

## B-cell Line Exchange #258

The results for B-cell Line Exchange #258 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are most grateful to **Helen Bass, Jane Rowlands, and Tracy Rees, Welsh Blood Service, Pontyclun** and to **Franz Claas, Leiden University Medical Centre, Leiden**, for providing us with the interesting cells typed in our studies. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <http://bioinformatics.nmdp.org/>.

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**Ter-515.** The consensus type for this sample is DRB1\*07:01-DRB1\*13:36-DRB3\*03:01-DRB4\*01:01-DQA1\*01:02-DQA1\*02:01-DQB1\*02:02-DQB1\*06:09-DPA1\*01:03-DPB1\*02:01-DPB1\*04:01-A\*23:01-A\*32:01-B\*41:02-B\*44:03-C\*04:01-C\*17:03. One possible association present in this cell may be A\*32:01-B\*41:02-DRB1\*13:36-DRB3\*03:01-DQA1\*01:02-DQB1\*06:09-DPB1\*04:01, observed in RD-DJ, one of the reference cells for DRB1\*13:36. The other likely association is A\*23:01-B\*44:03-DRB1\*07:01-DRB4\*01:01-DQA1\*02:01-DQB1\*02:02-DPB1\*02:01.

This sample is 30638, a reference cell for DRB1\*13:36. It was previously studied as Ter 446 (2010), Ter 360 (2005), and Ter 319 (2003), as astutely noted by Rao and Tiercy. In this retyping, DRB1\*13:36 was assigned by 97% of labs reporting at high resolution. DRB1\*07:01 (100%) was reported as the second DRB1 type, with 4 labs assigning DRB1\*07:01:01. DQB1\*02:02 (97%) and DQB1\*06:09 (100%) were well typed as the DQB1 types. DQB1\*02:02:01 and DQB1\*06:09 were each assigned by 4 labs. The assignments of DPB1\*01:02 and DPB1\*04:01 improved, increasing from a detection level of 83% and 79%, respectively, in 2010, to 97% and 100% in this present typing.

The class I types for this sample were reported as A\*23:01 (100%), A\*32:01 (100%), B\*41:02 (100%), B\*44:03 (100%), C\*04:01 (95%), and C\*17:03 (68%).

**Ter-516.** The consensus type for this sample from an Asian donor is DRB1\*13:13-DRB1\*15:02-DRB5\*01:01-DQA1\*01:02-DQA1\*05:05-DQB1\*03:01-DQB1\*05:02-DPA1\*02:02-DPB1\*01:01-DPB1\*05:01/\*135:01-A\*11:01-A\*24:02-B\*27:06-B\*48:01-C\*01:02-C\*08:01. One possible associ-

ation in this cell may be A\*24:02-B\*48:01-DRB1\*15:02-DQB1\*05:02, with HF=0.00089, in Asians. The other likely association present is A\*11:01-B\*27:06-DRB1\*13:13-DQB1\*03:01.

This sample was previously studied as Ter 433 (2009) and Ter 269 (2000), as correctly identified by Kvam, Rao, and Tiercy. It is the reference cell for DRB1\*13:13, known as XX406 (1). In this present retyping, DRB1\*13:13 and DRB1\*15:02 were each assigned in complete consensus. Arnold, Costeas, Hahn, Pancoska, Rao, and Tiercy commented on the absence of DRB3, despite the presence of DRB1\*13:13. Interestingly, 2 out of 3 serology labs did report DR52. Anholts et al, describes the DRB\*13:13-DRB3-negative association in this cell as likely representing "a recombination between a DR8 and DR13 haplotype. The HV2-HV3 region, together with the telomeric DRB1\*0803 class II region, of course lacking DRB3, possibly recombined with the HV1 of DRB1\*1303 and the centromeric part of that haplotype, including DQA1\*0501, DQA1\*0301" (1). DRB5\*01:01 was reported by 100%. DPB1\*01:01 (100%) was well assigned. The assignment of the second DPB1 type, however, remained unresolved, as 15 labs reported DPB1\*135:01, 5 reported DPB1\*05:01, 4 reported DPB1\*05:01:01G, 5 reported DPB1\*05:01/\*135:01, 1 reported DPB1\*05:01P, and 1 reported DPB1\*05:01/\*135:01/\*+. DPB1\*135:01 "was found identical to DPB1\*05:01 in exon 2 sequence, but showed a non-synonymous substitution in exon 4 and a nucleotide deletion in exon 5" (2).

This sample was also typed for class I as extracts 250 (2003) and 165 (2001). In this present retyping, the class I types were well assigned as A\*11:01 (100%), A\*24:02 (100%), B\*27:06 (100%), B\*48:01 (100%), C\*01:02 (95%), C\*08:01 (95%).

### References:

1. Anholts JDH, Verduijn W, Drabbels J, et al. Identification of two new alleles HLA-DRB1\*0312, DRB1\*0432 and of a DRB3-negative DRB1\*1313-positive haplotype. *Tissue Antigens* 2000;56:87-89.
2. Lauterbach N, Voorter CEM, Stallinga CMHA, et al. Full-length HLA-DPB1 diversity in multiple alleles of individuals from Caucasian, Black, or Oriental origin. *Tissue Antigens* 2012;79:165-173.

