

REPORT OF THE 409th CELL EXCHANGE

APRIL 8, 2019

B-cell Lines	559-560
Cells	1633-1636

B-cell Line Exchange #280

The results for B-cell Line Exchange #280 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We are most grateful to **Leiden University Medical Centre, Leiden** for kindly providing the valuable reference cells examined in our studies. We would also like to acknowledge and thank the labs performing NGS for shar-

ing 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-559. The consensus type for this cell from a Caucasian donor is DRB1*01:01-DRB1*07:01-DRB4*01:01-DRB5*01:01-DQA1*01:01-DQA1*02:01-DQB1*02:02-DQB1*05:01-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*01:01-A*26:01-B*08:01-B*38:09-C*07:01-C*12:03. One likely association present is A*01:01-B*08:01-DRB1*01:01-DQB1*05:01, observed in Caucasian, with HF = 0.00308. The other likely association present is A*26:01-B*38:09-DRB1*07:01-DQB1*02:02, as observed in the B*38:09 reference cell, CS00065. The A*23:01-B*38:09 association in this cell, is observed exclusively in Caucasian, with HF = 0.00006.

This cell is TER299, one of the reference cells for B*38:09. It was previously examined in the Exchange as Ter-299 (2002) and extracts 585 (2013) and 434 (2008). In this present study, B*38:09 was reported in complete consensus, confirming previous findings. B*08:01 (100%) was reported as the second B-locus type, with 7 labs assigning B*08:01:01.

DRB1*01:01 and DRB1*07:01 were also reported in complete consensus, with 9 labs reporting DRB1*01:01:01 and DRB1*07:01:01. Interestingly, DRB5*01:01 (100%) was reported along with DRB1*01:01. The presence of this uncommon DRB5-DRB*01 linkage was noted by Rubocki. In addition, Wieten detected the presence of a possible new DRB1 allele in this cell, noting the new allele is "identical to DRB1*01:01:01 with a change of C to A at position 7636 in the genomic DNA."

Ter-560. The consensus type for this sample from a donor of unknown ethnicity is DRB1*01:01-DRB1*14:54-DRB3*02:02-DQA1*01:01-DQA1*01:04-DQB1*05:01-DQB1*05:03-DPA1*01:03-DPB1*02:01-DPB1*04:02/A*03:01-B*35:01-B*35:03-C*04:01. One likely association present in this cell is A*03:01-B*35:01-DRB1*01:01-DQB1*05:01, observed across all populations, with the highest frequency (HF = 0.01270) observed in Caucasians. The other likely association present may then be A*03:01-B*35:03-DRB1*14:54-DQB1*05:03. The association of B*35:03-DRB1*14:54-DRB3*02:02-DQB1*05:03-DPA1*01:03-DPB1*02:01 present in this cell was also observed in KOSE, a reference cell for DRB1*14:54:01:01.

This cell was previously examined for class II back in 1993 as Ter-131. In this present retyping DRB1*01:01 and DRB1*14:54 were each reported in complete consensus, with 9 labs reporting DRB1*01:01:01 and DRB1*14:54:01. Two subtypes of DQA1*01 and DQB1*05 were present in this cell, DQA1*01:01 (96%), DQA1*01:04 (96%), DQB1*05:01 (100%), and DQB1*05:03 (100%). A*03:01 (100%), B*35:01 (100%), B*35:03 (100%), and C*04:01 (100%), were the assigned class I types, with 7 labs assigning A*03:01:01, B*35:01:01, B*35:03:01, and C*04:01:01.

Table 1: Summary of the 280th B-cell Line Exchange

Ter-559

Ter-559													
DNA Typing - class II	33 labs High; 29 labs low-DRB1		23 labs High; 21 labs Low-DRB3/4/5		23 labs High; 26 labs Low-DQA1		32 High Labs; 27 labs Low-DQB1		19 High Labs; 14 labs Low-DPA1		30 High Labs; 17 labs Low-DPB1		
		%(n)		%(n)		%(n)		%(n)		%(n)		%(n)	
DNA Typing - class II	DRB1*01:01:01	27(9)	DRB4*01:01:01:01	17(4)	DQA1*01:01:01:01	9 (2)	DQB1*02:02:01	25(8)	DPA1*01:03:01:01	16(3)	DPB1*02:01:02	27(8)	
	DRB1*01:01	73(24)	DRB4*01:01:01	9 (2)	DQA1*01:01:01:03	4 (1)	DQB1*02:01P	3 (1)	DPA1*01:03:01	16(3)	DPB1*02:01G	3 (1)	
	DRB1*01	100(29)	DRB4*01:01P	4 (1)	DQA1*01:01:01	9 (2)	DQB1*02:02	72(23)	DPA1*01:03P	5 (1)	DPB1*02:01	70(21)	
			DRB4*01:01	70(16)	DQA1*01:01	78(18)	DQB1*02	100(27)	DPA1*01:03	63(12)	DPB1*02(DP201)	53(9)	
			DRB4*PRESENT	19(4)	DQA1*01	100(26)			DPA1*01	100(14)	DPB1*02	47(8)	
			DRB4*01	81(17)									
	DNA Typing - class I	23 labs High; 22 labs low- A		23 labs High; 22 labs low- B		23 labs High; 22 labs low- C							
			%(n)		%(n)		%(n)						
	DNA Typing - class I	A*01:01:01:01	17(4)	B*08:01:01:01	13(3)	C*07:01:01:01	9 (2)						
A*01:01:01		13(3)	B*08:01:01	17(4)	C*07:01:01	22(5)							
A*01:01P		4 (1)	B*08:01P	4 (1)	C*07:01P	4 (1)							
A*01:01		65(15)	B*08:01	65(15)	C*07:01	65(15)							
A*01		100(22)	B*08	100(22)	C*07	100(22)							

