

B-CELL LINE EXCHANGE #291 FEBRUARY 23, 2021

B-cell Line 581 - 582

The results for B-cell Line Exchange #291 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, **University of Michigan Medical School, Ann Arbor** and to **Welsh Blood Service, Pontyclun**, for generously providing the cells examined in this study.

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-581. The reported consensus type for this sample from a Caucasian donor is DRB1*03:01-DRB1*04:26-DRB3*01:01-DRB4*01:03-DQA1*03:01-DQA1*05:01-DQB1*02:01-DQB1*03:02-DPA1*01:03-DPB1*03:01-DPB1*04:01/A*32:01-A*68:02-B*08:01-B*44:02-C*01:02-C*07:01. Combining data from family studies and the Cell Exchange, the haplotypes in this cell are determined to be A*68:02-B*44:02-C*07:01-DRB1*04:26-DRB4*01:03--DQA1*03:01-DQB1*03:02 and A*32:01-B*08:01-C*01:02-DRB1*03:01-DRB3*01:01-DQA1*05:01-DQB1*02:01.

This cell was previously examined in the Exchange as Ter 423 (2009) and Ter 271 (2001). In this present retyping, DRB1*04:26 was reported by 100% of labs, compared to an assignment of only 68% in 2009. Good agreement was achieved for all class I and class II allele assignments, with each reported by > 90% of labs. No grade was assigned to DPA1 for high resolution, as there were < 10 labs reporting.

Ter-582. The reported consensus type for this sample from a donor of unknown ethnicity is DRB1*01:01-DRB1*01:03-DQA1*01:01-DQA1*05:05-DQB1*03:01-DQB1*05:01-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*02:36-A*31:01-B*07:02-B*27:05-C*01:02-C*07:02. Likely associations present in this cell are B*27:05-C*01:02-DRB1*01:03-DQB1*03:01 and B*07:02-C*07:02-DRB1*01:01-DQB1*05:01, with respective HF = 0.00126 and 0.00979, in Caucasians.

This cell was previously examined in the class I DNA Extract Exchange as extracts 536 (2011), 307 (2004), and 269 (2003). In this present retyping, the assignment of A*02:36 improved greatly, increasing from 60% in 2011 to 100% in the current study. Allele assignments for all class I and class II loci achieved good agreement, with each assigned by > 90% of labs. As with Ter 581, DPA1 was not graded for high resolution, as < 10 labs reported high resolution typing results.

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Table 1: Summary of the 291st B-cell Line Exchange