**Table 1: Summary of the 258<sup>th</sup> B-cell Line Exchange**

**Ter-515**

<b>DNA Typing - class II</b>	
<b>35 labs High; 37 labs low-DRB1</b>	
	(n)
DRB1*07:01:01:01	3 (1)
DRB1*07:01:01	9 (3)
DRB1*07:01:01G	3 (1)
DRB1*07:01	85(30)
DRB1*07	100(37)
<b>36 labs High; 37 labs low-DRB1</b>	
	(n)
DRB1*13:36	97(35)
<i>DRB1*13:135</i>	3 (1)
DRB1*13	100(37)

<b>24 labs High; 27 labs Low-DRB3</b>	
	(n)
DRB3*03:01	96(23)
<i>DRB3*01:01</i>	4 (1)
DRB3*03	59(16)
<i>DRB3*01</i>	11(3)
DRB3*PRESENT	30(8)
<b>20 labs High; 28 labs Low-DRB4</b>	
	(n)
DRB4*01:01:01:01	5 (1)
DRB4*01:01	95(19)
DRB4*01	68(19)
DRB4*PRESENT	32(9)

<b>22 labs High; 22 labs Low-DQA1</b>	
	(n)
DQA1*01:02:01	5 (1)
DQA1*01:02:01G	9 (2)
DQA1*01:02	86(19)
DQA1*01	100(22)
<b>24 labs High; 20 labs Low-DQA1</b>	
	(n)
DQA1*02:01	100(24)
DQA1*02	100(20)

<b>33 labs High; 35 labs Low-DQB1</b>	
	(n)
DQB1*02:02:01	12(4)
DQB1*02:02	85(28)
<i>DQB1*02:06</i>	3 (1)
DQB1*02	100(35)
<b>33 labs High; 35 labs Low-DQB1</b>	
	(n)
DQB1*06:09:01	12(4)
DQB1*06:09	88(29)
DQB1*06	100(35)

<b>15 labs High; 13 labs Low-DPA1</b>	
	(n)
DPA1*01:03:01	7 (1)
DPA1*01:03	93(14)
DPA1*01	92(12)
<i>DPA1*02</i>	8 (1)
<b>30 labs High; 14 labs Low-DPB1</b>	
	(n)
DPB1*02:01:02	10(3)
DPB1*02:01:02G	7 (2)
DPB1*02:01	80(24)
<i>DPB1*141:01</i>	3 (1)
DPB1*02	93(13)
<i>DPB1*01</i>	7 (1)
<b>30 labs High; 14 labs Low-DPB1</b>	
	(n)
DPB1*04:01:01:01	3 (1)
DPB1*04:01:01	3 (1)
DPB1*04:01:01G	7 (2)
DPB1*04:01	87(26)
DPB1*04(DP0401)	36(5)
DPB1*04	57(8)
<i>DPB1*05</i>	7 (1)

<b>Serology - class II</b>	
<b>3 LABS - DR</b>	
	(n)
DR7	100(3)
DR13	100(3)

<b>DR52</b>	
	100(3)
<b>DR53</b>	
	67(2)

<b>3 LABS - DQ</b>	
	(n)
DQ2	100(3)
DQ1	100(3)

<b>DNA Typing - class I</b>	
<b>19 labs High; 26 labs low- A</b>	
	(n)
A*23:01:01	11(2)
A*23:01:01G	5 (1)
A*23:01P	5 (1)
A*23:01	79(15)
A*23	100(26)
<b>19 labs High; 26 labs low- A</b>	
	(n)
A*32:01:01	11(2)
A*32:01	89(17)
A*32	100(26)

<b>21 labs High; 25 labs low- B</b>	
	(n)
B*41:02:01	19(4)
B*41:02	81(17)
B*41	100(25)
<b>21 labs High; 25 labs low- B</b>	
	(n)
B*44:03:01	14(3)
B*44:03:02	5 (1)
B*44:03	81(17)
B*44	100(25)

<b>19 labs High; 26 labs low- C</b>	
	(n)
C*04:01:01:01	5 (1)
C*04:01:01	5 (1)
C*04:01P	11(2)
C*04:01	74(14)
<i>C*04:09N</i>	5 (1)
C*04	100(26)
<b>19 labs High/Inter; 26 labs low- C</b>	
	(n)
C*17:01:01G	5 (1)
C*17:03	68(13)
<i>C*17:01</i>	11(2)
C*17:01+	16(3)
C*17	100(26)

