

REPORT OF THE 356th CELL EXCHANGE

APRIL 6, 2011

B-cell Line	451-452
DNA Extract	509-512
Cells	1421-1424

B-cell line Exchange

We wish to acknowledge the generosity of **Helen Bass, Jane Rowlands, and Tracey Rees, Welsh Blood Service, Pontyclun**, in sharing their

interesting cells to study in our exchange studies.

TER-451. This cell from a Caucasian donor was UBM12218693, the reference cell for the rare DRB1*15:07. Hahn, Mah, Stamm, and Sutton were correct in identifying this cell as being previously typed in the Cell Exchange as TER-291 (2001) and TER-371 (2006).

In this present retyping, DRB1*15:07 was assigned by 69%. According to Darke et al. (1), DRB1*15:07 differs from DRB1*15:01 "...by a single nucleotide at position 127 encoding an amino acid substitution of phenylalanine to tyrosine at codon 47."

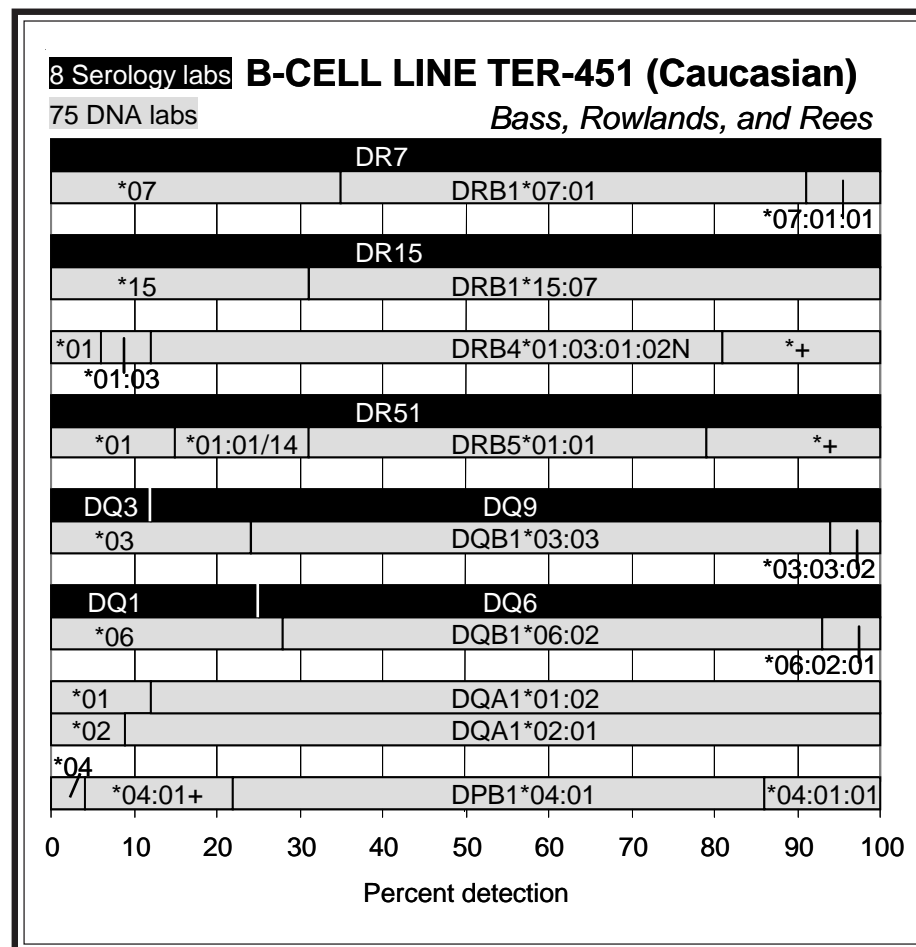
DR15 was well detected, by 100%.

DPB1*04:01 (*04:01:01) was the sole DPB1 allele.

The probable haplotypes were DRB1*15:07-DRB5*01:01-DQB1*06:02-DQA1*01:02-DPB1*04:01 and DRB1*07:01-DRB4*01:03:01:02N-DQB1*03:03-DQA1*02:01-DPB1*04:01.

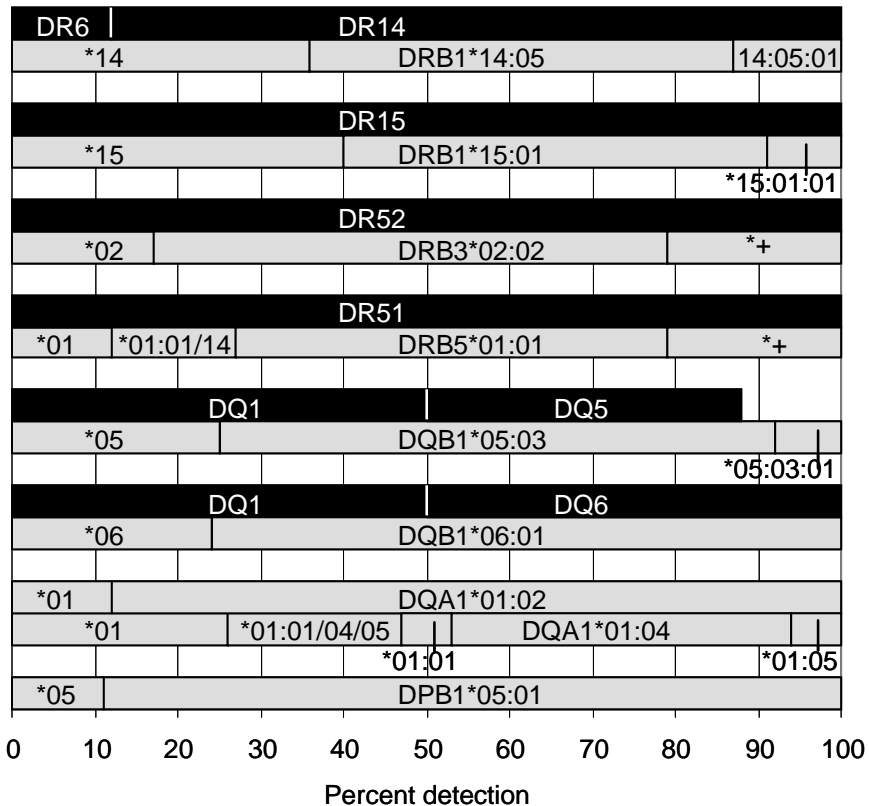
DPA1*01:03 was assigned by J.Lee. In the 2006 typing, DPA1*01:03/07 was reported by Darke.

Darke et al. provided the class I typing as A*03:01:01, A*26:01, B*57:01, B*27:05:02, C*06:02, C*07:04/11/12. The investigators postulated that A*26:01-B*27:05:02-C*07:04/11/12 would likely be on the same haplotype with the rare DRB1*15 variant.



8 Serology labs B-CELL LINE TER-452 (Chinese)

75 DNA labs



TER-452. This Chinese cell was APA, the reference cell for A*24:03:01, B*15:02:01, and B*55:02:01. It was studied in the workshops as IHW#9237 and has served as a valuable reference standard in the Cell Exchange for class I, typed as extract 61 (1998) and 258 (2003), and for class II, typed as TER-224 (1998).

This cell was the first DRB1*14:05 to be typed in the Cell Exchange. In this present retyping, DRB1*14:05 was assigned by 63%.

DR14 was reported by 88%.

Few labs had trouble in detecting DQA1*01:02 (88%). The second DQA1 allele was assigned by 41% to be DQA1*01:04; however, DQA1*01:01 (6%) and DQA1*01:05 (6%) were also reported. DQA1*01:01:01 and DQA*01:02:01 are listed for this cell on the IMGT-HLA web site

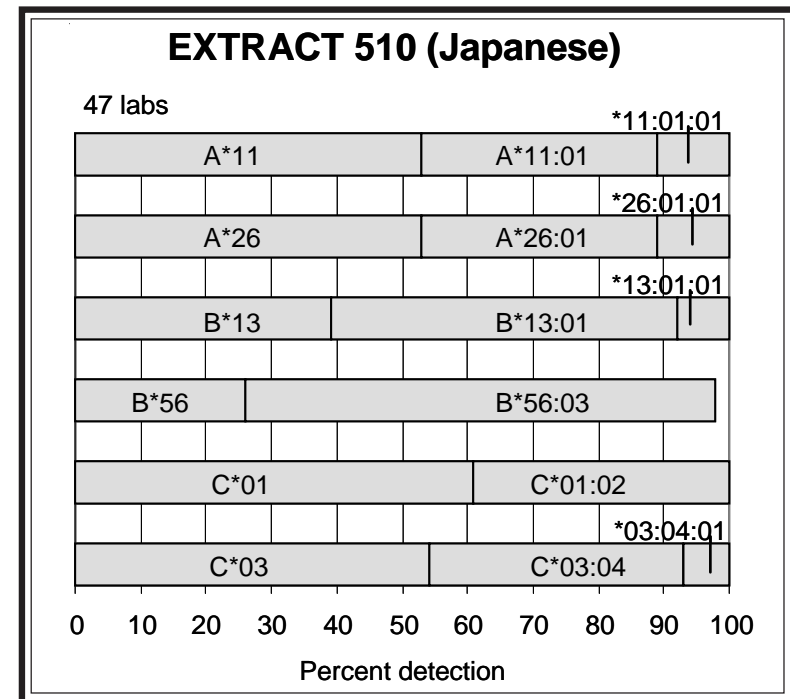
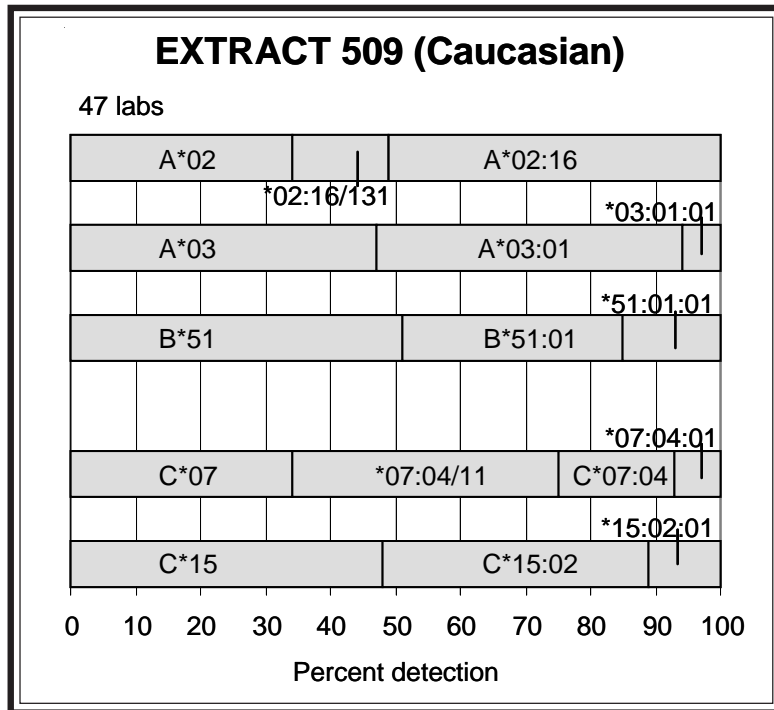
DPA1*02:02 was reported by J.Lee.

The probable haplotypes were DRB1*14:05-DRB3*02:02-DQB1*05:03-DQA1*01:04 and DRB1*15:01-DRB5*01:01-DQB1*06:01-DQA1*01:02. The NMDP Bioinformatics web site indicates that in Asians, DRB1*15:01 is found with either DQB1*06:01 (HF=0.03512) or DQB1*06:02 (HF=0.04279), whereas DRB1*15:01-DQB1*06:02 is commonly found in all other populations. This cell remains the sole DRB1*15:01-DQB1*06:01 exchange cell; all other DRB1*15:01 exchange cells were found in association with DQB1*06:02.

DPB1*05:01 (89%) was the sole DPB1 type.

The class I typing for this Chinese donor was A*11:01, A*24:03, B*15:02, B*55:02, C*08:01, C*12:03.

Extract Exchange



Extract 509. This Caucasian cell was TUBO, the reference cell for the rare A*02:16, as correctly identified by Chen. This cell was also typed in the workshops as IHW#9045. Barouch et al. (2) described A*02:16 as most similar to A*02:01, "...except for two nucleotide differences at positions 216 and 217 of exon 3 (GA instead of AC). The sequence causes a single amino acid substitution of glutamic acid (in A*02:16) instead of threonine (in A*02:01) at residue 163 in the alpha 2 domain." This was the first time that A*02:16 was typed in the Cell Exchange.

