

B-CELL LINE EXCHANGE #268

B-cell Lines 535-536

APRIL 1, 2017

The results for B-cell Line Exchange #268 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We would like express our appreciation to **Helen Bass, Jane Rowlands, and Tracey Reese, Welsh Blood Service, Pontyclun**, for providing the valuable reference cells studied in our exchanges. We also wish to thank the

labs performing NGS typing 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, <http://bioinformatics.nmdp.org/>.

Ter-535. The reported consensus type for this sample from a Caucasian donor is DRB1*04:01-DRB1*11:01-DRB3*02:02-DRB4*01:03-DQA1*03:03-DQA1*05:05-DQB1*03:01-DPA1*01:03-DPB1*03:01-DPB1*04:01/A*02:01-A*02:05-B*39:25N-B*50:01-C*06:02-C*12:03. One likely association present in this cell is A*02:05-B*50:01-DRB1*04:01. This rare association is observed exclusively in Caucasians, with HF=0.00006. The other likely association present may then be A*02:01-B*39:25N-DRB1*11:01.

This cell was studied in the 13th International Workshop as cell 13W09502 and is the reference cell for B*39:25N. It was also previously typed for class I in the DNA Extract Exchange as extracts 431 (2008), 303 (2004), and 226 (2002). In the initial 2002 typing, only 65% (13/20) of labs reporting at high resolution assigned B*39:25N. In this present retyping, B*39:25N was assigned by 90% (17/19). B*50:01 (100%) was reported as the second B-locus type, with 5 labs reporting B*50:01:01. Two subtypes of A*02 were present in this cell, A*02:01 (A*02:01:01) and A*02:05 (A*02:05:01), each assigned by 100%. The C-locus types were reported as C*06:02 (100%) and C*12:03 (100%), with NGS assigning C*06:02:01:02 and C*12:03:01:01. For class II, DRB1*04:01 and DRB1*11:01 were each reported in complete consensus, with 7 labs assigning DRB1*04:01:01 and 6 labs assigning DRB1*11:01:01. DQB1*03:01 (100%) was reported as the sole DQB1 type, with 6 labs assigning DQB1*03:01:01.

Ter-536. The consensus type for this sample from a Caucasian donor is DRB1*01:03-DRB1*07:01-DRB4*01:03:01:02N-DQA1*01:01-DQA1*02:01-DQB1*03:03-DQB1*05:01-DPA1*01:03-DPB1*03:01-DPB1*04:01/A*11:01-A*26:01-B*35:41-B*38:01-C*04:01-C*12:03. One possible association in this cell is A*26:01-B*38:01-DRB1*07:01, exclusively observed in Caucasians, with HF=0.00022. The other possible association may then be A*11:01:01-B*35:41-DRB1*01:03-DQB1*05:01:01, observed in MDA0000097 and 2HT21, 2 of the reference cells for B*35:41.

This cell was previously typed as Ter-388 (2007), as astutely noted by Rao. In this present retyping, DRB1*01:03 and DRB1*07:01 were well assigned by 100% of labs reporting at high resolution. DRB1*07:01:01 was assigned by 7 labs. DQB1*03:03 (100%) and DQB1*05:01 (100%) were the reported DQB1 types, with DQB1*03:03:02 and DQB1*05:01:01 assigned by 8 and 7 labs, respectively. For class I, A*11:01, A*26:01, B*35:41, and B*38:01 were well assigned by 100% of labs reporting at high resolution. A*11:01:01 and A*26:01:01 were each reported by 5 labs, while B*38:01:01 was reported by 6 labs. C*04:01 (100%) and C*12:03 (100%) were the assigned C-locus types, with 4 labs (3 NGS + 1 SBT) assigning C*04:01:01:05 and 3 NGS labs assigning C*12:03:01:01.

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Table 1: Summary of the 268th B-cell Line Exchange