**Table 2: Summary of the 258<sup>th</sup> B-cell Line Exchange**

**Ter-516**

DNA Typing - class II		DNA Typing - class I	
<b>36 labs High; 37 labs low-DRB1</b> % (n) DRB1*13:13 100(36) DRB1*13 94(35) DRB1*08 3 (1) DRB1*14 3 (1)		<b>19 labs High; 26 labs low- A</b> % (n) A*11:01:01 11(2) A*11:01 84(16) A*11:12 5 (1) A*11 100(26)	
<b>23 labs High; 25 labs Low-DRB5</b> % (n) DRB5*01:01:01 4 (1) DRB5*01:01 96(22) DRB5*01 72(18) DRB5*PRESENT 28(7)		<b>20 labs High; 25 labs low- B</b> % (n) B*27:06 100(20) B*27 100(25)	
<b>35 labs High; 38 labs low-DRB1</b> % (n) DRB1*15:02:01 14(5) DRB1*15:02 86(30) DRB1*15 100(38)		<b>19 labs High; 26 labs low- C</b> % (n) C*01:02:01 11(2) C*01:02:01G 11(2) C*01:02 73(14) C*04:01 5 (1) C*01 100(26)	
<b>21 labs High; 22 labs Low-DQA1</b> % (n) DQA1*01:02:01 5 (1) DQA1*01:02:01G 10(2) DQA1*01:02 85(18) DQA1*01 100(22)		<b>20 labs High; 25 labs low- B</b> % (n) B*48:01:01 20(4) B*48:01 80(16) B*48 100(25)	
<b>21 labs High; 21 labs Low-DQA1</b> % (n) DQA1*05:05:01 5 (1) DQA1*05:01:01G 5 (1) DQA1*05:05 90(19) DQA1*05 95(20) DQA1*03 5 (1)		<b>19 labs High; 26 labs low- C</b> % (n) C*08:01:01 11(2) C*08:01:01G 11(2) C*08:01 73(14) C*17:01 5 (1) C*08 100(26)	
<b>34 labs High; 35 labs Low-DQB1</b> % (n) DQB1*03:01:01:01 3 (1) DQB1*03:01:01 6 (2) DQB1*03:01:01G 3 (1) DQB1*03:01 88(30) DQB1*03(DQ7) 6 (2) DQB1*03 94(33)		<b>32 labs High; 35 labs Low-DQB1</b> % (n) DQB1*05:02:01 13(4) DQB1*05:02 84(27) DQB1*05:05 3 (1) DQB1*05 100(35)	
<b>15 labs High; 13 labs Low-DPA1</b> % (n) DPA1*02:02:02 7 (1) DPA1*02:02 86(13) DPA1*02:01 7 (1) DPA1*02 92(12) DPA1*01 8 (1)		<b>3 LABS - DR</b> % (n) DR13 100(3) DR15 100(3)	
<b>29 labs High; 15 labs Low-DPB1</b> % (n) DPB1*01:01:01 7 (2) DPB1*01:01:01G 3 (1) DPB1*01:01:02G 3 (1) DPB1*01:01 86(25) DPB1*01 93(14) DPB1*02 7 (1)		<b>3 LABS - DQ</b> % (n) DQ1 100(3) DQ7 100(3)	
<b>30 labs High/Int; 9 labs Low-DPB1</b> % (n) DPB1*05:01:01G 13(4) DPB1*05:01P 3 (1) DPB1*135:01 50(15) DPB1*05:01 17(5) DPB1*05:01/*135:01 13(4) DPB1*05:01/*135:01/*+ 3 (1) DPB1*05 89(8) DPB1*04 11(1)			

**Table 3a: Individual laboratory results for B-cell #515-Class II**

Center	Investigator	Low resolution										METHOD		
		DRB1	DRB3	DRB4	DQA1	DQB1	DPA1	DPB1						
5488	Adams , Sharon			4*01	*01					NT			SSP SSO SBT	
4691	Al Ajlan , Abdulaziz							*02	*06				SSO	
8070	Chang , Uckjin	*07	*13										SSP	
9916	Charlton , Ronald K	*07	*13	3*PRESENT	4*PRESENT			*02	*06				SSP SBT	
3224	Chen , Dong-Feng	*07	*13	3*01	4*01	*01	*02	*02	*06	*01		*02	*04	SSP SSO SBT
8021	Clark , Brendan			3*03	4*01	*01	*02	*02	*06					SSP SSO
3632	Colombe , Beth W.	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04	SSP SSO
779	Daniel , Claude	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04(DP0401)	SSP SSO
5219	Daniel , Dolly	*07	*13					*02	*06					
1108	DeConinck , Martha	*07	*13	3*03	4*01	*01	*02	*02	*06	*01				
3766	Dunn , Paul	*07	*13	3*03	4*01	*01		*02	*06					
5214	Eckels/CPMC ,	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04(DP0401)	
4079	Fort , Marylise	*07	*13					*02	*06					SSP
792	Gandhi , Manish	*07	*13	3*03	4*01	*01	*02	*02	*06	*01	*01	*02	*04	
8087	Guerra , Q.F.B. Elb	*07	*13					*02	*06					SSO
910	Hahn , Amy B.	*07	*13	3*PRESENT	4*PRESENT			*02	*06					SSP
1694	Hesse , Nicole	*07	*13	3*PRESENT	4*PRESENT			*02	*06					SSP
8043	Hod , Reut	*07	*13					*02	*06					
771	Israel , Shoshana	*07	*13					*02	*06					SSP SSO
794	Jaatinen , Taina	*07	*13											SSP SSO SBT
2847	Kihara , Masaaki	*07	*13											SSO
87	Land , Geoffrey A.	*07	*13	3*03	4*01	*01	*02	*02	*06	*01	*01	*02	*04	SSP SSO SBT
725	Lardy , N.M.	*07	*13	3*PRESENT	4*PRESENT	*01	*02	*02	*06					SSP SSO
278	Lee , Jar-How	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04	SSP SSO
6649	Lim , Young Ae	*07	*13	3*PRESENT	4*PRESENT									SSP
759	Lopez-Cepero , Ma	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04(DP0401)	SSP
206	McAlack-Hanau ,	*07	*13	3*03	4*01	*01	*02	*02	*06	*02		*01	*05	
8042	Muncher , Liora	*07	*13	3*03	4*01	NT	NT	*02	*06	NT	NT	NT	NT	SSP SBT
54	Pancoska , Carol	*07	*13	3*01	4*01	*01	*02	*02	*06	*01		*02	*04	SSO
2400	Phelan , Donna L.	*07	*13	3*03	4*01	*01	*02	*02	*06			*02	*04	SSP SSO SBT
8001	Rao , Prakash					*01	*02							SSP SSO
3519	Renac , Virginie	*07	*13					*02	*06			*02	*04(DP0401)	SSP SBT
1160	Rosen-Bronson , S	*07	*13	3*03	4*01	*01	*02	*02	*06	*01		*02	*04	SSO SBT
793	Rubocki , Ronald	*07	*13	3*03	4*PRESENT	*01	*02	*02	*06					SSP
4251	Schiller , Jennifer	*07	*13	3*03	4*01	*01	*02	*02	*06	*01	*01	*02	*04(DP0401)	SSO SBT
8068	Shanmugam , Hem	*07	*13	3*PRESENT	4*PRESENT			*02	*06					SSP
8029	Tarigopula , Anil	*07	*13					*02	*06					SSO
747	Tiercy , Jean-Marie	*07	*13	3*PRESENT	4*PRESENT	*01	*02	*02	*06					SSP SSO SBT
5451	Tilanus , Marcel G.	*07	*13	3*PRESENT	4*PRESENT			*02	*06					SSP SBT
5642	Varnavidou-Nicolaï	*07	*13	3*01	4*01			*02	*06					
8052	Yanina Marcos , Ci	*07	*13			*01	*02	*02	*06					SSO

