

# B-cell Line Exchange #267

B-cell Lines 533-534

**FEBRUARY 8, 2017**

The results for B-cell Line Exchange #267 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are grateful to the generosity of Helen Bass, Jane Rowlands, and Tracey Reese, Welsh Blood Service, Pontyclun and to Dasnyanee Chanda-

nayingyong, Siriraj Hospital, Bangkok for providing the valuable reference cells studied in our exchanges. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <http://bioinformatics.nmdp.org/>.

**Ter-533.** The reported consensus type for this sample from a Caucasian donor is DRB1\*01:03-DRB1\*03:01-DRB3\*01:08-DQA1\*01:01-DQA1\*05:01-DQB1\*02:01-DQB1\*05:01-DPA1\*01:03-DPB1\*02:01-DPB1\*04:01/A\*02:01-A\*03:01-B\*07:02-B\*08:01-C\*07:01-C\*07:02. Likely haplotypes present in this cell are A\*02:01-B\*08:01-DRB1\*03:01-DQB1\*02:01 and A\*03:01-B\*07:02-DRB1\*01:03-DQB1\*05:01, with respective frequencies of 0.00919 and 0.00067, in Caucasians. The DRB1\*03:01-DQB1\*02:01 association in this cell was also observed in cell 1507-33405, the reference cell for DRB3\*01:08. It is the second most common association observed in Caucasians, with HF=0.12872.

This sample was previously studied in the exchange as Ter 417 (2008), as astutely noted by Rao. In this present study, the rare DRB3\*01:08 allele was reported in complete consensus by labs reporting at high resolution. DRB1\*01:03 and DRB1\*03:01 were each reported in complete consensus as the DRB1 types. The DQA1 and DQB1 types were reported as DQA1\*01:01 (100%), DQA1\*05:01 (100%), DQB1\*02:01 (100%), and DQB1\*05:01 (96%). A\*02:01, A\*03:01, B\*07:02, B\*08:01 (100%), C\*07:01, and C\*07:02 were all assigned in complete consensus as the class I types.

**Ter-534.** The consensus type for this sample from a Thai donor is DRB1\*11:11-DRB1\*12:01-DRB3\*01:01-DRB3\*02:02-DQA1\*05:05-DQA1\*05:09-DQB1\*03:01-DPA1\*02:01-DPA1\*02:02-DPB1\*02:02-DPB1\*26:01/A\*11:01-A\*68:01-B\*40:01-B\*55:01-C\*01:02-C\*07:02.

One likely haplotype in this cell is A\*11:01-B\*40:01-DRB1\*12:01-DQB1\*03:01, observed in Asian populations, with HF=0.00199. The other likely haplotype present may then be A\*68:01-B\*55:01-DRB1\*11:11-DQB1\*03:01, observed in cell 1082, a reference cell for DRB1\*11:11:01.

This cell is Ter-144, a reference cell for DRB1\*11:11:01. It was previously typed in the exchange as Ter 144 (1994), Ter 196 (1997), and Ter 374 (2006). In this present retyping, DRB1\*11:11 was assigned in complete consensus, with 7 labs assigning DRB1\*11:11:01. DRB1\*12:01 (100%) was reported as the second DRB1 type, with 6 labs reporting DRB1\*12:01:01. Two different subtypes of DQA1\*05 were reported to be present in this cell, DQA1\*05:05 (90%) and DQA1\*05:09 (62%). This is an improvement from the 2006 typing in which DQA1\*05:05 was assigned by only 5 labs. Among the 5 labs assigning DQA1\*05:05, 3 reported the presence of a second DQA1\*05 subtype. The detection of that second DQA1\*05 subtype, DQA1\*05:09, still remained low in this present study, as 5 labs reported this sample as homozygous for DQA1\*05:05 and several labs were unable to resolve DQA1\*05:09 from DQA1\*05:05 and/or DQA1\*05:11. DQA1\*05:09 differs from DQA1\*05:05 in exon 1 by a single nucleotide substitution at codon 1 (GAA → AAA), which results in an amino acid change from glutamic acid to lysine. DQA1\*05:11 differs from DQA1\*05:09 in exon 4 by a single nucleotide substitution at codon 194 (GAG → GGG), resulting in an amino acid change from glutamic acid to glycine. DQB1\*03:01 (100%) was reported as the sole DQB1 subtype, with 1 NGS lab assigning DQB1\*03:01:01:01 homozygous and the second assigning DQB1\*03:01:01:01, DQB1\*03:01:01:03.