Ter-535

DNA Typing - class II		<u>32 labs High; 30 labs low-DRB1</u>		<u>19 labs High; 22 labs Low-DRB3/4/5</u>		<u>20 labs High; 24 labs Low-DQA1</u>		<u>31 High Labs; 28 labs Low-DQB1</u>		<u>14 High Labs; 12 labs Low-DPA1</u>		<u>28 High Labs; 16 labs Low-DPB1</u>		
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)		
DNA Typing - class II	DRB1*04:01:01	22(7)		DRB3*02:02:01:02	5 (1)	DQA1*03:03:01	15(3)	DQB1*03:01:01:01	6 (2)	DPA1*01:03:01:02	7 (1)	DPB1*03:01:01	14(4)	
	DRB1*04:01	78(25)		DRB3*02:02:01	11(2)	DQA1*03:03	75(15)	DQB1*03:01:01	13(4)	DPA1*01:03:01	7 (1)	DPB1*03:01:01G	11(3)	
	DRB1*04	100(30)		DRB3*02:02:01	5 (1)	DQA1*03:02/03	10(2)	DQB1*03:01:01G	3 (1)	DPA1*01:03	86(12)	DPB1*03:01P	4 (1)	
				DRB3*02:02	79(15)	DQA1*03	96(23)	DQB1*03:01	77(24)	DPA1*01	100(12)	DPB1*03:01	71(20)	
				DRB3*02	86(19)	DQA1*01	4 (1)	DQB1*03(DQ7)	4 (1)			DPB1*03	100(16)	
				DRB3*PRESENT	14(3)			DQB1*03	96(27)					
DNA Typing - class I														
DNA Typing - class I														
DNA Typing - class I														

Table 3a: Individual laboratory results for B-cell #535-Class II

Center	Investigator	Low resolution										METHOD	Other Alleles		
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1				DPB1	
5462	Arnold , Paula	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04(DP401)	SSP SSO SBT	
774	Cecka , J. Michael	*04	*11	3*02	4*01	*03	*05	*03		*01		*03	*04(DP401)	SSP SSO	
3632	Colombe , Beth W.	*04	*11	3*02	4*01	*03	*05	*03		*01		*03	*04	SSP SSO	
5130	Costeas , Paul A.	*04	*11	3*02	4*01	*03	*05	*03	*03			*03	*04	SSP SSO	
779	Daniel , Claude	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04(DP401)	SSP SSO	
5219	Daniel , Dolly	*04	*11			*03	*05	*03	*03					SSO	
87	Di Paola , Nicholas	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04(DP401)	SSO	
4079	Fort , Marylise	*04	*11					*03						SSP	
792	Gandhi , Manish	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04	SSP SSO SBT	
8043	Gideoni , Osnat	*04	*11			*03	*05	*03						SSP SSO	
810	Hamdi , Nuha	*04	*11	3*02	4*01	*03	*05	*03	*03					SSO	
8087	Hernandez Rosales	*04	*11			*01	*05	*03	*06					SSO	
771	Israel , Shoshana	*04	*11					*03						SSP SSO	
794	Jaatinen , Taina	*04	*11	3*02	4*01	*03	*05	*03		*01		*03	*04	SSP SSO SBT RT-PCR	
5488	Khuu , Hanh			3*02	4*01									SSP SSO SBT	
725	Lardy , N.M.	*04	*11	3*PRESENT	4*PRESENT	*03	*05	*03						SSP SSO	
278	Lee , Jar-How	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04		
6649	Lim , Young Ae	*04	*11	3*PRESENT	4*PRESENT									SSP	
2400	Liu , Chang	*04	*11	3*02	4*01	*03	*05	*03	*03			*03	*04	SSP SSO SBT NGS	
731	Loewenthal , Ron	*04	*11			*03	*05	*03						SSP SSO SBT	
206	McAlack , Robert	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04	SSO	
735	Moussa , Omar	*04	*11	3*02	4*01	*03	*05	*03		*01		*03	*04(DP401)	SSO	DPB1*124 DPB1*104
3966	Permpikul , Vejbae													SSP	
8001	Rao , Prakash					*03	*05							SSP SSO	
3519	Renac , Virginie	*04	*11					*03				*03	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*04	*11	3*02	4*PRESENT	*03	*05	*03				*03	*04(DP401)	SSP	
4251	Schiller , Jennifer	*04	*11	3*02	4*01	*03	*05	*03	*03	*01	*01	*03	*04(DP401)	SSO NGS	
8068	Shanmugam , Hem	*04	*11	3*02	4*01			*03						SSO	
8029	Tarigopula , Anil	*04	*11			*03	*05	*03	*03					SSO	
5451	Tilanus , Marcel G.	*04	*11	3*02	4*01	*03	*05	*03						SSP SSO SBT	
5642	Varnavidou-Nicolaie	*04	*11	3*PRESENT	4*PRESENT			*03						SSP	
2847	Wakita , Atsushi	*04	*11											SSO	

