
8001	*15:02		5*01:02				*06:01				*04:02	*26:01		
8021	*15:02		5*01:02		*01:03		*06:01		*01:03	*02:01	*04:02	*26:01	SSO NGS	
8043	*15:02				*01:03		*06:01						SSP SSO	
8086	*15:02	*15:02			*01:03	*01:03	*06:01	*06:01	*01:03	*02:01	*04:02	*26:01	SSO SBT	

**Table 4: Individual laboratory results for B-cell #567 - Class I**

Table 4: Individual laboratory results for B-cell #567 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO SBT NGS	
278	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSP SSO	
725	*24	*68	*07	*51	*07	*12							SSP SSO	
731	*24	*68	*07	*51	*07	*12							SSP SSO SBT	
735	*24	*68	*07	*51	*07	*12	*24:33	*68:01P	*07:02P	*51:06	*07:02	*12:04	SSP SSO SBT	
747	*24	*68	*07	*51	*07	*12	*24:33	*68:01:02:01	*07:02:01:01	*51:06:01	*07:02:01:03	*12:04:02	SSP SSO NGS	
774	*24	*68	*07	*51	*07	*12				*51:06			SSP SSO	
792	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO SBT	
793	*24	*68	*07	*51	*07	*12							SSP	
794	*24	*68	*07	*51	*07	*12	*24:33	*68:01:02	*07:02:01	*51:06:01	*07:02:01	*12:04:02	SSP SSO NGS	
2344							*24:33	*68:01:02	*07:02:01	*51:06:01	*07:02:01	*12:04:02	RT-PCR	
2400	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	OTHER	
2847	*24	*68	*07	*51	*07	*12							SSO NGS	
3135							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO	
3224							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	NGS	
3511							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSP SSO	
3519	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSP NGS RT-PCR	
3753							*24:33	*68:01:02	*07:02:01	*51:06:01	*07:02:01	*12:04:02	NGS	
3966	*24	*68	*07	*51	*07	*12							SSP	
4079	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSP SSO NGS	
4251	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO NGS	
4337							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSP SBT NGS	
4492	*24	*68	*07	*51	*07	*12	*24:33	*68:01:02:01	*07:02:01	*51:06:01	*07:02:01	*12:04:02	SSP SSO NGS	
5130	*24	*68	*07	*51	*07	*12	*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO NGS	
5133							*24:33	*68:01:02:01	*07:02:01	*51:06:01	*07:02:01	*12:04:02	NGS	
5214	*24	*68	*07	*51	*07	*12							SSO	
5219	*24	*68	*07	*51	*07	*12	*24:33	*68:01:02	*07:02:01	*51:06:01	*07:02:01	*12:04:02	SSO NGS	
5451													SSO SBT	
5462	*24	*68	*07	*51	*07	*12	NT	NT	NT	NT	NT	NT	SSO	
5488							*24:33	*68:01:02	*07:02:01	*51:06:01	*07:02:01	*12:04:02	SSO SBT NGS	A*68:152
8021							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO NGS	
8029	*24	*68	*07	*51	*07	*12							SSO	
8042			*07	*51									SSO	
8068	*24	*68	*07	*51	*07	*12							SSO	
8086							*24:33	*68:01	*07:02	*51:06	*07:02	*12:04	SSO SBT	

**Table 5a: Individual laboratory results for B-cell #568 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01	*01	*04	*04	SSP SSO	
725	*07	*15	4*NULL	5*PRESENT	*01	*02	*03	*06					SSP SSO	
731	*07	*15			*01	*02	*03	*06	*01	*01	*04		SSP SSO SBT	
735	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
747	*07	*15	4*01	5*01	*01	*02	*03	*06	*01	*01	*04		SSP SSO NGS	
771	*07	*15			*01	*02	*03	*06					SSP SSO	
774	*07	*15	4*01	5*01	*01	*02	*03	*06			*04(DP401)		SSP SSO	
792	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01	*01	*04	*04	SSO SBT	
793	*07	*15		5*PRESENT	*01	*02	*03	*06			*04(DP401)		SSP	
794	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01		*04		SSP SSO NGS	
2400	*07	*15	4*01N	5*01	*01	*02	*03	*06	NT	NT	*04		RT-PCR	
2847	*07	*15											SSO NGS	
3519	*07	*15			*01	*02	*03	*06	*01		*04		SSO	
3632	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01		*04		SSP NGS RT-PCR	
3966													SSP SSO	
4079	*07	*15	4*01	5*01	*01	*02	*03	*06	*01		*04		SSP	
4251	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO NGS	
4492	*07	*15	4*NULL	5*PRESENT	*01	*02	*03	*06	*01		*04(DP401)		SSO NGS	
5130	*07	*15	4*01	5*01	*01	*02	*03	*06			*04	*04	SSP SSO NGS	
5214	*07	*15	4*01N	5*01	*01	*02	*03(DQ9)	*06	*01		*04(DP401)		SSO	
5219	*07	*15					*03	*06			*04	*04	SSO NGS	
5451	*07	*15	4*01N	5*01	*01	*02	*03	*06					SSO SBT	
5462	*07	*15	4*01N	5*01	*01	*02	*03	*06	*01		*04(DP401)		SSO	
5488								*06					SSO SBT NGS	
5642	*07	*15	4*PRESENT	5*PRESENT			*03	*06					SSP	
6649	*07	*15											SSO	
8001	*07	*15	4*01N	5*01	*01	*02	*03	*06						
8029	*07	*15			*01	*02	*03	*06					SSO	
8043	*07	*15			*01	*02	*03	*06					SSP SSO	
8068	*07	*15			*01	*01	*03	*06					SSO	