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**Table 3a: Individual laboratory results for B-cell #533-Class II**

Center	Investigator	Low resolution												METHOD	Other Alleles
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon			3*01										SSP SSO SBT	
5462	Arnold , Paula	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02	*04(DP401)	SSP SSO SBT	
774	Cecka , J. Michael	*01	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)	SSP SSO	
9916	Charlton , Ronald K	*01	*03	3*PRESENT				*02	*05					SSP	DRB1*13
3224	Chen , Dong-Feng													SSP SBT	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W.	*01	*03	3*01		*01	*05	*02	*05	*01		*02	*04	SSP SSO	
5130	Costeas , Paul A.	*01	*03	3*01		*01	*05	*02	*05			*02	*04		
779	Daniel , Claude	*01	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)		
5219	Daniel , Dolly	*01	*03					*02	*05					SSO	
8099	Danish , Adel	*01	*03			*01	*05	*02	*05					SSO	
1108	DeConinck , Martha	*01	*03	3*01	3*01	*01	*05	*02	*05	*01	*01			SSO	
87	Di Paola , Nicholas	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*103	*03 (DR17)	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO	
747	Ferrari-Lacraz , Syl														
4079	Fort , Marylise	*01	*03					*02	*05					SSP SSO	
792	Gandhi , Manish	*103	*03	3*01		*01	*05	*02	*05	*01	*01	*02	*04	SSP SSO SBT	
8043	Gideoni , Osnat	*01	*03			*01	*05	*02	*05					SSP SSO	
8087	Guerra , Q.F.B. Elb	*01	*03			*01	*05	*02	*05					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*01	*03	3*PRESENT				*02	*05						
2344	Hurley , Hartzman&													SSO NGS	
771	Israel , Shoshana	*01	*03					*02	*05					SSP SSO	
725	Lardy , N.M.	*01	*03	3*PRESENT		*01	*05	*02	*05					SSP SSO	
278	Lee , Jar-How	*01	*03	3*01	NT	*01	*05	*02	*05	*01	*01	*02	*04		
6649	Lim , Young Ae	*01	*03	3*PRESENT	5*PRESENT									SSP	
2400	Liu , Chang	*01	*03	3*01	NP	*01	*05	*02	*05			*02	*04	SSP SSO SBT	
731	Loewenthal , Ron	*01	*03			*01	*05	*02	*05					SSP SSO SBT	
206	McAlack , Robert	*01	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO	
8042	Muncher , Liora	*01	*03	NT	NT	NT	NT	*02	*05	NT	NT	NT	NT	SSO	
54	Pancoska , Carol	*103	*03	3*01		*01	*05	*02	*05	*01		*02(DP201)	*04(DP401)	SSO	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash					*01	*05								
3519	Renac , Virginie	*01	*03					*02	*05			*02(DP201)	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*01	*03	3*01		*01	*05	*02	*05			*02(DP201)	*04(DP401)	SSP	
4251	Schiller , Jennifer	*103	*03	3*01		*01	*05	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSO NGS	
8068	Shanmugam , Hem	*01	*03	3*01				*02	*05					SSO	
8029	Tarigopula , Anil	*01	*03			*01	*05	*02	*05					SSO	

**Table 3a: Individual laboratory results for B-cell #533-Class II**

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5451	Tilanus , Marcel G.	*01	*03	3*01		*01	*05	*02	*05					SSO SBT	
5642	Varnavidou-Nicolaïd	*01	*03	3*PRESENT				*02	*05					SSP	
2847	Wakita , Atsushi	*01	*03											SSO	
8052	Yanina Marcos , Cir	*01	*03			*01	*05	*02	*05					SSO	