Table 3a: Individual laboratory results for B-cell #559 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
206	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02	*04		
278	*01	*07	4*01	5*01	*01	*02	*02	*05	*01	*01	*02	*04		
725	*01	*07	4*PRESENT	5*PRESENT	*01	*02	*02	*05					SSP SSO	
731	*01	*07			*01	*02	*02	*05					SSP SSO SBT	
735	*01	*07	4*01	5*01	*01	*02	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSP SSO SBT	
747	*01	*07	4*PRESENT	5*PRESENT	*01	*02	*02	*05	*01	*01	*02	*04	SSP SSO NGS	
771	*01	*07			*01	*02	*02	*05					SSP SSO	
774	*01	*07	4*01	5*01	*01	*02	*02	*05			*02(DP201)	*04(DP401)	SSP SSO	
792	*01	*07	4*01	5*01	*01	*02	*02	*05	*01	*01	*02	*04	SSP SSO SBT	
793	*01	*07	4*01	5*01	*01	*02	*02	*05			*02(DP201)	*04(DP401)	SSP	
794	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02	*04	SSP SSO NGS	
2400	*01	*07	4*01	5*01	*01	*02	*02	*05	*01	*01	*02	*04	RT-PCR	
2847	*01	*07											SSO NGS	
3519	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02(DP201)	*04(DP401)	SSO	
3632	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02	*04	SSP NGS RT-PCR	
3966													SSP SSO	
4079	*01	*07											SSP	
4251	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02(DP201)	*04(DP401)	SSP SSO NGS	
4492	*01	*07	4*PRESENT	5*PRESENT	*01	*02	*02	*05	*01	*01	*02(DP201)	*04(DP401)	SSP SSO NGS	
5130	*01	*07	4*01		*01	*02	*02	*05			*02	*04	SSP SSO NGS	
5214	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02(DP201)	*04(DP401)	SSO NGS	
5219	*01	*07			*01	*02	*02	*05					RT-PCR	
5451	*01	*07	4*01	5*01	*01	*02	*02	*05					SSO	
5462	*01	*07	4*01	5*01	*01	*02	*02	*05	*01		*02(DP201)	*04	SSO SBT	
5488			4*01										SSP SSO	
5642	*01	*07	4*PRESENT	5*PRESENT			*02	*05					SSP SSO NGS	
6649	*01	*07											SSP	
8001	*01	*07	4*01	5*01	*01	*02	*02	*05					SSO	
8029	*01	*07			*01	*02	*02	*05					SSP SSO	
8043	*01	*07			*01	*02	*02	*05					SSO	
8068	*01	*07			*01	*02	*02	*05					SSP SSO	

Table 3b: Individual laboratory results for B-cell #559 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*01:01	*07:01					*02:02	*05:01			*02:01	*04:01	SSO SBT	
278	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03	*01:03	*02:01	*04:01		
731	*01:01:01	*07:01					*02:02:01	*05:01					SSP SSO SBT	
735	*01:01	*07:01P	4*01:01P	5*01:01P	*01:01	*02:01	*02:01P	*05:01	*01:03P	*01:03P	*02:01	*04:01	SSP SSO SBT	
747	*01:01:01	*07:01:01:01	4*01:01:01:01	5*01:01:01	*01:01:01:01	*02:01:01:01	*02:02:01	*05:01:01:03	*01:03:01:01	*01:03:01	*02:01:02	*04:01:01:02	SSP SSO NGS	
762	*01:01:01	*07:01:01:01	4*01:01:01:01	5*01:01:01	*01:01:01:03	*02:01:01	*02:02:01	*05:01:01:03	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01	SSO NGS	
771	*01:01	*07:01					*02:02	*05:01					SSP SSO	
														DRB1*01:64 DRB1*01:50 DRB1*01:62N DRB1*01:67 DRB1*07:31 DRB1*07:33 DRB1*07:35 DRB1*07:35 DRB5*01:16
774	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01			*02:01	*04:01	SSP SSO	
792	*01:01	*07:01					*02:02	*05:01			*02:01	*04:01	SSP SSO SBT	
793					*01:01	*02:01					*02:01	*04:01	SSP	
794	*01:01:01	*07:01:01	4*01:01:01	5*01:01:01	*01:01	*02:01	*02:02:01	*05:01:01	NT		*02:01:02	*04:01:01	SSP SSO NGS RT-PCR	
2344	*01:01:01	*07:01:01	4*01:01:01:01	5*01:01:01			*02:02:01	*05:01:01	*01:03:01:01	*01:03:01:04	*02:01:02	*04:01:01	NGS	DPB1*02:01:19
2400	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03	*01:03	*02:01	*04:01	SSO NGS	
														DQA1*01:04 DQA1*01:05
3135	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01	*01:03		*02:01	*04:01		
3224	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03		*02:01	*04:01	NGS	
3511	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03	*01:03	*02:01	*04:01	SSP SSO	
3519	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03	*01:03	*02:01	*04:01	SSP NGS RT-PCR	
3632	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03		*02:01	*04:01	SSP SSO	
3753	*01:01:01	*07:01:01	4*01:01:01	5*01:01:01	*01:01:01	*02:01:01	*02:02:01	*05:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS	
3966	*01:01	*07:01	4*01:01	5*01:01			*02:02	*05:01					SSP	
4079	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03		*02:01	*04:01	SSP SSO NGS	
4251	*01:01	*07:01:01G	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03	*01:03	*02:01	*04:01	SSP NGS	
4337	*01:01	*07:01					*02:02	*05:01			*02:01	*04:01	SBT NGS	
4492	*01:01	*07:01:01	4*01:01	5*01:01	*01:01:01	*02:01:01	*02:02	*05:01:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
5130	*01:01	*07:01	4*01:01		*01:01	*02:01	*02:02	*05:01			*02:01	*04:01	SSO NGS	
5133	*01:01:01	*07:01:01	4*01:01:01:01	5*01:01:01	*01:01:01:01	*02:01:01:01	*02:02:01	*05:01:01:03	*01:03:01		*02:01:02	*04:01:01	NGS	DPB1*02:01:19
5214											*02:01G	*04:01G	RT-PCR	
5451	*01:01:01	*07:01:01											SSO SBT	

