

B-cell Line Exchange #277

OCTOBER 1, 2018

B-cell Lines	553-554
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The results for B-cell Line Exchange #277 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We would like to express our appreciation to **Welsh Blood Service, Pontyclun Wales and Badger-Hawkeye Red Cross, Madison WI** for providing us with the valuable reference cells examined in this study.

We would also like to 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-553. The consensus type for this sample from a donor of unknown ethnicity is DRB1*01:01-DRB1*15:01-DRB5*01:01-DQA1*01:01-DQA1*01:02-DQB1*05:01-DQB1*06:02-DPA1*01:03-DPA1*02:01-DPB1*11:01-DPB1*16:01-A*02:13-A*03:01-B*07:02-B*44:02-C*05:01-C*07:02. One likely association present in this cell is A*02:13-B*44:02-C*05:01-DPB1*11:01:01, observed in SLUGEO, a reference cell for A*02:13. The other likely association present may then be A*03:01-B*07:02-C*07:02-DPB1*16:01. The association of A*03:01-B*07:02-C*07:02 in this cell is common across all populations, with HF = 0.05993 in Caucasians.

This cell was previously examined in the class I DNA Extract Exchange as extract 423 (2008) and extract 237 (2003). In this present retyping, A*02:13 was assigned by 100% of labs reporting at high resolution. A*03:01, B*07:02, B*44:02, C*05:01, and C*07:02 were all reported in complete consensus, with 7 labs assigning A*03:01:01, B*07:02:01, B*44:02:01, C*05:01:01, and C*07:02:01.

DRB1*01:01 and DRB1*15:01 were each assigned in complete consensus, with 9 labs assigning DRB1*01:01:01 and 10 labs assigning DRB1*15:01:01. Good agreement was also achieved among labs in the reporting of DQA1*01:01 (*01:01:01), DQA1*01:02 (*01:02:01), DQB1*05:01 (*05:01:01), and DQB1*06:02 (*06:02:01), as each were reported by 100% of labs reporting at high resolution. DPA1*01:03 (*01:03:01), DPA1*02:01 (*02:01:01), DPB1*11:01 (*11:01:01), and DPB1*16:01 (*16:01:01) were assigned in complete consensus as the DP types.

Ter-554. The consensus type for this sample from a Hispanic donor is DRB1*08:02-DRB1*14:02-DRB3*01:01-DQA1*04:01-DQA1*05:03-DQB1*03:01-DQB1*04:02-DPA1*01:03-DPB1*04:02-A*02:11-A*24:53-B*40:04-C*03:04. This cell is the sibling of a previous Exchange cell, extract 194. From family studies, the class I haplotypes for this cell are determined to

be A*02:11-B*40:04-C*03:04 and A*24:53-B*40:04-C*03:04. The A*02:11-B*40:04-C*03:04 haplotype in this cell is observed exclusively in Hispanics, with HF= 0.00051.

This cell was examined for class I in the Extract Exchange as extracts 412 (2008), 265 (2003), and 193 (2002). In this present study, A*24:53 was assigned by 100% of labs. The following table documents the standardization of A*24:53 over the years:

	Extract 193 (2002)	Extract 265 (2003)	Extract 412 (2008)	Ter 554 (2018)
A*24var/new	22%	38%		
A*24:02	27%	6%	4%	-
A*24:02V	6%	6%	-	-
A*24:14	6%	-	-	-
A*24:15	39%	50%	-	-
A*24:53	-	-	96%	100%

A*02:11 (*02:11:01) was assigned in complete consensus as the second A-locus type. B*40:04 (100%) and C*03:04 (100%) were reported as the sole B- and C-locus types.

DRB1*08:02 and DRB1*14:02 were each assigned by 100%, with 8 labs assigning DRB1*08:02:01 and DRB1*14:02:01. The DQ types were reported as DQA1*04:01 (*04:01:01) (100%), DQA1*05:03 (*05:03:01) (100%), DQB1*03:01 (*03:01:01) (100%), and DQB1*04:02 (*04:02:01) (100%). DPA1*01:03 and DPB1*04:02 were also reported in complete consensus, with 6 labs reporting DPA1*01:03:01 and 8 labs reporting DPB1*04:02:01.

