

B-cell Line Exchange #266

NOVEMBER 2, 2016

B-cell Lines 531-532

The results for B-cell Line Exchange #266 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 Helen Bass, Jane Rowlands, and Tracey Reese, Welsh Blood Service, Pontyclun for providing the interesting cells studied in our exchanges.

Ter-531. The reported consensus type for this sample is DRB1*04:07-DRB1*13:01-DRB3*02:02-DRB4*01:03-DQA1*01:03-DQA1*03:01-DQB1*03:02-DQB1*06:03-DPA1*01:03-DPB1*02:01-DPB1*03:01/A*02:01-A*24:23-B*15:01-B*51:01-C*03:03-C*03:04. There is no race information available for this cell. One likely class II haplotype in this cell is DRB1*04:07-DRB4*01:03-DQA1*03:01-DQB1*03:02, observed in the workshop cell IH-W9381 (same as Ter 391 and Ter 317). The other likely haplotype present may then be DRB1*13:01-DRB3*02:02-DQA1*01:03-DQB1*06:03, observed in previous exchange cells Ter 415 and Ter 439 (same as Ter 336).

This cell is 26586, the reference cell for A*24:23 (1). It was previously typed in the exchange for class II as Ter 306 (2002) and for class I as extracts 181 (2001), 287 (2004), and 461 (2009). In this present retyping, DRB1*04:07 and DRB1*13:01 were assigned in completed consensus, with 7 labs assigning DRB1*04:07:01 and 8 labs assigning DRB1*13:01:01. DQA1*01:03 (100%), DQA1*03:01 (100%), DQB1*03:02 (100%), and DQB1*06:03 (100%) were the assigned DQ types. DPB1*02:01 and DPB1*03:01 were also reported in complete consensus, with 7 labs assigning DPB1*02:01:02 and DPB1*03:01:01. The class I types were reported as A*02:01 (100%), A*24:23 (95%), B*15:01 (100%), B*51:01 (100%), C*03:03 (100%), and C*03:04 (100%).

Ter-532. The consensus type for this sample from a Filipino donor is DRB1*12:02-DRB1*15:02-DRB3*03:01-DRB5*01:01-DQA1*01:02-DQA1*06:01-DQB1*03:01-DQB1*05:02-DPA1*02:02-DPB1*01:01-DPB1*05:01/A*24:02-A*24:37-B*15:35-B*51:01-C*04:01-C*07:02. Possible class II haplotypes in this cell are DRB1*12:02-DRB3*03:01-DQA1*06:01-DQB1*03:01, observed in Ter 256 and Ter 285 (same as Ter 121) and DRB1*15:02-DRB5*01:01-DQA1*01:02-DQB1*05:02, observed in Ter 516 (same as Ter 433 and Ter 269) and Ter 521 (same as Ter 276) all from Asian donors.

This sample is TER1132, the reference cell for A*24:37 (2). It was previously typed for class I as extract 428 (2008) and extract 242 (2003). In this present study, the DR types were reported as DRB1*12:02 (100%) and DRB1*15:02 (100%). DRB1*12:02:01 and DRB1*15:02:01 were each assigned by 7 labs. DQB1*03:01 and DQB1*05:02 were each reported in completed consensus, with 8 labs reporting DQB1*03:01:01 and DQB1*05:02:01. DPB1*01:01 and DPB1*05:01 were also reported in completed consensus, with 7 labs assigning DPB1*01:01:01 and 8 labs assigning DPB1*05:01:01. A*24:37 (100%) was well assigned in this retyping by labs reporting at high resolution. A*24:02 (95%) was reported as the second a locus type. B*15:35 (95%), B*51:01 (100%), C*04:01 (100%), and C*07:02 (100%) were also well assigned. An offspring of this cell was typed numerous times in the exchange as cells 1132, 1145, 1197, and 1256. The offspring shares the A*24:37-B*15:35-C*07:02 haplotype with this cell. The father of cell 1256 was also studied in the exchange as cells 1198, 1253, and extract 241.

References:

1. Street J, Hammond L, Downing J. et al. Observations on the HLA-A2403 specificity. *Tissue Antigens* 2002;61:330-333.
2. Lebedeva TV, Huang A, Janzen M, et al. Identification of novel HLA class I alleles using allele sequencing. *Tissue Antigens* 2003;62:433-435.