Table 3b: Individual laboratory results for B-cell #559 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*643:01 DPB1*658:01 DPB1*670:01 DPB1*677:01 DPB1*682:01 DPB1*683:01 DPB1*696:01N DPB1*640:01 DPB1*678:01 DPB1*681:01 DPB1*685:01 DPB1*692:01 DPB1*700:01N
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT			*02:01	*04:01	SSP SSO
5488	*01:01:01	*07:01:01		5*01:01:01	*01:01	*02:01	*02:02:01	*05:01:01	*01:03:01			*02:01:02	*04:01:01	SSP SSO NGS
5642	*01:01	*07:01					*02:02	*05:01						SSP
8001	*01:01	*07:01	4*01:01	5*01:01			*02:02	*05:01				*02:01	*04:01	SSP SSO
8021	*01:01	*07:01	4*01:01	5*01:01	*01:01	*02:01	*02:02	*05:01	*01:03			*02:01	*04:01	SSO NGS
8043	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01						SSP SSO
8086	*01:01	*07:01			*01:01	*02:01	*02:02	*05:01	*01:03	*01:03		*02:01	*04:01	SSO SBT
9916	*01:01	*07:01	4*01:01	5*01:01			*02:02	*05:01				*02:01	*04:01	SBT

Table 4: Individual laboratory results for B-cell #559 - Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
206	*01	*26	*08	*38	*07	*12								
230							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSO SBT	
278	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03		
725	*01	*26	*08	*38	*07	*12							SSP SSO	
735	*01	*26	*08	*38	*07	*12	*01:01P	*26:01P	*08:01P	*38:09	*07:01P	*12:03P	SSP SSO SBT	
747	*01	*26	*08	*38	*07	*12	*01:01:01:01	*26:01:01:01	*08:01:01:01	*38:09	*07:01:01:01	*12:03:01:01	SSP SSO NGS	
774	*01	*26	*08	*38	*07	*12							SSP SSO	
792	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSP SSO SBT	
793	*01	*26	*08	*38	*07	*12							SSP	
794	*01	*26	*08	*38	*07	*12	*01:01:01	*26:01:01	*08:01:01	*38:09	*07:01:01	*12:03:01	SSP SSO NGS RT-PCR	
2344							*01:01:01:01	*26:01:01:01	*08:01:01	*38:09	*07:01:01	*12:03:01:01	NGS	
2400	*01	*26	*08	*39	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSO NGS	
2847	*01	*26	*08	*38	*07	*12							SSO	
3135							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03		
3224							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	NGS	
3511							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSP SSO	
3519	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSP NGS RT-PCR	
3753							*01:01:01	*26:01:01	*08:01:01	*38:09	*07:01:01	*12:03:01	NGS	
3966	*01	*26	*08	*38	*07	*12							SSP	
4079	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSP SSO NGS	
4251	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSP NGS	
4337							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SBT NGS	
4492	*01	*26	*08	*38	*07	*12	*01:01:01:01	*26:01:01:01	*08:01:01:01	*38:09	*07:01:01	*12:03:01:01	SSP SSO NGS	
5130	*01	*26	*08	*38	*07	*12	*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSO NGS	
5133							*01:01:01:01	*26:01:01:01	*08:01:01:01	*38:09	*07:01:01:01	*12:03:01:01	NGS	
5214	*01	*26	*08	*38	*07	*12							RT-PCR	
5219	*01	*26	*08	*38	*07	*12							SSO	
5462	*01	*26	*08	*38	*07	*12	NT	NT	NT	NT	NT	NT	SSP SSO	
5488							*01:01:01	*26:01:01	*08:01:01	*38:09	*07:01:01	*12:03:01	SSP SSO NGS	
8021							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSO NGS	
8029	*01	*26	*08	*38	*07	*12							SSO	
8068	*01	*26	*08	*38	*07	*12							SSO	
8086							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SSO SBT	
9916							*01:01	*26:01	*08:01	*38:09	*07:01	*12:03	SBT	B*08:173 B*08:183 C*07:73 C*07:92 C*12:147