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Table 3a: Individual laboratory results for B-cell #553-Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	RT-PCR	
206	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16		
278	*01	*15	5*01	NT	*01	*01	*05	*06	*01	*02	*11	*16		
725	*01	*15	5*PRESENT		*01		*05	*06					SSP SSO	
731	*01	*15			*01		*05	*06					SSP SSO SBT	
735	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSP SSO SBT	
747	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSP SSO SBT	
771	*01	*15			*01	*01	*05	*06					SSP SSO	
774	*01	*15	5*01		*01	*01	*05	*06			*11	*16	SSP SSO	
779	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSP SSO	
792	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSO SBT	
793	*01	*15	5*PRESENT		*01	*01	*05	*06			*11	*16	SSP	
794	*01	*15	5*01		*01		*05	*06	*01	*02	*11	*16	SSP SSO NGS	
2400	*01	*15	5*01		*01	*01	*05	*06			*11	*16	RT-PCR	
2847	*01	*15											SSP SSO SBT	
3224	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSO	
3511	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSO	
3519	*01	*15			*01		*05	*06	*01	*02	*11	*16	SSP SSO	
3632	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSP	
3966													SSP	
4079	*01	*15					*05	*06					SSP SSO NGS	
4251	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSO NGS	
4492	*01	*15	5*PRESENT		*01		*05	*06	*01	*02	*11	*16	SSP SSO NGS	
5130	*01	*15	5*01		*01	*01	*05	*06			*11	*16	SSP SSO NGS	
5214	*01	*15	5*01		*01	*01	*05	*06	*01	*02	*11	*16	SSO	
5219	*01	*15			*01	*01	*05	*06					SSO	
5451	*01	*15	5*01		*01	*01	*05	*06					SSP SSO SBT	
5462	*01	*15	5*01	NP	*01		*05	*06	*01	*02	NT	NT	SSO RT-PCR	
5642	*01	*15	5*PRESENT				*05	*06					SSP	
6649	*01	*15	5*PRESENT										SSO	
8001	*01	*15	5*PRESENT		*01		*05	*06					SSP SSO	
8029	*01	*15			*01	*01	*05	*06					SSO NGS	
8043	*01	*15			*01	*01	*05	*06					SSP SSO	
8068	*01	*15					*05	*06					SSO	
9916	*01	*15	5*PRESENT				*05	*06					SSP	

