

# B-CELL LINE EXCHANGE #295

## OCTOBER 6, 2021

B-cell Line 589 - 590

The results for B-cell Line Exchange #295 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun** and to **Fred Hutchinson Research Center, Seattle** for generously sharing the valuable reference cells examined in this study.

We would like to also acknowledge and thank the labs performing NGS for sharing their findings and encourage other NGS labs to do so as well. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

**Ter-589.** The reported HLA type for this cell from a donor of mixed Caucasian and Black Caribbean descent is DRB1\*04:01-DRB1\*04-DRB4\*01:03-DQA1\*03:01-DQA1\*03:03-DQB1\*03:01-DQB1\*03:02-DPA1\*01:03-DPB1\*03:01-DPB1\*04:02-A\*03:01-A\*33:03-B\*07:02-B\*15:107-C\*01:02-C\*07:02. Based on family studies (1) and data from the Exchanges, the haplotypes in the cell are A\*33:03-B\*15:107-C\*01:02-DRB1\*04-DRB4\*01:03-DQA1\*03-DQB1\*03:02-DPA1\*01:03-DPB1\*04:02 and A\*03:01-B\*07:02-C\*07:02-DRB1\*04:01-DRB4\*01:03-DQA1\*03-DQB1\*03:01-DPA1\*01:03-DPB1\*03:01.

This cell is 13890190, a reference cell for B\*15:107. It was previously examined for class I in the Exchange as Extract 482 (2010). In this present re-typing, B\*15:107 was reported by 100% of labs reporting at high resolution. B\*15:107 is expressed serologically as B62 (1).

Good agreement was achieved for all other allele assignments, except DRB1\*04. DRB1\*04:07 was assigned by 12 labs, DRB1\*04:92 was assigned by 6 labs, DRB1\*04:07:01G was assigned by 5 labs, and DRB1\*04:07:01 was assigned by 2 labs. DRB1\*04:92 differs from DRB1\*04:07 by a single nucleotide substitution in exon 4 at codon 207 (GTG → ATG), which results in amino acid substitution from valine to methionine in DRB1\*04:92 (2).

### References:

1. Hammond L, Street J, Johnson J, et al. A new HLA-B\*15 variant – B\*9507. *Tissue Antigens* 2007;70:515-530.
2. Balas A, Garcia-Sanchez F, Vicario, L. Characterization of three novel HLA-DRB1 alleles, DRB1\*03:55, \*11:46:02 and \*04:92, by exon 2, 3 and 4 sequencing-based typing. *International Journal of Immunogenetics* 2001;38:435-436.

**Ter-590.** The reported HLA type for this cell from a donor of Chinese descent is DRB1\*04:05-DRB1\*08:14-DRB4\*01:03-DQA1\*01:03-DQA1\*03:03-DQB1\*04:01-DQB1\*06:01-DPA1\*02:02-DPB1\*02:02-DPB1\*05:01-A\*02:03-A\*11:01-B\*15:02-B\*38:02-C\*07:02-C\*08. One likely association present in this cell is A\*11:01-B\*15:02-DRB1\*04:05-DQB1\*04:01, observed exclusively in Asians, with HF = 0.00089. The other likely association present is A\*02:03-B\*38:02-DRB1\*08:14-DQB1\*06:01.

This cell is KE, a reference cell for DRB1\*08:14. It was examined in the workshop as IHW9432 and in the Exchange as Ter 522 (2015), Ter 467 (2012), Ter 384 (2007), and Ter 334 (2004). In this most recent re-typing, DRB1\*08:14 was assigned by 96% of labs reporting at high resolution.

Good agreement (> 90%) was also achieved for all other allele assignments, except C\*08. In the 2015 study, 4 labs indicated a new C-locus allele was likely present. The new allele, now known as C\*08:147, differs from C\*08:01:01, by 2 nucleotide substitutions in exon 4. The first is at codon 232, position 766, (GAG → AAG), in which glutamic acid is replaced by lysine in C\*08:147. The other is a synonymous substitution at codon 261, position 855, (GTG → GTA) (3). In this present study, C\*08:147 was assigned by 15 labs, 3 labs assigned C\*08:01, and 1 lab assigned C\*08:14.

3. Yang KL and Lin PY. Detection of HLA-C\*08:147, an HLA-C\*08 variant, in a Taiwanese hematopoietic stem cell donor. *HLA* 2019;93:237-238.