Table 3b: Individual laboratory results for B-cell #535-Class II

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	*01:03	NT	*03:01P	*04:01P	SSP SSO SBT	DPB1*124:01 DPB1*459:01 DPB1*534:01 DPB1*104:01 DPB1*350:01 DPB1*464:01
5133	Askar , Medhat	*04:01:01	*11:01:01	3*02:02:01	4*01:03:01	*03:03:01	*05:05:01:01	*03:01:01		*01:03:01		*03:01:01	*04:01:01	NGS	DPB1*350:01 DPB1*124:01
4492	Caillat-Zucman , Sc	*04:01:01	*11:01:01	3*02:02	4*01:03	*03:03:01	*05:05:01	*03:01:01	*03:01:01			*03:01:01	*04:01:01	SSP SSO NGS	DPB1*350:01 DPB1*124:01
774	Cecka , J. Michael	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01		*01:03		*03:01	*04:01	SSP SSO	DRB1*04:171 DRB1*04:175 DRB1*11:157 DRB1*11:158 DRB3*02:28 DRB3*02:29N DRB4*01:09 DRB4*01:10 DQB1*03:101 DQB1*03:92 DQB1*03:93 DQB1*03:103 DQB1*03:108 DQB1*03:121 DQB1*03:122 DQB1*03:127 DQB1*03:128 DQB1*03:129+ DPA1*01:13 DRB1*11:97 DRB1*11:100 DRB1*11:117
8070	Chang , Uckjin	*04:01	*11:01											SSP SSO SBT	
9916	Charlton , Ronald K	*04:01	*11:01	3*02:02	4*01:03			*03:01:01				*03:01	*04:01	SSP SSO SBT	DPB1*350:01 DPB1*124:01
3224	Chen , Dong-Feng	*04:01	*11:01:01G	3*02:02:01G	4*01:01:01G	NT	NT	*03:01	*03:01	NT	NT	NT	NT	SSP SSO SBT	
8021	Clark , Brendan	*04:01	*11:01	3*02:02:01	4*01:03	*03:03	*05:05	*03:01		*01:03		*03:01	*04:01	SSO NGS	
3632	Colombe , Beth W.	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01		*01:03		*03:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01	*03:01			*03:01	*04:01	SSP SSO	DRB1*11:94
779	Daniel , Claude					*03:03	*05:05	*03:01	*03:01	*01:03	*01:03	*03:01	*04:01	SSP SSO	
8086	Du , Keming	*04:01	*11:01			*03:03	*05:05	*03:01	*03:01	*01:03	*01:03	*03:01	*04:01	SSO SBT	
5214	Eckels/CPMC									*01:03		*03:01:01G	*04:01:01G	SSO	
3135	Enczmann , J	*04:01	*11:01	3*02:02	4*01:03			*03:01	*03:01			*03:01	*04:01		
747	Ferrari-Lacraz , Syl	*04:01:01	*11:01:01	3*02:02:01:02	4*01:03:01	*03:02/ *03:03	*05:05	*03:01:01:01	*03:01:01	*01:03	*01:03	*03:01:01	*04:01:01:01	SSP SSO NGS	DPA1*01:13 DPB1*124:01 DQA1*05:09 DPB1*350:01
762	Fischer , Gottfried	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01				*03:01	*04:01	SSO NGS	DPB1*124:01 DPB1*350:01
4079	Fort , Marylise											*03:01	*04:01	SSP	

Table 3b: Individual laboratory results for B-cell #535-Class II

		Intermediate/High resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
792	Gandhi , Manish	*04:01	*11:01					*03:01	*03:01			*03:01	*04:01	SSP SSO SBT	DPB1*124:01 DPB1*350:01
8043	Gideoni , Osnat	*04:01	*11:01					*03:01						SSP SSO	
810	Hamdi , Nuha													SSO	
2344	Hurley & Hartzman	*04:01:01	*11:01:01			*03:03:01	*05:05:01:01	*03:01:01:01	*03:01:01:03	01:03:01:02	*01:03:01:03	*03:01:01	*04:01:01:01	NGS	DQA1*05:05:01:02 DQA1*05:05:01:03 DPB1*124:01 DPB1*04:01:01:02 DPB1*350:01
771	Israel , Shoshana	*04:01	*11:01					*03:01						SSP SSO	
794	Jaatinen , Taina	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01		*01:03		*03:01	*04:01	SSP SSO SBT RT-PCR	DRB1*11:97 DRB1*11:100 DRB4*01:09 DPB1*459:01 DPB1*464:01 DQA1*03:02 DQA1*05:09 DQA1*05:11 DPA1*01:13 DPB1*104:01 DPB1*124:01 DPB1*350:01
5488	Khuu , Hanh	*04:01:01	*11:01:01			*03:03	*05:05	*03:01:01				*03:01	*04:01	SSP SSO SBT	DRB1*04:63 DPB1*124:01 DRB1*11:175 DPB1*350:01
4337	Kim , Tai-Gyu	*04:01	*11:01					*03:01	*03:01			*03:01	*04:01	SBT	
278	Lee , Jar-How	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01	*03:01	*01:03	*01:03	*03:01	*04:01		
2400	Liu , Chang	*04:01	*11:01			*03:03	*05:05	*03:01	*03:01			*03:01:01G	*04:01:01G	SSP SSO SBT NGS	
731	Loewenthal , Ron	*04:01:01	*11:01:01G					*03:01:01G						SSP SSO SBT	
3966	Permpikul , Vejbaes	*04:01	*11:01	3*02:02	4*01:03			*03:01	*03:01					SSP	
8001	Rao , Prakash	*04:01	*11:01	3*02:02	4*01:03			*03:01				*03:01:01G	*04:01	SSP SSO	

