

## B-cell Line Exchange #278 NOVEMBER 26, 2018

B-cell Lines 555-556

The results for B-cell Line Exchange #278 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are most grateful to the generosity of **Welsh Blood Service, Pontyclun Wales** for sharing their valuable reference cells with us.

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-555.** The consensus type for this sample from a Caucasian donor is DRB1\*08:16-DRB1\*13:01-DRB3\*01:01-DQA1\*01:03-DQA1\*04:01-DQB1\*04:02-DQB1\*06:03-DPA1\*01:03-DPB1\*02:01-DPB1\*04:01/A\*02:01-B\*40:02-B\*44:02-C\*02:02-C\*05:01. One likely association present in this cell is DRB1\*13:01-DQB1\*06:03-B\*44:02-C\*05:01, observed in Caucasians, with HF=0.00896. The other likely association present may then be DRB1\*08:16-DQB1\*04:02-B\*40:02-C\*02:02. The association of DRB1\*08:16-DQB1\*04:02 was observed in cell ML0273, a reference cell for DRB1\*08:16.

Ter-553 is listed in the IMGT database as cell 24131. As with ML0273, it is a reference cell for DRB1\*08:16. It was previously examined in the Exchange as Ter-474 (2012), Ter-443 (2010), Ter-369 (2005), and extract 561 (2013). We congratulate Rao for correctly identifying this cell as being previously examined. In this present retyping, the rare DRB1\*08:16 allele was assigned by 97% of labs reporting at high resolution. DRB1\*13:01 (100%) was reported as the second DRB1 type, with 10 labs assigning DRB1\*13:01:01. DQA1\*01:03, DQA1\*04:01, DQB1\*04:02, and DQB1\*06:03 were all assigned in complete consensus, with 6 labs assigning DQA1\*01:03:01, DQA1\*04:01:01, DQB1\*04:02:01, and 9 labs assigning DQB1\*06:03:01. DPA1\*01:03 (100%), DPB1\*02:01 (100%), and DPB1\*04:01 (100%) were the assigned DP types. The class I types for this sample were each reported in complete consensus as A\*02:01, B\*40:02, B\*44:02, C\*02:02, and C\*05:01. A\*02:01:01, B\*44:02:01, C\*02:02:02, and C\*05:01:01 were each assigned by 8 labs, and B\*40:02:01 was assigned by 7 labs.

**Ter-556.** The consensus type for this sample from a Caucasian donor is DRB1\*08:10-DRB1\*15:01-DRB5\*01:01-DQA1\*01:02-DQA1\*06:01-DQB1\*03:01-DQB1\*06:02-DPA1\*01:03-DPB1\*04:01/A\*11:01-A\*32:01-B\*07:02-B\*35:01-C\*04:01-C\*07:02. One likely association present in this cell is DRB1\*15:01-DQB1\*06:02-B\*07:02-C\*07:02, commonly observed across all populations, with HF=0.08091, in Caucasians. The other likely association present is DRB1\*08:10-DQB1\*03:01-B\*35:01-C\*04:01. Interestingly, this rare association is observed exclusively in Hispanics, with HF=0.00047.

This cell is listed in the IMGT database as cell 38658. It is a reference cell for DRB1\*08:10, and was previously examined in the Exchange as Ter-468 (2012), Ter-398 (2007), and Ter-362 (2005), as astutely noted by Rao. In this present study, DRB1\*08:10 was assigned by 100% of labs reporting at high resolution. DRB1\*15:01 (100%) was assigned as the second DRB1 type, with 10 labs assigning DRB1\*15:01:01. DQA1\*01:02 (100%), DQA1\*06:01 (100%), DQB1\*03:01 (100%), and DQB1\*06:02 (97%) were the assigned DQ types. DQA1\*01:02:01 and DQA1\*06:01:01 were each assigned by 6 labs. DQB1\*03:01:01 was assigned by 8 labs, and DQB1\*06:02:02 was assigned by 11 labs. DPA1\*01:03 and DPB1\*04:01 were reported in complete consensus as the assigned DP types, with 5 labs reporting DPA1\*01:03:01 and 8 labs assigning DPB1\*04:01:01. A\*11:01, A\*32:01, B\*07:02, B\*35:01, C\*04:01, and C\*07:02 were reported by 100% as the class I types, with A\*11:01:01 and A\*32:01:01 assigned by 8 labs, B\*07:02:01 and B\*35:01:01 assigned by 7 labs, and C\*04:01:01 and C\*07:02:01 assigned by 9 labs.

