

B-CELL LINE EXCHANGE #281

B-cell Lines 561-562

MAY 8, 2019

The results for B-cell Line Exchange #281 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would 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-561. The consensus type for this cell from a Caucasian donor is DRB1*04:01-DRB1*13:01-DRB3*02:02-DRB4*01:03-DQA1*01:03-DQA1*03:03-DQB1*03:01-DQB1*06:03-DPA1*01:03-DPA1*02:07-DPB1*04:01-DPB1*19:01/A*02:01-A*23:01-B*44:09-B*44:13-C*04:01-C*05:01. One likely association present in this cell is A*02:01-B*44:09-DRB1*04:01-DQB1*03:01. This rare association is observed exclusively in Caucasians, with HF = 0.00006. The other association present is then likely A*23:01-B*44:13-DRB1*13:01-DQB1*06:03.

This cell is AMI005AN, one of the reference cells for B*44:13. It was typed several times in the Cell Exchange as extracts 573 (2013), 549 (2012), 271 (2003), and 202 (2002). In this present typing, B*44:13 was reported by 95% of labs reporting at high resolution. B*44:09 (100%) was reported as the second B-locus type. For DPA1, good agreement was achieved for DPA1*01:03 (100%), with 4 labs assigning DPA1*01:03:01. However, no agreement was achieved for the second DPA1 type, as DPA1*02:07 (67%), DPA1*02:02 (20%), and DPA1*02:01 (13%) were assigned. DPA1*02:07 differs from DPA1*02:01 in exon 3 by a single nucleotide substitution at codon 91 (GTG → ATG), resulting in an amino acid change from valine to methionine. DPA1*02:07, on the other hand, differs from DPA1*02:02, in exon 2 by a single nucleotide substitution at codon 37 (GAC → GAT), which results in a synonymous substitution. As agreement for DPA1*02:07 was < 90%, it was not graded.

Ter-562. The consensus type for this cell from a Caucasian donor is DRB1*13:02-DRB1*15:01-DRB3*03:01-DRB5*01:01-DQA1*01:02-DQB1*06:02-DQB1*06:04-DPA1*01:03-DPB1*04:01/A*02:01-A*24:02-B*07:02-B*44:27-C*07:02-C*07:04. One likely association present in this cell is A*02:01-B*44:27-C*07:04-DRB1*15:01-DQB1*06:02, observed in DKMS-LSL-B-1201, one of the reference cells for B*44:27. The other likely association present is A*24:02-B*07:02-C*07:02-DRB1*13:02-DQB1*06:04. The association of DRB1*13:02-DQB1*06:04 in this cell, is observed across all populations, with HF = 0.03208, in Caucasians.

This cell is FH48, one of reference cells for B*44:27. It was studied in the workshops as IHW#9436 and in the Cell Exchange as extracts 449 (2009), 299 (2004), and 222 (2002). In this most recent study, B*44:27 was reported in complete consensus, with 6 labs assigning B*44:27:01. B*07:02 (100%) was reported as the second B-locus type, with 6 labs reporting B*07:02:01. The assigned DRB1 types were DRB1*13:02 and DRB1*15:01. Each were reported by 100% of labs reporting at high resolution, including 9 labs reporting DRB1*13:02:01 and 8 labs reporting DRB1*15:01:01. DQB1*06:02 (100%) and DQB1*06:04 (100%) were the reported DQB1 types, with 6 labs assigning DQB1*06:02:01 and DQB1*06:04:01.