A*02:16 was detected by 50%. Another 15% assigned A*02:16/131, which may be explained by the fact that both A*02:16 and A*02:131 have E at codon 163 whereas the majority of A*02 alleles have T.

A*03:01 (51%) was the second A-locus allele.

B*51:01 was the sole B-locus type, as assigned by 48%.

C*07:04 (25%) and C*15:02 (51%) were the C-locus alleles.

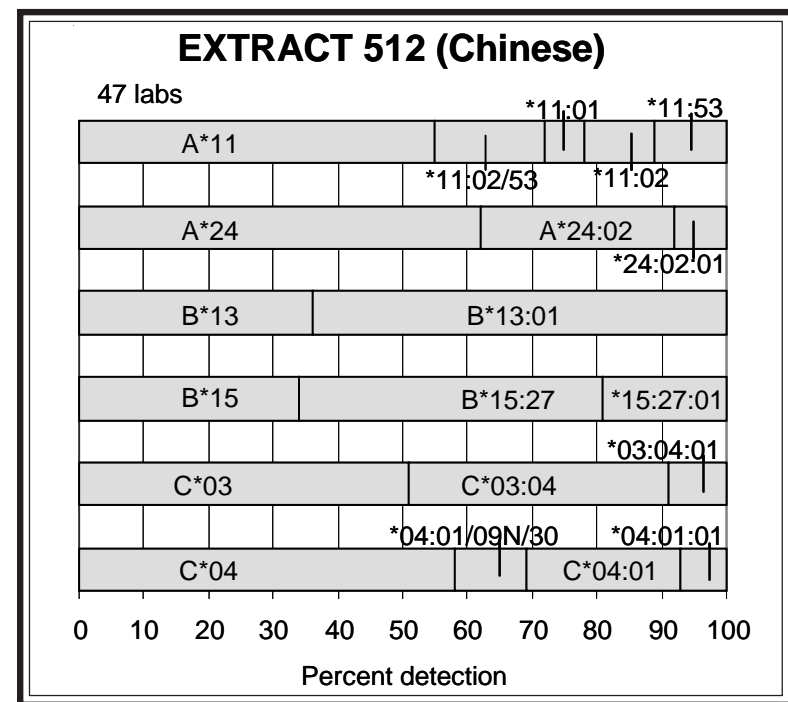
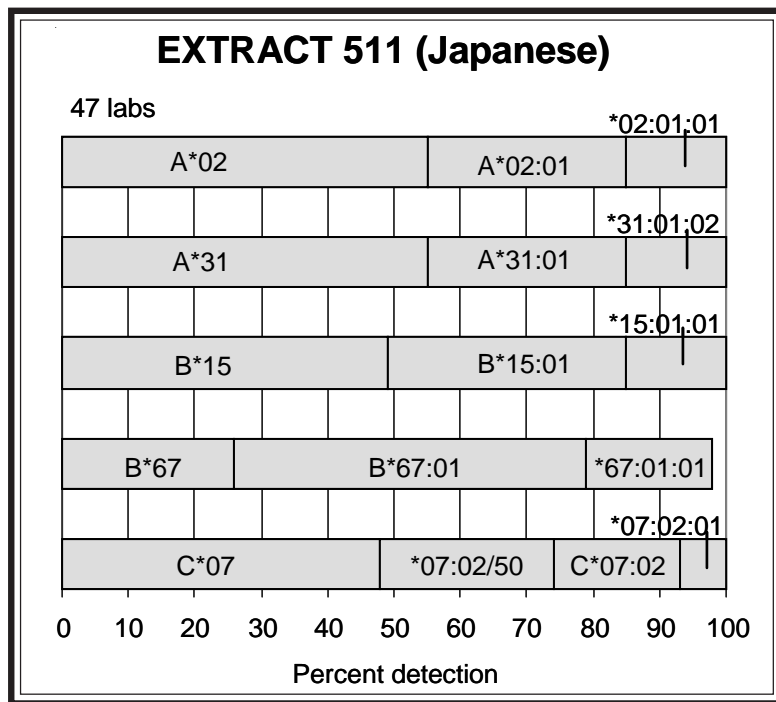
Extract 510. B*56:03 was detected by 74% in this cell from a Japanese donor. This rare B*56 allele was previously typed in extracts 371 (Asian) and 440 (also extract 319). The data for 17 NMDP cells listed in the HLA dictionary indicated that this variant reacts as a short B56 (3).

B*13:01 was reported by 60% as the second B-locus allele.

A*11:01 (46%) and A*26:01 (48%) were the A-locus types.

The C-locus alleles were C*01:02 (38%) and C*03:04 (44%).

The likely associations in this cell were B*13:01-C*03:04 and B*56:03-C*01:02. Both previous B*56:03 donors had the same B*56:03-C*01:02 association.



Extract 511. This Japanese cell was previously typed as extracts 88 (1999) and 195 (2002), as correctly noted by Stamm and Sutton.

In this present retyping, B*67:01 was assigned by 73%.

B*15:01 (50%) was reported by half of the labs as the second B-locus allele.

A*02:01 and A*31:01, assigned by 44%, were present in this cell.

B*67:01-C*07:02 and B*15:01-C*07:02 are found in Asians.

This same cell was also typed for class II as TER-240 (1999) and TER-313 (2002) as: DRB1*14:03, DRB1*14:06, DRB3*01:01, DRB3*02:02, DQB1*03:01, DQA1*05:03, DPB1*02:01, DPB1*05:01.

Extract 512. This Chinese donor was studied as cell 1399 last year. There was no clear-cut agreement for which A*11 allele was present, with assignments of A*11:02 (20%), A*11:01 (8%), and A*11:53 (7%). The final report (4) provided the typing strategies of the 3 sequencing labs (Brown,

Claas, Tilanus) that assigned A*11:53, to resolve ambiguities beyond exons 2 and 3, involving A*11:01, A*11:02:01, A*11:02:02, and A*11:02:03, with A*24:02:01:01 being the second A-locus allele. Roelen and Claas also shared their SBT raw data.

In this present retyping, there was again no definite resolution of the A*11 subtype, as A*11:02 (12%), A*11:53 (10%), and A*11:01 (6%) were reported. Another 17% assigned A*11:02/53.

A*24:02 (37%) was the second A-locus allele.

B*15:27 was assigned by 65%. B*15:27 was previously typed in cell 1062 from a Chinese donor and cell 1298 from a Korean individual. The serologic expression of this allele is B62, as assigned by 93% for this cell in 2010.

B*13:01 (62%) was the second B-locus allele.

C*03:04 (48%) and C*04:01 (30%) were the C-locus types.

B*1301-C*0304 and B*1527-C*0401, found predominantly in Asian populations, were the probable associations.

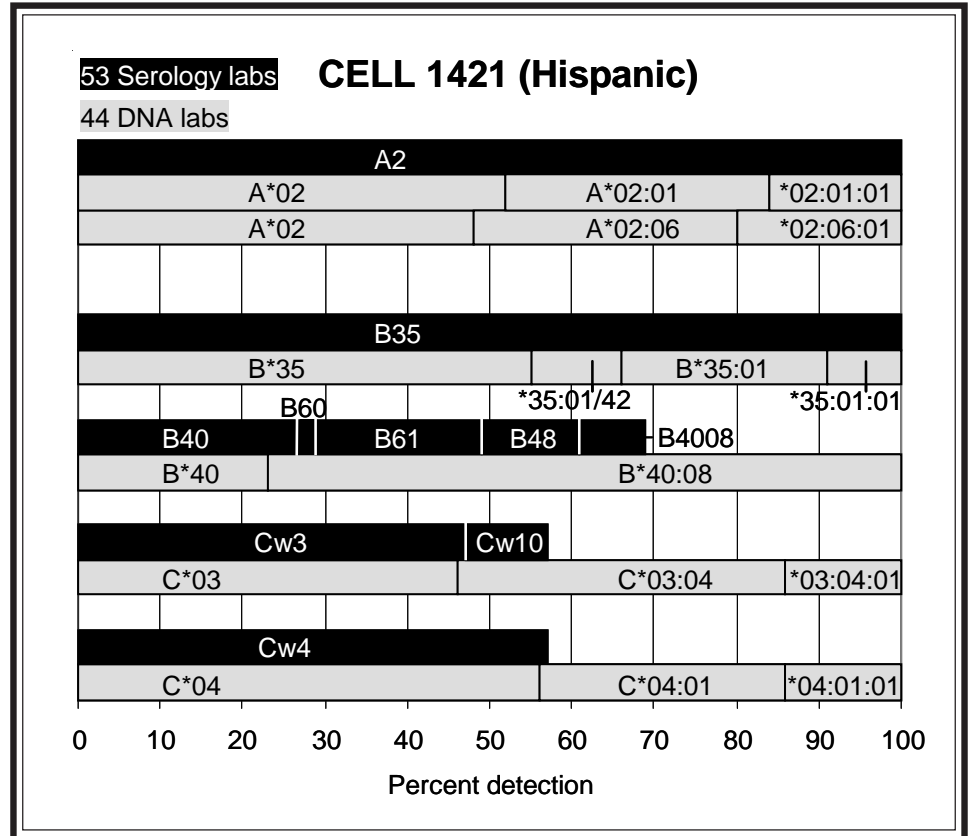
Cell Exchange

Cell 1421. A shorter than normal B40 variant was detected in this cell from an Hispanic donor. B40 (28%), B61 (21%), B48 (11%), B4008 (8%), and B60 (2%) were reported and comments of short anti-B40 and anti-B48 reactivity were given by a number of labs, including Askar, Claas, Dunk, Dunn, Harville, Holdsworth, Israel, Keown, Mah, McCluskey, Pancoska, Pollack, Rees, Rubocki, Semana, Shai, Stamm, and Tiercy. DNA results resolved that B*40:08 (77%) was present. This same B40 variant was previously typed in cells 992 (also cell 969), 1061, 1101, 1411 (also cell 1321), all from Hispanic donors.

B35 was assigned in unanimous consensus, confirmed as B*35:01 (34%).

A2 (100%) was well typed; A*02:01 (48%) and A*02:06 (52%) were defined.

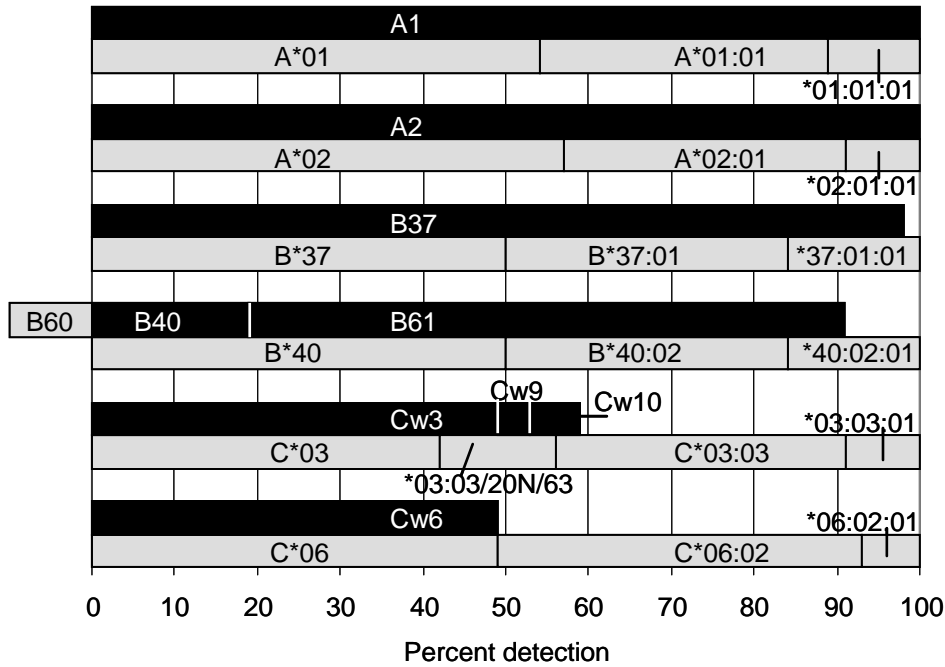
Cw3 (57%) and Cw4 (57%) were established as C*03:04 (54%) and C*04:01 (44%), respectively. B*35:01-C*04:01 and B*40:08-C*03:04 were the likely associations; B*40:08-C*03:04 was found in all previous B*40:08 donors.