**Table 3b: Individual laboratory results for B-cell #533-Class II**

		Intermediate/High resolution												
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*01:03	*03:01:01			*01:01	*05:01	*02:01:01	*05:01:01		*02:01:02	*04:01:01	SSP SSO SBT	
5462	Arnold , Paula	*01:03	*03:01	3*01:08		*01:01P	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT RT-PCR	DQA1*01:04 DQA1*01:05 DQA1*01:12 DPA1*01:13
5133	Askar , Medhat	*01:03	*03:01:01	3*01:08		*01:01:01	*05:01:01	*02:01:01	*05:01:01	*01:03:01	*02:01:02	*04:01:01:01	NGS	
4492	Caillat-Zucman , So	*01:03	*03:01:01	3*01:08	3*01:01/ *01:08	*01:01:01	*05:01:01	*02:01:01	*05:01:01	*01:03	*02:01:02	*04:01:01	SSO NGS	DPA1*01:13
774	Cecka , J. Michael	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO	DQB1*02:09 DRB1*03:112 DQB1*02:14 DRB1*03:68N DRB1*03:83 DRB1*03:100 DRB1*03:104 DQB1*02:07 DQB1*02:08 DQB1*02:27
8070	Chang , Uckjin	*01:03	*03:01										SBT	
3224	Chen , Dong-Feng	*01:03	*03:01:01G	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SBT	
8021	Clark , Brendan	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01				SSO	
3632	Colombe , Beth W.	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01		
779	Daniel , Claude	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01		
8086	Du , Keming	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT	
3135	Enczmann , J	*01:03	*03:01	3*01:08				*02:01	*05:01		*02:01:02	*04:01:01		
747	Ferrari-Lacraz , Sylv													
762	Fischer , Gottfried	*01:03	*03:01:01:01	3*01:08		*01:01:01	*05:01:01:02	*02:01:01	*05:01:01		*02:01:02	*04:01:01	SSO NGS	
4079	Fort , Marylise	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO	DPB1*444:01 DQA1*01:04 DPB1*418:01 DPB1*426:01 DPB1*428:01 DPB1*434:01 DPB1*433:01 DQA1*01:05 DQA1*01:12 DQB1*02:07 DQB1*02:14 DQB1*02:27 DQB1*05:27
792	Gandhi , Manish	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO SBT	
810	Hamdi , Nuha	*01:03	*03:01	3*01:08	3*01:08	*01:01	*05:01	*02:01	*05:01				SSO	

**Table 3b: Individual laboratory results for B-cell #533-Class II**

		Intermediate/High resolution												
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
2344	Hurley , Hartzman&	*01:03	*03:01:01:01			*01:01:01	*05:01:01:02	*02:01:01	*05:01:01:01	*01:03:01:01	*02:01:02	*04:01:01:01	SSO NGS	DPA1*01:03:01:02 DPA1*01:03:01:03 DPA1*01:03:01:04 DPA1*01:03:01:05 DPA1*01:03:01:02 DPA1*01:03:01:03 DPA1*01:03:01:04 DQB1*05:01:01:02 DQB1*05:01:01:03 DPA1*01:03:01:05 DPB1*04:01:01:02
771	Israel , Shoshana	*01:03	*03:01					*02:01	*05:01				SSP SSO	
4337	Kim , Tai-Gyu	*01:03	*03:01					*02:01	*05:01		*02:01	*04:01	SBT	
278	Lee , Jar-How	*01:03	*03:01	3*01:08	NT	*01:01	*05:01	*02:01	*05:07	*01:03	*02:01	*04:01		
2400	Liu , Chang	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01		*02:01:02G	*04:01:01G	SSP SSO SBT	
731	Loewenthal , Ron	*01:03	*03:01:01G					*02:01:01	*05:01:01				SSP SSO SBT	
3966	Permpikul , Vejbaes													
8001	Rao , Prakash	*01:03	*03:01	3*01:08				*02:01	*05:01		*02:01	*04:01		
3753	Reed , Elaine F.	*01:03	*03:01	NP	3*01:08	*01:01:01G	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSP SSO SBT	DQB1*05:44 DPB1*237:01 DPB1*261:01 DPB1*359:01 DPB1*262:01 DPB1*281:01 DPB1*323:01 DPB1*367:01 DPB1*381:01 DPB1*444:01 DPB1*426:01 DPB1*434:01 DPB1*455:01N+, DPA1*01:13, DQB1*02:47
3519	Renac , Virginie	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP NGS	
793	Rubocki , Ronald					*01:01	*05:01				*02:01	*04:01	SSP	
4251	Schiller , Jennifer	*01:03	*03:01			*01:01	*05:01	*02:01	*05:01	*01:03	*02:01	*04:01	SSO NGS	
5451	Tilanus , Marcel G.J.	*01:03	*03:01:01	3*01:08									SSO SBT	
5642	Varnavidou-Nicolaïd	*01:03	*03:01					*02:01	*05:01				SSP	DRB1*01:39N
3511	Zeevi , Adriana	*01:03	*03:01	3*01:08		*01:01	*05:01	*02:01	*05:01		*02:01	*04:01	SSP SSO	