Table 3b: Individual laboratory results for B-cell #553-Class II

High resolution													
Center	DRB1	DRB3/4/5	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
230	*01:01	*15:01				*05:01	*06:02			*11:01	*16:01	SSO SBT	
278	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01		
731	*01:01:01G	*15:01:01				*05:01	*06:02					SSP SSO SBT	DQB1*05:62 DQB1*06:11
735	*01:01	*15:01	5*01:01P	*01:01P	*01:02	*05:01	*06:02	*01:03P	*02:01	*11:01	*16:01	SSP SSO SBT	DPA1*01:13
747	*01:01:01	*15:01:01:01	5*01:01:01	*01:01:01	*01:02:01:01	*05:01:01	*06:02:01	*01:03:01:01	*02:01:01:01	*11:01:01	*16:01:01	SSP SSO SBT	DQB1*05:01:01:03
762	*01:01:01	*15:01:01:01	5*01:01:01	*01:01	*01:02:01	*05:01:01:03	*06:02:01	*01:03:01	*02:01:01:01	*11:01:01	*16:01	NGS	
771	*01:01	*15:01				*05:01	*06:02					SSP SSO	
774	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02			*11:01	*16:01	SSP SSO	DRB1*01:50 DRB1*01:62N DRB1*01:64 DRB1*01:67 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 DRB5*01:17
779				*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSP SSO	
792	*01:01	*15:01				*05:01	*06:02			*11:01	*16:01	SSO SBT	
793				*01:01	*01:02					*11:01	*16:01	SSP	
794	*01:01:01	*15:01:01	5*01:01:01	*01:01	*01:02	*05:01:01	*06:02:01	*01:03	*02:01	*11:01:01	*16:01:01	SSP SSO NGS RT-PCR	
2344	*01:01:01	*15:01:01:01	5*01:01:01	*01:01	*01:02:01	*05:01:01:01	*06:02:01	*01:03:01:01	*02:01:01:01	*11:01:01	*16:01:01	NGS	DQB1*05:01:01:03 DQB1*05:01:01:02 DRB1*15:01:01:02 DRB1*15:01:01:03
2400	*01:01	*15:01		*01:01	*01:02	*05:01	*06:02			*11:01	*16:01	SSP SSO SBT	
3135	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01		DQA1*01:04 DQA1*01:05
3511	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSP SSO	
3519	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSP NGS	
3632	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSP SSO	
3753	*01:01:01	*15:01:01	5*01:01:01	*01:01:01	*01:02:01	*05:01	*06:02:01	*01:03:01	*02:01:01	*11:01:01	*16:01:01	NGS	
3966	*01:01	*15:01	5*01:01			*05:01	*06:02					SSP	
4079	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSP SSO NGS	
4251	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSO NGS	
4337	*01:01	*15:01				*05:01	*06:02			*11:01	*16:01	SBT NGS	
4492	*01:01:01	*15:01:01	5*01:01	*01:01:01	*01:02:01	*05:01:01	*06:02:01	*01:03	*02:01	*11:01:01	*16:01:01	SSP SSO NGS	DPA1*01:13
5130	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02			*11:01	*16:01	SSP SSO NGS	
5133	*01:01:01	*15:01:01	5*01:01:01	*01:01:01	*01:02:01	*05:01:01	*06:02:01	*01:03:01	*02:01:01	*11:01:01	*16:01:01	NGS	
5451	*01:01:01	*15:01:01										SSP SSO SBT	
5488	*01:01:01	*15:01:01	5*01:01:01	*01:01:01	*01:02:01	*05:01:01	*06:02:01	*01:03:01	*02:01:01	*11:01:01	*16:01:01	SSO NGS	
5642	*01:01	*15:01				*05:01	*06:02					SSP	DRB1*01:11:02
8001	*01:01	*15:01	5*01:01			*05:01	*06:02			*11:01	*16:01	SSP SSO	
8021	*01:01	*15:01	5*01:01	*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSO NGS	
8029	*01:01	*15:01				*05:01	*06:02					SSO NGS	
8042	*01:01	*15:01				*05:01	*06:02						
8043	*01:01	*15:01		*01:01	*01:02	*05:01	*06:02					SSP SSO	

Table 3b: Individual laboratory results for B-cell #553-Class II

High resolution													
Center	DRB1		DRB3/4/5	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
8070	*01:01	*15:01				*05:01	*06:02					SBT	
8086	*01:01	*15:01		*01:01	*01:02	*05:01	*06:02	*01:03	*02:01	*11:01	*16:01	SSO SBT	