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**Table 3a: Individual laboratory results for B-cell #589 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*04	4*01	4*01	*03	*03	*03	*03	*01	*01	*03	*04		
725	*04		4*PRESENT		*03		*03(DQ7)	*03(DQ8)					SSO	
747	*04	*04	4*01	4*01	*03	*03	*03	*03	*01	*01	*03	*04	SSP SSO SBT	
792	*04	*04	4*01	4*01	*03	*03	*03	*03	*01	*01	*03	*04	SSO NGS	
793	*04	*04	4*PRESENT		*03	*03	*03(DQ7)	*03(DQ8)			*03	*04(DP402)	SSP	
794	*04		4*01		*03		*03		*01		*03	*04	SSP SSO NGS	
2400	*04	*04	4*01		*03	*03	*03	*03	NT	NT	*03	*04	RT-PCR	
2847	*04	*04											SSO	
3224	*04	*04		4*01	*03	*03	*03(DQ7)	*03(DQ8)	*01	*01	*03	*04(DP402)	SSP NGS	
3519	*04		4*01		*03		*03(DQ7)	*03(DQ8)	*01		*03	*04(DP402)	RT-PCR	
3753			4*01	4*01	*03	*03			*01	*01			SSO SBT	
4079	*04	*04	4*01		*03	*03	*03(DQ7)	*03(DQ8)	*01	*01	*03	*04(DP402)	SSO	
5130	*04	*04	4*01		*03	*03	*03	*03			*03	*04	SSO NGS	
5214	*04	*04	4*01		*03		*03(DQ7)	*03(DQ8)	*01		*03	*04(DP402)	SSO	
5219	*04	*04			*03	*03	*03	*03					SSO NGS	
5451	*04	*04	4*01		*03	*03	*03	*03					SSO SBT	
5462	*04	*04	4*01		*03		*03	*03	*01		NT	NT	SSO	
5488			4*01										SSO SBT NGS	
5642	*04	*04	4*PRESENT				*03(DQ7)	*03(DQ8)					SSP	
6649	*04						*03						SSO	
8029	*04	*04			*03	*03	*03	*03					SSO	
8043	*04	*04			*03	*03	*03	*03					SSP SSO	
8068	*04	*04			*03	*03	*03	*03					SSO	
8123	*04	*01	4*01	4*01	*03	*03	*03(DQ7)	*03(DQ8)	*01	*01	*03	*04(DP402)	SSO	

**Table 3b: Individual laboratory results for B-cell #589 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
230	*04:274	*04:07	4*01:03	4*01:03	*03:01	*03:03	*03:01	*03:02	*01:03	*01:03	*03:01	*04:02	NGS	
278	*04:01	*04:07	4*01:03	4*01:03	*03:01	*03:03	*03:01	*03:02	*01:03	*01:03	*03:01	*04:02		
747	*04:01:01	*04:92	4*01:03:01	4*01:03:01	*03:01:01	*03:03:01	*03:01:01	*03:02:01	*01:03:01	*01:03:01	*03:01:01	*04:02:01	SSP SSO SBT	DQB1*03:289 DRB1*04:07 DPB1*463:01 DQB1*03:416 DPB1*350:01
762	*04:01	*04:92	4*01:03		*03:01	*03:03	*03:01	*03:02	*01:03		*03:01	*04:02	NGS	DRB1*04:07 DRB1*04:274
774	*04:01	*04:07	4*01:01:01G	4*01:01:01G	*03:01	*03:03	*03:01	*03:02			*03:01	*04:02		
792	*04:01:01G	*04:07:01G	4*01:03	4*01:03	*03:01	*03:03	*03:01	*03:02	*01:03	*01:03	*03:01:01G	*04:02:01G	SSO NGS	
793					*03:01	*03:03					*03:01	*04:02	SSP	
794	*04:01	*04:07	4*01:03		*03:01:01	*03:03:01	*03:01:01	*03:02:01	*01:03:01		*03:01	*04:02	SSP SSO NGS RT-PCR	DRB1*04:92 DRB1*04:274 DPB1*351:01 DPB1*463:01 DRB4*01:134
2344	*04:01:01	*04:07:01	NT	NT	NT	NT	*03:01:01	*03:02:01	NT	NT	*03:01:01	*04:02:01	NGS	DPB1*351:01 DPB1*463:01:01 DRB1*04:274 DRB1*04:92
2400	*04:01:01G	*04:07:01G	4*01:03		*03:01	*03:03	*03:01	*03:02	NT	NT	*03:01:01G	*04:02:01G	SSO NGS	DQB1*03:276N DQB1*03:289 DQB1*03:416
3135	*04:01:01G	*04:07	4*01:03		*03:01:01G		*03:01	*03:02	*01:03		*03:01P	*04:02		
3511	*04:01	*04:07	4*01:03		*03:01	*03:03	*03:01	*03:02	*01:03	*01:03	*03:01	*04:02	SSP SSO RT-PCR	
3519	*04:01	*04:92	4*01:03		*03:01	*03:03	*03:01	*03:02	*01:03		*03:01P	*04:02P	SSP NGS RT-PCR	DRB1*04:07 DPB1*351:01 DPB1*463:01 DRB1*04:274