Table 4: Individual laboratory results for B-cell #533-Class II									
Serology									
CTR	DIRNAME	DR103	DR18	DR52		DQ2	DQ1	OTH1	OTH2
910	Hahn,Amy B.	+	+	+		+	+	DR17	



**Table 5: Individual laboratory results for B-cell #533-Class I**

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*02	*03							*07:02	*08:01	*07:01:01	*07:02:01	SSP SSO SBT	B*07:61 B*07:161N
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*03:01:01:01	*07:02:01	*08:01:01	*07:01:01	*07:02:01	NGS	
4492	Caillat-Zucman , Sc							*02:01:01	*03:01:01	*07:02:01	*08:01:01	*07:01:01	*07:02:01	SSO NGS	
774	Cecka , J. Michael	*02	*03	*07	*08	*07								SSP SSO	
9916	Charlton , Ronald K	*02	*03	*07	*08	*07								SSP	
3224	Chen , Dong-Feng							*02:01	*03:01	*07:02:01G	*08:01	*07:01:01G	*07:02:01G	SSP SBT	
8021	Clark , Brendan	*02	*03	*07	*08	*07								SSO	
5130	Costeas , Paul A.	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		A*03:16 A*03:61
779	Daniel , Claude	*02	*03	*07	*08	*07	*07								
5219	Daniel , Dolly	*02	*03	*07	*08	*07	*07							SSO	
8099	Danish , Adel	*02	*03	*07	*08	*07	*07							SSO	
1108	DeConinck , Martha	*02	*03	*07	*08	*07	*07							SSO	
87	Di Paola , Nicholas	*02	*03	*07	*08	*07	*07							RT-PCR	
8086	Du , Keming							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
5214	Eckels/CPMC ,	*02	*03	*07	*08	*07								SSO	
3135	Enczmann , J							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		C*07:06 C*07:18 A*02:01L
792	Gandhi , Manish	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*02	*03	*07	*42	*07	*07							SSO	
810	Hamdi , Nuha							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSO	
1694	Hesse , Nicole	*02	*03	*07	*08	*07									
2344	Hurley , Hartzman&							*02:01:01:01	*03:01:01:01	*07:02:01	*08:01:01	*07:01:01:01	*07:02:01:03	SSO NGS	
4337	Kim , Tai-Gyu							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SBT	
278	Lee , Jar-How	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02		
2400	Liu , Chang	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	
206	McAlack , Robert	*02	*03	*07	*08	*07	*07							SSO	
8042	Muncher , Liora	*02	*03	*07	*08	*07	*07							SSO	
54	Pancoska , Carol	*02	*03	*07	*08	*07								SSO	
3753	Reed , Elaine F.							*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP SSO SBT	A*02:24 A*02:34 A*02:35 A*02:195 A*03:05 A*03:07 A*03:95 A*03:176 B*07:61 B*08:50 B*08:53 B*08:94 C*07:18 C*07:343 C*07:27+
3519	Renac , Virginie	*02	*03	*07	*08	*07		*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSP NGS	
4251	Schiller , Jennifer	*02	*03	*07	*08	*07	*07	*02:01	*03:01	*07:02	*08:01	*07:01	*07:02	SSO NGS	
8068	Shanmugam , Hem	*02	*03	*07	*08	*07								SSO	
8029	Tarigopula , Anil	*02	*03	*07	*08	*07	*07							SSO	
2847	Wakita , Atsushi	*02	*03	*07	*08	*07	*07							SSO	
8052	Yanina Marcos , Cir	*02	*03	*07	*08	*07	*07							SSO	

