

B-cell Line Exchange #282

JULY 16, 2019

B-cell Lines 563-564

The results for B-cell Line Exchange #282 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun** for its generosity in sharing its valuable reference cells with

us. 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. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-563. The consensus type for this cell from a Caucasian donor is DRB1*12:01-DRB1*15:01-DRB3*02:02-DRB5*01:01-DQA1*01:02-DQA1*05:05-DQB1*03:01-DQB1*06:02-DPA1*01:03-DPB1*04:01/A*26:01-A*68:01-B*27:23-B*44:02-C*02:02-C*05:01. One likely haplotype present in this cell is A*68:01-B*44:02-C*05:01-DRB1*15:01-DQB1*06:02, exclusively observed in Caucasians, with HF = 0.00019. The other likely association present is A*26:01-B*27:23-C*02:02-DRB1*12:01-DQB1*03:01, observed in other B*27:23 cells (1).

This cell is 30733VTIS, one of the reference cells for B*27:23. It was examined previously in the Exchange as extracts 570 (2013) and 438 (2008). In this present retyping, B*27:23 was reported in complete consensus by labs reporting at high resolution. B*44:02 (100%) was assigned as the second B-locus type, with 6 labs assigning B*44:02:01. The DRB1 types were reported as DRB1*12:01 (100%) and DRB1*15:01 (100%). DRB1*12:01:01 and DRB1*15:01:01 were each assigned by 8 labs. DQB1*03:01 and DQB1*06:02 were also reported in complete consensus by labs reporting at high resolution, with 6 labs reporting DQB1*03:01:01 and 6 labs reporting DQB1*06:02:01.

References:

1. Darke C, Street J, Hammond L, et al. Immunogenetic study of a new HLA allele, B*27:23. *Tissue Antigens* 2002;60:400-403.

Ter-564. The consensus type for this cell from an Australian Aboriginal donor is DRB1*08:03-DRB1*14:14-DRB3*02:02-DQA1*01:03-DQA1*01:04-DQB1*05:03-DQB1*06:01-DPA1*01:03-DPB1*02:01/A*02:01-A*34:01-B*40:02-B*56:02-C*01:02-C*15:02. One likely association present is A*02:01-B*40:02-DRB1*08:03, observed exclusively in Asians, with HF = 0.00097. The other likely association present may then be A*34:01-B*56:02-DRB1*14:14.

This cell is known as IHL, AD036. It is a reference cell for B*56:02, DQA1*01:03:01:03, and DRB1*14:14. This workshop cell (IHW#9124) was examined previously in the B-cell line Exchange as Ter 421 (2009), Ter 279 (2001), and Ter 235 (1999), as well as in the class I DNA Extract Exchange as extracts 495 (2010), 188 (2001), and 89 (1999). We congratulated Rao for correctly identifying this cell as being previously examined.

In this present study, B*56:02 (100%) and B*40:02 (95%) were the reported B-locus assignments, with B*56:02:01 and B*40:02:01 each assigned by 5 labs. DRB1*14:14 (100%) and DRB1*08:03 (100%), were also well assigned, with 9 labs assigning DRB1*08:03:02. Two subtypes of DQA1*01 were reported in this sample, DQA1*01:03 (100%) and DQA1*01:04 (96%). DQA1*01:03:01 and DQA1*01:04:01 were each assigned by 5 labs.

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Table 1: Summary of the 282nd B-cell Line Exchange**Ter-563**