**Table 3b: Individual laboratory results for B-cell #589 - Class II**

High resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
														DQB1*03:295 DQB1*03:296 DQB1*03:321 DQB1*03:369 DQB1*03:379 DQB1*03:386 DQB1*03:415 DRB1*04:192 DQB1*03:276N DRB1*04:92 DQB1*03:256 DQB1*03:292 DQB1*03:293 DQB1*03:294 DQB1*03:297 DQB1*03:326 DQB1*03:389 DQB1*03:419 DQB1*03:426+	
3753	*04:01	*04:07					*03:01	*03:02				*03:01	*04:02	SSO SBT	
3966	*04:01	*04:07	4*01:03				*03:01	*03:02						SSP	
4337	*04:01	*04:07					*03:01	*03:02				*03:01	*04:02	SSP SBT NGS	
5130	*04:01	*04:92	4*01:03		*03:01	*03:03	*03:01	*03:02				*03:01	*04:02	SSO NGS	DRB1*04:274 DRB1*04:07 DQB1*03:02 DPB1*351:01 DPB1*463:01
5133	*04:01:01	*04:92	4*01:03:01		*03:01:01	*03:03:01	*03:01:01	*03:02:01	*01:03:01			*03:01:01	*04:02:01	NGS	DRB1*04:274 DRB1*04:07:01 DPB1*351:01 DPB1*463:01:01
5219	*04:274	*04:07:01					*03:01:01	*03:02:01				*03:01:01	*04:02:01	SSO NGS	
5451	*04:01:01G	*04:07:01G												SSO SBT	DRB1*04:01:01G

**Table 3b: Individual laboratory results for B-cell #589 - Class II**

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
														DPB1*727:01 DPB1*792:01N DPB1*829:01 DPB1*876:01N DPB1*883:01 DPB1*917:01N DPB1*935:01Q DPB1*938:01 DPB1*946:01 DPB1*948:01 DPB1*950:01N DPB1*952:01 DPB1*983:01 DPB1*1000:01 DPB1*1014:01 DPB1*1030:01 DPB1*1049:01 DPB1*1090:01 DPB1*958:01+
5462	NT	NT	NT		NT		NT	NT	NT			*03:01	*04:02	SSO
5488	*04:01:01G	*04:07:01G			*03:01:01	*03:03:01	03:01:01G	*03:02:01	*01:03:01			*03:01:01G	*04:02:01G	SSO SBT NGS
5642	*04:01	*04:07					*03:01	*03:02						SSP
8021	*04:01	*04:92	4*01:03		*03:01	*03:03	*03:01	*03:02	*01:03			*03:01	*04:02	
8043	*04:01	*04:07			*03:01	*03:03	*03:01	*03:02						SSP SSO
8086	*04:01	*04:07	4*01:03	4*01:03	*03:01	*03:03	*03:01	*03:02	*01:03:01G	*01:03:01G		*03:01	*04:02	SBT
8122	*04:01:01G	*04:07:01G	4*01:03		*03:01	*03:03	*03:01	*03:02	*01:03			*03:01	*04:02	NGS
														DPB1*351:01 DPB1*463:01