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Table 3a: Individual laboratory results for B-cell #561 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
206	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19		
278	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19		
725	*04	13	3*PRESENT	4*PRESENT	*01	*03	*03	*06					SSP SSO	
731	*04	13			*01	*03	*03	*06					SSP SSO SBT	
735	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04(DP401)	*19	SSP SSO SBT	
747	*04	13	3*PRESENT	4*PRESENT	*01	*03	*03	*06	*01	*02	*04	*19	SSP SSO NGS	
771	*04	13			*01	*03	*03	*06					SSP SSO	
774	*04	13	3*02	4*01	*01	*03	*03	*06			*04(DP401)	*19	SSP SSO	
792	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19	SSP SSO SBT	
793	*04	13	3*02	4*01	*01	*03	*03	*06			*04(DP401)	*19	SSP	
794	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19	SSP SSO NGS	
2400	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19	RT-PCR	
2847	*04	13											SSO	
3519	*04	13			*01	*03	*03	*06	*01	*02	*04(DP401)	*19	SSP NGS RT-PCR	
3632	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04	*19	SSP SSO	
3753			3*02	4*01	*01	*03			*01	*02				
4079	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04(DP401)	*19	SSP SSO NGS	
4251	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	*04(DP401)	*19	SSO NGS	
4492	*04	13	3*PRESENT	4*PRESENT	*01	*03	*03	*06	*01	*02	*04(DP401)	*19	SSP SSO NGS	
5130	*04	13	3*02	4*01	*01	*03	*03	*06			*04	*19	SSO NGS	
5214	*04	13	3*02	4*01	*01	*03	*03 (DQ7)	*06	*01	*02	*04(DP401)	*19	RT-PCR	
5219	*04	13			*01	*03	*03	*06					SSO	
5451	*04	13	3*02	4*01	*01	*03	*03	*06					SSO SBT	
5462	*04	13	3*02	4*01	*01	*03	*03	*06	*01	*02	NT	NT	SSP RT-PCR	
5642	*04	13	3*PRESENT	4*PRESENT			*03	*06					SSP	
6649	*04	13											SSO	
8001	*04	13	3*PRESENT	4*PRESENT	*01	*03	*03	*06					SSP SSO	
8029	*04	13			*01	*03	*03	*06					SSO	
8043	*04	13			*01	*03	*03	*06					SSP SSO	
8068	*04	13			*01	*03	*03	*06					SSO	
9916	*04	13	3*PRESENT	4*PRESENT			*03	*06					SSP	

Table 3b: Individual laboratory results for B-cell #561 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1	DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
230	*04:01	*13:01					*03:01	*06:03			*04:01	*19:01	SSO SBT	
278	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:07	*04:01	*19:01		
731	*04:01:01	*13:01					*03:01	*06:03					SSP SSO SBT	
735	*04:01	*13:01	3*02:02P	4*01:01P	*01:03P	*03:01P	*03:01P	*06:03P	*01:03P	*02:02P	*04:01P	*19:01P	SSP SSO SBT	
747	*04:01:01	*13:01:01	3*02:02:01:02	4*01:03:01	*01:03:01:02	*03:03:01:01	*03:01:01:01	*06:03:01	*01:03:01:04	*02:07	*04:01:01:01	*19:01	SSP SSO NGS	
762	*04:01:01	*13:01:01	3*02:02:01:02	4*01:03:01	*01:03:01:02	*03:03:01:01	*03:01:01:01	*06:03:01	*01:03:01:04	*02:07:01:01	*04:01:01	*19:01:01	NGS	
771	*04:01	*13:01					*03:01	*06:03					SSP SSO	
														DRB1*13:166 DRB1*04:175 DRB1*13:173 DRB1*13:186 DRB1*04:171 DQB1*03:73 DQB1*03:93 DQB1*03:92
774	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03			*04:01	*19:01	SSP SSO	
792	*04:01	*13:01					*03:01	*06:03			*04:01	*19:01	SSP SSO SBT	
793					*01:03	*03:03					*04:01	*19:01	SSP	
794	*04:01:01	*13:01:01	3*02:02:01	4*01:03:01	*01:03	*03:03	*03:01:01	*06:03:01			*04:01:01	*19:01:01	SSP SSO NGS RT-PCR	DQB1*03:01:41
2344	*04:01:01	*13:01:01					*03:01:01	*06:03:01			*04:01:01	*19:01:01	NGS	
2400	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:07	*04:01	*19:01		
3135	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:01	*06:03	*03:02	*02:01	*04:01	*19:01		DQA1*03:02 DQA1*03:03
3224	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:07	*04:01	*19:01	NGS	
3511	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03			*04:01	*19:01	SSP SSO	
3519	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:01	*04:01	*19:01	SSP NGS RT-PCR	DPA1*01:04 DPA1*02:02 DPA1*02:07
3632	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:02	*04:01	*19:01	SSP SSO	