Ter-563												
DNA Typing - class II	<u>30 labs High; 30 labs low-DRB1</u>		<u>20 labs High; 21 labs Low-DRB3/4/5</u>		<u>21 labs High; 27 labs Low-DQA1</u>		<u>29 labs High; 28 labs Low-DQB1</u>		<u>16 labs High; 15 labs Low-DPA1</u>		<u>26 labs High; 18 labs Low-DPB1</u>	
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)
	DRB1*12:01:01	26(8)	DRB3*02:02:01:01	5 (1)	DQA1*01:02:01:01	10(2)	DQB1*03:01:01:05	14(4)	DPA1*01:03:01:02	12 (2)	DPB1*04:01:01:01	8 (2)
	DRB1*12:01:01G	7 (2)	DRB3*02:02:01	20(4)	DQA1*01:02:01	14(3)	DQB1*03:01:01	7 (2)	DPA1*01:03:01	12 (2)	DPB1*04:01:01	19(5)
	DRB1*12:01P	7 (2)	DRB3*02:02P	5 (1)	DQA1*01:02	76(16)	DQB1*03:01:02	3 (1)	DPA1*01:03P	6 (1)	DPB1*04:01	73(19)
	DRB1*12:01	60(18)	DRB3*02:02	70(14)	DQA1*01	100(27)	DQB1*03:01P	3 (1)	DPA1*01:03	69(11)	DPB1*04(DP401)	61(11)
	DRB1*12	100(30)	DRB3*02	81(17)			DQB1*03:01	72(21)	DPA1*01	100(15)	DPB1*04	39(7)
			DRB3*PRESENT	19(4)			DQB1*03(DQ7)	4 (1)				
							DQB1*03	96(27)				
	DNA Typing - class I	<u>20 labs High; 30 labs low-DRB1</u>		<u>20 labs High; 21 labs Low-DRB3/4/5</u>		<u>22 labs High; 27 labs Low-DQA1</u>		<u>29 labs High; 28 labs Low-DQB1</u>				
		%(n)		%(n)		%(n)		%(n)				
DRB1*15:01:01:01		3 (1)	DRB5*01:01:01	25(5)	DQA1*05:05:01:06	9 (2)	DQB1*06:02:01:01	7 (2)				
DRB1*15:01:01		23(7)	DRB5*01:01P	5 (1)	DQA1*05:05:01:03	5 (1)	DQB1*06:02:01	14(4)				
DRB1*15:01		73(22)	DRB5*01:01	70(14)	DQA1*05:05:01	9 (2)	DQB1*06:02:02	3 (1)				
DRB1*15		100(30)	DRB5*01	81(17)	DQA1*05:05	77(17)	DQB1*06:02P	3 (1)				
			DRB5*PRESENT	19(4)	DQA1*05	100(27)	DQB1*06:02	72(21)				
							DQB1*01	100(28)				
DNA Typing - class I		<u>20 labs High; 24 labs low- A</u>		<u>21 labs High; 24 labs low- B</u>		<u>20 labs High; 23 labs low- C</u>						
		%(n)		%(n)		%(n)						
	A*26:01:01:01	15(3)	B*27:23	100(21)	C*02:02:02:01	15(3)						
	A*26:01:01	15(3)	B*27	100(24)	C*02:02:02	15(3)						
	A*26:01P	5 (1)			C*02:02P	5 (1)						
	A*26:01	65(13)			C*02:02	65(13)						
	A*26	100(24)			C*02	100(23)						
	DNA Typing - class I	<u>20 labs High; 24 labs low- A</u>		<u>20 labs High; 24 labs low- B</u>		<u>20 labs High; 23 labs low- C</u>						
		%(n)		%(n)		%(n)						
A*68:01:02:01		15(3)	B*44:02:01:01	10(2)	C*05:01:01:02	15(3)						
A*68:01:02		15(3)	B*44:02:01	20(4)	C*05:01:01	15(3)						
A*68:01P		5 (1)	B*44:02P	5 (1)	C*05:01P	5 (1)						
A*68:01		65(13)	B*44:02	65(13)	C*05:01	65(13)						
A*68		100(24)	B*44	100(24)	C*05	100(23)						