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Table 3a: Individual laboratory results for B-cell #531-Class II

Center	Investigator	Low resolution											METHOD	Other Alleles	
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5488	Adams , Sharon			3*02	4*01									SSP SSO SBT	
5462	Arnold , Paula	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02	*03	SSP SSO SBT RT-PCR	
4492	Caillat-Zucman , So	*04	*13	3*PRESENT	4*PRESENT			*03	*06					SSO NGS	
774	Cecka , J. Michael	*04	*13	3*02	4*01	*01	*03	*03	*06			*02	*03	SSP SSO	
3224	Chen , Dong-Feng			3*02	4*01									SSP SSO SBT	
3632	Colombe , Beth W.	*04	*13	3*02	4*01	*01	*03	*03	*06	*01		NT	NT	SSP SSO	
5130	Costeas , Paul A.	*04	*13	3*02	4*01	*01	*03	*03	*06						
779	Daniel , Claude	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02(DP0201)	*03		
5219	Daniel , Dolly	*04	*13					*03	*06					SSO	
8099	Danish , Adel	*04	*13			*01	*03	*03	*06					SSO	
1108	DeConinck , Martha	*04	*13	3*02	4*01	*01	*03	*03	*06	*01				SSO	
87	Di Paola , Nicholas	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02(DP0201)	*03	RT-PCR	
5214	Eckels/CPMC ,	*04	*13	3*02	4*01	*01	*03	*03 (DQ8)	*06	*01	*01	*02(DP0201)	*03	SSO	
747	Ferrari-Lacraz , Sylv	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02	*03		
4079	Fort , Marylise	*04	*13					*03	*06					SSP SSO	
792	Gandhi , Manish	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02	*03	SSP SSO SBT	
8043	Gideon , Osnat	*04	*13			*01	*03	*03	*06					SSP SSO	
8087	Guerra , Q.F.B. Elba	*04	*13			*01	*03	*03	*06					SSO	
810	Hamdi , Nuha	*04	*13	3*02	4*01	*01	*03	*03	*06					SSO	
1694	Hesse , Nicole	*04	*13	3*PRESENT	4*PRESENT			*03	*06					SSP	
771	Israel , Shoshana	*04	*13					*03	*06					SSP SSO	
794	Jaatinen , Taina	*04	*13	3*02	4*01	*01	*03	*03	*06	*01		*02	*03	SSP SSO SBT RT-PCR	
725	Lardy , N.M.	*04	*13	3*PRESENT	4*PRESENT	*01	*03	*03	*06					SSO	
278	Lee , Jar-How	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02	*03		
6649	Lim , Young Ae	*04	*13	3*PRESENT	4*PRESENT									SSP	
2400	Liu , Chang	*04	*13	3*02	4*01	*01	*03	*03	*06			*02	*03	SSP SSO SBT	
731	Loewenthal , Ron	*04	*13			*01	*03	*03	*06					SSO SBT	
206	McAlack , Robert	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02	*03		
8042	Muncher , Liora	*04	*13	3*02	4*01	NT	NT	*03	*06	NT	NT	NT	NT	SSP SSO	
54	Pancoska , Carol	*04	*13	3*02	4*01	*01	*03	*03	*06	*01		*02(DP0201)	*03		
8001	Rao , Prakash	*04	*13	3*02	4*01	*01	*03	*03	*06					SSP SSO	
3519	Renac , Virginie	*04	*13					*03	*06			*02(DP0201)	*03	SSP NGS	
793	Rubocki , Ronald	*04	*13	3*02	4*PRESENT	*01	*03	*03	*06			*02(DP0201)	*03	SSP	
4251	Schiller , Jennifer	*04	*13	3*02	4*01	*01	*03	*03	*06	*01	*01	*02(DP0201)	*03	SSO SBT NGS	
8068	Shanmugam , Hem	*04	*13	3*02	4*01			*03	*06					SSO	
8029	Tarigopula , Anil	*04	*13			*01	*03	*03	*06					SSO	
5451	Tilanus , Marcel G.	*04	*13	3*02	4*01	*01	*03	*03	*06					SSO SBT	
5642	Varnavidou-Nicolaic	*04	*13	3*PRESENT	4*PRESENT			*03	*06					SSP	
2847	Wakita , Atsushi	*04	*13											SSO	
8052	Yanina Marcos , Cir	*04	*13			*01	*03	*03	*06					SSO	