**Table 5b: Individual laboratory results for B-cell #568 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
230	*07:01	*15:07					*03:03	*06:02			*04:01	*04:01	SSO SBT NGS	
278	*07:01	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03	*01:03	*04:01	*04:01	SSP SSO	
731	*07:01	*15:07:01					*03:03	*06:02					SSP SSO SBT	DPB1*215:01
735	*07:01P	*15:07	4*01:03N	5*01:01P	*01:02	*02:01	*03:03P	*06:02P	*01:03P	*01:03P	*04:01	*04:01	SSP SSO SBT	
747	*07:01:01	*15:07:01	4*01:03:01:02N	5*01:01:01	*01:02:01	*02:01:01	*03:03:02:01	*06:02:01:01	*01:03:01:02	*01:03:01:04	*04:01:01:02		SSP SSO NGS	DPB1*04:01:01:01
762	*07:01:01:02	*15:07:01	4*01:03:01:02N	5*01:01:01	*01:02:01	*02:01:01	*03:03:02:01	*06:02:01:01	*01:03:01:02	*01:03:01:04	*04:01:01:01		NGS	
771	*07:01	*15:07					*03:03	*06:02					SSP SSO	
774	*07:01	*15:07	4*01:03:01:02N	5*01:01	*01:02	*02:01	*03:03	*06:02			*04:01		SSP SSO	DRB1*07:31 DRB1*07:33 DRB5*01:16
792	*07:01	*15:07					*03:03	*06:02			*04:01	*04:01	SSO SBT	
793					*01:02	*02:01					*04:01		SSP	
794	*07:01:01	*15:07:01	4*01:03:01N	5*01:01:01	*01:02	*02:01	*03:03:02	*06:02:01	NT	NT	*04:01:01		SSP SSO NGS RT-PCR	DRB1*07:79
2344	*07:01:01	*15:07:01					*03:03:02	*06:02:01			*04:01:01	*04:01:01	OTHER	
2400	*07:01	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02			*04:01		SSO NGS	
3135	*07:01	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03		*04:01			
3224	*07:01	*15:07	4*01:03:01:02N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03		*04:01:01G		NGS	
3511	*07:01	*15:07	4*01:03:01N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*07:01	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03		*04:01		SSP NGS RT-PCR	
3632	*07:01	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03		*04:01		SSP SSO	
3753	*07:01:01	*15:07:01	4*01:03:01N	5*01:01:01	*01:02:01	*02:01:01	*03:03:02	*06:02:01	*01:03:01	*01:03:01	*04:01:01	*04:01:01	NGS	
3966	*07:01	*15:07	4*01:03:01:02N	5*01:01			*03:03	*06:02					SSP	
4079	*07:01	*15:07	4*01:03:01:02N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03		*04:01		SSP SSO NGS	
4251	*07:01:01G	*15:07	4*01:03N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*07:01	*15:07					*03:03	*06:02			*04:01	*04:01	SSP SBT NGS	
4492	*07:01:01	*15:07:01	4*01:03:01:02N	5*01:01:01	*01:02:01	*02:01:01	*03:03:02:01	*06:02:01:01	*01:03:01:02	*01:03:01:04	*04:01:01	*04:01:01	SSP SSO NGS	DRB5*01:40 DRB1*07:79 DRB1*07:93 DQB1*06:02:36
5130	*07:01	*15:07	4*01:03:01:02N	5*01:01	*01:02	*02:01	*03:03	*06:02			*04:01	*04:01	SSO NGS	
5133	*07:01:01	*15:07:01	4*01:03:01:02N	5*01:01:01	*01:02:01	*02:01:01	*03:03:02	*06:02:01	*01:03:01		*04:01:01		NGS	DQB1*06:02:36 DPA1*01:14 DRB5*01:40 DRB1*07:93 DRB1*07:79
5219	*07:01:01	*15:07:01					*03:03:02	*06:02:01			*04:01:01	*04:01:01	SSO NGS	
5451	*07:01:01	*15:07:01											SSO SBT	