Table 3a: Individual laboratory results for B-cell #563 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
206	*12	*15	3*02	5*01	*01	*05	*03	*06	*01		*04			
278	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04	*04		
725	*12	*15	3*PRESENT	5*PRESENT	*01	*05	*03	*06					SSP SSO	
731	*12	*15			*01	*05	*03	*06					SSP SSO SBT	
735	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
747	*12	*15	3*PRESENT	5*PRESENT	*01	*05	*03	*06	*01	*01	*04	*04	SSP SSO NGS	
771	*12	*15			*01	*05	*03	*06					SSP SSO	
774	*12	*15	3*02	5*01	*01	*05	*03	*06			*04(DP401)		SSP SSO	
792	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04	*04	SSO SBT	
793	*12	*15	3*02	5*01	*01	*05	*03	*06			*04(DP401)		SSP	
794	*12	*15	3*02	5*01	*01	*05	*03	*06	*01		*04		SSP SSO NGS	
2400	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04	*04	RT-PCR	
2847	*12	*15											SSO NGS	
													SSO	
3519	*12	*15			*01	*05	*03	*06	*01		*04(DP401)		SSP NGS	
													RT-PCR	
3632	*12	*15	3*02	5*01	*01	*05	*03	*06	*01		*04(DP401)		SSP SSO	
3753	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSO	
3966													SSP	
4079	*12	*15	3*02	5*01	*01	*05	*03	*06	*01		*04(DP401)		SSP SSO NGS	
4251	*12	*15	3*02	5*01	*01	*05	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSO NGS	
4492	*12	*15	3*PRESENT	5*PRESENT	*01	*05	*03	*06	*01		*04(DP401)		SSP SSO NGS	
5130	*12	*15	3*02	5*01	*01	*05	*03	*06			*04	*04	SSO NGS	
5214	*12	*15	3*02	5*01	*01	*05	*03 (DQ7)	*06	*01		*04(DP401)		RT-PCR	
5219	*12	*15			*01	*05	*03	*06					SSO	
5451	*12	*15	3*02	5*01	*01	*05	*03	*06					SSO SBT	
5462	*12	*15	3*02	5*01	*01	*05	*03	*06	*01		*04(DP401)		SSO	
5642	*12	*15	3*PRESENT	5*PRESENT			*03	*06						
6649	*12	*15											SSO	
8001	*12	*15	3*02	5*01	*01	*05	*03	*06					SSP SSO	
8029	*12	*15			*01	*05	*03	*06					SSO	
8042													SSO	
8043	*12	*15			*01	*05	*03	*06					SSP SSO	
8068	*12	*15			*01	*05	*03	*06					SSO	

Table 3b: Individual laboratory results for B-cell #563 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*12:01	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
278	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01		
731	*12:01	*15:01					*03:01:02	*06:02:02					SSP SSO SBT	
735	*12:01P	*15:01	3*02:02P	5*01:01P	*01:02	*05:05	*03:01P	*06:02P	*01:03P	*01:03P	*04:01	*04:01	SSP SSO SBT	
747	*12:01:01	*15:01:01:01	3*02:02:01:01	5*01:01:01	*01:02:01:01	*05:05:01:06	*03:01:01:05	*06:02:01:01	*01:03:01:02	*01:03:01:02	*04:01:01:01	*04:01:01:01	SSP SSO NGS	DRB1*12:10
762	*12:01:01	*15:01:01	3*02:02:01	5*01:01:01	*01:02:01	*05:05:01:03	*03:01:01:05	*06:02:01	*01:03:01:02		*04:01:01:01		NGS	
771	*12:01	*15:01					*03:01	*06:02					SSP SSO	
														DRB1*15:85 DRB1*15:86 DRB1*15:106 DRB1*15:107 DRB1*15:108 DRB1*15:111 DRB1*15:112 DRB1*15:114 DRB5*01:16 DQB1*03:73 DQB1*03:92 DQB1*03:93 DQB1*03:276N DQB1*06:111
774	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02			*04:01		SSP SSO	
792	*12:01	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
793					*01:02	*05:05					*04:01		SSP	
794	*12:01:01	*15:01:01	3*02:02:01	5*01:01:01	*01:02	*05:05	*03:01:01	*06:02:01	NT	NT	*04:01:01		SSP SSO NGS RT-PCR	DRB1*12:10
2344	*12:01:01	*15:01:01					*03:01	*06:02:01			*04:01:01	*04:01:01	NGS	DQB1*03:276N DRB1*12:10
2400	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO NGS	DRB1*12:10 DQB1*03:276N
3135	*12:01:01G	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03		*04:01			DQA1*05:09
3511	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*12:01P	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSP NGS RT-PCR	
3632	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03		*04:01		SSP SSO	
3966	*12:01	*15:01	3*02:02	5*01:01			*03:01	*06:02					SSP	
4079	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03		*04:01		SSP SSO NGS	
4251	*12:01:01G	*15:01	3*02:02	5*01:01		*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*12:01	*15:01					*03:01	*06:02			*04:01	*04:01	SBT NGS	
4492	*12:01:01	*15:01:01	3*02:02	5*01:01	*01:02:01	*05:05:01	*03:01:01:05	*06:02	*01:03	*01:03	*04:01:01	*04:01:01	SSP SSO NGS	DRB1*12:10 DQB1*12:10
5130	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02			*04:01	*04:01	SSO NGS	DRB1*12:10
5133	*12:01:01	*15:01:01	3*02:02:01	5*01:01:01	*01:02:01:01	*05:05:01:06	*03:01:01:05	*06:02:01:01	*01:03:01		*04:01:01		NGS	
5451	*12:01:01	*15:01:01											SSO SBT	
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT		*04:01		SSO	
5488	*12:01:01	*15:01:01	3*02:02:01	5*01:01:01	*01:02:01	*05:05:01	*03:01:01	*06:02:01	*01:03:01		*04:01:01		SSO SBT NGS	DRB1*12:10