Table 3b: Individual laboratory results for B-cell #535-Class II

Center	Investigator	Intermediate/High resolution												METHOD	Other Alleles	
		DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1				
																DRB1*04:35 DRB1*04:63 DRB1*04:179 DRB1*11:08 DRB1*11:37 DRB1*11:175 DRB3*02:29N DRB3*02:28 DRB3*02:33V DRB4*01:06 DRB4*01:09 DRB4*01:10 DQA1*05:09 DQA1*05:11 DPA1*01:13 DPB1*464:01 DPB1*104:01 DPB1*124:01 DPB1*459:01 DPB1*350:01 DPB1*534:01
3753	Reed , Elaine F.	*04:01	*11:01	3*02:02	4*01:01/ *01:03	*03:02/ *03:03	*05:05	*03:01	*03:01	*01:03	*01:03	*03:01	*04:01	SSO SBT		
3519	Renac , Virginie	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01				*03:01	*04:01	SSP NGS	DPB1*124:01 DPB1*350:01	
793	Rubocki , Ronald					*03:03	*05:05					*03:01	*04:01	SSP		
4251	Schiller , Jennifer	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01	*03:01	*01:03	*01:03	*03:01:01G	*04:01:01G	SSO NGS		
230	Thoni , Deborah	*04:01	*11:01					*03:01				*03:01	*04:01	SBT		
5451	Tilanus , Marcel G.	*04:01:01	*11:01:01											SSP SSO SBT		
5642	Varnavidou-Nicolaid	*04:01	*11:01					*03:01						SSP		
3511	Zeevi , Adriana	*04:01	*11:01	3*02:02	4*01:03	*03:03	*05:05	*03:01				*03:01	*04:01	SSP SSO		

Table 4: Individual laboratory results for B-cell #535-Class II

Serology									
CTR	DIRNAME	DRB1		DRB3/4/5				DQB1	
910	Hahn,Amy B.	DR4	DR11	DR52	DR53			DQ7	DQ3