Table 5a: Individual laboratory results for B-cell #560 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
206	*01	*14	3*02		*01		*05	*05	*01		*02	*04		
278	*01	*14	3*02 NT		*01	*01	*05	*05	*01	*01	*02	*04		
725	*01	*14	3*PRESENT		*01		*05						SSP SSO	
731	*01	*14			*01	*01	*05	*05					SSP SSO SBT	
735	*01	*14	3*02		*01	*01	*05	*05	*01	*01	*02(DP201)	*04(DP402)	SSP SSO SBT	
747	*01	*14	3*PRESENT 3*PRESENT		*01	*01	*05	*05	*01	*01	*02	*04	SSP SSO NGS	
771	*01	*14			*01		*05	*05					SSP SSO	
774	*01	*14	3*02		*01	*01	*05	*05			*02(DP201)	*04(DP402)	SSP SSO	
792	*01	*14	3*02		*01	*01	*05	*05	*01	*01	*02	*04	SSP SSO SBT	
793	*01	*14	3*02		*01	*01	*05				*02	*04	SSP	
794	*01	*14	3*02		*01		*05		*01		*02	*04	SSP SSO NGS	
2400	*01	*14	3*02		*01	*01	*05	*05	*01	*01	*02	*04	RT-PCR	
2847	*01	*14											SSO NGS	
3519	*01	*14	3*02		*01		*05		*01		*02(DP201)	*04(DP402)	SSO	
3632	*01	*14	3*02		*01	*01	*05	*05	*01		*02	*04	SSP NGS RT-PCR	
3966		*14											SSP SSO	
4079	*01	*14			*01		*05		*01		*02(DP201)	*04(DP402)	SSP	
4251	*01	*14	3*02		*01	*01	*05	*05	*01	*01	*02(DP201)	*04(DP402)	SSP SSO NGS	
4492	*01	*14	3*PRESENT		*01		*05		*01		*02(DP201)	*04(DP402)	SSP NGS	
5130	*01	*14	3*02		*01	*01	*05	*05			*02	*04	SSP SSO NGS	
5214	*01	*14	3*02		*01		*05	*05	*01		*02(DP201)	*04(DP402)	SSO NGS	
5219	*01	*14			*01	*01	*05	*05					RT-PCR	
5451	*01	*14	3*02		*01		*05	*05					SSO	
5462	*01	*14	3*02		*01		*05	*05	*01		*02(DP201)	*04(DP402)	SSO SBT	
5488													SSP SSO	
5642	*01	*14	3*PRESENT				*05	*05					SSP SSO NGS	
6649	*01	*14											SSP	
8001	*01	*14	3*02		*01		*05	*05					SSO	
8029	*01	*14			*01	*01	*05	*05					SSP SSO	
8043	*01	*14			*01	*01	*05	*05					SSO	
8068	*01	*14			*01	*01	*05	*05					SSP SSO	
													SSO	

Table 5b: Individual laboratory results for B-cell #560 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*01:01	*14:54					*05:01	*05:03			*02:01	*04:02	SSO SBT	
278	*01:01	*14:54	3*02:02	NT	*01:05	*01:05	*05:01	*05:03	*01:03	*01:03	*02:01	*04:02		
731	*01:01:01	*14:54					*05:01	*05:03					SSP SSO SBT	
735	*01:01	*14:54	3*02:02P		*01:01P	*01:01P	*05:01	*05:03P	*01:03P	*01:03P	*02:01P	*04:02P	SSP SSO SBT	
747	*01:01:01	*14:54:01	3*02:02:01:01	3*02:02:01:01	*01:01:01:01	*01:04:01:01	*05:01:01:03	*05:03:01	*01:03:01:01	*01:03:01:05	*02:01:02	*04:02:01	SSP SSO NGS	DPB1*105:01 DPB1*416:01 DPB1*665:01
762	*01:01:01	*14:54:01	3*02:02:01:01		*01:01:01:03	*01:04:01:01	*05:01:01:03	*05:03:01:01	*01:03:01:01	*01:03:01:05	*02:01:02	*04:02:01	SSO NGS	DPB1*105:01 DPB1*416:01
771	*01:01	*14:54					*05:01	*05:03					SSP SSO	
774	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03			*02:01	*04:02	SSP SSO	DRB1*01:50 DRB1*01:62N DRB1*01:64 DRB1*01:67 DQB1*05:48 DQB1*05:61 DQB1*05:51 DQB1*05:55 DQB1*05:68 DQB1*05:74 DQB1*05:76 DQB1*05:67
792	*01:01	*14:54					*05:01	*05:03			*02:01	*04:02	SSP SSO SBT	DPB1*416:01 DPB1*105:01
793					*01:01	*01:04					*02:01:02G	*04:02:01G	SSP	
794	*01:01:01	*14:54:01	3*02:02:01		*01:01	*01:04	*05:01:01	*05:03:01	NT		*02:01:02	*04:02:01	SSP SSO NGS RT-PCR	DPB1*416:01 DPB1*105:01
2344	*01:01:01	*14:54:01	3*02:02:01				*05:01	*05:03:01	*01:03:01:01	*01:03:01:05	*02:01:02	*04:02:01	NGS	
2400	*01:01	*14:54	3*02:02:01G		*01:01	*01:04	*05:01	*05:03	*01:03	*01:03	*02:01	*04:02	SSO NGS	DPB1*416:01 DPB1*105:01
3135	*01:01	*14:54	3*02:02:01		*01:01		*05:01	*05:03	*01:03		*02:01	*04:02		DQA1*01:04 DQA1*01:05
3224	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03		*02:01:02G	*04:02:01G	NGS	
3511	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03	*01:03	*02:01	*04:02	SSP SSO	
3519	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03	*01:03	*02:01P	*04:02P	SSP NGS RT-PCR	DPB1*105:01 DPB1*416:01
3632	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03		*02:01P	*04:02P	SSP SSO	
3753	*01:01:01	*14:54:01	3*02:02:01	NP	*01:01:01	*01:04:01	*05:01	*05:03:01	*01:03:01	*01:03:01	*02:01:02G	*04:02:01G	NGS	
3966	*01:01		3*02:02				*05:01	*05:03					SSP	
4079	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03		*02:01	*04:02	SSP SSO NGS	
4251	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03	*01:03:01G	*02:01	*04:02	SSP NGS	
4337	*01:01	*14:54					*05:01	*05:03			*02:01	*04:02	SBT NGS	