53 Serology labs

CELL 1422 (Korean)

44 DNA labs



Cell 1422. In contrast to the short B40 variant detected in cell 1421, the standard B61 (70%), confirmed as B*40:02 (50%), was present in this Korean cell.

B37 (98%) was well detected, corroborated as B*37:01 (50%).

The C-locus antigens were Cw3 (59%) and Cw6 (49%). The C-locus alleles were C*03:03 (44%) and C*06:02 (51%).

B*37:01 is found in strong association with C*06:02 in all ethnic populations. In Asians, the frequency for B*37:01-C*06:02 is 0.01443.

The haplotypes in this cell may be A*02:01-B*40:02-C*03:03 and A*01:01g-B*37:01-C*06:02 (HF=0.00973).

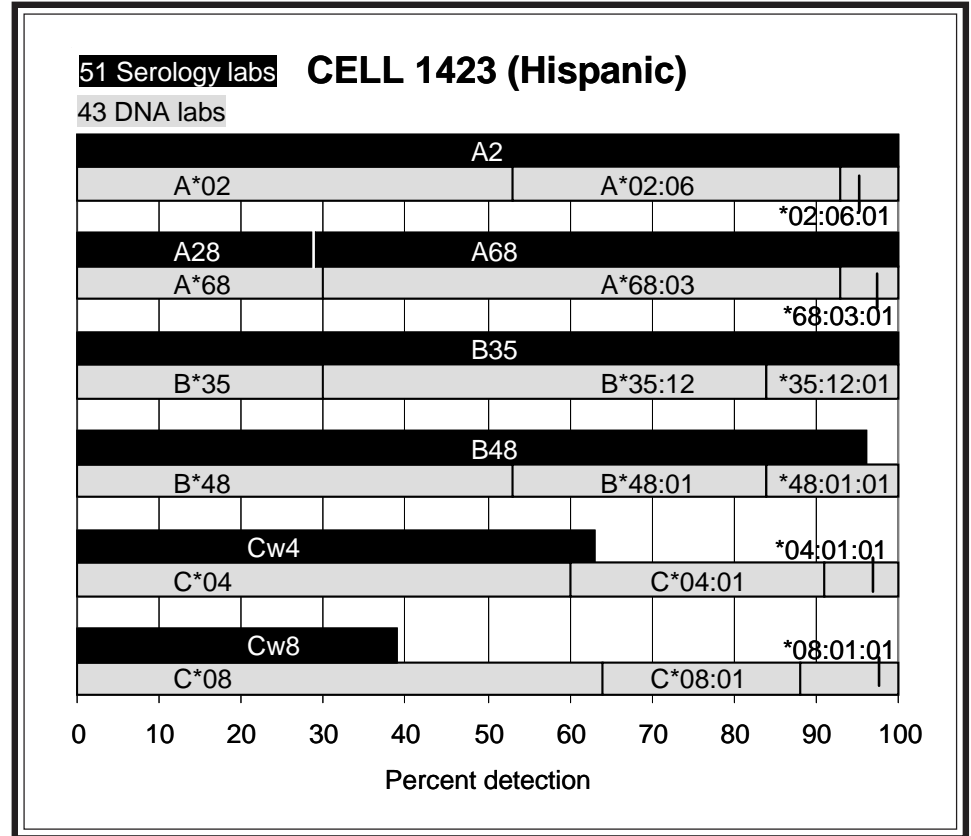
Cell 1423. This Hispanic donor was previously typed as cells 1316 (2007) and 1322 (2008), as noted by Askar, Lopez-Cepero, Mah, Pancoska, Stamm, and Walter Reed AMC.

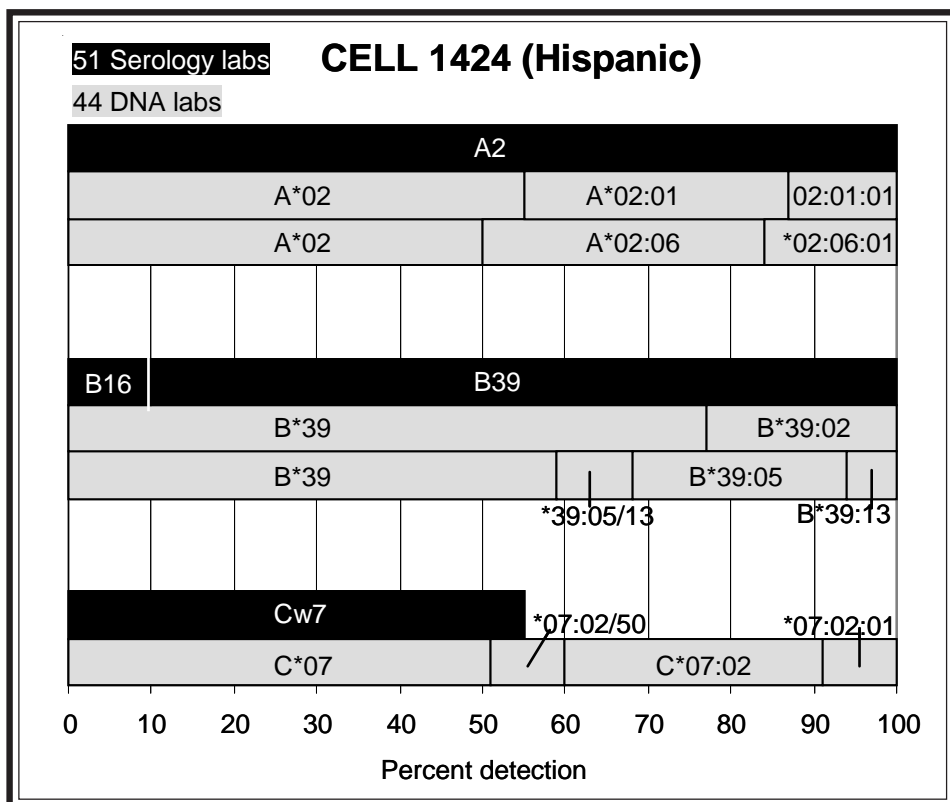
A2 and A28 were assigned in complete agreement. The percent detection level for A68 increased since 2008, from 60% to 73%. A*02:06 (47%) and A*68:03 (70%) were the A-locus alleles. The detection rate increased for A*68:03, from 60% in 2008 to the present 70%.

B35 (100%) and B48 (92%) were well typed, and verified as B*35:12 (70%) and B*48:01 (47%), respectively.

The C-locus antigens were Cw4 (63%) and Cw8 (37%), confirmed as C*04:01 (40%) and C*08:01 (36%), respectively.

Two strong associations, B35-Cw4 and B48-Cw8, that is, B*35:12-C*04:01 and B*48:01-C*08:01, were present in this cell.





Cell 1424. This cell from an Hispanic individual was previously typed as cell 1263 in 2006, as correctly identified by Lopez-Cepero, Mah, McCluskey, and Stamm.

Serologically, this cell was well typed as A2-B39-Cw7 homozygous.

There was no question that 2 different B*39 alleles were present. In the 2006 typing, 7 labs reported B*39:02, B*39:05 and 6 labs assigned B*39:01, B*39:13. In this present retyping, 10 labs (Askar, Ellis, Mayr and Fischer, Hanau, Kamoun, Kim, Klein, Semana, Tilanus, Turner) assigned B*39:02,

B*39:05. Furthermore, Askar, Tilanus, and Turner reported B*39:02:02, B*39:05:01. Two labs (Charlton, Claas) assigned B*39:01, B*39:13 and 2 labs (Colombe, Rees) did not resolve between the 2 combinations of B*39 alleles. Overall, B*39:05 (26%), B*39:02 (23%), B*39:05/13 (9%), B*39:13 (6%), B*39:01 (4%), and B*39:30 (2%) were assigned.

A*02:01 (45%) and A*02:06 (50%) were present.

Cw7 (55%) was confirmed as C*07:02 (40%).

A*02:06-B*39:05-C*07:02 (HF=0.00660) is a commonly found haplotype in Hispanics, and was typed in cells 1022, 1203, and 1406, as well as in extract 398. The other possible haplotype, A*02:01-B*39:02-C*07:02 was found in exchange cells 1032, 1205, and 1207.

References

1. Darke C, Guttridge MG, Street J, Thompson J, and Thomas M. Molecular, serological and genetic studies on two new HLA-DRB1 alleles - HLA-DRB1*0704 and HLA-DR1*1507. *Tissue Antigens* 2000;56:467.
2. Barouch D, Krausa P, Bodmer J, et al. Identification of a novel HLA-A2 subtype, HLA-A*0216. *Immunogenetics* 1995;41:388.
3. Holdsworth R, Hurley CK, Marsh SGE, et al. The HLA dictionary 2008: a summary of HLA-A, -B, -C, -DRB1/3/4/5, and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens. *Tissue Antigens* 2009;73:95.
4. Lau M, Locke A, Cecka JM, and Reed EF. Report of the 350th Cell Exchange, June 9, 2010; 9.

NEXT MAILING DATE: May 4, 2011

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B-CELL LINE TER-451

CTR DIRNAME	DRB1	DRB1X	DRB4	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	METHOD
5488 Adams, Sharon	*0701	*1507	*01030102N	*0101/14	*0303	*0602	*0102	*0201	*040101	RSSO, SBT, SSP
4691 Ajlan, Abdula	*07	*15			*03	*06				SSO
5133 Baker, Judy	*07:01	*15:07	*01:03N	*01:01/14	*03:03	*06:02	*01:02	*02:01		SSO
774 Cecka, J. Mich	*07:01/13-17	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02/33+	*01:02	*02:01		SSP, SSOP
785 Chan, Soh Ha	*0701/09	*1501/03	*0103	NT	*0303/12/15	*0602/14	*0102	*0201		SBT
5232 Charlton, Ron	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02				RVSSO, SSP
4492 Charron, D.	*07:01/19	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02/20+	*01:02	*02:01	*04:01/*128:01	P-SSO, SSP
8021 Clark, Brenda	*07:01	*15:07	*01:03:01:02N	*01/*02	*03:03	*06:02			*04:01	P-SSP, SSO
3632 Colombe, Beth	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02	*01:02	*02:01		SSP
5130 Costeas, Paul	*07:01	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02	*01:02	*02:01		SSO, SSP
779 Daniel, Claud	*07	*15	*01:03:01:02N	**	*03(DQ9)	*06				P-SSP
5219 Daniel, Dolly	*07	*15	**	**	*03	*06				P-SSOP
8052 Del Pozo, Ana	*07	*15:06/07+			*0303	*0602	*0102	*0201		P-SSO
5323 Dhaliwal, J.S	*07:01	*15:07	*01	*01	*03	*06				P-SSP, SSO
5891 Du, Keming	*0701	*1507			*0303	*0602				P-SBT
5214 Eckels/CPMC	*07	*15	*0103N	*01	*0303	*0602	*0102	*0201	*0401	SSO
2332 Elkhalfifa, Mo	*07:01	*15:07			*03:03	*06:02				RVSSO
4251 Ellis, Thomas	*07:01	*15:07	*01:01/03/06	*01:01	*03:03	*06:02	*01	*02	*04:01	P-SSO, SEQ
3135 Enczmann, J.	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02			*04:01	SBT, P-SSP
762 Fischer/Mayr	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02	*01:02	*02:01	*04:01	SSO, SSP, SBT
4079 Fort, Marylis	*07:01	*15:07			*03:03	*06:02				P-SSP, SSO
792 Gandhi, Manis	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02	*01:02	*02:01		SSO, SSP
8043 Gideon, Osna	*07:01	*15:07			*03:03	*06:02	*01:02	*02:01		SSP
9002 Gideoni_LR	*07	*15			*03	*06				SSOP, SSP
234 Gomez, Carmen	*07	*15	**	**	*03	*06				SSOP
5195 Gomez, Carmen	*0701	*15	*0103N	*01	*0303	*0602	*0102	*0201		SSOP
1694 Gottwald&Hes	*07:01	*15:07			*03:03	*06:02				SSP
910 Hahn, Amy B.	*07:01/11+	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02/33+				SSP
810 Hamdi, Nuha	*07:01	*15:06			*03:03	*06:02	*01:02	*02:01		SSO
4269 Hanau, Daniel	*07:01:01	*15:07	*01:03	*01:01	*03:03	*06:02	*01:02	*02:01	*04:01/*128:01	SSP, SBT
1461 Hidayat, M.	*07:01	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02			*04:01	SSO, SSP
2344 Hurley/Hartz	*07:01:01:01	*15:07			*03:03:02	*06:02:01			*04:01:01	SBT
771 Israel, Shosh	*07:01	*15:07			*03:03	*06:02				P-SSP
9003 Israel_LR	*07	*15			*03	*06				P-SSOP
794 Jaatinen, Tai	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02			*04:01	SBT, SSO, SSP
859 Kamoun, Malek	*07:01	*15:07	*01:03:01:02N	*01:01/14	*03:03	*06:02	*01:02	*02:01		SBT, SSP, SSO
797 Kato, Shunich	*07:01	*15:07			*03:03	*06:02	*01:02	*02:01		SSO, +SBT-DR
4337 Kim, Tai-Gyu	*0701	*1507			*0303	*0602			*0401	SBT
168 Klein, Tirza	*07:01	*15:07			*03:03	*06:02				P-SSP, SSO
5096 Koh, Eun-mi	*07	*15								SSOP
87 Land, Geoffre	*0701	*1507	*0103N	*0101	*0303	*0602	*0102	*0201	*0401	SSO, SBT, SSP
725 Lardy, N.M.	*07	*15	**	**	*03	*06	*01:02	*02:01		SSO, SSP
278 Lee, Jar-How	*07:01	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02	*01:02	*02:01	*04:01	SSP, RVSSOP
640 Lee, Kyung Wh	*07:01	*15:07			*03:03:02	*06:02:01	*01:02:01	*02:01		P-SBT
6649 Lim, Young Ae	*07	*15	**	**						SSP
274 Lo, Raymundo	*07	*15	**	**	*03	*06				SSP
731 Loewenthal, R	*07:01	*15:07			*03:03	*06				SSO, SBT
759 Lopez-Cepero	*07:01/03+	*15:06/07+			*03:03	*06:02	*01:02	*02:01	*04:01	RVSSO
23 Mah, Helen	*07:01	*15:07	*01:03:01:02N	*01:01/14	*03:03	*06:02	*01:02	*02:01	*04:01	SSO, SSP
8029 Mani, Rama	*07	*15	**	**						P-SSP
206 McAlack-Hana	*07	*15	*01	*01	*03(DQ9)	*06				RVSSOP
9916 McIntyre, Joh	*07:01:01	*15:07	*01:03:01:02N	*01:01:01	*03:03	*06:02				SBT, SSP
8042 Muncher, Lior	*07:01	*15:07			*03:03	*06:02				SSP, SSOP
9001 Muncher_LR	*07	*15			*03	*06				SSOP, SSP
3648 Pereira, Noem	*07:01	*15:07			*03:03	*06:02	*01	*02		RVSSO, SBT
3966 Permpikul&Ve	*07:01	*15:07	*01:03	*01:01	*03:03	*06:02				P-SSP
2400 Phelan, Donna	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02	*01:02	*02:01	*04:01	RSSO, SBT, SSP