Table 4: Individual laboratory results for B-cell #553-Class II

Serology							
CTR	DRB1		DRB3/4/5		DQB1		Others
910	DR1	DR15	DR51			DQ1	

Table 5: Individual laboratory results for B-cell #553-Class I

Table 5: Individual laboratory results for B-cell #553-Class I														
Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*02	*03	*07	*44	*05	*07							RT-PCR	
206	*02	*03	*07	*44	*05	*07								
230							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO SBT	
278	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02		
725	*02	*03	*07	*44	*05	*07							SSP SSO	
731													SSP SSO SBT	
735	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02P	*44:02P	*05:01P	*07:02P	SSP SSO SBT	
747	*02	*03	*07	*44	*05	*07	*02:13	*03:01:01:01	*07:02:01:01	*44:02:01:01	*05:01:01:02	*07:02:01:03	SSP SSO SBT	
774	*02	*03	*07	*44	*05	*07	*02:13						SSP SSO	A*02:27
779	*02	*03	*07	*44	*05	*07	*02:13						SSP SSO	
792	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO SBT	A*03:01:01:02N B*44:02:01:02S
793	*02	*03	*07	*44	*05	*07							SSP	
794	*02	*03	*07	*44	*05	*07	*02:13	*03:01:01	*07:02:01	*44:02:01	*05:01:01	*07:02:01	SSP SSO NGS RT-PCR	
2344							*02:13	*03:01:01:01	*07:02:01	*44:02:01:01	*05:01:01:02	*07:02:01:03	NGS	
2400	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSP SSO SBT	
2847	*02	*03	*07	*44	*05	*07							SSO	
3135							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02		
3224	*02	*03	*07	*44	*05	*07							SSO	
3511	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSP SSO	
3519	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSP NGS	
3753							*02:13	*03:01:01	*07:02:01	*44:02:01	*05:01:01	*07:02:01	NGS	
3966	*02	*03	*07	*44	*05	*07							SSP	
4251	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO NGS	
4337							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SBT NGS	
4492	*02	*03	*07	*44	*05	*07	*02:13	*03:01:01:01	*07:02:01:01	*44:02:01:01	*05:01:01:02	*07:02:01	SSP SSO NGS	
5130	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSP SSO NGS	
5133							*02:13	*03:01:01:01	*07:02:01	*44:02:01	*05:01:01:02	*07:02:01:03	NGS	
5214	*02	*03	*07	*44	*05	*07							SSO	
5219	*02	*03	*07	*44	*05	*07							SSO	
5462	*02	*03	*07	*44	*05	*07							SSO RT-PCR	
5488							*02:13	*03:01:01	*07:02:01	*44:02:01	*05:01:01	*07:02:01	SSO NGS	
8021							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO NGS	
8029	*02	*03	*07	*44	*05	*07	*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO NGS	
8042							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02		
8068	*02	*03	*07	*44	*05	*07							SSO	
8086							*02:13	*03:01	*07:02	*44:02	*05:01	*07:02	SSO SBT	
9916	*02	*03	*07	*44	*05	*07							SSP	

Table 6a: Individual laboratory results for B-cell #554-Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04(DP402)	*04(DP402)	RT-PCR	
206	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04			
278	*08	*14	3*01	NT	*04	*05	*03	*04	*01	*01	*04	*04		
725	*08	*14	3*PRESENT		*04	*05	*03	*04					SSP SSO	
731	*08	*14			*04	*05	*03	*04					SSP SSO SBT	
735	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04(DP402)	*04(DP402)	SSP SSO SBT	
747	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04	*04	SSP SSO SBT	
771	*08	*14			*04	*05	*03	*04					SSP SSO	
774	*08	*14	3*01		*04	*05	*03	*04			*04		SSP SSO	
779	*08	*14	3*01		*04	*05	*03	*04	*01		*04(DP402)		SSP SSO	
792	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04	*04	SSO SBT	
793	*08	*14	3*01		*04	*05	*03	*04			*04(DP402)		SSP	
794	*08	*14	3*01		*04	*05	*03	*04	*01		*04		SSP SSO NGS	
2400	*08	*14	3*01		*04	*05	*03	*04			*04		RT-PCR	
2847	*08	*14											SSP SSO SBT	
3224	*08	*14	3*01										SSO	
3511	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04(DP402)	*04(DP402)	SSO	
3519	*08	*14			*04	*05	*03	*04	*01		*04(DP402)		SSP SSO	
3632	*08	*14	3*01		*04	*05	*03	*04	*01		*04		SSP NGS	
3966													SSP SSO	
4079	*08	*14					*03	*04					SSP	
4251	*08	*14	3*01		*04	*05	*03	*04	*01	*01	*04(DP402)	*04(DP402)	SSP SSO NGS	
4492	*08	*14	3*PRESENT		*04	*05	*03	*04	*01		*04(DP402)		SSO NGS	
5130	*08	*14	3*01		*04	*05	*03	*04			*04	*04	SSP SSO NGS	
5214	*08	*14	3*01		*04	*05	*03 (DQ7)	*04	*01		*04(DP402)		SSO	
5219	*08	*14			*04	*05	*03	*04					SSO	
5451	*08	*14	3*01		*04	*05	*03	*04					SSP SSO SBT	
5462	*08	*14	3*01	NP	*04	*05	*03	*04	*01		NT	NT	SSO RT-PCR	
5642	*08	*14	3*PRESENT				*03	*04					SSP	
6649	*08	*14	3*PRESENT										SSO	
8001	*08	*14	3*PRESENT		*04	*05	*03	*04					SSP SSO	
8029	*08	*14			*04	*05	*03	*04					SSO NGS	
8043	*08	*14			*04	*05	*03	*04					SSP SSO	
8068	*08	*14					*03	*04					SSO	
9916	*08	*14	3*PRESENT				*03	*04					SSP	