Table 3b: Individual laboratory results for B-cell #561 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DQB1*03:10 DQB1*03:29 DQB1*03:69 DQB1*06:32 DQB1*06:145 DQB1*06:148 DPB1*278:01 DPB1*358:01 DQB1*03:194 DQB1*03:256 DQB1*03:264 DQB1*03:276N DQB1*03:292 DQB1*03:293 DQB1*03:294 DQB1*03:297 DQB1*06:221 DQB1*06:230
3753	*04:01	*13:01					*03:01	*06:03				*04:01:01G	*19:01:01G	
3966	*04:01	*13:01	3*02:02	4*01:03			*03:01	*06:03					SSP	
4079	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:07	*04:01	*19:01	SSP SSO NGS	
4251	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01:01G	*06:03	*01:03	*02:07	*04:01	*19:01	SSO NGS	
4337	*04:01	*13:01					*03:01	*06:03			*04:01	*19:01	SBT NGS	
4492	*04:01:01	*13:01:01	3*02:02	4*01:03	*01:03:01	*03:03:01:01	*03:01	*06:03:01	*01:03	*02:02	*04:01:01	*19:01:01	SSP SSO NGS	DPA1*02:06 DPA1*02:07
5130	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03			*04:01	*19:01	SSO NGS	DQB1*03:276N
5133	*04:01:01	*13:01:01	3*02:02:01:02	4*01:03:01	*01:03:01:02	*03:03:01:01	*03:01:01	*06:03:01:01	*01:03:01:04	*02:07:01:01	*04:01:01	*19:01:01	NGS	
5451	*04:01:01	*13:01:01											SSO SBT	
5488			3*02:02:01	4*01:03:01	*01:03:01	*03:03:01	*03:01:01	*06:03:01	*01:03:01	*02:07:01	*04:01:01	*19:01:01	SSO NGS	
5642	*04:01	*13:01					*03:01	*06:03					SSP	
8001	*04:01	*13:01	3*02:02	4*01:03			*03:01	*06:03			*04:01	*19:01	SSP SSO	
8021	*04:01	*13:01	3*02:02	4*01:03	*01:03	*03:03	*03:01	*06:03	*01:03	*02:07	*04:01	*19:01		
8043	*04:01	*13:01			*01:03	*03:03	*03:01	*06:03					SSP SSO	

Table 4: Individual laboratory results for B-cell #561 - Class I

Low resolution										High resolution				METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C				
206	*02	*23	*44	*44	*04	*05									
230							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSO SBT		
278	*02	*23	*44	*44	*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01			
725	*02	*23	*44	*44	*04	*05							SSP SSO		
735	*02	*23	*44	*44	*04	*05	*02:01P	*23:01P	*44:09	*44:13	*04:01P	*05:01P	SSP SSO SBT		
747	*02	*23	*44	*44	*04	*05	*02:01:01:01	*23:01:01	*44:09	*44:13	*04:01:01:01	*05:01:01:02	SSP SSO NGS	B*44:46 B*44:67	
774	*02	*23	*44	*44	*04	*05			*44:09	*44:03			SSP SSO	B*44:13 B*44:19N B*44:67 B*44:137 B*44:155 B*44:46	
792	*02	*23	*44	*45	*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSP SSO SBT	A*02:01:01:02L	
793	*02	*23	*44		*04	*05							SSP		
794	*02	*23	*44		*04	*05	*02:01:01	*23:01:01	*44:09	*44:13	*04:01:01	*05:01:01	SSP SSO NGS RT-PCR		
2344							*02:01:01	*23:01:01	*44:09	*44:13	*04:01:01	*05:01:01	NGS		
2400	*02	*23	*44	*44	*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01		B*44:46 B*44:67	
2847	*02	*23	*44	*44	*04	*05							SSO		
3135							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01		C*04:09N	
3224							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	NGS		
3511							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSP SSO		
3519	*02	*23	*44		*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSP NGS RT-PCR	B*44:67 B*44:46	
3753							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01		A*02:36 A*02:46 A*02:76 A*02:90 A*02:95 A*02:174 A*23:04 A*02:40 A*23:12 A*23:14 A*23:80 A*23:82 C*04:223 C*05:78 C*05:141 A*23:57 A*23:64 B*44:46 B*44:67 C*04:07 C*04:10 C*04:15 C*04:33 C*04:103 C*04:120 C*04:129 C*05:09 C*05:18 C*05:25 C*05:29 C*05:46 C*05:64	
3966	*02	*23	*44	*44	*04	*05							SSP		
4079	*02	*23	*44		*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSP SSO NGS		
4251	*02	*23	*44	*44	*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSO NGS		
4337							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SBT NGS		
4492	*02	*23	*44		*04	*05	*02:01:01	*23:01:01	*44:09	*44:13	*04:01:01	*05:01:01	SSP SSO NGS		
5130	*02	*23	*44	*44	*04	*05	*02:01	*23:01	*44:09	*44:13	*04:01	*05:01	SSO NGS	B*44:67 B*44:46	
5133							*02:01:01	*23:01:01	*44:09	*44:13	*04:01:01:14	*05:01:01:02	NGS		
5214	*02	*23	*44	45	*04	*05			*44:09 (B45)				RT-PCR		
5219	*02	*23	*44	*44	*04	*05							SSO		