Table 5b: Individual laboratory results for B-cell #560 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
4492	*01:01	*14:54:01	3*02:02		*01:01:01	*01:04:01	*05:01:01	*05:03	*01:03	*01:03	*02:01:02	*04:02:01	SSP SSO NGS	DPB1*416:01 DPB1*105:01 DPA1*01:13
5130	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03			*02:01	*04:02	SSO NGS	DPB1*105:01 DPB1*416:01 DPB1*416:01 DPB1*665:01
5133	*01:01:01	*14:54:01	3*02:02:01		*01:01:01	*01:04:01	*05:01:01:03	*05:03:01	*01:03:01		*02:01:02	*04:02:01	NGS	DPB1*665:01 DPB1*02:01:19 DPB1*105:01 DPB1*416:01
5214											*02:01G	*04:02G	RT-PCR	
5451	*01:01:01	*14:54:01											SSO SBT	
5462	NT	NT	NT		NT		NT	NT	NT		*02:01	*04:02P	SSP SSO	DPB1*678:01 DPB1*416:01 DPB1*640:01 DPB1*681:01 DPB1*700:01N DPB1*105:01 DPB1*647:01 DPB1*665:01 DPB1*674:01 DPB1*701:01
5488	*01:01:01	*14:54:01	3*02:02:01		*01:01:01	*01:04:01	*05:01:01	*05:03:01	*01:03:01		*02:01:02	*04:02:01	SSP SSO NGS	DPB1*105:01 DPB1*665:01 DPB1*416:01
5642	*01:01	*14:54					*05:01	*05:03					SSP	
8001	*01:01	*14:54	3*02:02				*05:01	*05:03			*02:01	*04:02	SSP SSO	
8021	*01:01	*14:54	3*02:02		*01:01	*01:04	*05:01	*05:03	*01:03		*02:01	*04:02	SSO NGS	
8043	*01:01	*14:54			*01:01	*01:04	*05:01	*05:03					SSP SSO	
8086	*01:01	*14:54			*01:01	*01:04	*05:01	*05:03	*01:03	*01:03	*02:01	*04:02	SSO SBT	
9916	*01:01	*14:54	3*02:02				*05:01	*05:03			*02:01	*04:02	SBT	DPB1*105:01 DPB1*416:01

Table 6: Individual laboratory results for B-cell #560 - Class I

Table 6: Individual laboratory results for B-cell #560 - Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
206	*03		*35	*35	*04									
230							*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSO SBT	
278	*03	*03	*35	*35	*04	*04	*03:01	*03:01	*35:01	*35:03	*04:01	*04:01		
725	*03		*35		*04								SSP SSO	
735	*03	*03	*35	*35	*04	*04	*03:01P	*03:01P	*35:01P	*35:03P	*04:01P	*04:01P	SSP SSO SBT	
747	*03	*03	*35	*35	*04	*04	*03:01:01	*03:01:01	*35:01:01:05	*35:03:01	*04:01:01:01	*04:01:01:01	SSP SSO NGS	
774	*03		*35		*04								SSP SSO	
792	*03	*03	*35	*35	*04	*04	*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSP SSO SBT	
793	*03		*35		*04								SSP	
794	*03		*35		*04		*03:01:01		*35:01:01	*35:03:01	*04:01:01		SSP SSO NGS	
2344							*03:01:01:01	*03:01:01:01	*35:01:01	*35:03:01	*04:01:01	*04:01:01	RT-PCR	
2400	*03	*03	*35	*35	*04	*04	*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	NGS	
2847	*03		*35	*35	*04								SSO NGS	
3135							*03:01		*35:01	*35:03		*04:01	SSO	C*04:09N
3224							*03:01		*35:01	*35:03	*04:01		NGS	
3511							*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSP SSO	
3519	*03		*35		*04		*03:01		*35:01	*35:03	*04:01		SSP NGS RT-PCR	
3753							*03:01:01	*03:01:01	*35:01:01	*35:03:01	*04:01:01	*04:01:01	NGS	
3966	*03	*03	*35	*35	*04	*04							SSP	
4079	*03		*35		*04		*03:01		*35:01	*35:03	*04:01		SSP SSO NGS	
4251	*03	*03	*35	*35	*04	*04	*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSP NGS	
4337							*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SBT NGS	
4492	*03		*35		*04		*03:01:01:01	*03:01:01:01	*35:01:01	*35:03:01	*04:01:01	*04:01:01	SSP SSO NGS	
5130	*03	*03	*35	*35	*04	*04	*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSO NGS	
5133							*03:01:01:01		*35:01:01:05	*35:03:01	*04:01:01		NGS	
5214	*03		*35		*04								RT-PCR	
5219	*03	*03	*35	*35	*04	*04							SSO	
5462	*03		*35	*35	*04		NT		NT	NT	NT		SSP SSO	
5488							*03:01:01		*35:01:01	*35:03:01	*04:01:01		SSP SSO NGS	
8021							*03:01		*35:01	*35:03	*04:01		SSO NGS	
8029	*03	*03	*35	*35	*04	*04							SSO	
8068	*03	*03	*35	*35	*04	*04							SSO	
8086							*03:01	*03:01	*35:01	*35:03	*04:01	*04:01	SSO SBT	
9916							*03:01		*35:01	*35:03	*04:01		SBT	A*03:291 A*03:292 A*03:293 A*03:301 B*35:03 B*35:370 B*35:365

CELL EXCHANGE #409

The results for Cell Exchange #409 are summarized in Table 7 and Table 8. Molecular typing results for individual laboratories are listed in Tables 9 -12 for each sample and individual serological results for each sample are listed

in Table 13. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1633. The reported consensus type for this cell from a Caucasian donor is A*03:01(A3)-A*30:02(A30)-B*18:01(B18)-B*37:01(B37)-C*05:01-C*06:02. Likely associations present in this cell are A*03:01-B*37:01-C*06:02 and A*30:02-B*18:01-C*05:01, observed in Caucasians, with respected HF = 0.00126 and 0.00564. A*03:01, A*30:02, B*18:01, B*37:01, C*05:01, and C*06:02 were each reported in complete consensus by labs reporting at high resolution. A*03:01:01:01, A*30:02:01:01, B*18:01:01, C*05:01:01:01, and C*06:02:01:01 were each reported by 4 labs. Five labs assigned B*37:01:01. Serological assignments were also reported in complete consensus, with labs reporting A3, A30, B37, and B18.