Table 3b: Individual laboratory results for B-cell #531-Class II

High resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*04:07:01	*13:01:01			*01:03	*03:01	*03:02	*06:03			*02:01:02	*03:01:01	SSP SSO SBT	DRB1*04:92
5462	Arnold , Paula	*04:07P	*13:01	3*02:02	4*01:03	*01:03	*03:01P	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01	SSP SSO SBT RT-PCR	DRB1*04:92 DRB3*02:28 DRB3*02:29N DRB3*02:33 DQA1*01:10 DQA1*03:03 DPA1*01:13
5133	Askar , Medhat	*04:07:01	*13:01:01	3*02:02:01	4*01:03:01	*01:03:01	*03:01:01	*03:02:01	*06:03:01	*01:03:01		*02:01:02	*03:01:01	NGS	DRB1*04:92
4492	Caillat-Zucman , S	*04:07	*13:01:01	3*02:02	4*01:03	*01:03:01	*03:01:01	*03:02:01	*06:03:01	*01:03	*01:03	*02:01:02	*03:01:01	SSO NGS	DPA1*01:13
774	Cecka , J. Michae	*04:07	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03			*02:01	*03:01	SSP SSO	DRB1*04:92 DRB1*13:166 DRB1*13:173 DRB1*13:186 DRB3*02:28 DRB3*02:29N DRB4*01:09 DQB1*06:41 DQB1*06:90 DQB1*06:110 DQB1*06:148
8070	Chang , Uckjin	*04:07	*13:01												
9916	Charlton , Ronald	*04:07:01	*13:01:01	3*02:02	4*01:03			*03:02:01	*06:03:01			*02:01:02	*03:01:01	SBT	DRB1*04:92 DRB3*02:30, DRB3*02:32, DRB3*02:33 DRB4*01:10
3224	Chen , Dong-Feng	*04:07:01G	*13:01:01G			*01:03:01	*03:01	*03:02:01	*06:03:01G	*01:03:01		*02:01	*03:01	SSP SSO SBT	
8021	Clark , Brendan	*04:07	*13:01	3*02:02:01	4*01:03	*01:03	*03:01	*03:02	*06:03	*01:03		*02:01	*03:01	NGS	
3632	Colombe , Beth W	*04:07	*13:01	NT	NT	*01:03	*03:01	*03:02	*06:03	*01:03		NT	NT	SSP SSO	
5130	Costeas , Paul A.	*04:07	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03						DQB1*06:61
779	Daniel , Claude					*01:03	*03:01	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01		
5214	Eckels/CPMC ,											*02:01:02G	*03:01:01G	SSO	
3135	Enczmann , J	*04:07	*13:01	3*02:02	4*01:03			*03:02	*06:03			*02:01:02	*03:01:01		
747	Ferrari-Lacraz , Sy	*04:07:01	*13:01:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01		DRB1*13:117 DQA1*03:02 DQA1*03:03 DPA1*01:13 DQA1*01:10
762	Fischer , Gottfried	*04:07:01	*13:01:01	3*02:02:01	4*01:03:01	*01:03:01:02	*03:01:01	*03:02:01	*06:03:01			*02:01:02	*03:01:01	SSO NGS	

Table 3b: Individual laboratory results for B-cell #531-Class II

High resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
4079	Fort , Marylise	*04:07	*13:01			*01:03	*03:01	*03:02	*06:03			*02:01	*03:01	SSP SSO	DQA1*01:10 DRB1*13:117 DQB1*03:85 DRB1*04:92 DRB1*13:105 DRB1*13:112 DQB1*06:41 DQB1*06:90 DQB1*06:110 DQB1*06:148 DQA1*03:02 DQA1*03:03
792	Gandhi , Manish	*04:07	*13:01			*01:03	*03:01	*03:02	*06:03			*02:01	*03:01	SSP SSO	
8043	Gideoni , Osnat	*04:07	*13:01			*01:03	*03:01	*03:02	*06:03					SSP SSO	
810	Hamdi , Nuha	NT												SSO	
2344	Hurley , Hartzman	*04:07:01	*13:01:01			*01:03:01:01	*03:01:01	*03:02:01	*06:03:01	*01:03:01:01	*01:03:01:03	*02:01:02	*03:01:01	SSO NGS	DQA1*01:03:01:02
771	Israel , Shoshana	*04:07	*13:01					*03:02	*06:03					SSP SSO	
794	Jaatinen , Taina	*04:07	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03	*01:03		*02:01	*03:01	SSP SSO SBT RT-PCR	DPB1*414:01 DPB1*124:01 DRB1*13:105 DRB1*04:92 DRB1*13:117 DRB1*13:166 DRB1*13:190 DRB4*01:09 DQA1*01:10 DQA1*03:02 DQA1*03:03 DPB1*352:01 DPB1*416:01 DPA1*01:13 DPB1*104:01
8086	Keming , Du	*04:07	*13:01			*01:03	*03:01	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01	SSP SSO SBT	DRB1*13:112 DRB1*04:92 DRB1*13:105 DRB1*13:166 DRB1*13:173 DRB1*13:117 DRB1*13:121
4337	Kim , Tai-Gyu	*04:07	*13:01					*03:02	*06:03			*02:01	*03:01	SSP SBT	
278	Lee , Jar-How	*04:07	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01		
2400	Liu , Chang	*04:07:01G	*13:01			*01:03	*03:01	*03:02	*06:03			*02:01:02G	*03:01:01G	SSP SSO SBT	
731	Loewenthal , Ron	*04:07:01G	*13:01:01G					*03:02:01	*06:03:01					SSO SBT	
8042	Muncher , Liora	*04:07	*13:01	3*02:02	4*01:03	NT	NT	*03:02	*06:03	NT	NT	NT	NT	SSP SSO	
3966	Permpikul , Vejba	*04:07	*13:01	3*02:02	4*01:03			*03:02	*06:03					SSP	
8001	Rao , Prakash	*04:07	*13:01					*03:02	*06:03			*02:01	*03:01:01G	SSP SSO	