Table 5: Individual laboratory results for B-cell #535-Class I

Center	Investigator	Low resolution						High/Intermediate resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*02	*39N	*50	*06	*12	NT	NT	*39:25N	NT	NT	NT	SSP SSO SBT	
5133	Askar , Medhat							*02:01:01:01	*02:05:01	*39:25N	*50:01:01	*06:02:01:02	*12:03:01:01	NGS	
4492	Caillat-Zucman , Sc							*02:01:01	*02:05:01	*39:25N	*50:01:01	*06:02:01	*12:03:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*02	*39	*50	*06	*12							SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald K							*02:01:01	*02:05:01	*39:25N	*50:01:01	*06:02	*12:03	SBT	
3224	Chen , Dong-Feng							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03:01G	SSP SSO SBT	C*12:54 C*06:30
8021	Clark , Brendan							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSO NGS	C*06:122 C*12:28
3632	Colombe , Beth W.													SSP SSO	
5130	Costeas , Paul A.	*02	*02	*39	*50	*06	*12	*02:01	*02:05	*39:01/ *39:25N	*50:01	*06:02	*12:03	SSP SSO	C*06:03
779	Daniel , Claude	*02	*02	*39	*50	*06	*12							SSP SSO	
5219	Daniel , Dolly	*02	*02	*39	*50	*06	*12							SSO	
8086	Du , Keming							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSO SBT	
87	Di Paola , Nicholas	*02	*02	*39	*50	*06	*12							RT-PCR	
5214	Eckels/CPMC ,	*02	*02	*39	*50	*06	*12							SSO	
3135	Enczmann , J							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03		
747	Ferrari-Lacraz , Syl							*02:01:01:01	*02:05:01	*39:25N	*50:01:01	*06:02:01:02	*12:03:01:01	SSP SSO NGS	
762	Fischer , Gottfried													SSO NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*02	*02	*39	*50	*06	*12	*02:01	*02:05			*06:02	*12:03	SSP SSO SBT	
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*02	*02	*39	*50	*06	*12							SSO	
8087	Hernandez Rosales	*02	*02	*39	*50	*06	*12							SSO	
2344	Hurley & Hartzman							*02:01:01:01	*02:05:01	*39:25N	*50:01:01	*06:02:01:02	*12:03:01:01	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*02	*02	*39	*50	*06	*12	*02:01	*02:05	NEW	*50:01	*06:02	*12:03	SSP SSO SBT	B*50:12 C*06:83
5488	Khuu , Hanh			*39	*50	*06	*12	*02:01:01	*02:05:01					RT-PCR	C*12:143
4337	Kim , Tai-Gyu							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSP SSO SBT	
725	Lardy , N.M.													SBT	
278	Lee , Jar-How	*02	*02	*39	*50	*06	*12	*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSP SSO	
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*02	*02	*39	*50	*06	*12	*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSP SSO SBT	
731	Loewenthal , Ron													NGS	
206	McAlack , Robert	*02	*02	*39	*50	*06	*12							SSP SSO SBT	
735	Moussa , Omar	*02	*02	*39	*50	*06	*12							SSO	
3966	Permpikul , Vejbae	*02	*02	*39	*50	*06	*12							SSO	
8001	Rao , Prakash													SSP	
														SSP SSO	

Table 5: Individual laboratory results for B-cell #535-Class I

Center	Investigator	Low resolution						High/Intermediate resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
															A*02:02 A*02:06 A*02:14 A*02:629 A*02:22 A*02:102 A*02:591 A*02:603 A*02:623 B*50:04 B*50:17 C*06:76 C*12:28 B*50:12 C*12:54 B*50:36 C*06:11C*06:17 C*06:30 C*06:82 C*06:83 C*06:122 C*12:04 B*50:40 C*12:143 C*12:147 C*12:154 C*12:167
3753	Reed , Elaine F.							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSO SBT	
3519	Renac , Virginie	*02		*39	*50	*06	*12	*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSP NGS	
793	Rubocki , Ronald	*02		*39	*50	*06	*12							SSP	
4251	Schiller , Jennifer	*02	*02	*39	*50	*06	*12	*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSO NGS	
8068	Shanmugam , Hem	*02		*39	*50	*06	*12							SSO	
8029	Tarigopula , Anil	*02	*02	*39	*50	*06	*12							SSO	
230	Thoni , Deborah							*02:01	*02:05	*39:01	*50:01	*06:02	*12:03	SBT	
5451	Tilanus , Marcel G.													SSP SSO SBT	
5642	Varnavidou-Nicolai													SSP	
2847	Wakita , Atsushi	*02	*02	*39	*50	*06	*12							SSO	
3511	Zeevi , Adriana							*02:01	*02:05	*39:25N	*50:01	*06:02	*12:03	SSP SSO	