B-CELL LINE TER-451

CTR DIRNAME	DRB1	DRB1X	DRB4	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	METHOD
735 Ramon,Daniel	*07:01	*15:07	*01:03:01:02N	*01:01/14	*03:03	*06:02	*01:02	*02:01	*04:01/*120:01N	SBT,SSP,RSSO
8001 Rao,Prakash	*07:01/15-17	*15:07	*01:03N	*01:01/14	*03:03	*06:02			*04:01	RVSSOP,SSP
3753 Reed,Elaine	*0701	*1507	*0103N	*0101/14	*0303	*0602	*0102	*0201		SBT,SSO
3798 Reinsmoen,N	*07:01:01	*15:07	*01:03N	*01:01/14	*03:03:02	*06:02	*01:02	*02:01	*04:01	SSP,RSSO,SBT
1160 Rosen-Bronso	*07	*15:06/07+	*01:03N	*01	*03:03	*06:02				RVSSO
793 Rubocki,Rona	*07	*15	*null	**	*03(DQ9)	*06			*04	SSP
3519 Semana,Gilbe	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02			*04:01	SBT,P-SSP
8068 Shanmugam,He	*07	*15	**	**	*(DQ9)	*06				P-SSP
746 Stamm,Luz	*07:01	*15:07	*01/*02	*01	*03:03	*06:02				SSO,SSP,SBT
2020 Sutton,Maggi	*07:01:01	*15:07	*01:03:01:02N	*01:01-05+	*03:03:02/31	*06:02:01	*01:02/06	*02:01	*04:01:01	P-SSP,SBT
13 Tagliere,Jac	*07:01	*15:07	*01:03N	*01:01	*03:03	*06:02				SSP
769 Tavoularis,S	*07:01	*15:07	*01:03:01:02N	*01:01	*03:03	*06:02			*04:01	SSO,SBT,SSP
747 Tiercy,Jean-	*07:01:01G	*15:07	*01:03:01:02N	*01:01	*03:03:02G	*06:02:01	*01:02	*02:01	*04:01:01G	SSO,SSP,SBT
5451 Tilanus,Marc	*07:01:01	*15:07	*01:03:01:02N	*01:01:01	*03:03:02	*06:02:01	*01:02	*02:01	*04:01:01	SBT
4021 Trachtenberg	*07	*15	*0103N	*01	*03	*06	*01	*02		SSO
5462 Turner,E.V.	*07:01:01	*15:07	*01:03N	*01:01	*03:03	*06:02			*04:01/*120:01N	SEQ,SSO,SSP
5642 Varnavidou-N	*07:01	*15:07	**	**	*03:03	*06:02/33+				P-SSP
3511 Zeevi,Adrian	*0701	*1507	*01030102N	*0101	*0303	*0602	*0102	*0201	*0401	RVSSOP,SSP

CTR DIRNAME	DR7	DR15	DR51	DQ9	DQ6	OTH1	OTH2
4492 Charron,D.	+	+	+	DQ3	DQ1	DR53,DR6	
234 Gomez,Carmen	+	+	+	+	+	DR53	
5195 Gomez,Carmen	+	+	+	+	+	DR53	
910 Hahn,Amy B.	+	+	+	+	DQ1		
4908 Kvam,Vonnett	+	+	+	+	+		
54 Pancoska,Car	+	+	+	+	+		
793 Rubocki,Rona	+	+	+	+	+		
8063 Shai,Isaac	+	+	+	+	+	DR53,DR16	

B-CELL LINE TER-451 (Caucasian)

75 DNA LABS

75 LABS REPORTING DRB1

DRB1*07	35%
DRB1*07:01	47%
DRB1*0701	9%
DRB1*07:01:01	8%
DRB1*07:01:01:01	1%
DRB1*07	100% TOTAL
DRB1*15	30%
DRB1*15:06	1%
DRB1*15:07	61%
DRB1*1507	8%
DRB1*15	100% TOTAL

72 LABS REPORTING DQB1

DQB1*03	24%
DQB1*03:03	58%
DQB1*0303	12%
DQB1*03:03:02	6%
DQB1*03	100% TOTAL
DQB1*06	28%
DQB1*06:02	53%
DQB1*0602	12%
DQB1*06:02:01	7%
DQB1*06	100% TOTAL

34 LABS REPORTING DQA1

DQA1*01	12%
DQA1*01:02	62%
DQA1*0102	23%
DQA1*01:02:01	3%
DQA1*01	100% TOTAL
DQA1*02	9%
DQA1*02:01	68%
DQA1*0201	23%
DQA1*02	100% TOTAL

53 LABS REPORTING DRB4

DRB4*+	19%
DRB4*01:03	4%
DRB4*0103	2%
DRB4*01:03N	26%
DRB4*0103N	9%
DRB4*01:03:01:02N	30%
DRB4*01030102N	4%
DRB4*01	6%

28 LABS REPORTING DPB1

DPB1*04	4%
DPB1*04:01+	18%
DPB1*04:01	50%
DPB1*0401	14%
DPB1*04:01:01	11%
DPB1*040101	3%

52 LABS REPORTING DRB5

DRB5*+	21%
DRB5*01:01	40%
DRB5*0101	4%
DRB5*01:01:01	4%
DRB5*01	15%
DRB5*01:01/14	12%
DRB5*0101/14	4%

8 SEROLOGY LABS

DR7	100%
DR15	100%
DR51	100%

DQ3	12%
DQ9	88%
DQ3	100% TOTAL
DQ1	25%
DQ6	75%
DQ1	100% TOTAL

OTHERS	
DR53	50%

B-CELL LINE TER-452

CTR DIRNAME	DRB1	DRB1X	DRB3	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	METHOD
5488 Adams, Sharon	*1405	*1501	*0202	*0101/14	*050301	*060101	*0102	*0104	*050101	RSSO, SBT, SSP
4691 Ajlan, Abdula	*14	*15			*05	*06				SSO
5133 Baker, Judy	*14:05	*15:01/41/43	*02:02	*01:01	*05:03	*06:01	*01:02	*01		SSO
774 Cecka, J. Mich	*14:05	*15:01	*02:02/23	*01:01	*05:03	*06:01	*01:02	*01:04		SSP, SSOP
785 Chan, Soh Ha	*1405/45	*1501/05	*0202	NT	*050301	*0601	*0102	*0102/04/05		SBT
5232 Charlton, Ron	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01				RVSSO, SSP
4492 Charron, D.	*14:05/91	*15:01/45/46	*02:02	*01:01	*05:03	*06:01	*01:02	*01:04	*05:01	P-SSO, SSP
8021 Clark, Brenda	*14:23	*15:01	*01:07/*02	*01/*02	*05:03	*06:01			*05:01	P-SSP, SSO
3632 Colombe, Beth	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01	*01:02	*01:01/04/05		SSP
5130 Costeas, Paul	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01	*01:02	*01:04		SSO, SSP
779 Daniel, Claud	*14	*15	*+	*+	*05	*06				P-SSP
5219 Daniel, Dolly	*14	*15	*+	*+	*05	*06				P-SSOP
8052 Del Pozo, Ana	*1405/45	*15			*0503	*0601	*0102	*01		P-SSO
5323 Dhaliwal, J.S	*14:05	*15:01	*02:02	*01:01	*05	*06				P-SSP, SSO
5891 Du, Keming	*1405/45	*1501/05			*0503	*0601				P-SBT
5214 Eckels/CPMC	*14	*15	*0202	*01	*0503	*0601	*0102	*01	*0501	SSO
2332 Elkhalfifa, Mo	*14:05/23	*15:01/41/43			*05:03	*06:01				RVSSO
4251 Ellis, Thomas	*14:05	*15:01	*02:02/12	*01:01	*05:03	*06:01	*01	*01	*05:01	P-SSO, SEQ
3135 Enczmann, J.	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01			*05:01	SBT, P-SSP
762 Fischer/Mayr	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01	*01:02	*01:04	*05:01	SSO, SSP, SBT
4079 Fort, Marylis	*14:05	*15:01			*05:03	*06:01				P-SSP, SSO
792 Gandhi, Manis	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01	*01:02	*01:04		SSO, SSP
8043 Gideoni, Osna	*14:05	*15:01			*05:03	*06:01	*01:02	*01:04		SSP
9002 Gideoni_LR	*14	*15			*05	*06				SSOP, SSP
234 Gomez, Carmen	*14	*15	*+	*+	*05	*06				SSOP
5195 Gomez, Carmen	*14	*15	*0202	*01	*0503	*0601	*0102	*01		SSOP
1694 Gottwald&Hes	*14:05	*15:01			*05:03	*06:01				SSP
910 Hahn, Amy B.	*14:05	*15:01/24/32+	*02:02/23	*01:01	*05:03	*06:01				SSP
810 Hamdi, Nuha	*14:05	*15:01			*05:03	*06:01	*01:02	*01:01		SSO
4269 Hanau, Daniel	*14:05:01	*15:01:01	*02:02:01	*01:01	*05:03/06	*06:01/35	*01:02	*01:04	*05:01	SSP, SBT
1461 Hidajat, M.	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01			*05:01	SSO, SSP
2344 Hurley/Hartz	*14:05:01	*15:01:01:01			*05:03:01+	*06:01:01+			*05:01:01+	SBT
771 Israel, Shosh	*14:05	*15:01			*05:03	*06:01				P-SSP
9003 Israel_LR	*14	*15			*05	*06				P-SSOP
794 Jaatinen, Tai	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01			*05:01	SBT, SSO, SSP
859 Kamoun, Malek	*14:05	*15:01	*02:02	*01:01/14	*05:03	*06:01	*01:02	*01:04		SBT, SSP, SSO
797 Kato, Shunich	*14:05	*15:01			*05:03	*06:01	*01:02	*01:01		SSO, +SBT-DR
4337 Kim, Tai-Gyu	*1405	*1501			*0503	*0601			*0501	SBT
168 Klein, Tirza	*14:05	*15:01			*05:03	*06:01				P-SSP, SSO
5096 Koh, Eun-mi	*14	*15								SSOP
87 Land, Geoffre	*1405	*1501	*0202	*0101	*0503	*0601	*0102	*0105	*0501	SSO, SBT, SSP
725 Lardy, N.M.	*14	*15	*+	*+	*05	*06	*01:02	*01:04		SSO, SSP
278 Lee, Jar-How	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01	*0102	*01:01/04/05	*05:01	SSP, RVSSOP
640 Lee, Kyung Wh	*14:05:01	*15:01			*05:03:01	*06:01	*01:02:01	*01:04:01		P-SBT
6649 Lim, Young Ae	*14	*15	*+	*+						SSP
274 Lo, Raymundo	*14	*15	*+	*+	*05	*06				SSP
731 Loewenthal, R	*14:05	*15:01			*0503	*0601				SSO, SBT
759 Lopez-Cepero	*14:05/45	*15:01/13/16+			*05:03	*06:01	*01:02	*01:01/04/05	*05:01	RVSSO
23 Mah, Helen	*14:05	*15:01	*02:02	*01:01/14	*05:03	*06:01	*01:02	*01:01/04/05	*05:01	SSO, SSP
8029 Mani, Rama	*14	*15	*+	*+						P-SSP
206 McAlack-Hana	*14	*15	*02	*01	*05	*06				RVSSOP
9916 McIntyre, Joh	*14:05:01	*15:01:01	*02:02	*01:01:01	*05:03/06	*06:01				SBT, SSP
8042 Muncher, Lior	*14:05	*15:01			*05:03	*06:01				SSP, SSOP
9001 Muncher_LR	*14	*15			*05	*06				SSOP, SSP
3648 Pereira, Noem	*14:05	*15:01			*05:03	*06:01	*01	*01		RVSSO, SBT
3966 Permpikul&Ve	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01				P-SSP
2400 Phelan, Donna	*14:05	*15:01	*02	*01:01	*05:03	*06:01	*01:02	*01:04	*05:01	RSSO, SBT, SSP