Table 3b: Individual laboratory results for B-cell #515-Class II										
Serology										
CTR	DIRNAME	DR7	DR13	DR52	DR53		DQ2	DQ1	OTH1	OTH2
4492	Charron,D.	+	+	+	+		+	+		
910	Hahn,Amy B.	+	+	+	+		+	+		
4908	Kvam,Vonnett	+	+	+			+	+		

Table 4: Individual laboratory results for B-cell #515-Class II														
Center	Investigator	High resolution											METHOD	Other Alleles
		DRB1	DRB3	DRB4	DQA1		DQB1		DPA1	DPB1				
5488	Adams , Sharon	*07:01:01	*13:36	3*03:01			*02:01	*02:02:01	*06:09:01		*02:01:02	*04:01:01	SSP SSO SBT	DQA1*01:02/01:08/01:09/01:11
4691	Al Ajlan , Abdulaziz	*07:01	*13:36										SSO	
5462	Arnold , Paula	*07:01	*13:36	3*03:01	4*01:01	NT	NT	*02:02	*06:09	NT	*02:01	*04:01	SSP SSO SBT	DQB1*02:12
774	Cecka , J. Michael	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO	DRB1*07:18/07:19/07:21/07:23/07:24/07:25/07:27/07:28/07:29/07:30/07:31/07:32/07:33/07:34, DQB1*02:06/02:10/02:11/02:12, DQB1*06:88/06:121/06:142
9916	Charlton , Ronald K	*07:01:01	*13:36	3*03:01	4*01:01:01:01			*02:02:01	*06:09:01				SSP SBT	
4492	Charron , Dominique	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO	DRB1*07:31/07:33/07:34, DQB1*02:12, DQB1*06:88, DQA1*01:08/01:09/01:11, DPB1*217:01/218:01N/237:01/239:01/258:01/261:01/273:01/359:01/216:01N /224:01/225:01/228:01/230:01/231:01/232:01/240:01/253:01/262:01
3224	Chen , Dong-Feng	*07:01	*13:36	3*01:01	4*01:01	*01:02:01G	*02:01	*02:02	*06:09	*01:03	*02:01:02	*04:01	SSP SSO SBT	
8021	Clark , Brendan	*07:01	*13:36	3*03:01		*01:02	*02:01	*02:02	*06:09		*02:01	*04:01	SSP SSO	DRB1*07:25/07:26N/07:27/07:28, DQA1*01:08/01:09/01:11, DQB1*02:12, DQB1*06:88
3632	Colombe , Beth W.	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO	
5130	Costeas , Paul A.	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09					
779	Daniel , Claude		*13:36	3*03:01		*01:02	*02:01			*01:03	*02:01	*04:01	SSP SSO	
3766	Dunn , Paul						*02:01			*01:03	*02:01	*04:01		
3135	Enczmann , J	*07:01	*13:36	3*03:01	4*01:01			*02:02	*06:09		*02:01	*04:01		
762	Fischer , Gottfried	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09		*02:01	*04:01	SSP SSO SBT	DRB1*07:23, DRB4*01:06
4079	Fort , Marylise										*02:01	*04:01	SSP	DRB1*334:01
792	Gandhi , Manish	*07:01	*13:36			*01:02	*02:01	*02:02	*06:09		*02:01	*04:01		
810	Hamdi , Nuha	*07:01	*13:36	3*03:01	4*01:01	*01:02	*02:01	*02:02	*06:09				SSO	DRB1*07:31, DRB4*01:03/01:06, DQA1*01:08/01:09, DQB1*02:12, DQB1*06:88
8043	Hod , Reut	*07:01	*13:36			*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01		