**NEXT MAILING DATE: February 6, 2019**

*Happy Holidays!*

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







**Table 3a: Individual laboratory results for B-cell #555-Class II**

Center	Low resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
87	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
206	*08	*13	3*01		*01	*06	*04	*06	*01	*01	*02	*04	SSO	
278	*08	*13	3*01	NT	*01	*04	*04	*06	*01	*01	*02	*04		
725	*08	*13	3*PRESENT		*01	*04	*04	*06					SSP SSO	
731	*08	*13			*01	*04	*04	*06					SSP SSO SBT	
735	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP SSO SBT	
747	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02	*04	SSP SSO NGS	
771	*08	*13			*01	*04	*04	*06					SSP SSO	
774	*08	*13	3*01		*01	*04	*04	*06			*02(DP201)	*04(DP401)	SSP SSO	
779	*08	*13	3*01		*01	*04	*04	*06	*01		*02	*04	SSP SSO	
792	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02	*04	SSO SBT	
793	*08	*13	3*01		*01	*04	*04	*06			*02(DP201)	*04(DP401)	SSP	
794	*08	*13	3*01	NP	*01	*04	*04	*06	*01		*02	*04	SSP SSO NGS	
2400	*08	*13	3*01		*01	*04	*04	*06			*02	*04	RT-PCR	
2847	*08	*13											SSP SSO SBT	
3224	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	SSO	
3519	*08	*13			*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	RT-PCR	
3632	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP NGS	
3966													SSP SSO	
4079	*08	*13	NT	NT	*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP	
4251	*08	*13	3*01		*01	*04	*04	*06	*01	*01	*02(DP201)	*04(DP401)	SSP SSO NGS	
4492	*08	*13	3*PRESENT		*01	*04	*04	*06	*01		*02	*04(DP401)	SSO NGS	
5130	*08	*13	3*01		*01	*04	*04	*06			*02	*04	SSP SSO NGS	
5214	*08	*13	3*01		*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSO NGS	
5219	*08	*13			*01	*04	*04	*06					SSO	
5451	*08	*13	3*01		*01	*04	*04	*06					SSO	
5462	*08	*13	3*01	NP	*01	*04	*04	*06	*01		*02(DP201)	*04(DP401)	SSP SSO SBT	
5642	*08	*13	3*PRESENT				*04	*06					SSP SSO	
6649	*08	*13											SSP	
8001	*08	*13	3*01		*01	*04	*04	*06					SSO	
8029	*08	*13			*01	*04	*04	*06					SSP SSO	
8042	*08	*13					*04	*06					SSO NGS	
8043	*08	*13			*01	*04	*04	*06						
8068	*08	*13			*01	*04	*04	*06					SSP SSO	
													SSO	