Table 3b: Individual laboratory results for B-cell #531-Class II

High resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
3753	Reed , Elaine F.	*04:07:01G	*13:01	3*02:02:01G	4*01:01	*01:03	*03:01:01G	*03:02	*06:03	*01:03	*01:03	*02:01	*03:01:01G	SSO SBT	DRB4*01:09 DQB1*03:23 DQB1*06:32 DRB4*01:03 DQA1*01:10 DQB1*03:08 DQB1*06:63 DPA1*01:13 DPB1*461:01 DRB4*01:06 DPB1*352:01 DPB1*414:01
3519	Renac , Virginie	*04:07	*13:01			*01:03	*03:01	*03:02	*06:03			*02:01	*03:01	SSP NGS	
793	Rubocki , Ronald					*01:03	*03:01					*02:01	*03:01	SSP	
4251	Schiller , Jennifer	*04:07:01G	*13:01			*01:03	*03:01	*03:02	*06:03	*01:03	*01:03	*02:01:02G	*03:01:01G	SSO SBT NGS	
5451	Tilanus , Marcel G	*04:07:01	*13:01:01											SSO SBT	
5642	Varnavidou-Nicola	*04:07	*13:01					*03:02	*06:03					SSP	
3511	Zeevi , Adriana	*04:07	*13:01	3*02:02	4*01:03	*01:03	*03:01	*03:02	*06:03			*02:01	*03:01	SSP SSO	

Table 4: Individual laboratory results for B-cell #531-Class II

	Serology								
CTR	DIRNAME	DR4	DR13	DR52	DR53	DQ1	DQ3	OTH1	OTH2
910	Hahn,Amy B.	+	+	+	+	+	+		

Table 5: Individual laboratory results for B-cell #531-Class I

Center	Investigator	Low resolution						High/Intermediate resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon			*15	*51			*02:01	*24:23			*03:03:01	*03:04:01	SSP SSO SBT	C*03:227 A*02:327 C*03:20N A*02:294
5462	Arnold , Paula	NT												SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*02:01:01:01	*24:23	*15:01:01:01	*51:01:01:01	*03:03:01	*03:04:01	NGS	
4492	Caillat-Zucman , Sc							*02:01:01	*24:23	*15:01:01	*51:01:01	*03:03:01	*03:04:01	SSO NGS	
774	Cecka , J. Michael	*02	*24	*15	*51	*03	*03							SSP SSO	
9916	Charlton , Ronald K							*02:01	*24:23	*15:01	*51:01	*03:03:01	*03:04:01	SBT	A*02:294 B*51:193 A*02:43N A*02:327
3224	Chen , Dong-Feng							*02:01	*24:23	*15:01	*51:01:01G	*03:03	*03:04	SSP SSO SBT	
8021	Clark , Brendan							*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	NGS	
5130	Costeas , Paul A.	*02	*24	*15	*51	*03	*03	*02:01	*24:02/23	*15:01	*51:01	*03:03	*03:04		B*15:228 B*51:41N B*51:84 B*51:94
779	Daniel , Claude	*02	*24	*15	*51	*03	*03			*15:01		*03:03	*03:04		
5219	Daniel , Dolly	*02	*24	*15	*51	*03	*03							SSO	
8099	Danish , Adel	*02	*24	*15	*51	*03	*03							SSO	
1108	DeConinck , Martha	*02	*24	*15	*51	*03								SSO	
87	Di Paola , Nicholas	*02	*24	*15	*51	*03	*03							RT-PCR	
5214	Eckels/CPMC ,	*02	*24	*15 (B62)	*51	*03 (Cw9)	*03 (Cw10)							SSO	
3135	Enczmann , J							*02:01	*24:23	*15:01	*51:01	*03:03	*03:04		A*02:01L
747	Ferrari-Lacraz , Sylv	NT													
792	Gandhi , Manish	*02	*24	*15	*51	*03	*03	*02:01	*24:23	*15:01	*51:01	*03:03:01	*03:04	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*02	*24	*15	*51	*03	*03							SSO	
810	Hamdi , Nuha	*02	*24	*15	*51	*03	*03							SSO	
1694	Hesse , Nicole	*02	*24	*15	*51	*03								SSP	
2344	Hurley , Hartzman&							*02:01:01:01	*24:23	*15:01:01:01	*51:01:01	*03:03:01	*03:04:01:02	SSO NGS	
794	Jaatinen , Taina	*02	*24	*15	*51	*03		*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP SSO SBT RT-PCR	A*02:327 C*03:227 A*02:294
8086	Keming , Du							*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP SSO SBT	A*02:294 A*02:327
4337	Kim , Tai-Gyu							*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP SBT	
278	Lee , Jar-How	*02	*24	*15	*51	*03	*03	*02:01	*24:23	*15:01	*51:01	*03:03	*03:04		
2400	Liu , Chang	*02	*24	*15	*51	*03	*03	*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP SSO SBT	
206	McAlack , Robert	*02	*24	*15	*51	*03	*03								
8042	Muncher , Liora	*02	*24	*15	*51	*03	*03	*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP SSO	
54	Pancoska , Carol	*02	*24	*15	*51	*03									
3966	Permpikul , Vejbaes	*02	*24	*15	*51	*03	*03			*15:01				SSP	