**Table 6a: Individual laboratory results for B-cell #534-Class II**

Center	Investigator	Low resolution												METHOD	Other Alleles
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon			3*01	3*02									SSP SSO SBT	
5462	Arnold , Paula	*11	*12	3*01	3*02	*05		*03		*02	*02	*02	*26	SSP SSO SBT	
774	Cecka , J. Michael	*11	*12	3*01	3*02	*05		*03		*02	*02	*02(DP202)	*26	RT-PCR	
9916	Charlton , Ronald K	*11	*12	3*PRESENT					*03					SSP	A*66
3224	Chen , Dong-Feng													SSP SBT	
8021	Clark , Brendan													SSO	
3632	Colombe , Beth W.	*11	*12	3*01	3*02	*05	*05	*03		*02	*02	*02	*26	SSP SSO	
5130	Costeas , Paul A.	*11	*12	3*01	3*02	*05	*05	*03	*03			*02	*26		
779	Daniel , Claude	*11	*12	3*01	3*02	*05	*05	*03		*02	*02	*02(DP202)	*26		
5219	Daniel , Dolly	*11	*12					*03	*03					SSO	
8099	Danish , Adel	*11	*12			*05	*05	*03	*03					SSO	
1108	DeConinck , Martha	*11	*12	3*01	3*02	*05		*03		*02				SSO	
87	Di Paola , Nicholas	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02(DP202)	*26	RT-PCR	
5214	Eckels/CPMC ,	*11	*12	3*01	3*02	*05		*03		*02	*02	*02(DP202)	*26	SSO	
747	Ferrari-Lacruz , Syl														
4079	Fort , Marylise	*11	*12					*03						SSP SSO	
792	Gandhi , Manish	*11	*12	3*01	3*02	*05		*03		*02	*02	*02	*26	SSP SSO SBT	
8043	Gideoni , Osnat	*11	*12			*05		*03						SSP SSO	
8087	Guerra , Q.F.B. Elb	*11	*12			*05	*05	*03	*03					SSO	
810	Hamdi , Nuha													SSO	
1694	Hesse , Nicole	*11	*12	3*PRESENT				*03							
2344	Hurley , Hartzman&													SSO NGS	
771	Israel , Shoshana	*11	*12					*03						SSP SSO	
725	Lardy , N.M.	NT												SSP SSO	
278	Lee , Jar-How	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02	*26		
6649	Lim , Young Ae	*11	*12	3*PRESENT										SSP	
2400	Liu , Chang	*11	*12	3*01	3*02	*05		*03				*02	*26	SSP SSO SBT	
731	Loewenthal , Ron	*11	*12			*05		*03						SSP SSO SBT	
206	McAlack , Robert	*11	*12	3*01	3*02	*05		*03	*03	*02	*02	*02(DP202)	*26	SSO	
8042	Muncher , Liora	*11	*12	NT	NT	NT	NT	*03	*03	NT	NT	NT	NT	SSO	
54	Pancoska , Carol	*11	*12	3*01	3*02	*05		*03		*02		*02(DP202)	*26	SSO	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash					*05									
3519	Renac , Virginie	*11	*12					*03				*02(DP202)	*26	SSP NGS	
793	Rubocki , Ronald	*11	*12	3*01	3*02	*05		*03				*02(DP202)	*26	SSP	
4251	Schiller , Jennifer	*11	*12	3*01	3*02	*05	*05	*03	*03	*02	*02	*02(DP202)	*26	SSO NGS	
8068	Shanmugam , Hem	*11	*12	3*01	3*02			*03						SSO	
8029	Tarigopula , Anil	*11	*12			*05	*05	*03	*03					SSO	
5451	Tilanus , Marcel G..	*11	*12	3*01	3*02	*05		*03						SSO SBT	
5642	Varnavidou-Nicolaïd	*11	*12	3*PRESENT				*03						SSP	
2847	Wakita , Atsushi	*11	*12											SSO	
8052	Yanina Marcos , Cir	*11	*12			*05	*05	*03	*03					SSO	