Table 3b: Individual laboratory results for B-cell #563 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5642	*12:01	*15:01					*03:01	*06:02						
8001	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02			*04:01		SSP SSO	
8021	*12:01	*15:01	3*02:02	5*01:01	*01:02	*05:05	*03:01	*06:02	*01:03		*04:01			
8043	*12:01	*15:01			*01:02	*05:05	*03:01	*06:02					SSP SSO	
8086	*12:01	*15:01			*01:02	*05:05	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO SBT	

Table 4: Individual laboratory results for B-cell #563 - Class I

Table 4: Individual laboratory results for B-cell #563 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
206	*26	*68	*27	*44	*02	*05								
230							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO SBT	
278	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01		
725	*26	*68	*27	*44	*02	*05							SSP SSO	
735	*26	*68	*27	*44	*02	*05	*26:01P	*68:01P	*27:23	*44:02P	*02:02P	*05:01P	SSP SSO SBT	
747	*26	*68	*27	*44	*02	*05	*26:01:01:01	*68:01:02:01	*27:23	*44:02:01:01	*02:02:02:01	*05:01:01:02	SSP SSO NGS	
774	*26	*68	*27	*44	*02	*05			*27:23				SSP SSO	
792	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO SBT	B*44:02:01:02S
793	*26	*68	*27	*44	*02	*05							SSP	
794	*26	*68	*27	*44	*02	*05	*26:01:01	*68:01:02	*27:23	*44:02:01	*02:02:02	*05:01:01	SSP SSO NGS	
2344							*26:01:01	*68:01:02	*27:23	*44:02:01	*02:02:02	*05:01:01	RT-PCR	
2400	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	NGS	
2847	*26	*68	*27	*44	*02	*05							SSO NGS	
3135							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO	
3511							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSP SSO	
3519	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSP NGS	
3753	*26	*68	*27	*44	*02	*05							RT-PCR	
3966	*26	*68	*27	*44	*02	*05							SSO	
4079	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSP	
4251	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSP SSO NGS	
4337							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO NGS	
4492	*26	*68	*27	*44	*02	*05	*26:01:01:01	*68:01:02:01	*27:23	*44:02:01	*02:02:02:01	*05:01:01:02	SBT NGS	
5130	*26	*68	*27	*44	*02	*05	*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSP SSO NGS	
5133							*26:01:01:01	*68:01:02:01	*27:23	*44:02:01:01	*02:02:02:01	*05:01:01:02	SSO NGS	
5214	*26	*68	*27	*44	*02	*05							RT-PCR	
5219	*26	*68	*27	*44	*02	*05							SSO	
5462	*26	*68	*27	*44	*02	*05	NT	NT	NT	NT	NT	NT	SSO	
5488							*26:01:01	*68:01:02	*27:23	*44:02:01	*02:02:02	*05:01:01	SSO SBT NGS	
8021							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO	
8029	*26	*68	*27	*44	*02	*05							SSO	
8042	*26	*68	*27	*44									SSO	
8068	*26	*68	*27	*44	*02	*05							SSO	
8086							*26:01	*68:01	*27:23	*44:02	*02:02	*05:01	SSO SBT	