Table 5: Individual laboratory results for B-cell #531-Class I

Center	Investigator	Low resolution						High/Intermediate resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
3753	Reed , Elaine F.							*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSO SBT	C*03:20N B*15:56 B*51:02 B*51:104 B*51:185 C*03:46 B*15:135 B*51:07 B*51:37 B*51:63 B*51:147 A*02:327 B*15:30 B*15:38 B*15:39 B*51:61 B*51:193 A*02:294 C*03:227 B*15:04 B*15:63 B*15:239 B*15:202 B*51:06
3519	Renac , Virginie	*02	*24	*15	*51	*03		*02:01	*24:23	*15:01	*51:01	*03:03	*03:04	SSP NGS	
4251	Schiller , Jennifer	*02	*24	*15	*51	*03	*03	*02:01	*24:23	*15:01	*51:01	*03:03:01G	*03:04	SSO SBT NGS	
8068	Shanmugam , Hem	*02	*24	*15	*51	*03								SSO	
8029	Tarigopula , Anil	*02	*24	*15	*51	*03	*03							SSO	
2847	Wakita , Atsushi	*02	*24	*15	*51	*03	*03							SSO	
8052	Yanina Marcos , Ci	*02	*24	*15	*51	*03	*03							SSO	

Table 6a: Individual laboratory results for B-cell #532-Class II

Low resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon			3*03	5*01									SSP SSO SBT	
5462	Arnold , Paula	*12	*15	3*03	5*01	*01	*06	*03	*05	*02		*01	*05	SSP SSO SBT RT-PCR	
4492	Caillat-Zucman , Sc	*12	*15	3*PRESENT	5*PRESENT			*03	*05					SSO NGS	
774	Cecka , J. Michael	*12	*15	3*03	5*01	*01	*06	*03	*05			*01	*05	SSP SSO	
3224	Chen , Dong-Feng				5*01									SSP SSO SBT	
3632	Colombe , Beth W.	*12	*15	3*03	5*01	*01	*06	*03	*05	*02		*01	*05	SSP SSO	
5130	Costeas , Paul A.	*12	*15	3*03	5*01	*01	*06	*03	*05						
779	Daniel , Claude	*12	*15	3*03	5*01	*01	*06	*03	*05	*02		*01	*05		
5219	Daniel , Dolly	*12	*15					*03	*05					SSO	
8099	Danish , Adel	*12	*15			*01	*06	*03	*05					SSO	
1108	DeConinck , Martha	*12	*15	3*03	5*01	*01	*06	*03	*05	*02				SSO	
87	Di Paola , Nicholas	*12	*15	3*03	5*01	*01	*06	*03	*05	*02	*02	*01	*05	RT-PCR	
5214	Eckels/CPMC ,	*12	*15	3*03	5*01	*01	*06	*03 (DQ7)	*05	*02		*01	*05	SSO	
747	Ferrari-Lacraz , Syl	*12	*15	3*03	5*01			*03	*05			*01	*05		
4079	Fort , Marylise	*12	*15					*03	*05					SSP SSO	
792	Gandhi , Manish	*12	*15	3*03	5*01	*01	*06	*03	*05	*02	*02	*01	*05	SSP SSO SBT	
8043	Gideoni , Osnat	*12	*15			*01	*06	*03	*05					SSP SSO	
8087	Guerra , Q.F.B. Elb	*12	*15			*01	*06	*03	*05					SSO	
810	Hamdi , Nuha	*12	*15		5*01	*01	*06	*03	*05					SSO	
1694	Hesse , Nicole	*12	*15	3*PRESENT	5*PRESENT			*03	*05					SSP	
771	Israel , Shoshana	*12	*15					*03	*05					SSP SSO	
794	Jaatinen , Taina	*12	*15	3*03	5*01	*01	*06	*03	*05	*02		*01	*05	SSP SSO SBT RT-PCR	
725	Lardy , N.M.	*12	*15	3*PRESENT	5*PRESENT	*01	*06	*03	*05					SSO	
278	Lee , Jar-How	*12	*15	3*03	5*01	*01	*06	*03	*05	*02	*02	*01	*05		
6649	Lim , Young Ae	*12	*15	3*PRESENT	5*PRESENT									SSP	
2400	Liu , Chang	*12	*15	3*03	5*01	*01	*06	*03	*05			*01	*05	SSP SSO SBT	
731	Loewenthal , Ron	*12	*15			*01	*06	*03	*05					SSO SBT	
206	McAlack , Robert	*12	*15	3*03	5*01	*01	*06	*03	*05	*02	*02	*01	*05		
8042	Muncher , Liora	*12	*15	NT	NT	NT	NT	*03	*05	NT	NT	NT	NT	SSP SSO	
54	Pancoska , Carol	*12	*15	3*03	5*01	*01	*06	*03	*05	*02		*01	*05		