**Table 6b: Individual laboratory results for B-cell #534-Class II**

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*11:11:01	*12:01:01			*05:05	*05:09	*03:01:01				*02:02	*26:01:02	SSP SSO SBT	DRB1*12:10
5462	Arnold , Paula	*11:11	*12:01P	3*01:01	3*02:02	*05:01P	*05:09/05/11	*03:01		*02:01	*02:02P	*02:02	*26:01	SSP SSO SBT RT-PCR	DRB3*01:17 DRB3*01:19 DRB1*12:10 DRB3*01:16 DRB3*02:28 DRB3*02:29N DRB3*02:33 DPA1*02:06
5133	Askar , Medhat	*11:11:01	*12:01:01	3*01:01:02	3*02:02:01	*05:05:01	*05:09	*03:01:01		*02:01:01	*02:02:02	*02:02	*26:01:02	NGS	
4492	Caillat-Zucman , So	*11:11:01	*12:01:01	3*01:01	3*02:02	*05:05:01	*05:09	*03:01:01	*03:01:01	*02:01	*02:02	*02:02	*26:01:02	SSO NGS	DPA1*02:06
774	Cecka , J. Michael	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SSO	DRB3*01:16 DRB3*02:28 DRB3*02:29N
8070	Chang , Uckjin	*11:11	*12:01											SBT	
3224	Chen , Dong-Feng	*11:11	*12:01:01G	3*01:01:02G	3*02:02:01G	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SBT	
8021	Clark , Brendan	*11:11	*12:01	3*01:01	3*02:02	*05:05		*03:01						SSO	
3632	Colombe , Beth W.	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01		*02:01	*02:02	*02:02	*26:01	SSP SSO	DQA1*05:09
5130	Costeas , Paul A.	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:05	*03:01	*03:01			*02:02	*26:01		DRB3*01:11 DQB1*03:27 DQB1*03:27 DRB3*02:13
779	Daniel , Claude							*03:01		*02:01	*02:02	*02:02	*26:01		
8086	Du , Keming	*11:11	*12:01			*05:05	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSP SSO SBT	
3135	Enczmann , J	*11:11	*12:01	3*01:01	3*02:02			*03:01	*03:01			*02:02	*26:01		DRB1*12:10
747	Ferrari-Lacraz , Sylv														
762	Fischer , Gottfried	*11:11:01	*12:01:01	3*01:01:02	3*02:02:01	*05:05:01	*05:09	*03:01:01:01	*03:01:01:03			*02:02	*26:01:02	SSO NGS	DRB1*12:10
4079	Fort , Marylise	*11:11	*12:01			*05:05	*05:09/11	*03:01				*02:02	*26:01	SSP SSO	DQB1*03:27 DQB1*03:44 DQB1*03:10 DRB1*12:10
792	Gandhi , Manish	*11:11	*12:01			*05:05		*03:01				*02:02	*26:01	SSP SSO SBT	
810	Hamdi , Nuha	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:05	*03:01	*03:01					SSO	
2344	Hurley , Hartzman&	*11:11:01	*12:01:01			*05:05:01:01	*05:09	*03:01:01:01	*03:01:01:01	*02:01:01	*02:02:02	*02:02	*26:01:02	SSO NGS	DQB1*03:01:01:03 DQB1*03:01:01:02 DQB1*03:01:01:03 DQB1*03:01:01:02 DQA1*05:05:01:02 DQA1*05:05:01:03
771	Israel , Shoshana	*11:11	*12:01					*03:01						SSP SSO	

**Table 6b: Individual laboratory results for B-cell #534-Class II**

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
4337	Kim , Tai-Gyu	*11:11	*12:01					*03:01	*03:01			*02:02	*26:01	SBT	
278	Lee , Jar-How	*11:11	*12:01	3*01:01	3*02:02	*05:01	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01		
2400	Liu , Chang	*11:11	*12:01			*05:05	*05:09	*03:01				*02:02	*26:01	SSP SSO SBT	DRB1*12:10
731	Loewenthal , Ron	*11:11:01	*12:01:01G					*03:01:01						SSP SSO SBT	
3966	Permpikul , Vejbaes														
8001	Rao , Prakash	*11:11	*12:01	3*01:01	3*02:02			*03:01				*02:02	*26:01		
3753	Reed , Elaine F.	*11:11	*12:01	3*01:01	3*02:02:01G	*05:05	*05:09/05	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSP SSO SBT	DRB3*01:04 DQA1*05:11 DRB1*12:10 DRB3*01:16
3519	Renac , Virginie	*11:11	*12:01	3*01:01	3*02:02	*05:05	*05:09	*03:01				*02:02	*26:01	SSP NGS	DRB1*12:10
793	Rubocki , Ronald											*02:02	*26:01	SSP	
4251	Schiller , Jennifer	*11:11	*12:01:01G			*05:05	*05:09	*03:01	*03:01	*02:01	*02:02	*02:02	*26:01	SSO NGS	
5451	Tilanus , Marcel G.J.	*11:11:01	*12:01:01											SSO SBT	
5642	Varnavidou-Nicolaic	*11:11	*12:01					*03:01						SSP	
3511	Zeevi , Adriana	*11:11	*12:01	3*01:01	3*02:02	*05:05		*03:01				*02:02	*26:01	SSP SSO	