Table 4: Individual laboratory results for B-cell #515-Class II															
Center	Investigator	High resolution											METHOD	Other Alleles	
		DRB1	DRB3	DRB4	DQA1		DQB1		DPA1	DPB1					
2344	Hurley , Hartzman&	*07:01:01:01	*13:36				*01:02:01	*02:01	*02:02:01	*06:09:01	*01:03:01	*02:01:02	*04:01:01:01	OTHER	DRB1*07:01:01:02, DPB1*04:01:01:02
771	Israel , Shoshana	*07:01	*13:36						*02:02	*06:09				SSP SSO	
794	Jaatinen , Taina	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO SBT	DQA1*01:08/01:09/01:11
8086	Jie , Pan	*07:01	*13:36				*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SBT	
4337	Kim , Tai-Gyu	*07:01	*13:36						*02:02	*06:09		*02:01	*04:01	SBT	
87	Land , Geoffrey A.	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO SBT	
278	Lee , Jar-How	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO	
274	Lo , Raymundo W.	*07:01	*13:135				*01:02	*02:01	*02:02	*06:09	*01:03	*141:01	*04:01		
8042	Muncher , Liora	*07:01	*13:36	3*03:01	4*01:01		NT	NT	*02:02	*06:09	NT	NT	NT	SSP SBT	
54	Pancoska , Carol													SSO	
3966	Permpikul , Vejbaes	*07:01	*13:36	3*03:01	4*01:01				*02:02	*06:09				SSP	
2400	Phelan , Donna L.	*07:01	*13:36				*01:02	*02:01	*02:02	*06:09		*02:01:02G	*04:01:01G	SSP SSO SBT	
8001	Rao , Prakash	*07:01	*13:36	3*03:01	4*01:01				*02:02	*06:09		*02:01	*04:01	SSP SSO	
3753	Reed , Elaine F.	*07:01	*13:36	3*03:01	4*01:01		*01:02:01G	*02:01	*02:02	*06:09	*01:03	*02:01	*04:01	SSP SSO SBT	DQB1*02:01, DQB1*06:05, DRB4*01:03/01:06/01:08, DPB1*23:01/33:01/51:01/71 :01/81:01/105:02
3519	Renac , Virginie	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02	*06:09		*02:01	*04:01	SSP SBT	DRB1*07:34
1160	Rosen-Bronson , Sa	*07:01	*13:36	3*03:01					*02:02	*06:09	*01:03	*02:01	*04:01	SSO SBT	DRB1*07:26N, DQB1*02:12, DQB1*06:88
793	Rubocki , Ronald											*02:01	*04:01	SSP	
4251	Schiller , Jennifer	*07:01:01G	*13:36						*02:02	*06:09		*02:01:02G	*04:01:01G	SSO SBT	
747	Tiercy , Jean-Marie	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02:01	*06:09:01		*02:01	*04:01	SSP SSO SBT	DQA1*01:08/01:09/01:11
5451	Tilanus , Marcel G.	*07:01:01	*13:36											SSP SBT	
5642	Varnavidou-Nicolaïd	*07:01	*13:36						*02:06	*06:09					
3511	Zeevi , Adriana	*07:01	*13:36	3*03:01	4*01:01		*01:02	*02:01	*02:02	*06:09		*02:01	*04:01	SSP SSO	

Table 5: Individual laboratory results for B-cell #515-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	*23	*32			*04	*17			*41:02:01	*44:03:01			SSP SSO SBT	A*23:01:01/23:03:01/23:04:23/17/23:36, A*32:01:01/32:03/32:13/32:28, C*04:01/04:09N/04:30/04:32/04:82, C*17:02/17:01/17:03/17:23
4691	Al Ajlan , Abdulaziz	*23	*32	*41	*44	*04	*17							SSO	
5462	Arnold , Paula							*23:01P	*32:01	*41:02	*44:03	*04:01P	*17:03	SSP SSO SBT	
774	Cecka , J. Michael	*23	*32	*41	*44	*04	*17							SSP SSO	
9916	Charlton , Ronald K	*23	*32	*41	*44	*04	*17	*23:01:01	*32:01:01	*41:02:01	*44:03:01	*04:01:01	*17:03	SSP SBT	A*23:17, C*04:82
4492	Charron , Dominique							*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SSP SSO	A*23:54/23:63, A*32:40/32:43/32:44/32:45N/32:47/32:49/ 32:51/32:53/32:54/32:56N/32:57/32:58/32: 59/32:67, B*44:183/44:193/44:198N, C*04:106/04:136/04:148/04:149/04:154/0 4:156/04:175
3224	Chen , Dong-Feng	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02:01	*44:03:02	*04:09N	*17:03	SSP SSO SBT	
8021	Clark , Brendan	*23	*32	*41	*44	*04	*17			*41:02	*44:03			SSP SSO	A*41:11/41:13/41:27, A*44:13/44:26/44:32
5130	Costeas , Paul A.							*23:01	*32:01	*41:02	*44:03	*04:01	*17:03		C*04:12
779	Daniel , Claude	*23	*32	*41	*44	*04	*17							SSP SSO	
5219	Daniel , Dolly	*23	*32	*41	*44	*04	*17								
1108	DeConinck , Martha	*23	*32	*41	*44	*04	*17								
5214	Eckels/CPMC ,	*23	*32	*41	*44	*04	*17								
3135	Enczmann , J							*23:01	*32:01	*41:02	*44:03	*04:01	*17:01/03		
792	Gandhi , Manish	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:03		
8087	Guerra , Q.F.B. Elb	*23	*32	*41	*44	*04	*17							SSO	
810	Hamdi , Nuha							*23:01	*32:01	*41:02	*44:03	*04:01	*17:01/02/03	SSO	A*23:03/23:04, A*32:03/32:05, B*41:11/41:13, B*44:13/44:26, C*04:05/04:09N
1694	Hesse , Nicole	*23	*32	*41	*44	*04	*17							SSP	
2344	Hurley , Hartzman&							*23:01:01	*32:01:01	*41:02:01	*44:03:01	*04:01:01:01	*17:03	OTHER	C*04:01:01:02
794	Jaatinen , Taina	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SSP SSO SBT	A*23:17, C*04:30/04:82
8086	Jie , Pan							*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SBT	
2847	Kihara , Masaaki	*23	*32	*41	*44	*04	*17							SSO	
4337	Kim , Tai-Gyu							*23:01	*32:01	*41:02	*44:03	*04:01	*17:01	SBT	
278	Lee , Jar-How	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SSP SSO	
274	Lo , Raymundo W.							*23:01	*32:01	*41:02	*44:03	*04:01	*17:01		
206	McAlack-Hanau ,	*23	*32	*41	*44	*04	*17								
8042	Muncher , Liora	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SSP SBT	
54	Pancoska , Carol	*23	*32	*41	*44	*04	*17							SSO	
3966	Permpikul , Vejbaes	*23	*32	*41	*44	*04	*17							SSP	
2400	Phelan , Donna L.	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:01:01G	SSP SSO SBT	