8001	Rao , Prakash	*12	*15	3*03	5*01	*01	*06	*03	*05					SSP SSO	
3519	Renac , Virginie	*12	*15					*03	*05			*01	*05	SSP NGS	
793	Rubocki , Ronald	*12	*15	3*03	5*PRESENT	*01	*06	*03	*05			*01	*05	SSP	
4251	Schiller , Jennifer	*12	*15	3*03	5*01	*01	*06	*03	*05	*02	*02	*01	*05	SSO SBT NGS	
8068	Shanmugam , Hem	*12	*15	3*03	5*01			*03	*05					SSO	
8029	Tarigopula , Anil	*12	*15			*01	*06	*03	*05					SSO	
5451	Tilanus , Marcel G.	*12	*15	3*03	5*01	*01	*06	*03	*05					SSO SBT	
5642	Varnavidou-Nicolaic	*12	*15	3*PRESENT	5*PRESENT			*03	*05					SSP	
2847	Wakita , Atsushi	*12	*15											SSO	
8052	Yanina Marcos , Cir	*12	*15			*01	*06	*03	*05					SSO	

Table 6b: Individual laboratory results for B-cell #532-Class II

High resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*12:02	*15:02			*01:02	*06:01	*03:01:01	*05:02:01			*01:01:01	*05:01:01	SSP SSO SBT	
5462	Arnold , Paula	*12:02	*15:02	3*03:01	5*01:01	*01:02P	*06:01	*03:01	*05:02	*02:02P		*01:01	*05:01	SSP SSO SBT RT-PCR	DQA1*01:08 DQA1*01:11 DPA1*02:06 DRB5*01:15 DRB5*01:16 DRB5*01:17
5133	Askar , Medhat	*12:02:01	*15:02:01	3*03:01:03	5*01:01:01	*01:02:01	*06:01:01	*03:01:01	*05:02:01	*02:02:02		*01:01:01	*05:01:01	NGS	
4492	Caillat-Zucman , Sc	*12:02:01	*15:02:01	3*03:01	5*01:01	*01:02:01	*06:01:01	*03:01:01	*05:02:01	*02:02		*01:01:01	*05:01:01	SSO NGS	
774	Cecka , J. Michael	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02			*01:01	*05:01	SSP SSO	DRB5*01:16 DRB5*01:17 DQB1*03:73 DQB1*03:92 DQB1*03:93
8070	Chang , Uckjin	*12:02	*15:02												
9916	Charlton , Ronald K	*12:02:01	*15:02:01	3*03:01	5*01:01			*03:01:01	*05:02:01			*01:01:01	*05:01:01	SBT	DRB3*03:04 DRB5*01:17 DRB5*01:16
3224	Chen , Dong-Feng	*12:02	*15:02	3*03:01	NT	*01:02	*06:01	*03:01	*05:02	*02:02		*01:01	*05:01	SSP SSO SBT	
8021	Clark , Brendan	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02	*02:02		*01:01	*05:01	NGS	
3632	Colombe , Beth W.	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02	*02:02		*01:01	*05:01	SSP SSO	
5130	Costeas , Paul A.	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02						
779	Daniel , Claude					*01:02	*06:01	*03:01	*05:02	*02:02		*01:01	*05:01		
5214	Eckels/CPMC ,			3*03:01								*01:01:01G	*05:01:01G	SSO	
3135	Enczmann , J	*12:02	*15:02	3*03:01:03	5*01:01			*03:01	*05:02			*01:01	*05:01:01		
747	Ferrari-Lacraz , Syl	*12:02:01	*15:02:01	3*03:01:03	5*01:01:01	*01:09	*06:01	*03:01:01	*05:02:01	*02:02	*02:02	*01:01:01	*05:01:01		DPA1*02:06 DPA1*02:06
762	Fischer , Gottfried	*12:02:01	*15:02:01	3*03:01:03	5*01:01:01	*01:02:01	*06:01:01	*03:01:01	*05:02:01			*01:01:01	*05:01:01	SSO NGS	
4079	Fort , Marylise	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02			*01:01	*05:01	SSP SSO	DQB1*03:29 DQB1*03:35 DQB1*03:42 DQB1*05:17 DQB1*05:19 DQB1*05:34 DQB1*05:36 DQB1*05:37 DQB1*05:46 DQA1*01:08 DQB1*05:57 DQA1*01:11 DQB1*03:27 DQB1*03:28
792	Gandhi , Manish	*12:02	*15:02					*03:01	*05:02			*01:01	*05:01	SSP SSO SBT	
8043	Gideoni , Osnat	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02					SSP SSO	