B-CELL LINE TER-452

CTR DIRNAME	DRB1	DRB1X	DRB3	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	METHOD
735 Ramon,Daniel	*14:05	*15:01	*02:02	*01:01/14	*05:03	*06:01	*01:02	*01:01/04/05	*05:01	SBT,SSP,RSSO
8001 Rao,Prakash	*14:05	*15:01/24/32+	*02:02	*01:01/14	*05:03	*06:01			*05:01	RVSSOP,SSP
3753 Reed,Elaine	*1405/45	*1501/05	*0202	*0101/14	*0503	*0601	*0102	*0101/04/05		SBT,SSO
3798 Reinsmoen,N	*14:05:01	*15:01:01	*02:02	*01:01/14	*05:03:01	*06:01	*01:02	*01:04	*05:01	SSP,RSSO,SBT
1160 Rosen-Bronso	*14	*15	*02:02	*01:01/14	*05:03	*06:01				RVSSO
793 Rubocki,Rona	*14	*15	*+	*+	*05	*06			*05	SSP
3519 Semana,Gilbe	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01			*05:01	SBT,P-SSP
8068 Shanmugam,He	*14	*15	*+	*+	*05	*06				P-SSP
746 Stamm,Luz	*14:05	*15:01	*02	*01	*05:03	*06:01				SSO,SSP,SBT
2020 Sutton,Maggi	*14:05:01	*15:01:01	*02:02/05+	*01:01-05+	*05:03:01	*06:01:01	*01:02/06	*01:01/04+	*05:01:01/02	P-SSP,SBT
13 Tagliere,Jac	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01				SSP
769 Tavoularis,S	*14:05	*15:01	*02:02	*01:01	*05:03	*06:01			*05:01	SSO,SBT,SSP
747 Tiercy,Jean-	*14:05:01	*15:01:01G	*02:02	*01:01	*05:03:01G	*06:01:01G	*01:02	*01:01/04/05	*05:01:01G	SSO,SSP,SBT
5451 Tilanus,Marc	*14:05:01	*15:01:01	*02:02:01	*01:01:01	*05:03	*06:01	*01:02	*01:04	*05:01	SBT
4021 Trachtenberg	*14	*15	*02	*01	*05	*06	*01	*01		SSO
5462 Turner,E.V.	*14:05:01	*15:01:01	*02:02/23	*01:01	*05:03	*06:01			*05:01	SEQ,SSO,SSP
5642 Varnavidou-N	*14:05/56	*15:01	*+	*+	*05:03:01	*06:01				P-SSP
3511 Zeevi,Adrian	*1405	*1501	*0202	*0101	*0503	*0601	*0102	*0105	*0501	RVSSOP,SSP

CTR DIRNAME	DR14	DR15	DR52	DR51	DQ1	DQ1X	OTH1	OTH2
4492 Charron,D.	DR6	+	+	+	+		DR9	
234 Gomez,Carmen	+	+	+	+	DQ5	DQ6		
5195 Gomez,Carmen	+	+	+	+	DQ5	DQ6		
910 Hahn,Amy B.	+	+	+	+	+			
4908 Kvam,Vonnett	+	+	+	+	DQ5	DQ6		
54 Pancoska,Car	+	+	+	+	+			
793 Rubocki,Rona	+	+	+	+	+			
8063 Shai,Isaac	+	+	+	+		DQ6	DR10,DR16	

B-CELL LINE TER-452 (Chinese)

75 DNA LABS

75 LABS REPORTING DRB1

DRB1*14	36%
DRB1*14:05	46%
DRB1*1405	5%
DRB1*14:05:01	12%
DRB1*14:23	1%
DRB1*14	100% TOTAL

DRB1*15	40%
DRB1*15:01	46%
DRB1*1501	5%
DRB1*15:01:01	8%
DRB1*15:01:01:01	1%
DRB1*15	100% TOTAL

53 LABS REPORTING DRB3

DRB3*+	21%
DRB3*02:02	45%
DRB3*0202	13%
DRB3*02:02:01	4%
DRB3*02	17%

52 LABS REPORTING DRB5

DRB5*+	21%
DRB5*01:01	44%
DRB5*0101	4%
DRB5*01:01:01	4%
DRB5*01	12%
DRB5*01:01/14	11%
DRB5*0101/14	4%

8 SEROLOGY LABS

DR6	12%
DR14	88%
DR6	100% TOTAL

DR15	100%
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DR52	100%
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DR51	100%
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72 LABS REPORTING DQB1

DQB1*05	25%
DQB1*05:03	54%
DQB1*0503	13%
DQB1*05:03:01	5%
DQB1*050301	3%
DQB1*05	100% TOTAL

DQB1*06	24%
DQB1*06:01	60%
DQB1*0601	14%
DQB1*06:01:01	1%
DQB1*0601	1%
DQB1*06	100% TOTAL

34 LABS REPORTING DQA1

DQA1*01	12%
DQA1*01:02	59%
DQA1*0102	26%
DQA1*01:02:01	3%
DQA1*01	100% TOTAL

DQA1*01	26%
DQA1*01:01/04/05	18%
DQA1*0101/04/05	3%
DQA1*01:01	6%
DQA1*01:04	35%
DQA1*0104	3%
DQA1*01:04:01	3%
DQA1*01:05	6%
DQA1*01	100% TOTAL

28 LABS REPORTING DPB1

DPB1*05	11%
DPB1*05:01	71%
DPB1*0501	14%
DPB1*050101	4%

INVESTIGATOR		DNA EXTRACT #509 (Caucasian)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
5488	Adams, Sharon	*0216	*030101	*510101		*070401/11	*150201	RVSSO, SBT
4691	Ajlan, Abdula	*02	*03	*51	*51	*07	*15	SSO
5133	Baker, Judy	*02:16	*03:01:01	*51:01:01		*07:04:01/11	*15:02:01/13	SSO, SBT
4345	Blasczyk, Rai	*02:16P	*03:01:01G	*51:01:01G		*07:04P	*15:02P	PCR-SBT
785	Chan, Soh Ha	*02:16/131	*03:01/20/21N/26/27	*51:01/11N/30/32/48/51		*07:04/11	*15:02/13	SBT
3224	Chen, Dongfen	*02:16	*03:01	*51:01		*07:04/11	*15:02	SBT, SSO
8021	Clark, Brenda	*020101-0104+	*0301-04/07+	*510101-0103/0105-03/05-07+		*0704/11/12+	*1502-06+	PCR-SSP
5219	Daniel, Dolly	*02	*03	*51	*51			PCR-SSOP
5323	Dhaliwal, J.S	*02	*03	*51		*07	*15	PCR-SSP
5891	Du, Keming	*0216	*0301	*5101/76	*5101/76	*0704	*1502	PCR-SBT
3766	Dunn, Paul	*02:16/131	*03	*51		*07:04/11/63	*15	SSO, SSP
2332	Elkhalifa, Mo	*02	*03	*51		*07	*15	
4251	Ellis, Thomas	*02:16	*03:01	*51:01	*51:01	*07:04/11	*15:02	PCR-SSO, SEQ
3135	Enczmann, J.	*02:16	*03:01	*51:01		*07:04	*15:02	PCR-SSO, SBT
762	Fischer&Mayr	*02:16/131	*03:01/01N/20/21N/26+	*51:01/11N/30/32/48/51		*07:04/11	*15:02/13	RVSSO, SSP, SBT
234	Gomez, Carmen	*02	*03	*51		*07	*15	SSP
5195	Gomez, Carmen	*02	*03	*51		*07	*15	SSOP
1694	Gottwald&Hes	*02	*03	*51		*07	*15	
1461	Hidajat, Mela	*02:16	*03:01	*51:01		*07:04	*15:02	SSO, SSP
615	Holdsworth, R	*02:16:01G	*03:01:01G	*51:01:01G		*07:04:01G	*15:02:01G	SBT
745	Holman, Richa	*02:16	*03:01:01	*51:01:01		*07:04:01	*15:02:01	SSO, SSP, SBT
2344	Hurley&Hartz	*02:16/131	*03:01:01:01-01:01:03+	*51:01:01:01:05+	*51:01:01:01:05+	*07:04:01/11	*15:02:01/02:07+	SBT, SSOP
794	Jaatinen, Tai	*02:16	*03:01	*51:01		*07:04/11	*15:02	SBT, SSO, SSP
797	Kato, Shunich	*02:16	*03:01/01N	*51:01		*07:04/11	*15:02	SSO, SBT
2847	Kihara, Masaa	*02	*03	*51		*07	*15	RVSSO
5096	Koh, Eun-mi	*02	*03	*51	*51			SSOP
87	Land, Geoff	*0216	*0301	*5101	*5101	*0704	*1502	SBT, SSO, SSP
278	Lee, Jar-How	*02:16/131	*03:01/37/45/48/58/60+	*51:01/38/48/50/51/66/67/69-72+		*07:04	*15:02	SSP, RVSSOP
640	Lee, Kyung Wh	*02:16	*03:01	*51:01		*07:04/11	*15:02	PCR-SBT
1108	Linke, Robert	*02	*03	*51	*51	*07	*15	RVSSOP
9916	McIntyre, Joh	*02:16	*03:01:01:01	*51:01:01		*07:04/142	*15:02/08/10/11+	SBT, SSP
8042	Muncher, Lior	*02:16	*03:01	*51:01		*07:04	*15:02	SSOP, SSP
9001	Muncher_LR	*02	*03	*51		*07	*15	SSOP
3648	Pereira, Noem	*02:16	*03:01	*51:01		*07:04P	*15:02	RVSSO, SSP, SBT
3966	Permpikul&Ve	*02	*03	*51		*07	*15	PCR-SSP
2400	Phelan, Donna	*02:16	*03:01/02N	*51:01		*07:04/11	*15:02	RVSSO, SBT
735	Ramon, Daniel	*02	*03	*51		*07	*15	RVSSOP
3753	Reed, Elaine	*0216	*0301	*5101	*5101	*0704/11	*1502	SBT, SSO
3798	Reinsmoen, N	*02:16	*03:01:01/01N	*51:01:01		*07:04:01/11	*15:02:01	RVSSO, SBT
4948	Sage, Deborah	*02:16	*03:01	*51:01		*07:04/11	*15:02	
3545	Scornik, Juan	*02:16	*03:01	*51:01		*07:04/11	*15:02	SSOP, SBT
8068	Shanmugam, He	*02	*03	*51	*51			PCR-SSP
746	Stamm, Luz	*02:16	*03:01	*51:01	*51:01	*07:04	*15:02	SSO, SSP, SBT
2020	Sutton, Maggi	*02:16	*03:01:01:01	*51:01:01		*07:04:01	*15:02:01	PCR-SSP, SBT
13	Tagliere, Jac	*02:16	*03:01	*51:01		*07:04	*15:02	SSP
4021	Trachtenberg	*02	*03	*51		*07	*15	SSO
5462	Turner, E.V.	*02:16	*03:01:01:01/02N/03	*51:01:01		*07:04:01	*15:02:01	SEQ, SSO, SSP
3186	Watson, Narel	*02	*03	*51		*07	*15	SSP