**Table 3b: Individual laboratory results for B-cell #555-Class II**

Center	High resolution											METHOD	Other Alleles	
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SSO SBT	
278	*08:16	*13:01	3*01:01	NT	*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01		
731	*08:16	*13:01					*04:02	*06:03					SSP SSO SBT	
735	*08:16	*13:01	3*01:01P		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO SBT	DQA1*01:10 DPA1*01:13
747	*08:16	*13:01:01	3*01:01:02		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:02	SSP SSO NGS	
762	*08:16	*13:01:01	3*01:01:02		*01:03:01:02	*04:01:01	*04:02:01	*06:03:01:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS	
771	*08:16	*13:01					*04:02	*06:03					SSP SSO	
														DRB1*13:141 DRB1*13:138 DRB1*13:148 DRB1*13:153 DRB1*13:166 DRB1*13:173 DRB1*13:186 DRB1*13:187 DQB1*04:11 DQB1*04:13 DQB1*04:23
774	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03			*02:01	*04:01	SSP SSO	
779					*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO	
792	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SSO SBT	
793					*01:03	*04:01					*02:01	*04:01	SSP	
794	*08:16	*13:01:01	3*01:01:02	NP	*01:03	*04:01	*04:02	*06:03:01	*01:03		*02:01:02	*04:01:01	SSP SSO NGS RT-PCR	
2344	*08:16	*13:01:01G					*04:02:01G	*06:03:01			*02:01:02G	*04:01:01G	NGS	
2400	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03			*02:01:02G	*04:01:01G	SSP SSO SBT	
3135	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01		
3511	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSP SSO	
3519	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP NGS	
3632	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO	
3753	*08:16	*13:01:01	3*01:01:02	NP	*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS	
3966	*08:16	*13:01	3*01:01				*04:02	*06:03					SSP	
4079	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSP SSO NGS	
4251	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSO NGS	
4337	*08:16	*13:01					*04:02	*06:03			*02:01	*04:01	SBT NGS	
4492	*08:16	*13:01:01	3*01:01		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
														DRB3*01:11 DRB3*01:13 DRB1*08:01
5130	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03			*02:01	*04:01	SSO NGS	
5133	*08:16	*13:01:01	3*01:01:02	NP	*01:03:01:02	*04:01:01	*04:02:01	*06:03:01	*01:03:01		*02:01:02	*04:01:01	NGS	
5214						*04:01						*04:01:01G	SSO	
5451	*08:16	*13:01:01											SSP SSO SBT	

**Table 3b: Individual laboratory results for B-cell #555-Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5462	NT	NT	NP	NT	NT	NT	NT	NT	NT	NT	*02:01	*04:01	SSP SSO	DPB1*640:01 DPB1*678:01 DPB1*681:01 DPB1*685:01 DPB1*692:01 DPB1*700:01N DPB1*643:01 DPB1*658:01 DPB1*670:01 DPB1*677:01 DPB1*682:01 DPB1*683:01 DPB1*696:01N
5488	*08:16	*13:01:01	3*01:01:02		*01:03:01	*04:01:01	*04:02:01	*06:03:01	*01:03:01		*02:01:02	*04:01:01	SSO NGS	
5642	*08:16	*13:01					*04:02	*06:03					SSP	
8001	*08:16	*13:01	3*01:01:01G				*04:02	*06:03			*02:01	*04:01	SSP SSO	
8021	*08:16	*13:01	3*01:01		*01:03	*04:01	*04:02	*06:03	*01:03		*02:01	*04:01	SSO NGS	
8029	*08:16	*13:01:01					*04:02:01G	*06:03:01					SSO NGS	
8043	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03					SSP SSO	
8070	*15:13	*13:01					*04:02	*06:03					SBT	
8086	*08:16	*13:01			*01:03	*04:01	*04:02	*06:03	*01:03	*01:03	*02:01	*04:01	SSO SBT	
9916	*08:16	*13:01:01	3*01:01				*04:02	*06:03			*02:01	*04:01	SBT	

**Table 4: Individual laboratory results for B-cell #555-Class II**

Serology										
CTR	DRB1		DRB3/4/5		DQB1			Others		
910	DR8	DR18	DR52				DQ4	DQ1	DR13	