Cell 1634. The reported consensus type for this sample from a Caucasian donor is A*03:01(A3)-A*69:01(A69)-B*38:01(B38)-B*55:01(B55)-C*03:03-C*12:03. Likely associations present in this cell are A*03:01-B*38:01-C*12:03 and A*69:01-B*55:01-C*03:03, with respective HF = 0.00197 and 0.00013, in Caucasians. This cell is the HLA identical sibling of cell 1523 (2014). As with the sibling, labs were in agreement in the assignment of A3 (100%), A69 (80%), B38 (100%), and B55 (90%). Good agreement was also observed among molecular labs, as 100% assigned A*03:01, A*69:01, B*38:01, B*55:01, C*03:03, and C*12:03. A*03:01:01:03, B*55:01:01, C*03:03:01, and C*12:03:01:01, were each assigned by 4 labs, and A*69:01:01:01 and B*38:01:01 were each assigned by 5 labs.

Cell 1635. The reported consensus type for this cell from a donor of mixed African American, Caucasian, and Native American heritage is A*23:01(A23)-A*29:02(A29)-B*44:03(B44)-B*45:01(B44)-C*06:02-C*16:01. One likely association present in this cell is A*23:01-B*45:01-C*06:02. Observed across all populations, the association is most common in African Americans, with HF = 0.00638. The other likely association present is A*29:02-B*44:03-C*16:01, observed most commonly in Hispanics, with HF = 0.02457. A*23:01, A*29:02, B*44:03, B*45:01, C*06:02, and C*16:01 were each reported in complete consensus. Four labs assigned A*23:01:01, A*29:02:01, B*44:03:01, and 3 labs assigned B*45:01:01, C*06:02:01:03, and C*16:01:01:01. Good agreement was also achieved among serology labs, with 100% of labs assigning A23, A29, B44, and B45.

Cell 1636. The reported consensus type for this sample from a Caucasian donor is A*11:01(A11)-A*30:02(A30)-B*18:01(B18)-B*35:01(B35)-C*04:01-C*05:01. Likely associations present in this cell are A*11:01-B*35:01-C*04:01 and A*30:02-B*18:01-C*05:01, with respective HF = 0.01645 and 0.00564, in Caucasians. A*11:01, A*30:02, B*18:01, B*35:01, C*04:01, and C*05:01 were each reported by 100% of labs reported at high resolution. A*11:01:01:01, A*30:02:01:01, B*18:01:01, B*35:01:01, and C*04:01:01 were each reported by 3 labs. Good agreement was also achieved by serology, with labs reporting A11, A30, B18, and B35 in complete consensus.

NEXT MAILING DATE: May 8, 2019

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Table 7. Summary of the 409th Cell Exchange (Cell #1633-1636)

DNA typing

Cell 1633	
17 low/13 high labs - A	%(n)
A*03:01:01:01	31(4)
A*03:01:01G	15(2)
A*03:01	54(7)
A*03	100(17)
17 low/13 high labs - A	%(n)
A*30:02:01:01	31(4)
A*30:02:01G	8 (1)
A*30:02	61(8)
A*30	100(17)
17 low/13 high labs - B	%(n)
B*18:01:01	31(4)
B*18:01:01G	15(2)
B*18:01	54(7)
B*18	100(17)
17 low/13 high labs - B	%(n)
B*37:01:01	38(5)
B*37:01:01G	8 (1)
B*37:01P	8 (1)
B*37:01	46(6)
B*37	100(17)
16 low/13 high Labs - C	%(n)
C*05:01:01:01	31(4)
C*05:01:01G	15(2)
C*05:01	54(7)
C*05	100(16)
16 low/13 high Labs - C	%(n)
C*06:02:01:01	31(4)
C*06:02:01G	15(2)
C*06:02	54(7)
C*06	100(16)

Cell 1634	
17 low/13 high labs - A	%(n)
A*03:01:01:03	31(4)
A*03:01:01G	15(2)
A*03:01	54(7)
A*03	100(17)
17 low/13 high labs - A	%(n)
A*69:01:01:01	38(5)
A*69:01	62(8)
A*69	100(17)
17 low/13 high labs - B	%(n)
B*38:01:01:01	23(3)
B*38:01:01	15(2)
B*38:01	62(8)
B*38	100(17)
17 low/13 high labs - B	%(n)
B*55:01:01	31(4)
B*55:01:01G	15(2)
B*55:01	54(7)
B*55	100(17)
16 low/14 high Labs - C	%(n)
C*03:03:01:01	7 (1)
C*03:03:01	21(3)
C*03:03:01G	7 (1)
C*03:03	64(9)
C*03(Cw9)	13(2)
C*03	87(14)
16 low/13 high Labs - C	%(n)
C*12:03:01:01	31(4)
C*12:03:01G	8 (1)
C*12:03	61(8)
C*12	100(16)