Table 4: Individual laboratory results for B-cell #561 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5462	*02	*23	*44	*44	*04	*05							SSP RT-PCR	
5488							*02:01:01	*23:01:01	*44:09	*44:13	*04:01:01	*05:01:01	SSO NGS	B*44:46 B*44:67
8021							*02:01	*23:01	*44:09	*44:13	*04:01	*05:01		
8029	*02	*23	*44	44	*04	*05							SSO	
8068	*02	*23	*44	44	*04	*05							SSO	
9916	*02	*23	*44		*04	*05							SSP	

Table 5a: Individual laboratory results for B-cell #562 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
206	*13	*15	3*03	5*01	*01		*06	*06	*01		*04			
278	*13	*15	3*03	5*01	*01	*01	*06	*06	*01	*01	*04	*04		
725	*13	*15	3*PRESENT	5*PRESENT	*01		*06						SSP SSO	
731	*13	*15			*01		*06	*06					SSP SSO SBT	
735	*13	*15	3*03	5*01	*01	*01	*06	*06	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
747	*13	*15	3*PRESENT	5*PRESENT	*01	*01	*06	*06	*01	*01	*04	*04	SSP SSO NGS	
771	*13	*15			*01		*06	*06					SSP SSO	
774	*13	*15	3*03	5*01	*01		*06	*06			*04(DP401)		SSP SSO	
792	*13	*15	3*03	5*01	*01	*01	*06	*06	*01	*01	*04	*04	SSP SSO SBT	
793	*13	*15	3*03	5*01	*01		*06				*04(DP401)		SSP	
794	*13	*15	3*03	5*01	*01		*06		*01		*04		SSP SSO NGS	
2400	*13	*15	3*03	5*01	*01		*06	*06	*01		*04		RT-PCR	
2847	*13	*15											SSO	
3519	*13	*15			*01		*06	*06	*01	*01	*04(DP401)		SSP NGS RT-PCR	
3632	*13	*15	3*03	5*01	*01		*06	*06	*01		*04		SSP SSO	
3753			3*03	5*01	*01	*01			*01	*01				
4079	*13	*15	3*03	5*01	*01		*06		*01		*04(DP401)		SSP SSO NGS	
4251	*13	*15	3*03	5*01	*01	*01	*06	*06	*01	*01	*04(DP401)	*04(DP401)	SSO NGS	
4492	*13	*15	3*PRESENT	5*PRESENT	*01		*06		*01		*04(DP401)		SSP SSO NGS	
5130	*13	*15	3*03	5*01	*01	*01	*06	*06			*04	*04	SSO NGS	
5214	*13	*15	3*03	5*01	*01		*06		*01		*04(DP401)		RT-PCR	
5219	*13	*15			*01	*01	*06	*06					SSO	
5451	*13	*15	3*03	5*01	*01		*06	*06					SSO SBT	
5462	*13	*15	3*03	5*01	*01		*06	*06	*01		NT	NT	SSP RT-PCR	
5642	*13	*15	3*PRESENT	5*PRESENT			*06						SSP	
6649	*13	*15											SSO	
8001	*13	*15	3*PRESENT	5*PRESENT	*01		*06	*06					SSP SSO	
8029	*13	*15			*01	*01	*06	*06					SSO	
8043	*13	*15			*01		*06	*06					SSP SSO	
8068	*13	*15			*01	*01	*06	*06					SSO	
9916	*13	*15	3*PRESENT	5*PRESENT			*06						SSP	