Ter-581

DNA Typing - class II												
DNA Typing - class II	26 labs High; 22 labs low-DRB1	%(n)	19 labs High; 14 labs Low-DRB3/4/5	%(n)	20 labs High; 19 labs Low-DQA1	%(n)	26 labs High; 20 labs Low-DQB1	%(n)	15 labs High; 8 labs Low-DPA1	%(n)	25 labs High; 13 labs Low-DPB1	%(n)
	DRB1*03:01:01	31(8)	DRB3*01:01:02	26(5)	DQA1*03:01:01	25(5)	DQB1*02:01:01:01	4 (1)	DPA1*01:03:01	33(5)	DPB1*03:01:01	32(8)
	DRB1*03:01:01G	8 (2)	DRB3*01:01	74(14)	DQA1*03:01	75(15)	DQB1*02:01:01	27(7)	DPA1*01:03	67(10)	DPB1*03:01:01G	12(3)
	DRB1*03:01P	4 (1)	DRB3*01	79(11)	DQA1*03	100(19)	DQB1*02:01:01G	4 (1)	DPA1*01	100(8)	DPB1*03:01	56(14)
	DRB1*03:01	57(15)	DRB3*PRESENT	21(3)			DQB1*02:01	65(17)			DPB1*03	100(13)
	DRB1*03(DR17)	95(21)					DQB1*02	100(20)				
	DRB1*03	5 (1)										
DNA Typing - class I	26 labs High; 22 labs low-DRB1	%(n)	19 labs High; 14 labs Low-DRB3/4/5	%(n)	20 labs High; 19 labs Low-DQA1	%(n)	26 labs High; 20 labs Low-DQB1	%(n)			25 labs High; 13 labs Low-DPB1	%(n)
	DRB1*04:26	100(26)	DRB4*01:03:01	26(5)	DQA1*05:01:01	25(5)	DQB1*03:02:01	27(7)			DPB1*04:01:01	32(8)
	DRB1*04	100(22)	DRB4*01:03	68(13)	DQA1*05:01	75(15)	DQB1*03:02:01G	4 (1)			DPB1*04:01:01G	12(3)
			<i>DRB3*01:03</i>	5 (1)	DQA1*05	100(19)	DQB1*03:02	69(18)			DPB1*04:01	56(14)
			DRB4*01	64(9)			DQB1*03	95(19)			DPB1*04(DP401)	38(5)
			<i>DRB3*01</i>	7 (1)			DQB1*03(DR17)	5 (1)			DPB1*04	62(8)
			DRB4*PRESENT	29(4)								
DNA Typing - class I	21 labs High; 19 labs low- A	%(n)	21 labs High; 19 labs low- B	%(n)	21 labs High; 19 labs low- C	%(n)						
	A*32:01:01:01	5 (1)	B*08:01:01:01	5 (1)	C*01:02:01:01	5 (1)						
	A*32:01:01	33(7)	B*08:01:01	33(7)	C*01:02:01	33(7)						
	A*32:01:01G	5 (1)	B*08:01:01G	5 (1)	C*01:02:01G	5 (1)						
	A*32:01	57(12)	B*08:01	57(12)	C*01:02	57(12)						
	A*32	100(19)	B*08	100(19)	C*01	100(19)						
DNA Typing - class I	21 labs High; 19 labs low- A	%(n)	21 labs High; 19 labs low- B	%(n)	21 labs High; 19 labs low- C	%(n)						
	A*68:02:01:01	5 (1)	B*44:02:01:01	5 (1)	C*07:01:01:01	5 (1)						
	A*68:02:01	33(7)	B*44:02:01	33(7)	C*07:01:01	33(7)						
	A*68:02:01G	5 (1)	B*44:02:01G	5 (1)	C*07:01:01G	5 (1)						
	A*68:02	57(12)	B*44:02	57(12)	C*07:01	57(12)						
	A*68	100(19)	B*44	100(19)	C*07	100(19)						

Table 3a: Individual laboratory results for B-cell #581 - Class II

Low resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
278	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04	SSP SSO		
725	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03					SSP SSO		
731	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04	SSO SBT NGS RT-PCR		
747	*03	*04	3*PRESENT	4*PRESENT	*03	*05	*02	*03	*01	*01	*03	*04	SSP SSO NGS		
771	*03	*04			*03	*05	*02	*03			*03	*04	SSO NGS		
774	*03	*04	3*01	4*01	*03	*05	*02	*03			*03	*04(DP401)	SSP SSO		
792	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04	SSO NGS		
793	*03	*04	3*01	4*PRESENT	*03	*05	*02	*03			*03	*04(DP401)	SSP		
2400	*03	*04	3*01	4*01	*03	*05	*02	*03			*03	*04	SSO NGS		
2847	*03	*04											SSO		
3519	*03	*04			*03	*05	*02	*03	*01	*01	*03	*04(DP401)	SSP NGS RT-PCR		
3753	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04(DP401)	SSO		
3966													SSP		
4079	*03	*04	3*01	4*01	*03	*05	*02	*03	*01	*01	*03	*04	SSO		
5130	*03	*04	3*01	3*01	*03	*05	*02	*03			*03	*04	SSO NGS		
5214	*03 (DR17)	*04	3*01	4*01	*03	*05	*02	*03 (DQ8)	*01		*03	*04(DP401)	SSO		
5219	*03	*04			*03	*05	*02	*03					SSO NGS		
5451	*03	*04	3*01	4*01	*03	*05	*02	*03					SSO SBT NGS		
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	RT-PCR		
5642	*03	*04	3*PRESENT	4*PRESENT			*02	*03					SSP SSO		
6649	*03	*04											SSO		
8029	*03	*04			*03	*05	*02	*03					SSO		
8043	*03	*04			*03	*05	*02	*03					SSP SSO		
8068	*03	*04			*03	*05	*02	*03					SSO		