Table 7: Individual laboratory results for B-cell #534-Class II									
Serology									
CTR	DIRNAME	DR5	DR3	DR52		DQ3	DQ7	OTH1	OTH2
910	Hahn,Amy B.	DR11	DR17	+		+	+	DR12,DR18	

**Table 8: Individual laboratory results for B-cell #534-Class I**

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*11	*68	*40	*55	*01	*07							SSP SSO SBT	
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*11:01:01:01	*68:01:02:01	*40:01:02	*55:01:01	*01:02:01	*07:02:01:01	NGS	
4492	Caillat-Zucman , S							*11:01:01	*68:01:02	*40:01:02	*55:01:01	*01:02:01	*07:02:01	SSO NGS	
774	Cecka , J. Michael	*11	*68	*40	*55	*01	*07							SSP SSO	
9916	Charlton , Ronald K	*11	*68	*40	*55	*01	*07							SSP	A*66
3224	Chen , Dong-Feng							*11:01	*68:01	*40:01	*55:01	*01:02:01G	*07:02:01G	SSP SBT	
8021	Clark , Brendan	*11	*68	*40	*55	*01	*07							SSO	
5130	Costeas , Paul A.	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		C*07:72 A*11:37 C*01:38 C*07:127 A*11:05 B*40:36 B*40:46 C*01:06 A*11:80 B*40:69
779	Daniel , Claude	*11	*68	*40	*55	*01	*07			*40:01					
5219	Daniel , Dolly	*11	*68	*40	*55	*01	*07							SSO	
8099	Danish , Adel	*11	*68	*40	*55									SSO	
1108	DeConinck , Martha	*11	*68	*40	*55	*01	*07							SSO	
87	Di Paola , Nicholas	*11	*68	*40	*55	*01	*07							RT-PCR	
8086	Du , Keming							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
5214	Eckels/CPMC ,	*11	*68	*40 (B60)	*55	*01	*07							SSO	
3135	Enczmann , J							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		
792	Gandhi , Manish	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*11	*68	*40	*55		*07							SSO	
810	Hamdi , Nuha							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSO	
1694	Hesse , Nicole	*11	*68	*40	*55	*01	*07								
2344	Hurley , Hartzman							*11:01:01	*68:01:02:01	*40:01:02	*55:01:01	*01:02:01	*07:02:01:01	SSO NGS	
4337	Kim , Tai-Gyu							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SBT	
278	Lee , Jar-How	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02		
2400	Liu , Chang	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	
206	McAlack , Robert	*11	*68	*40	*55	*01	*07							SSO	
8042	Muncher , Liora	*11	*68	*40	*55	*01	*07							SSO	
54	Pancoska , Carol	*11	*68	*40	*55	*01	*07							SSO	
3753	Reed , Elaine F.							*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP SSO SBT	A*11:118 A*11:119 A*68:11N A*68:12 A*68:91 B*40:25 B*40:183 B*55:24 B*55:28 C*01:17 C*01:54 C*01:58 C*07:39 C*07:349+
3519	Renac , Virginie	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSP NGS	
4251	Schiller , Jennifer	*11	*68	*40	*55	*01	*07	*11:01	*68:01	*40:01	*55:01	*01:02	*07:02	SSO NGS	

**Table 8: Individual laboratory results for B-cell #534-Class I**

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
8068	Shanmugam , Hen	*11	*68	*40	*55	*01	*07							SSO	
8029	Tarigopula , Anil	*11	*68	*40	*55	*01	*07							SSO	
2847	Wakita , Atsushi	*11	*68	*40	*55	*01	*07							SSO	
8052	Yanina Marcos , Ci	*11	*68	*40	*55	*01	*07							SSO	