**Table 5: Individual laboratory results for B-cell #515-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.							*23:01	*32:01	*41:02	*44:03	*04:01	*17:01/02/03+	SSP SSO SBT	A*23:03/23:04/*23:17/23:36/23:51/23:64, A*32:03/32:05/32:07/32:13/32:28, B*41:03, B*44:110, C*04:09N/04:30/04:32/04:33/04:82
3519	Renac , Virginie	*23	*32	*41	*44	*04	*17	*23:01	*32:01	*41:02	*44:03	*04:01	*17:03	SSP SBT	A*23:17
4251	Schiller , Jennifer	*23	*32	*41	*44	*04	*17	*23:01:01G	*32:01	*41:02	*44:03	*04:01P	*17:03	SSO SBT	
8068	Shanmugam , Hem	*23	*32	*41	*44	*04	*17							SSP	
8029	Tarigopula , Anil	*23	*32	*41	*44	*04	*17							SSO	
8052	Yanina Marcos , Ci	*23	*32	*41	*44	*04	*17							SSO	

**Table 6: Individual laboratory results for B-cell #516-Class II**

Low resolution														
Center	Investigator	DRB1		DRB5	DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon				*01	*05			NT				SSP SSO SBT	
4691	Al Ajlan , Abdula						*03	*05					SSO	
8070	Chang , Uckjin	*14	*15										SSP	
9916	Charlton , Ronal	*13	*15	5*PRESENT			*03	*05					SSP SBT	
3224	Chen , Dong-Fei	*13	*15	5*01	*01	*05	*03	*05	*02		*01	*05	SSP SSO SBT	
8021	Clark , Brendan	*13	*15	5*01	*01	*05	*03	*05					SSP SSO	
3632	Colombe , Beth	*13	*15	5*01	*01	*05	*03	*05	*02		*01		SSP SSO	
779	Daniel , Claude	*13	*15	5*01	*01	*05	*03	*05	*02		*01		SSP SSO	
5219	Daniel , Dolly	*13	*15				*03	*05						
1108	DeConinck , Ma	*13	*15	5*01	*01	*05	*03	*05	*02		*01	*05		DPB1*118
3766	Dunn , Paul			5*01	*01	*05	*03	*05						
5214	Eckels/CPMC ,	*13	*15	5*01	*01	*05	*03(DQ7)	*05	*02		*01	*05		
4079	Fort , Marylise	*13	*15				*03	*05					SSP	
792	Gandhi , Manish	*13	*15	5*01	*01	*05	*03	*05	*02	*02	*01			
8087	Guerra , Q.F.B.	*13	*15				*03	*05					SSO	
910	Hahn , Amy B.	*13	*15	5*PRESENT			*03	*05					SSP	
1694	Hesse , Nicole	*13	*15	5*PRESENT			*03	*05					SSP	
8043	Hod , Reut	*13	*15				*03	*05						
771	Israel , Shoshan	*13	*15				*03	*05					SSP SSO	
794	Jaatinen , Taina	*13	*15										SSP SSO SBT	
2847	Kihara , Masaak	*13	*15										SSO	
87	Land , Geoffrey	*13	*15	5*01	*01	*05	*03	*05	*02	*02	*01		SSP SSO SBT	
725	Lardy , N.M.	*13	*15	5*PRESENT	*01	*03	*03	*05					SSP SSO	
278	Lee , Jar-How	*13	*15	5*01	*01	*05	*03	*05	*02		*01	*05	SSP SSO	
6649	Lim , Young Ae	*08	*15	5*PRESENT									SSP	
759	Lopez-Cepero ,	*13	*15	5*01	*01		*03(DQ7)	*05	*02		*01	*05	SSP	
206	McAlack-Hanau	*13	*15	5*01	*01	*05	*03	*05	*01		*02	*04		
8042	Muncher , Liora	*13	*15	5*01	NT	NT	*03	*05	NT	NT	NT	NT	SSP SBT	
54	Pancoska , Card	*13	*15	5*01	*01	*05	*03	*05	*02		*01	*05	SSO	
2400	Phelan , Donna	*13	*15	5*01	*01	*05	*03	*05			*01	*05	SSP SSO SBT	
8001	Rao , Prakash				*01	*05							SSP SSO	
3519	Renac , Virginie	*13	*15				*03	*05			*01		SSP SBT	
1160	Rosen-Bronson	*13	*15	5*01	*01	*05	*03	*05	*02		*01		SSO SBT	
793	Rubocki , Ronal	*13	*15	5*PRESENT	*01	*05	*03	*05					SSP	
4251	Schiller , Jennife	*13	*15	5*01	*01	*05	*03	*05	*02	*02	*01	*05	SSO SBT	
8068	Shanmugam , H	*13	*15	5*PRESENT			*03	*05					SSP	
8029	Tarigopula , Anil	*13	*15				*03	*05					SSO	
747	Tiercy , Jean-Ma	*13	*15	5*01	*01	*05	*03	*05					SSP SSO SBT	
5451	Tilanus , Marcel	*13	*15	5*PRESENT			*03	*05					SSP SBT	
5642	Varnavidou-Nico	*13	*15	5*01			*03	*05						5*02
8052	Yanina Marcos ,	*13	*15		*01	*05	*03	*05					SSO	

Table 6b: Individual laboratory results for B-cell #516-Class II										
Serology										
CTR	DIRNAME	DR13	DR15	DR51	DR52		DQ1	DQ7	OTH1	OTH2
4492	Charron,D.	+	+	+	+		+	+		
910	Hahn,Amy B.	+	+	+	+		+	+		
4908	Kvam,Vonnett	+	+	+			+	+		