**Table 5b: Individual laboratory results for B-cell #568 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*643:01 DPB1*658:01 DPB1*670:01 DPB1*677:01 DPB1*679:01 DPB1*682:01 DPB1*683:01 DPB1*742:01 DPB1*743:01N DPB1*747:01 DPB1*748:01N DPB1*750:01 DPB1*753:01 DPB1*754:01N DPB1*755:01 DPB1*803:01 DPB1*804:01 DPB1*806:01 DPB1*811:01 DPB1*812:01 DPB1*813:01 DPB1*814:01 DPB1*820:01 DPB1*824:01 DPB1*828:01 DPB1*838:01N DPB1*840:01 DPB1*842:01 DPB1*844:01N DPB1*849:01 DPB1*850:01 DPB1*852:01 DPB1*859:01 DPB1*867:01N DPB1*868:01N DPB1*871:01N DPB1*882:01 DPB1*921:01 +
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT			*04:01	SSO	
5488	*07:01:01	*15:07:01	4*01:03:01:02N	5*01:01:01	*01:02	*02:01	*03:03		*01:03:01			*04:01:01	SSO SBT NGS	DQB1*06:237
5642	*07:01	*15:07					*03:03	*06:02					SSP	
8001	*07:01	*15:07	4*01:03:01:02N	5*01:01			*03:03	*06:02				*04:01		
8021	*07:01	*15:07	4*01:03:01:02N	5*01:01	*01:02	*02:01	*03:03	*06:02	*01:03			*04:01	SSO NGS	
8043	*07:01	*15:07			*01:02	*02:01	*03:03	*06:02					SSP SSO	
8086	*07:01	*15:07			*01:02	*02:01	*03:03	*06:02	*01:03	*01:03	*04:01	*04:01	SSO SBT	

**Table 6: Individual laboratory results for B-cell #568 - Class I**

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO SBT NGS	
278	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSP SSO	
725	*03	*26	*27	*57	*06	*07							SSP SSO	
731	*03	*26	*27	*57	*06	*07							SSP SSO SBT	
735	*03	*26	*27	*57	*06	*07	*03:01P	*26:01P	*27:05P	*57:01P	*06:02P	*07:04P	SSP SSO SBT	
747	*03	*26	*27	*57	*06	*07	*03:01:01:01	*26:01:01:01	*27:05:02	*57:01:01:01	*06:02:01:01	*07:04:01:01	SSP SSO NGS	
774	*03	*26	*27	*57	*06	*07							SSP SSO	
792	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO SBT	
793	*03	*26	*27	*57	*06	*07							SSP	
794	*03	*26	*27	*57	*06	*07	*03:01:01	*26:01:01	*27:05:02	*57:01:01	*06:02:01	*07:04:01	SSP SSO NGS RT-PCR	
2344							*03:01:01	*26:01:01	*27:05:02	*57:01:01	*06:02:01	*07:04:01	OTHER	
2400	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO NGS	
2847	*03	*26	*27	*57	*06	*07							SSO	
3135							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04		
3224							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	NGS	
3511							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSP SSO	
3519	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSP NGS RT-PCR	
3753							*03:01:01	*26:01:01	*27:05:02	*57:01:01	*06:02:01	*07:04:01	NGS	
3966	*03	*26	*27	*57	*06	*07							SSP	
4079	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSP SSO NGS	
4251	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO NGS	
4337							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSP SBT NGS	
4492	*03	*26	*27	*57	*06	*07	*03:01:01:01	*26:01:01:01	*27:05:02	*57:01:01:01	*06:02:01:01	*07:04:01	SSP SSO NGS	
5130	*03	*26	*27	*57	*06	*07	*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO NGS	
5133							*03:01:01:01	*26:01:01:01	*27:05:02	*57:01:01:01	*06:02:01:01	*07:04:01	NGS	
5214	*03	*26	*27	*57	*06	*07							SSO	
5219	*03	*26	*27	*57	*06	*07	*03:01:01	*26:01:01	*27:05:02	*57:01:01	*06:02:01	*07:04:01	SSO NGS	
5451													SSO SBT	
5462	*03	*26	*27	*57	*06	*07	NT	NT	NT	NT	NT	NT	SSO	
5488							*03:01:01	*26:01:01	*27:05:02	*57:01:01	*06:02:01	*07:04:01	SSO SBT NGS	
8021							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO NGS	
8029	*03	*26	*27	*57	*06	*07							SSO	
8042			*27	*57									SSO	
8068	*03	*26	*27	*57	*06	*07							SSO	
8086							*03:01	*26:01	*27:05	*57:01	*06:02	*07:04	SSO SBT	