Table 3b: Individual laboratory results for B-cell #581 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
230	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	NGS	
278	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	SSP SSO	
731	*03:01:01	*04:26					*02:01:01:01	*03:02			*03:01:01	*04:01:01	SSO SBT NGS RT-PCR	
747	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01	*01:03:01	*03:01:01	*04:01:01	SSP SSO NGS	DPB1*350:01 DQB1*02:163N DQB1*03:289 DPB1*124:01
762	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	NGS	
771	*03:01	*04:26					*02:01	*03:02			*03:01	*04:01	SSO NGS	
774	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*03:01	*04:01	SSP SSO	DRB1*03:56 DRB1*03:58 DRB1*03:61 DRB1*03:72 DRB1*03:73 DRB1*03:83 DRB1*03:93 DRB1*03:62 DRB1*03:66 DRB1*03:68N DRB1*03:100 DRB1*04:274
792	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	SSO NGS	
793					*03:01	*05:01					*03:01	*04:01	SSP	
2344	*03:01:01	*04:26	NT	NT	NT	NT	*02:01:01	*03:02:01	NT	NT	*03:01:01	*04:01:01	NGS	DRB1*03:147 DPB1*124:01 DPB1*350:01
2400	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02			*03:01:01G	*04:01:01G	SSO NGS	DQB1*02:163N DQB1*03:289
3135	*03:01:01G	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01:01G	*04:01:01G		
3224	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	NGS	
3511	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	SSP SSO	
3519	*03:01P	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03	*01:03	*03:01	*04:01	SSP NGS RT-PCR	DRB1*03:147
3966	*03:01	*04:26	3*01:01	4*01:03			*02:01	*03:02					SSP	
4251	*03:01:01G	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01:01G	*03:02:01G	*01:03	*01:03	*03:01	*04:01	NGS	
4337	*03:01	*04:26					*02:01	*03:02			*03:01	*04:01	SSP SBT NGS	
5130	*03:01	*04:26	3*01:01	3*01:03	*03:01	*05:01	*02:01	*03:02			*03:01	*04:01	SSO NGS	DRB1*03:147
5133	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	NGS	
5214											*03:01G	*04:01G	SSO	
5219	*03:01:01	*04:26					*02:01:01	*03:02:01			*03:01:01	*04:01:01	SSO NGS	
5451	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	SSO SBT NGS	
5488	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	SSO SBT NGS	DRB1*03:147
5642	*03:01	*04:26					*02:01	*03:02					SSP SSO	
8021	*03:01	*04:26	3*01:01	4*01:03	*03:01	*05:01	*02:01	*03:02	*01:03		*03:01	*04:01	SSO NGS	
8043	*03:01	*04:26			*03:01	*05:01	*02:01	*03:02					SSP SSO	
8122	*03:01:01	*04:26	3*01:01:02	4*01:03:01	*03:01:01	*05:01:01	*02:01:01	*03:02:01	*01:03:01		*03:01:01	*04:01:01	NGS	DPB1*939:01 DPB1*124:01 DPB1*350:01

Table 4: Individual laboratory results for B-cell #581 - Class I

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
278	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP SSO	
725	*32	*68	*08	*44	*01	*07							SSP SSO	
731	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO SBT NGS	
747	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSP SSO NGS	
762													NGS	
771	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
774	*32	*68	*08	*44	*01	*07							SSP SSO	
792	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
793	*32	*68	*08	*44	*01	*07							SSP	
2344							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	NGS	
2400	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
2847	*32	*68	*08	*44	*01	*07							SSO	
3135							*32:01:01G	*68:02:01G	*08:01:01G	*44:02:01G	*01:02:01G	*07:01:01G		
3224							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
3511							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP SSO	
3519	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP NGS RT-PCR	
3753	*32	*68	*08	*44	*01	*07							SSO	
3966	*32	*68	*08	*44	*01	*07							SSP	
4079	*32	*68	*08	*44	*01	*07							SSO	
4251							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	NGS	
4337							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSP SBT NGS	
5130	*32	*68	*08	*44	*01	*07	*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
5133							*32:01:01:01	*68:02:01:01	*08:01:01:01	*44:02:01:01	*01:02:01:01	*07:01:01:01	NGS	
5214	*32	*68	*08	*44	*01	*07							SSO	
5219	*32	*68	*08	*44	*01	*07	*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO NGS	
5451							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO SBT NGS	
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	RT-PCR	
5488							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	SSO SBT NGS	
5642													SSP SSO	
6649													SSO	
8021							*32:01	*68:02	*08:01	*44:02	*01:02	*07:01	SSO NGS	
8029	*32	*68	*08	*44	*01	*07							SSO	
8043													SSP SSO	
8068	*32	*68	*08	*44	*01	*07							SSO	
8122							*32:01:01	*68:02:01	*08:01:01	*44:02:01	*01:02:01	*07:01:01	NGS	