**Table 7: Individual laboratory results for B-cell #516-Class II**

Center	Investigator	High/Intermediate resolution										METHOD	Other Alleles	
		DRB1		DRB5	DQA1		DQB1		DPA1	DPB1				
5488	Adams , Sharon	*13:13	*15:02:01	5*01:01				*03:01:01	*05:02:01		*01:01:01	*135:01	SSP SSO SBT	DQA1*01:02/01:11, DQA1*05:05 /05:11
4691	Al Ajlan , Abdulaziz	*13:13	*15:02										SSO	
5462	Arnold , Paula	*13:13	*15:02	5*01:01	NT	NT		*03:01	*05:02	NT	*01:01	*05:01/*135:01	SSP SSO SBT	DQB1*05:34, DRB5*01:15
774	Cecka , J. Michael	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*135:01	SSP SSO	DRB1*15:44/15:47/15:60/15:80 N/15:101, DQB1*03:21/03:22/03:24/03:27 /03:28/03:29/03:35/03:36/03:42 /03:44/03:46/03:47/03:49/03:50 /03:51/03:83/03:84N/03:92/03:9 3/03:94/03:114/03:115/03:116, DQB1*05:14/05:17/05:19/05:26 /05:33/05:34/05:35/05:36/05:37 /05:46/05:47/05:53/05:57/05:59 /05:65, DPA1*02:05
9916	Charlton , Ronald K	*13:13	*15:02:01	5*01:01:01				*03:01:01	*05:02:01				SSP SBT	
4492	Charron , Dominiqu	*13:13	*15:02	5*01:01				*03:01	*05:02	*02:02	*01:01	*05:01/*135:01/*+	SSP SSO	DQB1*03:82/03:92/03:93/03:94 /03:114/03:115/03:116, DQB1*05:53/05:57/05:59/05:65 , DPB1*326:01/327:01/346:01
3224	Chen , Dong-Feng	*13:13	*15:02:01	5*01:01	*01:02:01G	*05:01:01G		*03:01:01G	*05:02:01	*02:02	*01:01	*05:01	SSP SSO SBT	
8021	Clark , Brendan	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02		*01:01	*135:01	SSP SSO	DRB1*15:80N, DQA1*01:08/01:09/01:11, DQA1*05:09/05:11
3632	Colombe , Beth W.	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*135:01	SSP SSO	
5130	Costeas , Paul A.	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02					DQA1*05:01
779	Daniel , Claude	*13:13			*01:02	*05:05		*03:01		*02:01	*01:01	*135:01	SSP SSO	DRB1*13:154, DPA1*02:05
3766	Dunn , Paul									*02:02	*01:01	*05:01		
5214	Eckels/CPMC ,							*03:01				*05:01:01G		
3135	Enczmann , J	*13:13	*15:02	5*01:01				*03:01	*05:02		*01:01	*135:01		
762	Fischer , Gottfried	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02		*01:01	*05:01/*135:01	SSP SSO SBT	DQB1*05:47
4079	Fort , Marylise										*01:01	*135:01	SSP	DPB1*05:01
792	Gandhi , Manish	*13:13	*15:02		*01:02	*05:05		*03:01	*05:02		*01:01	*135:01		
810	Hamdi , Nuha	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02				SSO	DQA1*05:09/05:11, DQB1*03:27/03:28, DQB1*05:17/05:19, DRB5*01:15
8043	Hod , Reut	*13:13	*15:02		*01:02	*05:05		*03:01	*05:02					
2344	Hurley , Hartzman&	*13:13	*15:02:01		*01:02:01	*05:05:01		*03:01:01:01	*05:02:01	*02:02:02	*01:01:01	*05:01:01/*135:01	OTHER	DQB1*03:01:01:02/03:01:01:03
771	Israel , Shoshana	*13:13	*15:02					*03:01	*05:02				SSP SSO	
794	Jaatinen , Taina	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*05:01/*135:01	SSP SSO SBT	DQA1*01:08/01:09/01:11, DQA1*05:09/05:11
8086	Jie , Pan	*13:13	*15:02		*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*135:01	SBT	
4337	Kim , Tai-Gyu	*13:13	*15:02					*03:01	*05:02		*01:01	*135:01	SBT	
87	Land , Geoffrey A.	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*135:01	SSP SSO SBT	DPB1*05:01
278	Lee , Jar-How	*13:13	*15:02	5*01:01	*01:02	*05:05		*03:01	*05:02	*02:02	*01:01	*05:01	SSP SSO	

**Table 7: Individual laboratory results for B-cell #516-Class II**

High/Intermediate resolution													
Center	Investigator	DRB1		DRB5	DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
274	Lo , Raymundo W.	*13:13	*15:02		*01:02	*05:05	*03:01	*05:05	*02:02	*01:01	*05:01		
8042	Muncher , Liora	*13:13	*15:02	5*01:01	NT	NT	*03:01	*05:02	NT	NT	NT	SSP SBT	
3966	Permpikul , Vejbae	*13:13	*15:02	5*01:01			*03:01	*05:02				SSP	
2400	Phelan , Donna L.	*13:13	*15:02		*01:02	*05:05	*03:01	*05:02		*01:01:02G	*05:01:01G	SSP SSO SBT	
8001	Rao , Prakash	*13:13	*15:02	5*01:01			*03:01	*05:02		*01:01	*05:01	SSP SSO	
3753	Reed , Elaine F.	*13:13	*15:02	5*01:01	*01:02:01G	*05:05	*03:01	*05:02	*02:02	*01:01	*135:01	SSP SSO SBT	DRB1*13:154, DRB1*15:11, DQB1*03:29/03:73, DRB5*01:15, DQB1*05:05, DQA1*05:09/05:11
3519	Renac , Virginie	*13:13	*15:02	5*01:01	*01:02	*05:05	*03:01	*05:02	*02:02	*01:01	*135:01	SSP SBT	DQA1*01:09, DQA1*05:01
1160	Rosen-Bronson , Sa	*13:13	*15:02	5*01:01					*02:02	*01:01	*135:01	SSO SBT	DRB1*13:154, DRB1*15:11, DRB5*01:15
793	Rubocki , Ronald									*01:01	*135:01	SSP	
4251	Schiller , Jennifer	*13:13	*15:02				*03:01	*05:02		*01:01	*05:01:01G	SSO SBT	
747	Tiercy , Jean-Marie	*13:13	*15:02	5*01:01	*01:02	*05:05	*03:01	*05:02		*01:01:01G	*05:01:01G	SSP SSO SBT	DQA1*01:08/01:09, DQA1*01:11, DQA1*05:09/05:11
5451	Tilanus , Marcel G.	*13:13	*15:02:01									SSP SBT	
5642	Varnavidou-Nicolaïd	*13:13	*15:02				*03:01	*05:02					
3511	Zeevi , Adriana	*13:13	*15:02	5*01:01	*01:02	*05:05	*03:01	*05:02		*01:01	*05:01P	SSP SSO	