Table 6a: Individual laboratory results for B-cell #536-Class II

Center	Investigator	Low resolution												METHOD	Other Alleles
		DRB*01		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
5462	Arnold , Paula	*01	*07	4*01N	NP	*01	*02	*03	*05	*01	*01	*03	*04(DP401)	SSP SSO SBT	
774	Cecka , J. Michael	*01	*07	4*NULL		*01	*02	*03	*05	*01		*03	*04(DP401)	SSP SSO	
3632	Colombe , Beth W.	*01	*07	4*01		*01	*02	*03	*05	*01		*03	*04	SSP SSO	
5130	Costeas , Paul A.	*01	*07	4*01		*01	*02	*03	*05			*03	*04	SSP SSO	
779	Daniel , Claude	*01	*07		4*NULL	*01	*02	*03	*05	*01	*01	*03	*04(DP401)	SSP SSO	
5219	Daniel , Dolly	*01	*07			*01	*02	*03	*05					SSO	
87	Di Paola , Nicholas	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*03	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*01	*07	4*01N		*01	*02	*03 (DQ9)	*05	*01	*01	*03	*04(DP401)	SSO	
4079	Fort , Marylise	*01	*07					*03	*05					SSP	
792	Gandhi , Manish	*103	*07	4*01N		*01	*02	*03	*05	*01	*01	*03	*04	SSP SSO SBT	
8043	Gideoni , Osnat	*01	*07			*01	*02	*03	*05					SSP SSO	
810	Hamdi , Nuha		*07			*01		*03	*05					SSO	
8087	Hernandez Rosales	*01	*07			*01	*02	*03	*05					SSO	
771	Israel , Shoshana	*01	*07					*03	*05					SSP SSO	
794	Jaatinen , Taina	*01	*07	4*01N		*01	*02	*03	*05	*01		*03	*04	SSP SSO SBT RT-PCR	
5488	Khuu , Hanh													SSP SSO SBT	
725	Lardy , N.M.	*01	*07	4*PRESENT		*01	*02	*03	*05					SSP SSO	
278	Lee , Jar-How	*01	*07	4*01	NT	*01	*02	*03	*05	*01	*01	*03	*04		
6649	Lim , Young Ae	*01	*07	4*PRESENT	5*PRESENT									SSP	
2400	Liu , Chang	*01	*07	4*NULL	NP	*01	*02	*03	*05			*03	*04	SSP SSO SBT NGS	
731	Loewenthal , Ron	*01	*07			*01	*02	*03	*05					SSP SSO SBT	
206	McAlack , Robert	*103	*07	4*01N		*01	*02	*03	*05	*01	*01	*03	*04	SSO	
735	Moussa , Omar	*01	*07	4*01N		*01	*02	*03	*05	*01		*03	*04(DP401)	SSO	DPB1*104 DPB1*124
3966	Permpikul , Vejbaes													SSP	
8001	Rao , Prakash					*01	*02							SSP SSO	
3519	Renac , Virginie	*01	*07					*03	*05			*03	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*01	*07	4*NULL		*01	*02	*03	*05			*03	*04(DP401)	SSP	
4251	Schiller , Jennifer	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*03	*04(DP401)	SSO NGS	
8068	Shanmugam , Hem	*01	*07	4*01				*03	*05					SSO	
8029	Tarigopula , Anil	*01	*07			*01	*02	*03	*05					SSO	
5451	Tilanus , Marcel G.J.	*01	*07	4*01N		*01	*02	*03	*05					SSP SSO SBT	
5642	Varnavidou-Nicolaic	*01	*07	4*PRESENT				*03	*05					SSP	
2847	Wakita , Atsushi	*01	*07											SSO	

Table 6b: Individual laboratory results for B-cell #536-Class II

Center	Investigator	High resolution											METHOD	Other Alleles
		DRB1		DRB3/4/5	DQA1		DQB1		DPA1		DPB1			
5462	Arnold , Paula	*01:03	NT	4*01:03N	NT	*02:01	NT	NT	*01:03	NT	*03:01P	*04:01P	SSP SSO SBT	DPB1*464:01 DPB1*104:01 DPB1*124:01 DPB1*350:01 DPB1*459:01 DPB1*534:01
5133	Askar , Medhat	*01:03	*07:01:01	4*01:03:01:02N	*01:01:01	*02:01	*03:03:02:01	*05:01:01	*01:03:01:03		*03:01:01	*04:01:01	NGS	DPB1*124:01 DPB1*350:01
4492	Caillat-Zucman , S	*01:03	*07:01:01	4*01:03:01:02N	*01:01:01	*02:01	*03:03:02	*05:01:01			*03:01:01	*04:01:01	SSP SSO NGS	DPB1*124:01 DPB1*350:01
774	Cecka , J. Michael	*01:03	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01	*01:03		*03:01	*04:01	SSP SSO	DRB1*07:31 DRB1*07:33 DRB1*07:35 DPA1*01:13
8070	Chang , Uckjin	*01:03	*07:01										SBT	
9916	Charlton , Ronald	*01:03	*07:01:01	4*01:03:01:02N			*03:03:02	*05:01:01			*03:01	*04:01	SBT	DPB1*350:01 DPB1*124:01
3224	Chen , Dong-Feng	*01:03	*07:01:01G	4*01:03N	NT	NT	*03:03:02	*05:01	NT	NT	NT	NT	SSP SSO SBT	
8021	Clark , Brendan	*01:03	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01	*01:03		*03:01	*04:01	SSO NGS	
3632	Colombe , Beth W	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03		*03:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*01:03	*07:01	4*01:03:01:02N	*01:01	*02:01	*03:03	*05:01			*03:01	*04:01	SSP SSO	DRB1*07:12 DRB1*07:16
779	Daniel , Claude	*01:03			*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*03:01	*04:01	SSP SSO	DRB4*01:03:01:02N
8086	Du , Keming	*01:03	*07:01		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*03:01	*04:01	SSO SBT	
5214	Eckels/CPMC	*01:03		4*01:03N					*01:03		*03:01:01G	*04:01:01G	SSO	
3135	Enczmann , J	*01:03	*07:01	4*01:03N			*03:03	*05:01			*03:01	*04:01		
747	Ferrari-Lacraz , Sy	*01:03	*07:01:01	4*01:03N	*01:01	*02:01	*03:03:02:01	*05:01:01	*01:03	*01:03	*03:01:01	*04:01:01:01	SSP SSO NGS	DQA1*01:04 DPA1*01:13 DPB1*124:01 DPB1*350:01
762	Fischer , Gottfried	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01			*03:01	*04:01	SSO NGS	DPB1*350:01 DPB1*124:01
4079	Fort , Marylise	*01:03									*03:01	*04:01	SSP	
792	Gandhi , Manish	*01:03	*07:01				*03:03	*05:01			*03:01	*04:01	SSP SSO SBT	DPB1*124:01 DPB1*350:01
8043	Gideoni , Osnat	*01:03	*07:01				*03:03	*05:01					SSP SSO	
810	Hamdi , Nuha	*01:03		4*01:03N		*02:01							SSO	
2344	Hurley & Hartzmar	*01:03	*07:01:01:02		*01:01:01	*02:01	*03:03:02:01	*05:01:01:03	*01:03:01:03	*01:03:01:04	*03:01:01	*04:01:01:01	NGS	DQA1*01:01:02 DPB1*124:01 DPB1*04:01:01:02 DPB1*350:01
771	Israel , Shoshana	*01:03	*07:01				*03:03	*05:01					SSP SSO	