Table 6b: Individual laboratory results for B-cell #554-Class II

High resolution														
Center	DRB1		DRB3/4/5	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
230	*08:02	*14:02				*03:01	*04:02			*04:02		SSO SBT		
278	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03	*01:03	*04:02	*04:02			
731	*08:02	*14:02				*03:01	*04:02					SSP SSO SBT		
735	*08:02	*14:02	3*01:01P	*04:01	*05:03	*03:01	*04:02	*01:03P	*01:03P	*04:02	*04:02	SSP SSO SBT		
747	*08:02:01	*14:02:01	3*01:01:02:01	*04:01:01	*05:03	*03:01:01:01	*04:02:01	*01:03:01:05	*01:03:01:05	*04:02:01:02	*04:02:01:02	SSP SSO SBT	DQB1*03:01:01:03 DQA1*04:01:02:02 DQA1*05:07 DQA1*04:01:02:01	
762	*08:02	*14:02	3*01:01:02:01	*04:01	*05:03:01:01	*03:01:01:01	*04:02	*01:03:01:05		*04:02:01:02		NGS		
771	*08:02	*14:02				*03:01	*04:02					SSP SSO		
774	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02			*04:02		SSP SSO	DQB1*03:73 DQB1*04:11 DQB1*04:13 DQB1*03:92 DQB1*03:93 DQB1*04:23	
779				*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSP SSO		
792	*08:02	*14:02				*03:01	*04:02			*04:02	*04:02	SSO SBT		
793				*04:01	*05:03					*04:02		SSP		
794	*08:02:01	*14:02:01	3*01:01:02	*04:01	*05:03	*03:01:01	*04:02	*01:03		*04:02:01		SSP SSO NGS RT-PCR		
2344	*08:02:01	*14:02:01	3*01:01:02	*04:01:01	*05:03	*03:01:01	*04:02:01	*01:03:01:05	*01:03:01:05	*04:02:01:01	*04:02:01:01	NGS	DPB1*04:02:01:02 DPB1*04:02:01:02	
2400	*08:02	*14:02		*04:01	*05:03	*03:01	*04:02			*04:02P		SSP SSO SBT		
3135	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03		*04:02				
3511	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03	*01:03	*04:02	*04:02	SSP SSO		
3519	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03	*01:03	*04:02		SSP NGS		
3632	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSP SSO		
3753	*08:02:01	*14:02:01	3*01:01:02	*04:01:01	*05:03:01	*03:01:01	*04:02:01	*01:03:01	*01:03:01	*04:02:01	*04:02:01	NGS		
3966	*08:02	*14:02	3*01:01			*03:01	*04:02					SSP		
4079	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSP SSO NGS		
4251	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03:01G	*01:03:01G	*04:02	*04:02	SSO NGS		
4337	*08:02	*14:02				*03:01	*04:02			*04:02	*04:02	SBT NGS		
4492	*08:02:01	*14:02:01	3*01:01	*04:01:01	*05:03:01	*03:01:01	*04:02:01	*01:03	*01:03	*04:02:01		SSP SSO NGS	DPA1*01:13	
5130	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02			*04:02	*04:02	SSP SSO NGS		
5133	*08:02:01	*14:02:01	3*01:01:02	*04:01:01	*05:03:01	*03:01:01	*04:02:01	*01:03:01		*04:02:01		NGS		
5451	*08:02:01	*14:02:01										SSP SSO SBT		
5488	*08:02:01	*14:02:01	3*01:01	*04:01:01	*05:03:01	*03:01:01	*04:02:01	*01:03:01		*04:02:01		SSO NGS		
5642	*08:02	*14:02				*03:01	*04:02					SSP		
8001	*08:02	*14:02	3*01:01			*03:01	*04:02			*04:02		SSP SSO		
8021	*08:02	*14:02	3*01:01	*04:01	*05:03	*03:01	*04:02	*01:03		*04:02		SSO NGS		
8029						*03:01	*04:02					SSO NGS		
8042	*08:02	*14:02				*03:01	*04:02							
8043	*08:02	*14:02		*04:01	*05:03	*03:01	*04:02					SSP SSO		
8070	*08:02	*14:02				*03:01	*04:02					SBT		
8086	*08:02	*14:02		*04:01	*05:03	*03:01	*04:02	*01:03	*01:03	*04:02	*04:02	SSO SBT		