Table 5a: Individual laboratory results for B-cell #564 - Class II

Center	Low resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
206	*08	*14	3*02		*01		*05	*06	*01		*02	*02		
278	*08	*14	NT	3*02	*01	*01	*05	*06	*01	*01	*02	*02		
725	*08	*14	3*PRESENT		*01		*05	*06					SSP SSO	
731	*08	*14			*01	*01	*05	*06					SSP SSO SBT	
735	*08	*14	3*02		*01	*01	*05	*06	*01	*01	*02(DP201)	*02(DP201)	SSP SSO SBT	
747	*08	*14	3*PRESENT		*01	*01	*05	*06	*01	*01	*02	*02	SSP SSO NGS	
771	*08	*14			*01	*01	*05	*06					SSP SSO	
774	*08	*14	3*02		*01	*01	*05	*06			*02(DP201)		SSP SSO	
792	*08	*14	3*02		*01	*01	*05	*06	*01	*01	*02	*02	SSO SBT	
793	*08	*14	3*02		*01	*01	*05	*06			*02		SSP	
794	*08	*14	3*02	NP	*01		*05	*06	*01		*02		SSP SSO NGS RT-PCR	
2400	*08	*14	3*02	NP	*01	*01	*05	*06	*01	*01	*02	*02	SSO NGS	
2847	*08	*14											SSO	
3519	*08	*14			*01	*01	*05	*06	*01		*02(DP201)		SSP NGS RT-PCR	
3632	*08	*14	3*02		*01	*01	*05	*06	*01		*02(DP201)		SSP SSO	
3753	*08	*14	3*02	NP	*01	*01	*05	*06	*01	*01	*02	*02	SSO	
3966													SSP	
4079	*08	*14	3*02		*01		*05	*06	*01		*02(DP201)		SSP SSO NGS	
4251	*08	*14	3*02		*01	*01	*05	*06	*01	*01	*02(DP201)	*02(DP201)	SSO NGS	
4492	*08	*14	3*PRESENT		*01		*05	*06	*01		*02		SSP SSO NGS	
5130	*08	*14	3*02		*01	*01	*05	*06			*02	*02	SSO NGS	
5214	*08	*14	3*02		*01	*01	*05	*06	*01		*02(DP201)		RT-PCR	
5219	*08	*14			*01	*01	*05	*06					SSO	
5451	*08	*14	3*02		*01	*01	*05	*06					SSO SBT	
5462	*08	*14	NP	3*02	*01	*01	*05	*06	*01		*02(DP201)		SSO	
5642	*08	*14	3*PRESENT				*05	*06						
6649	*08	*14											SSO	
8001	*08	*14	3*02		*01	*01	*05	*06					SSP SSO	
8029	*08	*14			*01	*01	*05	*06					SSO	
8042													SSO	
8043	*08	*14			*01	*01	*05	*06					SSP SSO	
8068	*08	*14			*01	*01	*05	*06					SSO	

Table 5b: Individual laboratory results for B-cell #564 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*08:03	*14:14					*05:03	*06:01			*02:01	*02:01	SSO SBT	
278	*08:03	*14:14	3*02:02	NT	*01:03	*01:04	*05:03	*06:01	*01:03	*01:03	*02:01	*02:01		
731	*08:03:02	*14:14					*05:03:02	*06:01					SSP SSO SBT	
735	*08:03	*14:14	3*02:02P		*01:03	*01:01P	*05:03P	*06:01P	*01:03P	*01:03P	*02:01	*02:01	SSP SSO SBT	
747	*08:03:02	*14:14	3*02:02:01:02		*01:03:01	*01:04:01	*05:03:01	*06:01	*01:03:01:01	*01:03:01:01	*02:01:02	*02:01:02	SSP SSO NGS	
762	*08:03:02	*14:14	3*02:02:01		*01:03:01	*01:04:01	*05:03:01	*06:01:01	*01:03:01:01		*02:01:02		NGS	
771	*08:03	*14:14					*05:03	*06:01					SSP SSO	
774	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01			*02:01		SSP SSO	DRB1*08:58
792	*08:03	*14:14					*05:03	*06:01			*02:01	*02:01	SSO SBT	
793					*01:03	*01:04					*02:01		SSP	
794	*08:03:02	*14:14	3*02:02:01	NP	*01:03	*01:04	*05:03:01	*06:01:01	NT	NT	*02:01:02		SSP SSO NGS RT-PCR	
2344	*08:03:02	*14:14					*05:03:01	*06:01			*02:01:02	*02:01:02	NGS	DPB1*02:01:19
2400	*08:03	*14:14	3*02:02	NP	*01:03	*01:04	*05:03	*06:01	*01:03	*01:03	*02:01	*02:01	SSO NGS	
3135	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01	*01:03		*02:01			DQA1*01:01 DQA1*01:05
3511	*08:03	*14:14	3*02:02	3*02:02	*01:03	*01:04	*05:03	*06:01	*01:03	*01:03	*02:01	*02:01	SSP SSO	
3519	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01	*01:03		*02:01		SSP NGS RT-PCR	
3632	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01	*01:03		*02:01		SSP SSO	
3966	*08:03	*14:14	3*02:02				*05:03	*06:01					SSP	
4079	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01	*01:03		*02:01		SSP SSO NGS	
4251	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03:01G	*06:01	*01:03	*01:03	*02:01	*02:01	SSO NGS	
4337	*08:03	*14:14					*05:03	*06:01			*02:01	*02:01	SBT NGS	
4492	*08:03:02	*14:14	3*02:02		*01:03:01	*01:04:01	*05:03	*06:01	*01:03	*01:03	*02:01:02	*02:01:02	SSP SSO NGS	
5130	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01			*02:01	*02:01	SSO NGS	
5133	*08:03:02	*14:14	3*02:02:01		*01:03:01	*01:04:01	*05:03:01	*06:01:01	*01:03:01		*02:01:02		NGS	DPB1*02:01:19
5451	*08:03:02	*14:14											SSO SBT	
5462	NT	NT	NT	NP	NT	NT	NT	NT	NT		*02:01		SSO	
5488	*08:03:02	*14:14	3*02:02:01		*01:03:01	*01:04:01	*05:03:01	*06:01:01	*01:03:01		*02:01:02		SSO SBT NGS	
5642	*08:03	*14:14					*05:03	*06:01						
8001	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01			*02:01		SSP SSO	
8021	*08:03	*14:14	3*02:02		*01:03	*01:04	*05:03	*06:01	*01:03		*02:01			
8043	*08:03	*14:14			*01:03	*01:04	*05:03	*06:01					SSP SSO	
8086	*08:03	*14:14			*01:03	*01:04	*05:03	*06:01	*01:03	*01:03	*02:01	*02:01	SSO SBT	