**Table 4: Individual laboratory results for B-cell #589- Class I**

Table 4: Individual laboratory results for B-cell #589- Class I														
Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	NGS	
278	*03	*33	*07	*15	*01	*07	*03:01	*33:03	*07:02	*15:107	*01:02	*07:02		
725	*03	*33	*07	*15(B62)	*01	*07							SSO	
747	*03	*33	*07	*15	*01	*07	*03:01:01	*33:03:01	*07:02:01	*15:107	*01:02:30:01	*07:02:01	SSP SSO SBT	
774	*03	*33	*07	*15(B62)	*01	*07								
792	*03	*33	*07	*15	*01	*07	*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSO NGS	
793	*03	*33	*07	*15(B62)	*01	*07							SSP	
794	*03	*33	*07	*15	*01	*07	*03:01:01	*33:03:01	*07:02:01	*15:107	*01:02:30:01	*07:02:01	SSP SSO NGS	
2344							*03:01:01	*33:03:01	*07:02:01	*15:107	*01:02:30:01	*07:02:01	RT-PCR	
2400	*03	*33	*07	*15(B62)	*01	*07	*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	NGS	
2847	*03	*33	*07	*15	*01	*07							SSO NGS	
3135													SSO	
3224	*03	*33	*07	*15	*01	*07	*03:01P	*33:03P	*07:02P	*15:107	*01:02P	*07:02P		
													RT-PCR	
3511							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSP SSO	
													RT-PCR	
3519	*03	*33	*07	*15(B62)	*01	*07	*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSP NGS	
													RT-PCR	B*07:374N
														B*07:371 B*07:355 B*07:382 B*07:381 B*07:390 C*01:22 C*01:54 C*01:58 C*01:60 C*01:77 C*07:17 C*07:29 C*07:37 C*07:51 C*07:566 C*07:684 C*07:722 C*07:736 C*07:789 C*07:809 A*33:145 B*07:312 B*07:339 B*07:354 A*33:203 B*07:402
3753							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSO SBT	
3966	*03	*33	*07	*15	*01	*07							SSP	
4079	*03	*33	*07	*15(B62)	*01	*07							SSO	
4337							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSP SBT NGS	
5130	*03	*33	*07	*15	*01	*07	*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SSO NGS	
5133							*03:01:01:01	*33:03:01:01	*07:02:01:01	*15:107	*01:02:30:01	*07:02:01:03	NGS	
5214	*03	*33	*07	*15(B62)	*01	*07							SSO	
5219	*03	*33	*07	*15	*01	*07	*03:01:01	*33:03:01	*07:02:01	*15:107	*01:02:30:01	*07:02:01	SSO NGS	
5462	*03	*33	*07	*15	*01	*07	NT	NT	NT	NT	NT	NT	SSO	
5488							*03:01:01	*33:03:01	*07:02:01	*15:107	*01:02:30	*07:02:01	SSO SBT NGS	
8021							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02		
8029	*03	*33	*07	*15	*01	*07							SSO	
8043	*03	*33	*07	*15	*01	*07							SSP SSO	
8068	*03	*33	*07	*15	*01	*07							SSO	



**Table 4: Individual laboratory results for B-cell #589- Class I**

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
8086							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	SBT	
8122							*03:01	*33:03	*07:02	*15:107	*01:02	*07:02	NGS	
8123	*03	*33	*07	*15(B62)	*01	*07							SSO	

**Table 5a: Individual laboratory results for B-cell #590 - Class II**

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*04	*08	4*01	NT	*01	*03	*04	*06	*02	*02	*02	*05		
725	*04	*08	4*PRESENT		*01	*03	*04	*06					SSO	
747	*04	*08	4*PRESENT		*01	*03	*04	*06	*02	*02	*02	*05	SSP SSO SBT	
792	*04	*08	4*01		*01	*03	*04	*06	*02	*02	*02	*05	SSO NGS	
793	*04	*08	4*PRESENT		*01	*03	*04	*06			*02(DP202)	*05	SSP	
794	*04	*08	4*01		*01	*03	*04	*06	*02		*02	*05	SSP SSO NGS	
2400	*04	*08	4*01		*01	*03	*04	*06	NT	NT	*02	*05	RT-PCR	
2847	*04	*08											SSO	
3224	*04	*08	4*01		*01	*03	*04	*06	*02		*02(DP202)	*05	SSO NGS	
3519	*04	*08	4*01		*01	*03	*04	*06	*02		*02(DP202)	*05	RT-PCR	
3753			4*01	NP	*01	*03			*02	*02			SSP	
4079	*04	*08	4*01		*01	*03	*04	*06	*02	*02	*02(DP202)	*05	SSO	
5130	*04	*08	4*01		*01	*03	*04	*06			*02	*05	SSO NGS	
5214	*04	*08	4*01		*01	*03	*04	*06	*02		*02(DP202)	*05	SSO	
5219	*04	*08			*01	*03	*04	*06					SSO NGS	
5451	*04	*08	4*01		*01	*03	*04	*06					SSO SBT	
5462	*04	*08	4*01	NP	*01	*03	*04	*06	*02		NT	NT	SSO	
5488			4*01										SSO SBT NGS	
5642	*04	*08	4*PRESENT				*04	*06					SSP	
6649	*04	*08					*04	*06					SSO	
8029	*04	*04			*01	*03	*04	*06					SSO	
8043	*04	*08			*01	*03	*04	*06					SSP SSO	
8068	*04	*04			*01	*03	*04	*06					SSO	
8123	*04	*08	4*01		*01	*03	*04	*06	*02	*02	*02(DP202)	*05	SSO	