**Table 5: Individual laboratory results for B-cell #555-Class I**

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*02	*02	*40	*44	*02	*05							RT-PCR	
206	*02	*02	*40	*44	*02	*05							SSO	
230							*02:01		*40:02	*44:02	*02:02	*05:01	SSO SBT	
278	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01		
725	*02		*40	*44	*02	*05							SSP SSO	
735	*02		*40	*44	*02	*05	*02:01P		*40:02P	*44:02P	*02:02	*05:01P	SSP SSO SBT	
747	*02	*02	*40	*44	*02	*05	*02:01:01:01	*02:01:01:01	*40:02:01	*44:02:01:01	*02:02:02	*05:01:01:02	SSP SSO NGS	
774	*02		*40	*44	*02	*05							SSP SSO	
779	*02		*40	*44	*02	*05							SSP SSO	
792	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO SBT	A*02:01:01:02L B*44:02:01:02S
793	*02		*40	*44	*02	*05							SSP	
794	*02		*40	*44	*02	*05	*02:01:01		*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSP SSO NGS RT-PCR	
2344							*02:01:01:01	*02:01:01:01	*40:02:01G	*44:02:01:01	*02:02:02:01	*05:01:01:02	NGS	
2400	*02		*40	*44	*02	*05	*02:01		*40:02	*44:02	*02:02	*05:01	SSP SSO SBT	B*40:356
2847	*02		*40	*44	*02	*05							SSO	
3135							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01		A*02:01L
3224	*02	*02	*40	*44	*02	*05							RT-PCR	
3511							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSP SSO	
3519	*02		*40	*44	*02	*05	*02:01		*40:02	*44:02	*02:02	*05:01	SSP NGS	
3753							*02:01:01	*02:01:01	*40:02:01	*44:02:01	*02:02:02	*05:01:01	NGS	
3966	*02	*02	*40	*44	*02	*05							SSP	
4079	NT	NT	NT	NT	NT	NT	*02:01		*40:02	*44:02	*02:02	*05:01	SSP SSO NGS	
4251	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO NGS	
4337							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SBT NGS	
4492	*02		*40	*44	*02	*05	*02:01:01	*02:01:01	*40:02:01	*44:02:01:01	*02:02:02:01	*05:01:01:02	SSP SSO NGS	
5130	*02	*02	*40	*44	*02	*05	*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO NGS	B*40:219
5133							*02:01:01		*40:02:01	*44:02:01:01	*02:02:02:01	*05:01:01	NGS	
5214	*02		*40 (B61)	*44	*02	*05							SSO	
5219	*02	*02	*40	*44	*02	*05							SSP SSO	
5462	*02		*40	*44	*02	*05	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*02:01:01		*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSO NGS	
8021							*02:01		*40:02	*44:02	*02:02	*05:01	SSO NGS	
8029	*02	*02	*40	*44	*02	*05	*02:01:01	*02:01:01	*40:02:01	*44:02:01	*02:02:02	*05:01:01	SSO NGS	
8042	*02		*40	*44	*02	*05								
8068	*02	*02	*40	*44	*02	*05							SSO	
8086							*02:01	*02:01	*40:02	*44:02	*02:02	*05:01	SSO SBT	
9916							*02:01		*40:02	*44:02	*02:02	*05:01	SBT	A*02:665 A*02:686 A*02:689 B*40:303 B*40:356 C*02:26 C*02:08 C*05:26 C*05:58