Table 6b: Individual laboratory results for B-cell #536-Class II

		High resolution													
Center	Investigator	DRB1		DRB3/4/5	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
794	Jaatinen , Taina	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03			*03:01	*04:01	SSP SSO SBT RT-PCR	DRB1*07:34 DQA1*01:04 DQA1*01:05 DQA1*01:12 DPA1*01:13 DPB1*104:01 DPB1*124:01 DPB1*350:01 DPB1*459:01 DPB1*464:01
5488	Khuu , Hanh	*01:03	*07:01:01	4*01:03:01:02N	*01:01	*02:01	*03:03:02	*05:01:01				*03:01	*04:01	SSP SSO SBT	DPB1*124:01 DPB1*350:01
4337	Kim , Tai-Gyu	*01:03	*07:01				*03:03	*05:01				*03:01	*04:01	SBT	
278	Lee , Jar-How	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03	*01:03		*03:01	*04:01		
2400	Liu , Chang	*01:03	*07:01		*01:01	*02:01	*03:03	*05:01				*03:01:01G	*04:01:01G	SSP SSO SBT NGS	
731	Loewenthal , Ron	*01:03	*07:01:01G				*03:03:02	*05:01:01						SSP SSO SBT	
3966	Permpikul , Vejbae	*01:03	*07:01	4*01:03N			*03:03	*05:01						SSP	
8001	Rao , Prakash	*01:03	*07:01	4*01:03N			*03:03	*05:01				*03:01:01G	*04:01	SSP SSO	
3753	Reed , Elaine F.	*01:03	*07:01	4*01:03N	*01:01:01G	*02:01	*03:03	*05:01	*01:03	*01:03		*03:01	*04:01	SSO SBT	DQB1*03:212 DQB1*03:26 DQB1*03:112 DQB1*05:11 DQB1*05:44 DQB1*05:51 DPA1*01:13 DPB1*124:01 DPB1*459:01 DPB1*104:01 DPB1*350:01 DPB1*464:01 DPB1*534:01
3519	Renac , Virginie	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01				*03:01	*04:01	SSP NGS	DPB1*350:01 DPB1*124:01
793	Rubocki , Ronald				*01:01	*02:01						*03:01	*04:01	SSP	
4251	Schiller , Jennifer	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01	*01:03	*01:03		*03:01:01G	*04:01:01G	SSO NGS	
230	Thoni , Deborah	*01:03	*07:01				*03:03	*05:01				*03:01	*04:01	SBT	
5451	Tilanus , Marcel G	*01:03	*07:01:01											SSP SSO SBT	
5642	Varnavidou-Nicola	*01:03	*07:01				*03:03	*05:01						SSP	DRB1*01:39N
3511	Zeevi , Adriana	*01:03	*07:01	4*01:03N	*01:01	*02:01	*03:03	*05:01				*03:01	*04:01	SSP SSO	