**Table 5b: Individual laboratory results for B-cell #590 - Class II**

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*04:05	*08:14	4*01:03	4*01:03	*01:03	*03:03	*04:01	*06:01	*02:02	*02:02	*02:02	*05:01	NGS	
278	*04:05	*08:14	4*01:03	NT	*01:03	*03:03	*04:01	*06:01	*02:02	*02:02	*02:02	*05:01		
747	*04:05:01	*08:14	4*01:03:01		*01:03:01	*03:03:01	*04:01:01	*06:01:01	*02:02:02	*02:02:02	*02:02:01	*05:01:01	SSP SSO SBT	DQB1*06:01:15
762	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	*02:02		*02:02	*05:01	NGS	DPB1*547:01 DPB1*744:01
774	*04:05	*08:14	4*01:01:01G		*01:03	*03:03	*04:01	*06:01			*02:02	*05:01		
792	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	*02:02	*02:02	*02:02	*05:01	SSO NGS	DPB1*744:01 DPB1*547:01
793					*01:03	*03:03					*02:02	*05:01	SSP	
794	*04:05:01	*08:14	4*01:03:01		*01:03:01	*03:03:01	*04:01:01	*06:01:01	*02:02:02		*02:02	*05:01	SSP SSO NGS RT-PCR	DPB1*744:01 DPB1*547:01
2344	*04:05:01	*08:14	NT	NT	NT	NT	*04:01:01	*06:01:01	NT	NT	*02:02:01	*05:01:01	NGS	DPB1*547:01 DPB1*744:01
2400	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	NT	NT	*02:02:01	*05:01:01G	SSO NGS	DPB1*547:01
3135	*04:05	*08:14	3*01:03		*01:03	*03:01:01G	*04:01	*06:01	*02:02P		*02:02	*05:01		
3511	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	*02:02P	*02:02P	*02:02	*05:01	SSP SSO RT-PCR	
3519	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01			*02:02P	*05:01P	SSP NGS RT-PCR	DPB1*547:01 DPB1*744:01
3753	*04:05	*08:14					*04:01	*06:01			*02:02	*05:01	SSO SBT	DRB1*04:213 DRB1*04:86 DRB1*04:103 DQB1*06:285 DQB1*06:307 DQB1*06:309 DPB1*547:01 DPB1*744:01 DRB1*08:71 DRB1*08:102 DRB1*08:14 DRB1*08:18 DRB1*08:03
3966	*04:05	*08:14	4*01:03				*04:01	*06:01					SSP	
4337	*04:05	*04:05					*04:01	*06:01			*02:02	*05:01	SSP SBT NGS	
5130	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01			*02:02	*05:01	SSO NGS	DPB1*744:01 DPB1*547:01
5133	*04:05:01	*08:14	4*01:03:01		*01:03:01	*03:03:01	*04:01:01	*06:01:01	*02:02:02		*02:02:01	*05:01:01	NGS	DPB1*22:01 DPB1*1026:01 DPB1*100:01 DPB1*547:01 DPB1*744:01
5219	*04:05:01	*08:14					*04:01:01	*06:01:01			*02:02:01	*05:01:01	SSO NGS	
5451	*04:05:01	*08:14											SSO SBT	