**Table 6a: Individual laboratory results for B-cell #556-Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
87	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	RT-PCR	
206	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04		SSO	
278	*08	*15	5*01	NT	*01	*06	*03	*06	*01	*01	*04	*04		
725	*08	*15	5*PRESENT		*01	*06	*03	*06					SSP SSO	
731	*08	*15			*01	*06	*03	*06					SSP SSO SBT	
735	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSP SSO SBT	
747	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04	*04	SSP SSO NGS	
771	*08	*15			*01	*06	*03	*06					SSP SSO	
774	*08	*15	5*01		*01	*06	*03	*06			*04(DP401)		SSP SSO	
779	*08	*15	5*01		*01	*06	*03	*06	*01		*04		SSP SSO	
792	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04	*04	SSO SBT	
793	*08	*15	5*01		*01	*06	*03	*06			*04(DP401)		SSP	
794	*08	*15	5*01	NP	*01	*06	*03	*06	*01		*04		SSP SSO NGS	
2400	*08	*15	5*01		*01	*06	*03	*06			*04		RT-PCR	
2847	*08	*15											SSP SSO SBT	
3224	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSO	
3519	*08	*15			*01	*06	*03	*06	*01		*04(DP401)		RT-PCR	
3632	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSP NGS	
3966													SSP SSO	
4079	*08	*15	NT	NT	*01	*06	*03	*06	*01		*04(DP401)		SSP	
4251	*08	*15	5*01		*01	*06	*03	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO NGS	
4492	*08	*15	5*PRESENT		*01	*06	*03	*06	*01		*04(DP401)		SSO NGS	
5130	*08	*15	5*01		*01	*06	*03	*06			*04	*04	SSP SSO NGS	
5214	*08	*15	5*01		*01	*06	*03	*06	*01		*04(DP401)		SSO NGS	
5219	*08	*15			*01	*06	*03	*06					SSO	
5451	*08	*15	5*01		*01	*06	*03	*06					SSP SSO SBT	
5462	*08	*15	NP	5*01	*01	*06	*03	*06	*01		*04(DP401)		SSO	
5642	*08	*15	5*PRESENT				*03	*06					SSP	
6649	*08	*15											SSO	
8001	*08	*15	5*01		*01	*06	*03	*06					SSP SSO	
8029	*08	*15			*01	*06	*03	*06					SSO NGS	
8042	*08	*15					*03	*06						
8043	*08	*15			*01	*06	*03	*06	*01		*04		SSP SSO	
8068	*08	*15			*01	*06	*03	*06					SSO	



**Table 6b: Individual laboratory results for B-cell #556-Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:10	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
278	*08:10	*15:01	5*01:01	NT	*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01		
731	*08:10	*15:01					*03:01	*06:02:02					SSP SSO SBT	
735	*08:10	*15:01	5*01:01P		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO SBT	DPA1*01:13
747	*08:10	*15:01:01:01	5*01:01:01		*01:02:01:01	*06:01:01	*03:01:01:03	*06:02:02	*01:03:01:04	*01:03:01:04	*04:01:01:01	*04:01:01:01	SSP SSO NGS	
762	*08:10	*15:01:01:01	5*01:01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01:04		*04:01:01		NGS	
771	*08:10	*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 DRB5*01:17 DQB1*03:92 DQB1*03:93
774	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02			*04:01		SSP SSO	
779	*08:10				*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO	
792	*08:10	*15:01					*03:01	*06:02			*04:01	*04:01	SSO SBT	
793					*01:02	*06:01					*04:01		SSP	
794	*08:10	*15:01:01	5*01:01:01	NP	*01:02	*06:01	*03:01:01	*06:02:02	*01:03		*04:01:01		SSP SSO NGS RT-PCR	
2344	*08:10	*15:01:01G					*03:01:01G	*06:02:02			*04:01:01G	*04:01:01G	NGS	
2400	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02			*04:01P		SSP SSO SBT	
3135	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01		
3511	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01	*04:01	SSP NGS	
3632	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO	
3753	*08:10	*15:01:01	5*01:01:01	NP	*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01	*01:03:01	*04:01:01	*04:01:01	NGS	
3966	*08:10	*15:01	5*01:01				*03:01	*06:02					SSP	
4079	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO NGS	
4251	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*08:10	*15:01					*03:01	*06:02:02			*04:01	*04:01	SBT NGS	
4492	*08:10	*15:01:01	5*01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03	*01:03	*04:01:01	*04:01:01	SSP SSO NGS	DPA1*01:13
5214						*06:01					*04:01:01G		SSO	
5130	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02			*04:01	*04:01	SSO NGS	
5133	*08:10	*15:01:01	5*01:01:01	NP	*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01		*04:01:01		NGS	
5451	*08:10	*15:01:01											SSP SSO SBT	