Table 7: Individual laboratory results for B-cell #536-Class II

		Serology				
CTR	DIRNAME	DRB1		DRB3/4/5	DQB1	
910	Hahn,Amy B.	DR103	DR7	DR53	DQ3	DQ1

Table 8: Individual laboratory results for B-cell #536-Class I

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*11	*26	*35	*38	*04	*12	NT	NT	NT	NT	NT	NT	SSP SSO SBT	
5133	Askar , Medhat							*11:01:01:01	*26:01:01:01	*35:41	*38:01:01	*04:01:01:05	*12:03:01:01	NGS	
4492	Caillat-Zucman , Sc							*11:01:01	*26:01:01	*35:41	*38:01:01	*04:01:01	*12:03:01	SSP SSO NGS	
774	Cecka , J. Michael	*11	*26	*35	*38	*04	*12							SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald K							*11:01:01:01	*26:01:01	*35:41	*38:01:01	*04:01:01:05	*12:03:01	SBT	
3224	Chen , Dong-Feng							*11:01	*26:01:01G	*35:41	*38:01	*04:01:01G	*12:03:01G	SSP SSO SBT	
8021	Clark , Brendan							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSO NGS	
3632	Colombe , Beth W.													SSP SSO	
5130	Costeas , Paul A.	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP SSO	A*11:20 A*11:36 B*35:41 B*38:11 B*38:19 C*04:05 C*04:112
779	Daniel , Claude	*11	*26	*35	*38	*04	*12							SSP SSO	
5219	Daniel , Dolly	*11	*26	*35	*38	*04	*12							SSO	
87	Di Paola , Nicholas	*11	*26	*35	*38	*04	*12							RT-PCR	
8086	Du , Keming							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSO SBT	
5214	Eckels/CPMC ,	*11	*26	*35	*38	*04	*12							SSO	
3135	Enczmann , J							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03		C*04:09N
747	Ferrari-Lacraz , Syl							*11:01:01:01	*26:01:01	*35:41	*38:01:01	*04:01:01:05	*12:03:01:01	SSP SSO NGS	
762	Fischer , Gottfried													SSO NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP SSO SBT	
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*11	*26	*35	*38	*04	*12							SSO	
8087	Hernandez Rosales	*11	*26	*35	*38	*04	*12							SSO	
2344	Hurley & Hartzman							*11:01:01	*26:01:01	*35:41	*38:01:01	*04:01:01:05	*12:03:01:01	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP SSO SBT RT-PCR	C*04:30 C*04:82 C*12:143
5488	Khuu , Hanh					*04	*12	*11:01	*26:01	*35:41	*38:01:01			SSP SSO SBT	A*26:117
4337	Kim , Tai-Gyu							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SBT	
725	Lardy , N.M.													SSP SSO	
278	Lee , Jar-How	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03		
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP SSO SBT NGS	
731	Loewenthal , Ron													SSP SSO SBT	
206	McAlack , Robert	*11	*26	*35	*38	*04	*12							SSO	
735	Moussa , Omar	*11	*26	*35	*38	*04	*12							SSO	
3966	Permpikul , Vejbae	*11	*26	*35	*38	*04	*12							SSP	
8001	Rao , Prakash													SSP SSO	

Table 8: Individual laboratory results for B-cell #536-Class I

Center	Investigator	Low resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
3753	Reed , Elaine F.							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSO SBT	A*11:19 A*11:33 A*26:117 A*26:122 A*26:13 C*04:09N C*04:15 C*04:29 C*04:07 C*04:30 C*04:33 C*04:82+ C*12:04 C*12:24 C*12:154 C*12:156 C*12:167 C*12:194 C*12:143
3519	Renac , Virginie	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP NGS	
793	Rubocki , Ronald	*11	*26	*35	*38	*04	*12							SSP	
4251	Schiller , Jennifer	*11	*26	*35	*38	*04	*12	*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSO NGS	
8068	Shanmugam , Hem	*11	*26	*35	*38	*04	*12							SSO	
8029	Tarigopula , Anil	*11	*26	*35	*38	*04	*12							SSO	
230	Thoni , Deborah							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SBT	
5451	Tilanus , Marcel G.													SSP SSO SBT	
5642	Varnavidou-Nicolai													SSP	
2847	Wakita , Atsushi	*11	*26	*35	*38	*04	*12							SSO	
3511	Zeevi , Adriana							*11:01	*26:01	*35:41	*38:01	*04:01	*12:03	SSP SSO	