Table 6: Individual laboratory results for B-cell #564 - Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
206	*02	*34	*40	*56	*01	*15								
230							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO SBT	
278	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02		
725	*02	*34	*40	*56	*01	*15							SSP SSO	
735	*02	*34	*40	*56	*01	*15	*02:01P	*34:01	*40:02P	*56:02	*01:02P	*15:02P	SSP SSO SBT	
747	*02	*34	*40	*56	*01	*15	*02:01:01:01	*34:01:01	*40:02:01	*56:02:01	*01:02:01	*15:02:01:01	SSP SSO NGS	
774	*02	*34	*40	*56	*01	*15				*56:02			SSP SSO	
792	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO SBT	A*02:01:01:02L
793	*02	*34	*40	*56	*01	*15							SSP	
794	*02	*34	*40	*56	*01	*15	*02:01:01	*34:01:01	*40:02:01	*56:02:01	*01:02:01	*15:02:01	SSP SSO NGS RT-PCR	
2344							*02:01:01	*34:01:01	*40:02:01	*56:02:01	*01:02:01	*15:02:01	NGS	
2400	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO NGS	
2847	*02	*34	*40	*56	*01	*15							SSO	
3135							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02		A*02:01L
3511							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSP SSO	
3519	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSP NGS RT-PCR	
3753	*02	*34	*40	*56	*01	*15							SSO	
3966	*02	*34	*40	*56	*01	*15							SSP	
4079	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSP SSO NGS	
4251	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO NGS	
4337							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SBT NGS	
4492	*02	*34	*40	*56	*01	*15	*02:01:01	*34:01:01:01	*40:02:01	*56:02:01	*01:02:01	*15:02:01:01	SSP SSO NGS	
5130	*02	*34	*40	*56	*01	*15	*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO NGS	
5133							*02:01:01	*34:01:01:01	*40:01:02:01	*56:02:01	*01:02:01	*15:02:01	NGS	
5214	*02	*34	*40 (B61)	*56	*01	*15							RT-PCR	
5219	*02	*34	*40	*56	*01	*15							SSO	
5462	*02	*34	*40	*56	*01	*15	NT	NT	NT	NT	NT	NT	SSO	
5488							*02:01:01	*34:01:01	*40:02:01	*56:02:01	*01:02:01	*15:02:01	SSO SBT NGS	
8021							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02		
8029	*02	*34	*40	*56	*01	*15							SSO	
8042	*02	*34	*40	*56									SSO	
8068	*02	*34	*40	*56	*01	*15							SSO	
8086							*02:01	*34:01	*40:02	*56:02	*01:02	*15:02	SSO SBT	