Table 5b: Individual laboratory results for B-cell #562 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*13:02	*15:01					*06:02	*06:04			*04:01	*04:01	SSO SBT	
278	*13:02	*15:01	3*03:01	5*01:01	*01:02	*01:02	*06:02	*06:04	*01:03	*01:03	*04:01	*04:01		
731	*13:02:01	*15:01					*06:02	*06:04					SSP SSO SBT	
735	*13:02	*15:01	3*03:01P	5*01:01P	*01:02	*01:02	*06:02	*06:04P	*01:03P	*01:03P	*04:01	*04:01	SSP SSO SBT	
747	*13:02:01	*15:01:01:03	3*03:01:01	5*01:01:01	*01:02:01	*01:02:01	*06:02:01	*06:04:01	*01:03:01:02	*01:03:01:04	*04:01:01:02	*04:01:01	SSP SSO NGS	DQB1*06:39 DQB1*06:84
762	*13:02:01	*15:01:01:01	3*03:01:01	5*01:01:01	*01:02:01		*06:02:01:01	*06:04:01	*01:03:01:02	*01:03:01:04	*04:01:01:01		NGS	
771	*13:02	*15:01					*06:02	*06:04					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 DQB1*06:84 DQB1*06:159
774	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04			*04:01		SSP SSO	
792	*13:02	*15:01					*06:02	*06:04			*04:01	*04:01	SSP SSO SBT	
793											*04:01		SSP	
794	*13:02:01	*15:01:01	3*03:01:01	5*01:01:01	*01:02		*06:02:01	*06:04:01			*04:01:01		SSP SSO NGS RT-PCR	DQB1*06:04:11
2344	*13:02:01	*15:01:01					*06:02:01	*06:04:01			*04:01:01	*04:01:01	NGS	
2400	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01			
3135	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01			
3224	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01		NGS	
3511	*13:02	*15:01	3*03:01	5*01:01	*01:02	*01:02	*06:02	*06:04	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03	*01:03	*04:01		SSP NGS RT-PCR	
3632	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01		SSP SSO	

Table 5b: Individual laboratory results for B-cell #562 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
3753	*13:02	*15:01					*06:02:01G	*06:04:01G			*04:01	*04:01		DQB1*06:08 DQB1*06:176 DQB1*06:13 DQB1*06:09 DQB1*06:148 DQB1*06:186 DQB1*06:206 DQB1*06:230 DQB1*06:281 DQB1*06:282 DQB1*06:11 DQB1*06:14 DQB1*06:27 DQB1*06:21 DQB1*06:22+
3966	*13:02	*15:01	3*03:01	5*01:01			*06:02	*06:04					SSP	
4079	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01		SSP SSO NGS	
4251	*13:02	*15:01	3*03:01	5*01:01	*01:02	*01:02	*06:02	*06:04	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*13:02	*15:01					*06:02	*06:04			*04:01	*04:01	SBT NGS	
4492	*13:02:01	*15:01:01	3*03:01	5*01:01	*01:02:01	*01:02:01	*06:02	*06:04	*01:03	*01:03	*04:01:01	*04:01:01	SSP SSO NGS	
5130	*13:02	*15:01	3*03:01	5*01:01	*01:02	*01:02	*06:02	*06:04			*04:01	*04:01	SSO NGS	
5133	*13:02:01	*15:01:01	3*03:01:01	5*01:01:01	*01:02:01		*06:02:01:01	*06:04:01	*01:03:01		*04:01:01		NGS	
5451	*13:02:01	*15:01:01											SSO SBT	
5488	*13:02:01	*15:01:01	3*03:01:01	5*01:01:01	*01:02:01		*06:02:01	*06:04:01	*01:03:01		*04:01:01		SSO NGS	
5642	*13:02	*15:01					*06:02	*06:04					SSP	
8001	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04			*04:01		SSP SSO	
8021	*13:02	*15:01	3*03:01	5*01:01	*01:02		*06:02	*06:04	*01:03		*04:01			
8043	*13:02	*15:01			*01:02		*06:02	*06:04					SSP SSO	