**Table 8: Individual laboratory results for B-cell #516-Class I**

Center	Investigator	Low Resolution						High resolution						METHOD	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5488	Adams , Sharon	*11	*24			*01	*08			*27:06	*48:01:01			SSP SSO SBT	A*11:01/11:12/11:19/11:27/11:88/11:117/11:119:01, A*24:02/24:07/24:10:01/24:21:01/24:50/24:235/24:260, C*01:02/01:43/01:85, C*08:01:01/08:16:01/08:22/08:99/08:102
4691	Al Ajlan , Abdulaziz	*11	*24	*27	*48	*01	*08							SSO	
5462	Arnold , Paula							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SSP SSO SBT	
774	Cecka , J. Michael	*11	*24	*27	*48	*01	*08							SSP SSO	
9916	Charlton , Ronald K	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01:01	*01:02:01	*08:01:01	SSP SBT	
4492	Charron , Dominique							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SSP SSO	A*11:91:01/11:91:02/11:100/11:114/11:115N/11:117/11:120/11:125/11:127N/11:132/11:133/11:135/11:136/11:137N/11:138, A*24:154/24:193/24:195/24:202/24:209/24:212/24:217/24:221/24:223, B*48:32/48:33/48:35, C*01:85/01:88/01:93/01:94/01:96/01:98N/01:100, C*08:78/08:79/08:84/08:85/08:89N/08:95/08:99/08:109
3224	Chen , Dong-Feng	*11	*24	*27	*48	*01	*08	*11:01:01	*24:02:01G	*27:06	*48:01:01	*01:02:01G	*08:01:01G	SSP SSO SBT	
8021	Clark , Brendan	*11	*24	*27	*48	*01	*08							SSP SSO	
5130	Costeas , Paul A.							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		A*11:09, C*01:28/01:31
779	Daniel , Claude	*11	*24	*27	*48	*01	*08							SSP SSO	
5219	Daniel , Dolly	*11	*24	*27	*48	*01	*08								
1108	DeConinck , Martha	*11	*24	*27	*48	*01	*08								
5214	Eckels/CPMC ,	*11	*24	*27	*48	*01	*08								
3135	Enczmann , J							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		
792	Gandhi , Manish	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		
8087	Guerra , Q.F.B. Elb	*11	*24	*27	*48	*01	*08							SSO	
810	Hamdi , Nuha							*11:12	*24:02	*27:06	*48:01	*04:01	*17:01	SSO	A*11:159, A*24:61, B*27:07/27:09, B*48:09/48:11, C*04:05/04:09N, C*17:02/17:03
1694	Hesse , Nicole	*11	*24	*27	*48	*01	*08							SSP	
2344	Hurley , Hartzman&							*11:01:01	*24:02:01:01	*27:06	*48:01:01	*01:02:01	*08:01:01	OTHER	
794	Jaatinen , Taina	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SSP SSO SBT	C*08:22
8086	Jie , Pan							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SBT	
2847	Kihara , Masaaki	*11	*24	*27	*48	*01	*08							SSO	
4337	Kim , Tai-Gyu							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SBT	
278	Lee , Jar-How	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SSP SSO	
274	Lo , Raymundo W.							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		
206	McAlack-Hanau ,	*11	*24	*27	*48	*01	*08								
8042	Muncher , Liora	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01	SSP SBT	

**Table 8: Individual laboratory results for B-cell #516-Class I**

Center	Investigator	Low Resolution						High resolution						METHOD	Other Alleles	
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C				
54	Pancoska , Carol	*11	*24	*27	*48	*01	*08								SSO	
3966	Permpikul , Vejbaes	*11	*24	*27	*48	*01	*08								SSP	
2400	Phelan , Donna L.	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		SSP SSO SBT	
3753	Reed , Elaine F.							*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		SSP SSO SBT	A*11:04/11:12/11:19/11:27/11:39/11:88/11:117/11:119/11:178, A*24:03/24:07/24:10/24:19/24:21/24:46/24:50 /24:235/24:260, C*01:43/01:64/01:85, C*08:16/08:22/08:80/08:99/08:102
3519	Renac , Virginie	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02	*08:01		SSP SBT	
4251	Schiller , Jennifer	*11	*24	*27	*48	*01	*08	*11:01	*24:02	*27:06	*48:01	*01:02:01G	*08:01:01G		SSO SBT	
8068	Shanmugam , Hem	*11	*24	*27	*48	*01	*08								SSP	
8029	Tarigopula , Anil	*11	*24	*27	*48	*01	*08								SSO	
8052	Yanina Marcos , Ci	*11	*24	*27	*48	*01	*08								SSO	