Table 7: Individual laboratory results for B-cell #554-Class II

Serology									
CTR	DRB1		DRB3/4/5			DQB1		Others	
910	DR8	DR17	DR52			DQ7	DQ4	DR18	

Table 8: Individual laboratory results for B-cell #554-Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*02	*24	*40	*40	*03	*03							RT-PCR	
206	*02	*24	*40		*03	*03								
230							*02:11	*24:53	*40:04			*03:04		SSO SBT
278	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		
725	*02	*24	*40		*03									SSP SSO
735	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04P	*03:04P		SSP SSO SBT
747	*02	*24	*40	*40	*03	*03	*02:11:01	*24:53	*40:04	*40:04	*03:04:01:02	*03:04:01:02		SSP SSO SBT
774	*02	*24	*40		*03		*02:11		*40:04					SSP SSO
779	*02	*24	*40		*03		*02:11		*40:04		*03:04			SSP SSO
792	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSO SBT
793	*02	*24	*40		*03									SSP
794	*02	*24	*40		*03		*02:11:01	*24:53	*40:04		*03:04:01			SSP SSO NGS RT-PCR
2344							*02:11:01	*24:53	*40:04	*40:04	*03:04:01:02	*03:04:01:02		NGS
2400	*02	*24	*40		*03		*02:11	*24:53	*40:04		*03:04			SSP SSO SBT
2847	*02	*24	*40		*03									SSO
3135							*02:11	*24:53	*40:04		*03:04			
3224	*02	*24	*40		*03									SSO
3511	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSP SSO
3519	*02	*24	*40		*03		*02:11	*24:53	*40:04		*03:04			SSP NGS
3753							*02:11:01	*24:53	*40:04	*40:04	*03:04:01	*03:04:01		NGS
3966	*02	*24	*40	*40	*03	*03								SSP
4251	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSO NGS
4337							*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SBT NGS
4492	*02	*24	*40		*03		*02:11:01	*24:53	*40:04		*03:04:01:02			SSP SSO NGS
5130	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSP SSO NGS
5133							*02:11:01	*24:53	*40:04		*03:04:01:02			NGS
5214	*02	*24	*40 (B61)		*03 (Cw10)									SSO
5219	*02	*24	*40	*40	*03	*03								SSO
5462	*02	*24	*40		*03									SSO RT-PCR
5488							*02:11:01	*24:53	*40:04		*03:04:01			SSO NGS
8021							*02:11	*24:53	*40:04		*03:04			SSO NGS
8029	*02	*24	*40	*40	*03	*03	*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSO NGS
8042							*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		
8068	*02	*24	*40	*40	*03	*03								SSO
8086							*02:11	*24:53	*40:04	*40:04	*03:04	*03:04		SSO SBT
9916	*02	*24	*40		*03									SSP