Table 6b: Individual laboratory results for B-cell #532-Class II

High resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
810	Hamdi , Nuha			3*03:01										SSO	
2344	Hurley , Hartzman	*12:02:01	*15:02:01			*01:02:01:01	*06:01:01	*03:01:01:01	*05:02:01	*02:02:02	*02:02:02	*01:01:01	*05:01:01	SSO NGS	DQA1*01:02:01:04 DQB1*03:01:01:02 DQB1*03:01:01:03 DQA1*01:02:01:02 DQA1*01:02:01:03
771	Israel , Shoshana	*12:02	*15:02					*03:01	*05:02					SSP SSO	
794	Jaatinen , Taina	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02	*02:02		*01:01	*05:01	SSP SSO SBT RT-PCR	DRB5*01:15 DQA1*01:11 DPB1*417:01 DPB1*135:01 DQA1*01:08
8086	Keming , Du	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02	*02:02	*02:02	*01:01	*05:01	SSP SSO SBT	DRB1*15:19
4337	Kim , Tai-Gyu	*12:02	*15:02					*03:01	*05:02			*01:01	*05:01	SSP SBT	
278	Lee , Jar-How	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02	*02:02	*02:02	*01:01	*05:01		
2400	Liu , Chang	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02			*01:01:01G	*05:01:01G	SSP SSO SBT	
731	Loewenthal , Ron	*12:02	*15:02					*03:01:01	*05:02:01					SSO SBT	
8042	Muncher , Liora	*12:02	*15:02					*03:01	*05:02					SSP SSO	
3966	Permpikul , Vejbae	*12:02	*15:02	3*03:01	5*01:01			*03:01	*05:02					SSP	
8001	Rao , Prakash	*12:02	*15:02					*03:01:01G	*05:02:01G			*01:01	*05:01:01G	SSP SSO	
3753	Reed , Elaine F.	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02	*02:02	*02:02	*01:01	*05:01	SSO SBT	DPB1*327:01 DPB1*346:01 DPB1*326:01 DPB1*417:01 DPB1*436:01 DPB1*135:01 DPB1*300:01 DQA1*01:08 DQA1*01:11 DQB1*03:73 DPB1*403:01N DPB1*226:01 DPB1*317:01 DPB1*395:01 DQB1*05:05 DRB5*01:15 DQB1*03:29 DQB1*05:79
3519	Renac , Virginie	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02			*01:01	*05:01	SSP NGS	
793	Rubocki , Ronald					*01:02	*06:01					*01:01	*05:01	SSP	
4251	Schiller , Jennifer	*12:02	*15:02			*01:02	*06:01	*03:01	*05:02	*02:02	*02:02	*01:01	*05:01	SSO SBT NGS	
5451	Tilanus , Marcel G.	*12:02:01	*15:02:01											SSO SBT	
5642	Varnavidou-Nicolai	*12:02	*15:02					*03:01	*05:02					SSP	
3511	Zeevi , Adriana	*12:02	*15:02	3*03:01	5*01:01	*01:02	*06:01	*03:01	*05:02			*01:01	*05:01	SSP SSO	

Table 7: Individual laboratory results for B-cell #532-Class II									
Serology									
CTR	DIRNAME	DR12	DR15	DR52	DR51	DQ1	DQ7	OTH1	OTH2
910	Hahn,Amy B.	+	+	+	+	+	+		