Table 5a: Individual laboratory results for B-cell #582 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*01	NT	NT	*01	*05	*03	*05	*01	*01	*02	*04	SSP SSO	
725	*01				*01	*05	*03	*05					SSP SSO	
731	*01	*01			*01	*05	*03	*05	*01	*01	*02	*04	SSO SBT NGS RT-PCR	
747	*01	*01			*01	*05	*03	*05	*01	*01	*02	*04	SSP SSO NGS	
771	*01	*01			*01	*05	*03	*05			*02	*04	SSO NGS	
774	*01	*01			*01	*05	*03	*05			*02(DP201)	*04(DP401)	SSP SSO	
792	*01	*103			*01	*05	*03	*05	*01	*01	*02	*04	SSO NGS	
793	*01	*01			*01	*05	*03	*05			*02(DP201)	*04(DP401)	SSP	
2400	*01	*01	NP	NP	*01	*05	*03	*05			*02	*04	SSO NGS	
2847	*01	*01											SSO	
3519	*01	*01			*01	*05	*03	*05	*01	*01	*02(DP201)	*04(DP401)	SSP NGS RT-PCR	
3753	*01	*01	NP	NP	*01	*05	*03	*05	*01	*01	*02(DP201)	*04(DP401)	SSO	
3966													SSP	
4079	*01	*01			*01	*05	*03	*05	*01	*01	*02	*04	SSO	
5130	*01	*01			*01	*05	*03	*05			*02	*04	SSO NGS	
5214	*01	*103			*01	*05	*03 (DQ7)	*05	*01		*02(DP201)	*04(DP401)	SSO	
5219	*01	*01			*01	*05	*03	*05					SSO NGS	
5451	*01	*01			*01	*05	*03	*05					SSO SBT NGS	
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	RT-PCR	
5642	*01	*01					*03	*05					SSP SSO	
6649	*01												SSO	
8029	*01	*01			*01	*05	*03	*05					SSO	
8043	*01	*01			*01	*05	*03	*05					SSP SSO	
8068	*01				*01	*05	*03	*05					SSO	