Cell 1635	
15 low/11 high labs - A	%(n)
A*23:01:01	36(4)
A*23:01:01G	9 (1)
A*23:01	55(6)
A*23	100(15)
15 low/11 high labs - A	%(n)
A*29:02:01:01	27(3)
A*29:02:01	9 (1)
A*29:02:01G	9 (1)
A*29:02	55(6)
A*29	100(15)
15 low/12 high labs - B	%(n)
B*44:03:01:01	17(2)
B*44:03:01	17(2)
B*44:03	66(8)
B*44	100(15)
15 low/12 high labs - B	%(n)
B*45:01:01	25(3)
B*45:01:01G	17(2)
B*45:01	58(7)
B*45	100(15)
14 low/11 high Labs - C	%(n)
C*06:02:01:03	27(3)
C*06:02:01G	18(2)
C*06:02	55(6)
C*06	100(14)
14 low/11 high Labs - C	%(n)
C*16:01:01:01	27(3)
C*16:01:01G	18(2)
C*16:01	55(6)
C*16	100(14)

Cell 1636	
15 low/11 high labs - A	%(n)
A*11:01:01:01	27(3)
A*11:01:01G	18(2)
A*11:01	55(6)
A*11	100(15)
15 low/11 high labs - A	%(n)
A*30:02:01:01	27(3)
A*30:02:01	9 (1)
A*30:02	64(7)
A*30	100(15)
15 low/12 high labs - B	%(n)
B*18:01:01:01	17(2)
B*18:01:01	8 (1)
B*18:01:01G	8 (1)
B*18:01	67(8)
B*18	100(15)
15 low/12 high labs - B	%(n)
B*35:01:01:05	17(2)
B*35:01:01	8 (1)
B*35:01:01G	8 (1)
B*35:01	67(8)
B*35	100(15)
14 low/11 high labs - C	%(n)
C*04:01:01:05	18(2)
C*04:01:01	9 (1)
C*04:01P	9 (1)
C*04:01	64(11)
C*04	100(14)
14 low/11 high labs - C	%(n)
C*05:01:05	18(2)
C*05:01:01	9 (1)
C*05:01:01G	9 (1)
C*05:01	64(7)
C*05	100(14)

Table 8. Summary of the 409th Cell Exchange (Cell #1633 - 1636)

Serological typing							
(Caucasian) Cell 1633		(Caucasian) Cell 1634		(Mixed) Cell 1635		(Caucasian) Cell 1636	
(10 Samples Typed)		(10 Samples Typed)		(8 Samples Typed)		(8 Samples Typed)	
A3	100.0%	A3	100.0%	A23	100.0%	A11	87.5%
						A11.1	12.5%
A30	100.0%	A69	80.0%	A29	100.0%		[100.0%]
		A28	20.0%			A30	100.0%
			[100.0%]	B44	100.0%		
B37	100.0%					B18	100.0%
		B38	100.0%	B45	100.0%		
B18	100.0%					B35	100.0%
		B55	90.0%				
		B22	10.0%	Cw6	37.5%		
Cw5	40.0%		[100.0%]				
				Bw4	100.0%	Cw4	50.0%
Cw6	40.0%						
		Cw3	50.0%	Bw6	100.0%	Cw5	37.5%
Bw4	100.0%	Cw12	10.0%			Bw6	100.0%
		Bw4	100.0%				
		Bw6	100.0%				
		Others Found		Others Found		Others Found	
		A29	10.0%	B41	12.5%	Cw8	12.5%
		B44	10.0%			A29	12.5%
		Cw3	10.0%				

Table 9. Individual laboratory results for Cell #1633

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02		
725	*03	*30	*18	*37	*05	*06							SSO	
731	*03	*30	*18	*37	*05	*06	*03:01:01G	*30:02:01G	*18:01:01G	*37:01:01	*05:01:01G	*06:02:01G	SSP SSO SBT	
745							*03:01:01:01	*30:02:01:01	*18:01:01	*37:01:01	*05:01:01:01	*06:02:01:01	SSP SBT NGS	
747	*03	*30	*18	*37	*05	*06	*03:01:01:01	*30:02:01:01	*18:01:01	*37:01:01	*05:01:01:01	*06:02:01:01	SSP SSO NGS	
762							*03:01:01:01	*30:02:01:01	*18:01:01	*37:01:01	*05:01:01:01	*06:02:01:01	SSO NGS	
771	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02	SSO SBT	
774	*03	*30	*18	*37	*05	*06							SSP	
3186	*03	*30	*18	*37	*05	*06							SSO	
														B*18:17N B*18:131 A*03:291 A*03:292 A*03:293 A*03:301 B*18:144 B*18:145 B*37:68 C*05:145 C*05:153N C*06:213 C*06:214 C*06:83
3545	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02	SSP SSO SBT	
3632	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02	SSP SSO	
3808	*03	*30	*18	*37	*05	*06							SSP	
4079	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02	SSP SSO	A*03:154
4251	*03	*30	*18	*37	*05	*06	*03:01:01G	*30:02	*18:01:01G	*37:01:01G	*05:01:01G	*06:02:01G	SSO SBT	
5133							*03:01:01:01	*30:02:01:01	*18:01:01	*37:01:01	*05:01:01:01	*06:02:01:01	NGS	
5214	*03	*30	*18	*37	*05	*06							SSO	
5462	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01P	*05:01	*06:02	SSO NGS	B*37:68
6649	*03	*30	*18	*37									SSO	
8001	*03	*30	*18	*37	*05	*06							SSO	
8043	*03	*30	*18	*37	*05	*06	*03:01	*30:02	*18:01	*37:01	*05:01	*06:02	SSP SSO	