Table 6: Individual laboratory results for B-cell #562 - Class I

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
206	*02	*24	*07	*44	*07	*07								
230							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSO SBT	
278	*02	*24	*07	*44	*07	*07	*02:01	*24:02	*07:02	*44:27	*07:02	*07:04		
725	*02	*24	*07	*44	*07								SSP SSO	
731													SSP SSO SBT	
735	*02	*24	*07	*44	*07	*07	*02:01P	*24:02P	*07:02P	*44:27	*07:02P	*07:04P	SSP SSO SBT	
747	*02	*24	*07	*44	*07	*07	*02:01:01:01	*24:02:01:01	*07:02:01:01	*44:27:01	*07:02:01:03	*07:04:01:01	SSP SSO NGS	
774	*02	*24	*07	*44	*07								SSP SSO	
792	*02	*24	*07	*44	*07	*07	*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSP SSO SBT	A*02:01:01:02L A*24:02:01:02L
793	*02	*24	*07	*44	*07								SSP	
													SSP SSO NGS	
794	*02	*24	*07	*44	*07		*02:01:01	*24:02:01	*07:02:01	*44:27:01	*07:02:01	*07:04:01	RT-PCR	
2344							*02:01:01	*24:02:01	*07:02:01	*44:27:01	*07:02:01	*07:04:01	NGS	
2400	*02	*24	*07	*44	*07	*07	*02:01	*24:02	*07:02	*44:27	*07:02	*07:04		
2847	*02	*24	*07	*44	*07	*07							SSO	
3135							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04		
3224							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	NGS	
3511							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSP SSO	
3519	*02	*24	*07	*44	*07		*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSP NGS RT-PCR	
														B*07:281 B*07:312 C*07:611 B*44:22 B*44:02 B*44:53 B*44:78 B*44:84 B*44:91 B*44:106 C*07:45 C*07:199 C*07:260 B*07:25 B*07:28 B*07:57 B*07:68 B*07:73 B*07:114 B*07:153 B*07:177 B*07:271 B*44:206 B*44:221 A*02:04 A*02:12 A*02:37 A*02:17 A*02:36 A*02:46 A*02:58 A*02:70 A*02:76 A*02:86 A*02:87 A*02:90 A*02:92 A*02:95 A*02:110 A*02:118 A*02:226N A*02:417 A*02:628 A*24:03 A*24:13 A*24:14 A*24:28 A*24:29 A*24:30 A*24:52 A*24:53 A*24:93+
3753							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04		
3966	*02	*24	*07	*44	*07	*07							SSP	
4079	*02	*24	*07	*44	*07		*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSP SSO NGS	
4251	*02	*24	*07	*44	*07	*07	*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSO NGS	
4337							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SBT NGS	
4492	*02	*24	*07	*44	*07		*02:01:01	*24:02:01	*07:02:01:01	*44:27:01	*07:02:01	*07:04:01	SSP SSO NGS	
5130	*02	*24	*07	*44	*07	*07	*02:01	*24:02	*07:02	*44:27	*07:02	*07:04	SSO NGS	
5133							*02:01:01	*24:02:01	*07:02:01:01	*44:27:01	*07:02:01:03	*07:04:01:01	NGS	

Table 6: Individual laboratory results for B-cell #562 - Class I

Low resolution							High resolution							
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5214	*02	*24	*07	*44	*07								RT-PCR	
5219	*02	*24	*07	*44	*07	*07							SSO	
5462	*02	*24	*07	*44	*07								SSP RT-PCR	
5488							*02:01:01	*24:02:01	*07:02:01	*44:27:01	*07:02:01	*07:04:01	SSO NGS	
8021							*02:01	*24:02	*07:02	*44:27	*07:02	*07:04		
8029	*02	*24	*07	*44	*07	*07							SSO	
8068	*02	*24	*07	*44	*07	*07							SSO	
9916	*02	*24	*07	*44	*07								SSP	