Table 5b: Individual laboratory results for B-cell #582 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01	*04:01	NGS	
278	*01:01	*01:03	NT	NT	*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01	*04:01	SSP SSO	
731	*01:01	*01:03					*03:01:01	*05:01:01			*02:01:02	*04:01:01	SSO SBT NGS RT-PCR	
747	*01:01:01	*01:03			*01:01:01	*05:05:01	*03:01	*05:01:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	SSP SSO NGS	DQB1*03:297 DQB1*05:01:33
762	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03		*02:01	*04:01	NGS	
771	*01:01	*01:03					*03:01	*05:01			*02:01	*04:01	SSO NGS	
774	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01			*02:01	*04:01	SSP SSO	DRB1*01:50 DRB1*01:62N DRB1*01:64 DRB1*01:65 DRB1*01:67 DQB1*03:73 DQB1*03:92 DQB1*03:93
792	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01	*04:01	SSO NGS	
793					*01:01	*05:05					*02:01	*04:01	SSP	
2344	*01:01:01	*01:03	NT	NT	NT	NT	*03:01:01	*05:01:01	NT	NT	*02:01:02	*04:01:01	NGS	DRB1*01:100
2400	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01			*02:01:02G	*04:01:01G	SSO NGS	DQB1*03:297
3135	*01:01:01G	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01:02G	*04:01:01		DQA1*01:04 DQA1*01:05 DQA1*05:09
3224	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03		*02:01	*04:01	NGS	
3511	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01	*04:01	SSP SSO	
3519	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03	*01:03	*02:01	*04:01	SSP NGS RT-PCR	DRB1*01:100
3966	*01:01	*01:03					*03:01	*05:01					SSP	
4251	*01:01:01G	*01:03			*01:01	*05:05	*03:01:01G	*05:01	*01:03:01G	*01:03	*02:01	*04:01	NGS	
4337	*01:01	*01:03					*03:01	*05:01			*02:01	*04:01	SSP SBT NGS	
5130	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01			*02:01	*04:01	SSO NGS	DRB1*01:03 DRB1*01:100
5133	*01:01:01	*01:03			*01:01:01	*05:01:01	*03:01:01	*05:01:01	*01:03:01		*02:01:02	*04:01:01	NGS	
5214											*02:01G	*04:01G	SSO	
5219	*01:01:01	*01:03					*03:01:01	*05:01:01			*02:01:02	*04:01:01	SSO NGS	
5451	*01:01:01	*01:03			*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03:01		*02:01:02	*04:01:01	SSO SBT NGS	
5488	*01:01:01	*01:03			*01:01:01	*05:05:01	*03:01:01G	*05:01:01	*01:03:01		*02:01:02	*04:01:01	SSO SBT NGS	DRB1*01:100
5642	*01:01	*01:03					*03:01	*05:01					SSP SSO	
8021	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01	*01:03		*02:01	*04:01	SSO NGS	
8043	*01:01	*01:03			*01:01	*05:05	*03:01	*05:01					SSP SSO	
8122	*01:01:01	*01:03	NP	NP	*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03:01		*02:01:02	*04:01:01	NGS	DPB1*939:01 DPB1*02:01:19

Table 6: Individual laboratory results for B-cell #582 - Class I

Table 6: Individual laboratory results for B-cell #582 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	NGS	
278	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSP SSO	
725	*02	*31	*07	*27	*01	*07							SSP SSO	
731	*02	*31	*07	*27	*01	*07	*02:36	*31:01:02:01	*07:02:01	*27:05:02	*01:02:01	*07:02:01	SSO SBT NGS RT-PCR	
747	*02	*31	*07	*27	*01	*07	*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	SSP SSO NGS	
762													NGS	
771	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSO NGS	
774	*02	*31	*07	*27	*01	*07							SSP SSO	
792	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSO NGS	
793	*02	*31	*07	*27	*01	*07							SSP	
2344							*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	NGS	
2400	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSO NGS	
2847	*02	*31	*07	*27	*01	*07							SSO	
3135							*02:36	*31:01:02G	*07:02:01G	*27:05:02G	*01:02	*07:02		
3224							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	NGS	
3511							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSP SSO	
3519	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSP NGS RT-PCR	
3753	*02	*31	*07	*27	*01	*07							SSO	
3966	*02	*31	*07	*27	*01	*07							SSP	
4079	*02	*31	*07	*27	*01	*07							SSO	
4251							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	NGS	
4337							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSP SBT NGS	
5130	*02	*31	*07	*27	*01	*07	*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSO NGS	
5133							*02:36	*31:01:02	*07:02:01:01	*27:05:02	*01:02:01:01	*07:02:01:03	NGS	
5214	*02	*31	*07	*27	*01	*07							SSO	
5219	*02	*31	*07	*27	*01	*07	*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	SSO NGS	
5451							*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	SSO SBT NGS	
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	RT-PCR	
5488							*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	SSO SBT NGS	
5642													SSP SSO	
6649													SSO	
8021							*02:36	*31:01	*07:02	*27:05	*01:02	*07:02	SSO NGS	
8029	*02	*31	*07	*27	*01	*07							SSO	
8043													SSP SSO	
8068	*02	*31	*07	*27	*01	*07							SSO	
8122							*02:36	*31:01:02	*07:02:01	*27:05:02	*01:02:01	*07:02:01	NGS	