INVESTIGATOR	DNA EXTRACT #510 (Japanese)		B1	B2	C1	C2	method
CTR NAME	A1	A2					
5488 Adams, Sharon	*110101	*260101	*130101	*5603	*0102/22	*0304/28	RVSSO, SBT
4691 Ajlan, Abdula	*11	*26	*13	*56	*01	*03	SSO
5133 Baker, Judy	*11:01:01	*26:01:01	*13:01	*56:03	*01:02	*03:04	SSO, SBT
4345 Blasczyk, Rai	*11:01:01G	*26:01P	*13:01:01	*56:03	*01:02P	*03:04P	PCR-SBT
785 Chan, Soh Ha	*11:01/19/21N	*26:01/13/24/26	*13:01	*56:03	*01:02/11/22/25	*03:04/28	SBT
3224 Chen, Dongfen	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SBT, SSO
8021 Clark, Brenda	*1101/02/05-07+	*260101/0103-02/04+	*1301-03/06-08+	*5603	*0102/03/06-11+	*0302/0401-0406+	PCR-SSP
5219 Daniel, Dolly	*11	*26	*13	*56			PCR-SSOP
5323 Dhaliwal, J.S	*11	*26	*13	*56	*01	*03	PCR-SSP
5891 Du, Keming	*1101	*2601	*1301	*5603	*0102	*0304	PCR-SBT
3766 Dunn, Paul	*11	*26	*13	*56:03	*01	*03:04G	SSO, SSP
2332 Elkhalfifa, Mo	*11	*26	*13	*56	*01	*03	
4251 Ellis, Thomas	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	PCR-SSO, SEQ
3135 Enczmann, J.	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	PCR-SSO, SBT
762 Fischer&Mayr	*11:01/21N	*26:01/24/26	*13:01	*56:03	*01:02/25	*03:04	RSSO, SSP, SBT
234 Gomez, Carmen	*11	*26	*13	*56	*01	*03	SSP
5195 Gomez, Carmen	*11	*26	*13	*5603	*01	*03	SSOP
1694 Gottwald&Hes	*11	*26	*13	*56	*01	*03	
1461 Hidajat, Mela	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSO, SSP
615 Holdsworth, R	*11:01:01G	*26:01:01G	*13:01:01G	*56:03	*01:02:01G	*03:04:01G	SBT
745 Holman, Richa	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSO, SSP, SBT
2344 Hurley&Hartz	*11:01:01/21N+	*26:01:01/01:07/24+	*13:01:01/01:08	*56:03	*01:02:01/02:02+	*03:04:01:01+	SBT, SSOP
794 Jaatinen, Tai	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SBT, SSO, SSP
797 Kato, Shunich	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSO, SBT
2847 Kihara, Masaa	*11	*26	*13	*56	*01	*03	RVSSO
5096 Koh, Eun-mi	*11	*26	*13	*56			SSOP
87 Land, Geoff	*1101	*2601	*1301	*5603	*0102	*0304	SBT, SSO, SSP
278 Lee, Jar-How	*11:01/21N/30+	*26:01/39/41/42	*13:01/29	*56:03	*01:02/25	*03:04	SSP, RVSSOP
640 Lee, Kyung Wh	*11:01/19	*26:01/13	*13:01	*56:03	*01:02/48	*03:04/64	PCR-SBT
1108 Linke, Robert	*11	*26	*13	*56	*01	*03	RVSSOP
9916 McIntyre, Joh	*11:01:01	*26:01:01	*13:01:01	*56:03	*01:02/38-40	*03:04/48/78/82+	SBT, SSP
8042 Muncher, Lior	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSOP, SSP
9001 Muncher_LR	*11	*26	*13	*56	*01	*03	SSOP
3648 Pereira, Noem	*11:01	*26:01	*13:01	*56:03	*01:02// *01:22+	*03:04// *03:28+	RSSO, SSP, SBT
3966 Permpikul&Ve	*11	*26	*13	*5603	*01	*03	PCR-SSP
2400 Phelan, Donna	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	RVSSO, SBT
735 Ramon, Daniel	*11	*26	*13	*56	*01	*03	RVSSOP
3753 Reed, Elaine	*1101	*2601	*1301	*5603	*0102/22	*0304/28	SBT, SSO
3798 Reinsmoen, N	*11:01:01	*26:01:01	*13:01	*56:03	*01:02	*03:04:01	RVSSO, SBT
4948 Sage, Deborah	*11:01	*26:01	*13:01	*56:03	*01:02/22/31	*03:04/28/98	
3545 Scornik, Juan	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSOP, SBT
8068 Shanmugam, He	*11	*26	*13	*(B22/B15)			PCR-SSP
746 Stamm, Luz	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSO, SSP, SBT
2020 Sutton, Maggi	*11:01:01	*26:01:01	*13:01:01	*56:03	*01:02:01/02:11	*03:04:01	PCR-SSP, SBT
13 Tagliere, Jac	*11:01	*26:01	*13:01	*56:03	*01:02	*03:04	SSP
4021 Trachtenberg	*11	*26	*13	*56	*01	*03	SSO
5462 Turner, E.V.	*11:01:01/19	*26:01:01/13	*13:01	*56:03	*01:02	*03:04:01	SEQ, SSO, SSP
3186 Watson, Narel	*11	*26	*13	*56	*01	*03	SSP

INVESTIGATOR		DNA EXTRACT #511 (Japanese)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
5488	Adams, Sharon	*020101	*310102	*150101	*670101	*070201/50		RVSSO, SBT
4691	Ajlan, Abdula	*02	*31	*15	*67	*07	*07	SSO
5133	Baker, Judy	*02:01:01	*31:01:02	*15:01:01	*67:01:01	*07:02:01/50		SSO, SBT
4345	Blasczyk, Rai	*02:01:01G	*31:01:02G	*15:01:01G	*67:01:01	*07:02P		PCR-SBT
785	Chan, Soh Ha	*02	*31:01/02/14N	*15:01/102/104/140+	*67:01	*07:02/50/66/74		SBT
3224	Chen, Dongfen	*02:01	*31:01	*15:01	*67:01	*07:02		SBT, SSO
8021	Clark, Brenda	*020101-0104/0106-0115+	*3101/02/05-07+	*150101-0104/0106+	*6701	*0702/03/05/10+		PCR-SSP
5219	Daniel, Dolly	*02	*31	*15	*67			PCR-SSOP
5323	Dhaliwal, J.S	*02	*31	*15	*67	*07		PCR-SSP
5891	Du, Keming	*0201	*3101	*1501	*6701	*0702	*0702	PCR-SBT
3766	Dunn, Paul	*02	*31	*15:01G	*67:01	*07		SSO, SSP
2332	Elkhalifa, Mo	*02	*31	*15	*67	*07		
4251	Ellis, Thomas	*02:01	*31:01	*15:01/01N	*67:01	*07:02/50	*07:02/50	PCR-SSO, SEQ
3135	Enczmann, J.	*02:01	*31:01	*15:01	*67:01	*07:02/50		PCR-SSO, SBT
762	Fischer&Mayr	*02:01/01L/09/43N/66+	*31:01/14N/23	*15:01/102/140/146+	*67:01	*07:02/50/66/74		RSSO, SSP, SBT
234	Gomez, Carmen	*02	*31	*15	*67	*07		SSP
5195	Gomez, Carmen	*02	*31	*15	*6701	*07	*07	SSOP
1694	Gottwald&Hes	*02	*31	*15	*67	*07		
1461	Hidajat, Mela	*02:01	*31:01	*15:01	*67:01	*07:02		SSO, SSP
615	Holdsworth, R	*02:01:01G	*31:01:02G	*15:01:01G	*67:01	*07:02:01G		SBT
745	Holman, Richa	*02:01:01	*31:01:02	*15:01:01:01	*67:01:01	*07:02:01		SSO, SSP, SBT
2344	Hurley&Hartz	*02:01:01:01-01:01:03+	*31:01:02/14N/23+	*15:01:01:01+	*67:01:01	*07:02:01:01+	*07:02:01:01+	SBT, SSOP
794	Jaatinen, Tai	*02:01	*31:01	*15:01	*67:01	*07:02/50		SBT, SSO, SSP
797	Kato, Shunich	*02:01/01L	*31:01	*15:01/01N	*67:01	*07:02/50		SSO, SBT
2847	Kihara, Masaa	*02	*31	*15	*67	*07		RVSSO
5096	Koh, Eun-mi	*02	*31	*15	*13			SSOP
87	Land, Geoff	*0201	*3101	*1501	*6701	*0702	*0702	SBT, SSO, SSP
278	Lee, Jar-How	*02:01/97/121/132/134+	*31:01/28	*15:01/102/140/146+	*67:01	*07:02		SSP, RVSSOP
640	Lee, Kyung Wh	*02:01/20/40/43	*31:01/02/21/41	*15:01	*67:01	*07:02/50		PCR-SBT
1108	Linke, Robert	*02	*31	*15	*67	*07	*07	RVSSOP
9916	McIntyre, Joh	*02:01:01:01	*31:01:02	*15:01:01:01	*67:01:01	*07:02/66/100/102/105/107+		SBT, SSP
8042	Muncher, Lior	*02:01	*31:01	*15:01	*67:01	*07:02		SSOP, SSP
9001	Muncher_LR	*02	*31	*15	*67	*07		SSOP
3648	Pereira, Noem	*02:01// *02:243	*31:01// *31:21	*15:01/01N	*67:01	*07:02P		RSSO, SSP, SBT
3966	Permpikul&Ve	*02	*31	*15	*6701	*07		PCR-SSP
2400	Phelan, Donna	*02:01	*31:01	*15:01/01N	*67:01	*0702/50		RVSSO, SBT
735	Ramon, Daniel	*02	*31	*15	*67	*07		RVSSOP
3753	Reed, Elaine	*0201	*3101	*1501	*6701	*0702/50	*0702/50	SBT, SSO
3798	Reinsmoen, N	*02:01:01/01L	*31:01:02	*15:01:01/01N	*67:01:01	*07:02:01/50		RVSSO, SBT
4948	Sage, Deborah	*02:01/20/243	*31:01/02/21	*15:01	*67:01	*07:02/50		
3545	Scornik, Juan	*02:01	*31:01	*15:01	*67:01	*07:02/50		SSOP, SBT
8068	Shanmugam, He	*02	*31	*15(B62)	*67			PCR-SSP
746	Stamm, Luz	*02:01	*31:01	*15:01	*67:01	*07:02	*07:02	SSO, SSP, SBT
2020	Sutton, Maggi	*02:01:01:01/01:01:02L	*31:01:02	*15:01:01:01	*67:01:01	*07:02:01:01/02:01:03		PCR-SSP, SBT
13	Tagliere, Jac	*02:01	*31:01	*15:01	*67:01	*07:02		SSP
4021	Trachtenberg	*02	*31	*15	*67	*07		SSO
5462	Turner, E.V.	*02:01:01	*31:01:02	*15:01:01:01/02N	*67:01:01	*07:02:01		SEQ, SSO, SSP
3186	Watson, Narel	*02	*31	*15	*67	*07		SSP