**Table 6b: Individual laboratory results for B-cell #556-Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5462	NT	NT	NP	NT	NT	NT	NT	NT	NT	NT	*04:01		SSP SSO	DPB1*642:01 DPB1*643:01 DPB1*670:01 DPB1*677:01 DPB1*679:01 DPB1*682:01 DPB1*683:01 DPB1*686:01 DPB1*696:01N DPB1*658:01
5488	*08:10	*15:01:01	5*01:01:01		*01:02:01	*06:01:01	*03:01:01	*06:02:02	*01:03:01		*04:01:01		SSO NGS	
5642	*08:10	*15:01					*03:01	*06:02					SSP	
8001	*08:10	*15:01	5*01:01:01G				*03:01	*06:02			*04:01		SSP SSO	
8021	*08:10	*15:01	5*01:01		*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSO NGS	
8029	*08:10	*15:01:01					*03:01:01	*06:02:02					SSO NGS	
8043	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02	*01:03		*04:01		SSP SSO	
8070	*08:10	*15:01					*03:01	*06:02					SBT	
8086	*08:10	*15:01			*01:02	*06:01	*03:01	*06:02	*01:03	*01:03	*04:01	*04:01	SSO SBT	
9916	*08:10	*15:01:01	5*01:01				*03:01	NEW			*04:01:01		SBT	DQB1*03:29

**Table 7: Individual laboratory results for B-cell #556-Class II**

Serology									
CTR	DRB1		DRB3/4/5		DQB1		Others		
910	DR8	DR15	DR51			DQ7	DQ1		

**Table 8: Individual laboratory results for B-cell #556-Class I**

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
87	*11	*32	*07	*35	*04	*07							RT-PCR	
206	*11	*32	*07	*35	*04	*07							SSO	
230							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
278	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02		
725	*11	*32	*07	*35	*04	*07							SSP SSO	
735	*11	*32	*07	*35	*04	*07	*11:01P	*32:01P	*07:02P	*35:01P	*04:01P	*07:02P	SSP SSO SBT	
747	*11	*32	*07	*35	*04	*07	*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01:05	*04:01:01:05	*07:02:01:03	SSP SSO NGS	
774	*11	*32	*07	*35	*04	*07							SSP SSO	
779	*11	*32	*07	*35	*04	*07							SSP SSO	
792	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
793	*11	*32	*07	*35	*04	*07							SSP	
794	*11	*32	*07	*35	*04	*07	*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS	
2344							*11:01:01:01	*32:01:01:01	*07:02:01G	*35:01:01G	*04:01:01:05	*07:02:01:03	RT-PCR	
2400	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	NGS	
2847	*11	*32	*07	*35	*04	*07							SSP SSO SBT	
3135							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO	C*04:09N
3224	*11	*32	*07	*35	*04	*07							RT-PCR	
3511							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP SSO	
3519	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP NGS	
3753							*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	NGS	
3966	*11	*32	*07	*35	*04	*07							SSP	
4079	NT	NT	NT	NT	NT	NT	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSP SSO NGS	
4251	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
4337							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SBT NGS	
4492	*11	*32	*07	*35	*04	*07	*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01	*04:01:01	*07:02:01	SSP SSO NGS	
5130	*11	*32	*07	*35	*04	*07	*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
5133							*11:01:01:01	*32:01:01:01	*07:02:01:01	*35:01:01:05	*04:01:01:05	*07:02:01:03	NGS	
5214	*11	*32	*07	*35	*04	*07							SSO	
5219	*11	*32	*07	*35	*04	*07							SSO	
5462	*11	*32	*07	*35	*04	*07	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8021							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO NGS	
8029	*11	*32	*07	*35	*04	*07	*11:01:01	*32:01:01	*07:02:01	*35:01:01	*04:01:01	*07:02:01	SSO NGS	
8042	*11	*32	*07	*35	*04	*07								
8068	*11	*32	*07	*35	*04	*07							SSO	
8086							*11:01	*32:01	*07:02	*35:01	*04:01	*07:02	SSO SBT	
9916							*11:01	*32:01	*07:02	*35:01	*04:01:01	*07:02:01	SBT	A*11:263 B*35:332