Table 8: Individual laboratory results for B-cell #532-Class I

Center	Investigator	Low resolution						High/Intermediate resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon					*04	*07	*24:02	*24:37	*15:35	*51:01:02			SSP SSO SBT	
5462	Arnold , Paula	NT						NT						SSP SSO SBT RT-PCR	
5133	Askar , Medhat							*24:02:01:01	*24:37	*15:35	*51:01:02	*04:01:01:01	*07:02:01:01	NGS	
4492	Caillat-Zucman , Sc							*24:02:01	*24:37	*15:35	*51:01:02	*04:01:01	*07:02:01	SSO NGS	
774	Cecka , J. Michael	*24		*15	*51	*04	*07			*15:35	*51:01			SSP SSO	
9916	Charlton , Ronald K							*24:02	*24:37	*15:35	*51:01:02	*04:01:01	*07:02:01	SBT	A*24:11N
3224	Chen , Dong-Feng							*24:02	*24:37	*15:35	*51:01	*04:01:01G	*07:02:01G	SSP SSO SBT	
8021	Clark , Brendan							*24:02:01	*24:37	*15:35	*51:01	*04:01	*07:02	NGS	
5130	Costeas , Paul A.	*24	*24	*15	*51	*04	*07	*24:02/37	*24:37	*15:35	*51:01	*04:01	*07:02		
779	Daniel , Claude	*24		*15	*51	*04	*07			*15:35					
5219	Daniel , Dolly	*24	*24	*15	*51	*04	*07							SSO	
8099	Danish , Adel	*24	*24	*15	*51	*04	*07							SSO	
1108	DeConinck , Martha	*24		*15	*51	*04	*07							SSO	
87	Di Paola , Nicholas	*24	*24	*15	*51	*04	*07							RT-PCR	
5214	Eckels/CPMC ,	*24		*15 (B62)	*51	*04	*07							SSO	
3135	Enczmann , J							*24:02	*24:37	*15:35	*51:01	*04:01	*07:02		C*04:09N
747	Ferrari-Lacraz , Syl	*24	*24	*15	*51	*04	*07	*24:02:01:01	*24:37	*15:35	*51:01:02	*04:01:01:01	*07:02:01:01		
792	Gandhi , Manish	*24	*24	*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP SSO SBT	
8087	Guerra , Q.F.B. Elb	*24	*24	*15	*35	*04	*07							SSO	
810	Hamdi , Nuha	*24	*24			*04	*07			*15:35	*51:01			SSO	
1694	Hesse , Nicole	*24		*15	*51	*04	*07							SSP	
2344	Hurley , Hartzman&							*24:02:01:01	*24:37	*15:35	*51:01:02	*04:01:01:01	*07:02:01:01	SSO NGS	
794	Jaatinen , Taina	*24		*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP SSO SBT RT-PCR	C*04:30 C*04:82 C*07:50 C*07:349
8086	Keming , Du							*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP SSO SBT	
4337	Kim , Tai-Gyu							*24:02	*24:37	*15:35	*51:01:02	*04:01	*07:02	SSP SBT	
278	Lee , Jar-How	*24	*24	*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02		
2400	Liu , Chang	*24	*24	*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP SSO SBT	
206	McAlack , Robert	*24	*24	*15	*51	*04	*07								
8042	Muncher , Liora	*24	*24	*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP SSO	
54	Pancoska , Carol	*24		*15	*51	*04	*07								
3966	Permpikul , Vejbae	*24	*24	*15	*51	*04	*07			*15:01				SSP	

Table 8: Individual laboratory results for B-cell #532-Class I

		Low resolution						High/Intermediate resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
3753	Reed , Elaine F.							*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSO SBT	C*04:29 C*07:50 C*07:76 C*07:172 C*07:402 C*04:61 C*04:82 C*07:307 C*07:125 C*04:07 C*04:42 C*07:241 C*04:220 C*04:226 C*04:09N C*04:30 C*04:58 C*04:04 C*04:166 C*07:37 C*07:64 C*07:349
3519	Renac , Virginie	*24		*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSP NGS	
4251	Schiller , Jennifer	*24	*24	*15	*51	*04	*07	*24:02	*24:37	*15:35	*51:01	*04:01	*07:02	SSO SBT NGS	
8068	Shanmugam , Hem	*24		*15	*51	*04	*07							SSO	
8029	Tarigopula , Anil	*24	*24	*15	*51	*04	*07							SSO	
2847	Wakita , Atsushi	*24		*15	*51	*04	*07							SSO	
8052	Yanina Marcos , Cil	*24	*24	*15	*51	*04	*07							SSO	