INVESTIGATOR		DNA EXTRACT #512 (Chinese)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
5488	Adams, Sharon	*110101/0201/53	*240201/63	*130101	*152701	*03	*04	RVSSO, SBT
4691	Ajlan, Abdula	*11	*24	*13	*15	*03	*04	SSO
5133	Baker, Judy	*11:02:01	*24:02:01	*13:01	*15:27:01	*03:04	*04:01	SSP
4345	Blasczyk, Rai	*11:02P	*24:02:01G	*13:01:01	*15:27:01	*03:04P	*04:01:01G	PCR-SBT
785	Chan, Soh Ha	*11:01/02/21N/38	*24:02/03/09N/11N+	*13:01	*15:27	*03:04/07/28+	*04:01/09N/04+	SBT
3224	Chen, Dongfen	*11:02/53	*24:02	*13:01	*15:27	*03:04	*04:01/09N/30	SBT, SSO
8021	Clark, Brenda	*1101/02/05-07+	*2402/03/07+	*1301-03/06-08+	*150101-0104+			PCR-SSP
5219	Daniel, Dolly	*11	*24	*13	*15			PCR-SSOP
5323	Dhaliwal, J.S	*11	*24	*13	*15	*03	*04	PCR-SSP
5891	Du, Keming	*1153	*2402	*1301	*1527	*0304	*0401	PCR-SBT
3766	Dunn, Paul	*11	*24	*13	*15:27/109	*03:04G	*04	SSO, SSP
2332	Elkhalifa, Mo	*11	*24	*13	*15	*03	*04	
4251	Ellis, Thomas	*11:01	*24:02	*13:01	*15:27	*03:04	*04:01	PCR-SSO, SEQ
3135	Enczmann, J.	*11:01	*24:63	*13:01	*15:27	*03:04	*04:01/09N/30	PCR-SSO, SBT
762	Fischer&Mayr	*11:02/53	*24:02/09N/11N/40N+	*13:01	*15:27	*03:04	*04:01/09N/28+	SSO, SSP, SBT
234	Gomez, Carmen	*11	*24	*13	*15	*03	*04	SSP
5195	Gomez, Carmen	*11	*24	*13	*15	*03	*04	SSOP
1694	Gottwald&Hes	*11	*24	*13	*15	*03	*04	
1461	Hidajat, Mela	*11:53	*24:02	*13:01	*15:27	*03:04	*04:01	SBT, SSP
615	Holdsworth, R	*11:02:01G	*24:02:01G	*13:01:01G	*15:27	*03:04:01G	*04:01:01G	SBT
745	Holman, Richa	*11:53	*24:02	*13:01	*15:27:01	*03:04:01	*04:01:01	SSO, SSP, SBT
2344	Hurley&Hartz	*11:02:01/02:03+	*24:02:01/02:01:021L+	*13:01:01/01:06	*15:27:01	*03:04:01:01+	*04:01:01:01+	SBT
794	Jaatinen, Tai	*11:02/53	*24:02	*13:01	*15:27	*03:04	*04:01/30	SBT, SSO, SSP
797	Kato, Shunich	*11:01/02/53	*24:02/63	*13:01	*15:27	*03:04	*04:01/09N/30	SSO, SBT
2847	Kihara, Masaa	*11	*24	*13	*15	*03	*04	RVSSO
5096	Koh, Eun-mi	*11	*24	*67	*15			SSOP
87	Land, Geoff	*1101	*2402	*1301	*1527	*0304	*0401	SBT, SSO, SSP
278	Lee, Jar-How	*11:02	*24:02	*13:01/29	*15:27	*03:04	*04:01	SSP, RVSSOP
640	Lee, Kyung Wh	*11:01/02/38/53	*24:02/03/63	*13:01	*15:27	*03:04	*04:01/09N/30+	PCR-SBT
1108	Linke, Robert	*11	*24	*13	*15	*03	*04	RVSSOP
9916	McIntyre, Joh	*1102/53	*24:02:01:01	*13:01	*15:27:01	*03:04/78/82+	*04:01/38-41/44+	SBT, SSP
8042	Muncher, Lior	*11:02	*24:02	*13:01	*15:27	*03:04	*04:01	SSOP, SSP
9001	Muncher_LR	*11	*24	*13	*15	*03	*04	SSOP
3648	Pereira, Noem	*11:02	*24:02	*13:01	*15:27	*03:04// *03:92	*04:01P// *04:08	RSSO, SSP, SBT
3966	Permpikul&Ve	*11	*24	*13	*1527	*03	*04	
2400	Phelan, Donna	*11:53	*24:02	*13:01	*15:27	*03:04	*04:01	RVSSO, SBT
735	Ramon, Daniel	*11	*24	*13	*15	*03	*04	RVSSOP
3753	Reed, Elaine	*1101/02/38/53	82402/03/63	*1301	*1527	*0304/07/28/32+	*0401/04/09N/10+	SBT, SSO
3798	Reinsmoen, N	*11:02:01/53	*24:02:01/01L	*13:01	*15:27:01	*03:04:01	*04:01/09N/30/82	RSSO, SSP, SBT
4948	Sage, Deborah	*11:01/02/53	*24:02/63	*13:01	*15:27	*03:04/28/32/92	*04:01/04/08+	
3545	Scornik, Juan	*11:02/53	*24:02	*13:01	*15:27	*03:04	*04:01/09N/30	SSOP, SBT
8068	Shanmugam, He	*11	*24	*13	*15(B62)			PCR-SSP
746	Stamm, Luz	*11:53	*24:02	*13:01	*15:27	*03:04	*04:01	SSO, SSP, SBT
2020	Sutton, Maggi	*11:02:01/53	*24:02:01:01/02:40	*13:01:01	*15:27:01	*03:04:01	*04:01:01:01	PCR-SSP, SBT
13	Tagliere, Jac	*11:02	*24:02	*13:01	*15:27	*03:04	*04:01	SSP
4021	Trachtenberg	*11	*24	*13	*15	*03	*04	SSO
5462	Turner, E.V.	*11:02:01/53	*24:02:01	*13:01	*15:27:01	*03:04:01	*04:01:01	SEQ, SSO, SSP
3186	Watson, Narel	*11	*24	*13	*15	*03	*04	SSP

SUMMARY

Extract 509 (Caucasian)
48 labs
 A*02 35%
 A*02:16/131 11%
 A*02:16:01G 2%
 A*02:16P 2%
 A*02:16 42%
 A*0216 8%
 A*02 100% TOTAL

A*03 49%
 A*03:01 39%
 A*0301 6%
 A*03:01:01 6%
 A*03 100% TOTAL

48 labs
 B*51 52%
 B*51:01 29%
 B*5101 4%
 B*51:01:01 13%
 B*510101 2%
 B*51 100% TOTAL

45 labs
 C*07 36%
 C*07:04/11 22%
 Cw*0704/11 2%
 C*07:04:01/11 7%
 Cw*070401/11 2%
 C*07:04:01G 2%
 C*07:04P 4%
 C*07:04 14%
 Cw*0704 4%
 C*07:04:01 7%
 C*07 100% TOTAL

C*15 49%
 C*15:02 33%
 Cw*1502 7%
 C*15:02:01 9%
 Cw*150201 2%
 C*15 100% TOTAL

Extract 510 (Japanese)
48 labs
 A*11 54%
 A*11:01 29%
 A*1101 6%
 A*11:01:01 9%
 A*110101 2%
 A*11 100% TOTAL

A*26 54%
 A*26:01 29%
 A*2601 6%
 A*26:01:01 9%
 A*260101 2%
 A*26 100% TOTAL

48 labs
 B*13 40%
 B*13:01 46%
 B*1301 6%
 B*13:01:01 6%
 B*130101 2%
 B*13 100% TOTAL

B*56 27%
 B*56:03 56%
 B*5603 15%
 B*56 98% TOTAL

45 labs
 C*01 62%
 C*01:02 33%
 Cw*0102 5%
 C*01 100% TOTAL

C*03 56%
 C*03:04 33%
 Cw*0304 4%
 C*03:04:01 7%
 C*03 100% TOTAL

Extract 511 (Japanese)
48 labs
 A*02 56%
 A*02:01 23%
 A*0201 6%
 A*02:01:01 11%
 A*020101 2%
 A*02:01:01:01 2%
 A*02 100% TOTAL

A*31 56%
 A*31:01 23%
 A*3101 6%
 A*31:01:02 13%
 A*310102 2%
 A*31 100% TOTAL

48 labs
 B*15 50%
 B*15:01 29%
 B*1501 6%
 B*15:01:01 9%
 B*15:01:01:01 6%
 B*15 100% TOTAL

B*67 27%
 B*67:01 40%
 B*6701 12%
 B*67:01:01 17%
 B*670101 2%
 B*67 98% TOTAL

45 labs
 C*07 49%
 C*07:02/50 16%
 Cw*0702/50 4%
 C*07:02:01/50 4%
 Cw*070201/50 2%
 C*07:02 13%
 Cw*0702 5%
 C*07:02:01 7%
 C*07 100% TOTAL

Extract 512 (Chinese)
48 labs
 A*11 57%
 A*11:02/53 8%
 A*1102/53 2%
 A*11:02:01/53 7%
 A*11:01 4%
 A*1101 2%
 A*11:02 8%
 A*11:02:01 2%
 A*11:53 8%
 A*1153 2%
 A*11 100% TOTAL

A*24 61%
 A*24:02 25%
 A*2402 4%
 A*24:02:01 6%
 A*24:02:01:01 2%
 A*24:63 2%
 A*24 100% TOTAL

48 labs
 B*13 38%
 B*13:01 48%
 B*1301 6%
 B*13:01:01 4%
 B*130101 2%
 B*13 98% TOTAL

B*15 35%
 B*15:27 38%
 B*1527 8%
 B*15:27:01 17%
 B*152701 2%
 B*15 100% TOTAL

44 labs
 C*03 52%
 C*03:04 34%
 Cw*0304 5%
 C*03:04:01 9%
 C*03 100% TOTAL

C*04 59%
 C*04:01/09N/30 9%
 C*04:01/30 2%
 C*04:01 18%
 Cw*0401 5%
 C*04:01:01 5%
 C*04:01:01:01 2%
 C*04 100% TOTAL

INVESTIGATOR		CELL NO.1421 (Hispanic)		B1	B2	C1	C2	method
CTR	NAME	A1	A2					
8070	Ahn, Jaeie	*02		*35	*40:08	*03:04	*04	PCR-SSP
16	Askar, Medhat	*02:01:01	*02:06:01	*35:01/42	*40:08	*03:04:01	*04:01:01	PCR-RSSOP, SBT
774	Cecka, J. Mich	*02	*02:06/106/126+	*35	*40:08	*03	*04:01/43-47+	SSP
5232	Charlton, Ron	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	SSP, RVSSO
4492	Charron, D.	NT						
4492	Charron_LR	*02		*35	*40:08	*03	*04	PCR-SSO
798	Claas, F.H.J.	*02:01:01	*02:06:01	*35:01:01:01	*40:08	*03:04:01	*04:01:01	SBT, SSP
3632	Colombe, Beth	*0201	*0206	*3501	*4008	*0304	*0401	SSO, SSP
5130	Costeas, Paul	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	SSO, SSP
779	Daniel, Claud	*02		*35	*40(B61)	*03(Cw10)	*04	PCR-SSP
3766	Dunn, Paul	*02:01G	*02:06G	*35	*40:08	*03	*04	SSO
5214	Eckels/CPMC	*02	*02	*35	*4008	*03(Cw10)	*04	SSO
4251	Ellis, Thomas	*02:01	*02:06	*35:01/42	*40:08	*03:04	*04:01	PCR-SSO, SEQ
762	Fischer&Mayr	*02:01/01L	*02:06	*35:01	*40:08	*03:04	*04:01/09N/30	SBTex1-4
792	Gandhi, Manis	*02:01	*02:06	*35:01/23/27/41+	*40:08	*03:04	*04:01	SSO, SSP
8043	Gideoni, Osna	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	SSOP, SSP
810	Hamdi, Nuha	*0201	*0206	*3501	*4008	*0304	*0401	SSO
4269	Hanau, Daniel	*02:01:01	*02:06:01	*35:01:01	*40:08	*03:04:01	*04:01:01	PCR-SSP, SBT
3808	Hogan, Patric	*02		*35	*40:08/13/35/68+	*03	*04	SSP
745	Holman, Richa	*02:01:01	*02:06:01	*35:01/42	*40:08	*03:04:01	*04:01:01	SSO, SSP, SBT
771	Israel, Shosh	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	SSP, SBT
9003	Israel_LR	*02		*35	*40	*03	*04	PCR-SSO, SSP
859	Kamoun, Malek	*02:01	*02:06	*35:01/42	*40:08	*03:04	*04:01	
4337	Kim, Tai-Gyu	*02:01/09/43N/66+	*02:06/126	*35:01/40N/42+	*40:08	*03:04	*04:01/09N/28+	SBT
168	Klein, Tirza	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	PCR-SSP, SSO
9000	Klein_LR	*02		*35	*40	*03	*04	PCR-SSP, SSO
278	Lee, Jar-How	*02:01/97/121/132+	*02:06/126/170+	*35:01/57	*40:08	*03:04	*04:01	SSP, RVSSOP
6649	Lim, Young Ae	*02		*35	*40(B61)	*03(Cw10)	*04	SSP
731	Loewenthal, R	*02:01:01	*02:06:01	*35:01:01	*40:08	*03	*04	
759	Lopez-Cepero	*02:01/04/07/09+	*02:06/10/21/28+	*35:01/05/07/27+	*40:08	*03:04/06/07+	*04:01/04/05+	RVSSO
23	Mah, Helen	*02	*02:06	*35	*40:08	*03:04	*04	SSO
8029	Mani, Rama	*02		*35	*40			PCR-SSP
206	McAlack-Hana	*02	*02	*35	*40:08	*03(Cw10)	*04	RVSSOP
8001	Rao, Prakash	*02		*35	*4008	*0304/06/07/09+	*04	RVSSOP, SSP
3625	Rees, Tracey	*02:01	*02:06	*35:01	*40:08	*03:04/100/101	*04:01/28/30+	PCR-SSP, SBT
5200	Reinke, Denni	*02		*35	*40(B61)	*03(Cw10)	*04	SSP
1160	Rosen-Bronso	*02		*35	*40:08	*03	*04	RVSSO, SSP
793	Rubocki, Ron	*02		*35	*40	*03(Cw10)	*04	SSP
3519	Semana, Gilbe	*02:01	*02:06	*35:01	*40:08	*03:04	*04:01	SBT, PCR-SSP
769	Tavoularis, S	*02:01	*02:06:01	*35:01	*40:08	*03:04	*04:01	SSO, SBT, SSP
747	Tiercy, Jean-	*02:01:01:01/03	*02:06:01	*35:01:01:01/02	*40:08	*03:04:01G	*04:01:01/82	P-SSO, SSP, SBT
5451	Tilanus, Marc	*02:01:01	*02:06:01	*35:01:01	*40:08	*03:04:01	*04:01:01	
5462	Turner, E.V.	*02:01:01	*02:06:01	*35:01/42	*40:08	*03:04:01	*04:01:01	SEQ, SSO, SSP
5642	Varnavidou-N	*02		*35	*40	*03	*04	PCR-SSP, SSO
3186	Watson, Narel	*02		*35	*40	*03	*04	SSP