**Table 5b: Individual laboratory results for B-cell #590 - Class II**

High resolution															
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
														DPB1*547:01 DPB1*766:01 DPB1*928:01 DPB1*135:01 DPB1*729:01 DPB1*744:01 DPB1*778:01 DPB1*847:01 DPB1*851:01 DPB1*860:01 DPB1*951:01 DPB1*1018:01 DPB1*1117:01 DPB1*1118:01 DPB1*1119:01 DPB1*1120:01 DPB1*1143:01 DPB1*1156:01	
5462	NT	NT	NT	NT	NT	NT	NT	NT	NT			*02:02	*05:01	SSO	
5488	*04:05:01	*08:14			*01:03:01	*03:03:01	*04:01:01	*06:01:01	*02:02:02			*02:02:01	*05:01:01	SSO SBT NGS	DPB1*547:01 DPB1*744:01
5642	*04:05	*08:14					*04:01	*06:01						SSP	
8021	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	*02:02			*02:02	*05:01		
8043	*04:05	*08:14			*01:03	*03:03	*04:01	*06:01						SSP SSO	
8086	*04:05	*08:14	4*01:03		*01:03	*03:03	*04:01	*06:01	*02:02:02G	*02:02:02G		*02:02	*05:01	SBT	
8122	*04:05	*08:14	4*01:03	NP	*01:03	*03:03	*04:01	*06:01	*02:02			*02:02	*05:01	NGS	

**Table 6: Individual laboratory results for B-cell #590- Class I**

Table 6: Individual laboratory results for B-cell #590- Class I														
Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*02:03	*11:01	*15:02	*38:02	*07:02	*08:14	NGS	
278	*02	*11	*15	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:01		
725	*02	*11	*15(B75)	*38	*07	*08							SSO	
747	*02	*11	*15	*38	*07	*08	*02:03:01	*11:01:01	*15:02:01	*38:02:01	*07:02:01	*08:147	SSP SSO SBT	
774	*02	*11	*15(B75)	*38	*07	*08								
792	*02	*11	*15	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSO NGS	
793	*02	*11	*15(B75)	*38	*07	*08							SSP	
794	*02	*11	*15	*38	*07	*08	*02:03:01	*11:01:01	*15:02:01	*38:02:01	*07:02:01	*08:147	SSP SSO NGS	
2344							*02:03:01	*11:01:01	*15:02:01	*38:02:01	*07:02:01	*08:147	RT-PCR	
2400	*02	*11	*15(B75)	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	NGS	
2847	*02	*11	*15	*38	*07	*08							SSO NGS	
3135													SSO	
3224	*02	*11	*15(B75)	*38	*07	*08	*02:03:01	*11:01P	*15:02:01	*38:02:01G	*07:02P	*08:147		
3511							63(12)	*11:01	*15:02	*38:02	*07:02	*08:01	RT-PCR	
3519	*02	*11	*15(B75)	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSP NGS	
3753													RT-PCR	A*11:12 A*11:295 A*11:303 A*11:324 A*11:328 A*11:353 B*39:149 C*07:161 C*07:260 C*08:16 C*08:72 A*02:267 A*02:280 A*02:355 A*02:427 A*02:447 A*11:20 A*11:73 A*11:199 B*15:89 B*39:05
3966	*02	*11	*15	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSO SBT	
4079	*02	*11	*15(B75)	*38	*07	*08							SSP	
4337							*02:03	*11:01	*15:02	*38:02	*07:02	*08:01	SSO	
5130	*02	*11	*15	*38	*07	*08	*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSP SBT NGS	
5133							*02:03:01	*11:01:01:01	*15:02:01:01	*38:02:01:01	*07:02:01:01	*08:147	SSO NGS	
5214	*02	*11	*15(B75)	*38	*07	*08							SSO	
5219	*02	*11	*15	*38	*07	*08	*02:03:01	*11:01:01	*15:02:01	*38:02:01	*07:02:01	*08:147	SSO NGS	
5462	*02	*11	*15	*38	*07	*08	NT	NT	NT	NT	NT	NT	SSO	
5488							*02:03:01	*11:01:01	*15:02:01	*38:02:01	*07:02:01	*08:147	SSO SBT NGS	
8021							*02:03	*11:01	*15:02	*38:02	*07:02	*08:147		
8029	*02	*11	*15	*38	*07	*08							SSO	
8043	*02	*11	*15	*38	*07	*08							SSP SSO	
8068	*02	*11	*15	*38	*07	*08							SSO	
8086							*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSO	
8122							*02:03	*11:01	*15:02	*38:02	*07:02	*08:147	SSO	
8123	*02	*11	*15(B75)	*38	*07	*08							SSO	