Table 10. Individual laboratory results for Cell #1634

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03		
725	*03	*69	*38	*55	*03	*12							SSO	
731	*03	*69	*38	*55	*03	*12	*03:01:01G	*69:01:01:01	*38:01:01	*55:01:01G	*03:03	*12:03	SSP SSO SBT	
745							*03:01:01:03	*69:01:01:01	*38:01:01:01	*55:01:01	*03:03:01	*12:03:01:01	SSP SBT NGS	
747	*03	*69	*38	*55	*03	*12	*03:01:01:03	*69:01:01:01	*38:01:01	*55:01:01	*03:03:01:01	*12:03:01:01	SSP SSO NGS	
762							*03:01:01:03	*69:01:01:01	*38:01:01:01	*55:01:01	*03:03:01	*12:03:01:01	SSO NGS	
771	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSO SBT	
774	*03	*69	*38	*55	*03	*12							SSP	
3186	*03	*69	*38	*55	*03	*12							SSO	
														C*12:167 C*12:220 A*03:291 A*03:292 A*03:293 A*03:301 B*55:85 C*03:357 C*03:372 C*03:383 C*12:143 C*03:20N C*03:227 C*03:341
3545	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSP SSO SBT	
3632	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSP SSO	
3808	*03	*69	*38	*55	*03	*12					*03:03		SSP	
4079	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSP SSO	A*03:154
4251	*03	*69	*38	*55	*03	*12	*03:01:01G	*69:01	*38:01	*55:01:01G	*03:03:01G	*12:03:01G	SSO SBT	
5133							*03:01:01:03	*69:01:01:01	*38:01:01:01	*55:01:01	*03:03:01	*12:03:01:01	NGS	
5214	*03	*69	*38	*55	*03 (Cw9)	*12							SSO	
5462	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSO NGS	
6649	*03	*69	*38	*55									SSO	
8001	*03	*69	*38	*55	*03 (Cw9)	*12							SSO	
8043	*03	*69	*38	*55	*03	*12	*03:01	*69:01	*38:01	*55:01	*03:03	*12:03	SSP SSO	

Table 11. Individual laboratory results for Cell #1635

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01		
725	*23	*29	*44	*45	*06	*16							SSO	
731	*23	*29	*44	*45	*06	*16	*23:01:01	*29:02:01	*44:03:01	*45:01:01G	*06:02:01G	*16:01:01G	SSP SSO SBT	
745							*23:01:01	*29:02:01:01	*44:03:01	*45:01:01	*06:02:01:03	*16:01:01:01	SSP SBT NGS	
747	NT													
762							*23:01:01	*29:02:01:01	*44:03:01:01	*45:01:01	*06:02:01:03	*16:01:01:01	SSO NGS	
771	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01	SSO SBT	
774	*23	*29	*44	*45	*06	*16							SSP	
3186	*23	*29	*44	*45	*06	*16							SSO	
														B*45:19 C*06:213 C*06:214 C*16:118 C*06:83 C*16:111 C*16:112 A*23:17 A*29:95 A*29:100
3545	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01	SSP SSO SBT	
3632	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01	SSP SSO	
3808	*23	*29	*44	*45	*06	*16			*44:03	*45:01			SSP	
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*23	*29	*44	*45	*06	*16	*23:01:01G	*29:02:01G	*44:03	*45:01:01G	*06:02:01G	*16:01:01G	SSO SBT	
5133							*23:01:01	*29:02:01:01	*44:03:01:01	*45:01:01	*06:02:01:03	*16:01:01:01	NGS	
5214	*23	*29	*44	*45	*06	*16							SSO	
5462	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01	SSO NGS	
6649	*23	*29	*44	*45									SSO	
8001	*23	*29	*44	*45	*06	*16							SSO	
8043	*23	*29	*44	*45	*06	*16	*23:01	*29:02	*44:03	*45:01	*06:02	*16:01	SSP SSO	

Table 12. Individual laboratory results for Cell #1636

Center	Low Resolution						High Resolution						Method	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
278	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01		
725	*11	*30	*18	*35	*04	*05							SSO	
731	*11	*30	*18	*35	*04	*05	*11:01:01G	*30:02:01	*18:01	*35:01	*04:01	*05:01	SSP SSO SBT	
745							*11:01:01:01	*30:02:01:01	*18:01:01	*35:01:01	*04:01:01	*05:01:05	SSP SBT NGS	
747													SSP SSO NGS	
762							*11:01:01:01	*30:02:01:01	*18:01:01:01	*35:01:01:05	*04:01:01:05	*05:01:01	SSO NGS	
771	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSO SBT	
774	*11	*30	*18	*35	*04	*05							SSP	
3186	*11	*30	*18	*35	*04	*05							SSO	
														A*11:270 A*11:278 A*11:280 B*18:144 B*18:145 A*11:263 B*18:17N C*04:82 C*04:226 C*04:275 C*04:277 B*35:347 B*35:365 B*35:370 B*18:131 B*35:42 B*35:332 C*04:30
3545	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSP SSO SBT	
3632	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSP SSO	
3808	*11	*30	*18	*35	*04	*05			*18:01	*35:01			SSP	B*18:17N B*35:42
4079	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
4251	*11	*30	*18	*35	*04	*05	*11:01:01G	*30:02	*18:01:01G	*35:01:01G	*04:01P	*05:01:01G	SSO SBT	
5133							*11:01:01:01	*30:02:01:01	*18:01:01:01	*35:01:01:05	*04:01:01:05	*05:01:05	NGS	
5214	*11	*30	*18	*35	*04	*05							SSO	
5462	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSO NGS	
6649	*11	*30	*18	*35									SSO	
8001	*11	*30	*18	*35	*04	*05							SSO	
8043	*11	*30	*18	*35	*04	*05	*11:01	*30:02	*18:01	*35:01	*04:01	*05:01	SSP SSO	