CTR	INVESTIGATOR NAME	CELL NO.1422 (Korean)	A1	A2	B1	B2	C1	C2	method
8070	Ahn, Jaeie		*01	*02	*37	*40:02	*03:03	*06	PCR-SSP
16	Askar, Medhat		*01:01:01	*02:01:01	*37:01:01	*40:02:01	*03:03/20N	*06:02	PCR-RSSOP, SBT
774	Cecka, J. Mich		*01	*02	*37	*40:02/56/57/78+	*03	*06	SSP
5232	Charlton, Ron		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SSP, RVSSO
4492	Charron, D.		NT						
4492	Charron_LR		*01	*02	*37	*40	*03	*06	PCR-SSO
798	Claas, F.H.J.		*01:01:01:01	*02:01:01	*37:01:01	*40:02:01	*03:03	*06:02	SBT, SSP
3632	Colombe, Beth		*0101	*0201	*3701	*4002	*0303	*0602	SSO, SSP
5130	Costeas, Paul		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SSO, SSP
779	Daniel, Claud		*01	*02	*37	*40(B61)	*03(Cw9)	*06	PCR-SSP
3766	Dunn, Paul		*01	*02	*37	*40:02G	*03	*06	SSO
5214	Eckels/CPMC		*01	*02	*37	*40(B61)	*03(Cw9)	*06	SSO
4251	Ellis, Thomas		*01:01/01N	*02:01/01L	*37:01	*40:02	*03:03/20N	*06:02	PCR-SSO, SEQ
762	Fischer&Mayr		*01:01	*02:01/01L	*37:01	*40:02	*03:03	*06:02	SBTex1-4
792	Gandhi, Manis		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SSO, SSP
8043	Gideoni, Osna		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SSOP, SSP
810	Hamdi, Nuha		*0101	*0201	*37:01	*40:02	*0303	*0602	SSO
4269	Hanau, Daniel		*01:01:01	*02:01:01	*37:01:01	*40:02:01	*03:03:01	*06:02:01	PCR-SSP, SBT
3808	Hogan, Patric		*01	*02	*37	*40:02G	*03	*06	SSP
745	Holman, Richa		*01:01	*02:01	*37:01:01	*40:02:01	*03:03	*06:02	SSO, SSP, SBT
771	Israel, Shosh		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SSP, SBT
9003	Israel_LR		*01	*02	*37	*40	*03	*06	PCR-SSO, SSP
859	Kamoun, Malek		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	
4337	Kim, Tai-Gyu		*01:01/04N/22N/32/34N+	*02:01/09/43N+	*37:01	*40:02/56/97	*03:03/20N/62	*06:02	SBT
168	Klein, Tirza		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	PCR-SSP, SSO
9000	Klein_LR		*01	*02	*37	*40	*03	*06	PCR-SSP, SSO
278	Lee, Jar-How		*01:01/01N/36-39/42/43+	*02:01/97/121+	*37:01/15/17/18+	*40:02/56/97	*03:03/62	*06:02	SSP, RVSSOP
6649	Lim, Young Ae		*01	*02	*37	*40(B61)	*03(Cw9)	*06	SSP
731	Loewenthal, R		*01	*02	*37:01:01	*40:02:01	*03	*06	
759	Lopez-Cepero		*01:01/02/04N/06/09+	*02:01/07/09+	*37:01/03N	*40:02/35/56/57+	*03:03/11/12+	*06:02/03/10+	RVSSO
23	Mah, Helen		*01	*02	*37	*40:02/56/97	*03:03/62	*06:02	SSO
8029	Mani, Rama		*01	*02	*37	*40			PCR-SSP
206	McAlack-Hana		*01	*02	*37	*40(B61)	*03(Cw9)	*06	RVSSOP
8001	Rao, Prakash		*01	*02	*37	*4002/35/56-58+	*0303/11/20N+	*06	RVSSOP, SSP
3625	Rees, Tracey		*01:01	*02:01	*37:01	*40:02	*03:03/20N/62	*06:02/46N/55	PCR-SSP, SBT
5200	Reinke, Denni		*01	*02	*37	*40(B61)	*03(Cw9)	*06	SSP
1160	Rosen-Bronso		*01	*02	*37	*40	*03	*06	RVSSO, SSP
793	Rubocki, Ron		*01	*02	*37	*40(B61)	*03(Cw9)	*06	SSP
3519	Semana, Gilbe		*01:01	*02:01	*37:01	*40:02	*03:03	*06:02	SBT, PCR-SSP
769	Tavoularis, S		*01:01/01N	*02:01	*37:01	*40:02	*03:03	*06:02	SSO, SBT, SSP
747	Tiercy, Jean-		*01:01:01:01/45/56N/81	*02:01:01:01/03	*37:01:01G	*40:02:01/144N	*03:03:01	*06:02:01G	P-SSO, SSP, SBT
5451	Tilanus, Marc		*01:01:01:01	*02:01:01	*37:01:01	*40:02:01	*03:03:01	*06:02:01	
5462	Turner, E.V.		*01:01:01:01/01:01:02N	*02:01	*37:01:01	*40:02:01	*03:03:01	*06:02:01	SEQ, SSO, SSP
5642	Varnavidou-N		*01	*02	*37	*40	*03	*06	PCR-SSP, SSO
3186	Watson, Narel		*01	*02	*37	*40	*03	*06	SSP

CTR	INVESTIGATOR NAME	CELL NO.1423 (Hispanic)	A1	A2	B1	B2	C1	C2	method
8070	Ahn, Jaeie		*02	*68	*35	*48	*04	*08	PCR-SSP
16	Askar, Medhat		*02:06:01	*68:03:01	*35:12:01	*48:01:01	*04:01:01// *04:10	*08:01:01/22// *08:21	PCR-RSSOP, SBT
774	Cecka, J. Mich		*02:06/126/127+	*68	*35	*48:01/07/09/11	*04	*08	SSP
5232	Charlton, Ron		NT						
4492	Charron, D.		*02:06/28/41/248+	*68:03	*35:12	*48:01/20/22	*04:01/54-70	*08:01/24/26N/36N	
4492	Charron_LR		*02	*68:03	*35:12	*48	*04	*08	PCR-SSO
798	Claas, F.H.J.		*02:06:01	*68:03:01	*35:12:01	*48:01:01	*04:01:01	*08:01:01	SBT, SSP
3632	Colombe, Beth		*02:06	*6803	*3512	*4801	*0401	*0801	SSO, SSP
5130	Costeas, Paul		*02:06/28	*68:03	*35:12	*48:01	*04:01	*08:01	SSO, SSP
779	Daniel, Claud		*02	*68	*35	*48	*04	*08	PCR-SSP
3766	Dunn, Paul		*02:06G	*68:03	*35:12	*48	*04	*08	SSO
5214	Eckels/CPMC		*02	*6803	*3512	*48	*04	*08	SSO
4251	Ellis, Thomas		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01/22	PCR-SSO, SEQ
762	Fischer&Mayr		*02:06	*68:03	*35:12	*48:01	*04:01/09N/30	*08:01/22	SBTex1-4
792	Gandhi, Manis		*02:06	*68:03	*35:12	*48:01/09	*04:01	*08:01	SSO, SSP
8043	Gideoni, Osna		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSOP, SSP
810	Hamdi, Nuha		*02:06	*6803	*3512	*4801	*0401	*0801	SSO
4269	Hanau, Daniel		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SBT
3808	Hogan, Patric		*02	*68	*35:10/12/13+	*48	*04	*08	SSP
745	Holman, Richa		*02:06	*68:03	*35:12:01	*48:01:01	*04:01:01	*08:01:01	SSO, SSP, SBT
771	Israel, Shosh		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SSP, SBT
9003	Israel_LR		*02	*68	*35	*48	*04	*08	PCR-SSO, SSP
859	Kamoun, Malek		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01/22	
4337	Kim, Tai-Gyu		*02:06/126	*68:03	*35:12	*48:01/09	*04:01/09N/28/30+	*08:01/20/22/24	SBT
168	Klein, Tirza		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	PCR-SSP, SSO
9000	Klein_LR		*02	*68	*35	*48	*04	*08	PCR-SSP, SSO
278	Lee, Jar-How		*02:06/126/127+	*68:03	*35:12	*48:01	*04:01	*08:01	SSP, RVSSOP
6649	Lim, Young Ae		*02	*68	*35	*48	*04	*08	SSP
731	Loewenthal, R		*02:06	*68:03	*35:12:01	*48:01:01	*04	*08	
759	Lopez-Cepero		*02:06/10/21/28+	*68:03	*35:12	*48:01/09/11	*04:01/05/07/09N+	*08:01/08/20-22+	RVSSO
23	Mah, Helen		*02:06	*68:03	*35:12	*48:01/09	*04	*08	SSO
8029	Mani, Rama		*02	*68	*35	*48			PCR-SSP
206	McAlack-Hana		*02	*68:03	*35:12	*48	*04	*08	RVSSOP
8001	Rao, Prakash		*02	*68	*35	*48	*04	*08	RVSSOP, SSP
3625	Rees, Tracey		*02:06	*68:03	*35:12	*48:01	*04:01/28/30/41+	*08:01/20/22/24	PCR-SSP, SBT
5200	Reinke, Denni		*02	*68	*35	*48	*04	*08	SSP
1160	Rosen-Bronso		*02	*68:03	*35:12	*48	*04	*08	RVSSO, SSP
793	Rubocki, Ron		*02	*68	*35	*48	*04	*08	SSP
3519	Semana, Gilbe		*02:06	*68:03	*35:12	*48:01	*04:01	*08:01	SBT, PCR-SSP
769	Tavoularis, S		*02:06	*68:03	*35:12:01	*48:01:01	*04:01	*08:01:01	SSO, SBT, SSP
747	Tiercy, Jean-		NT						
5451	Tilanus, Marc		*02:06:01	*68:03:01	*35:12:01	*48:01:01	*04:01:01	*08:01:01	
5462	Turner, E.V.		*02:06	*68:03	*35:12:01	*48:01:01	*04:01:01	*08:01:01	SEQ, SSO, SSP
5642	Varnavidou-N		*02	*68	*35	*48	*04	*08	PCR-SSP, SSO
3186	Watson, Narel		*02	*68	*35	*48	*04	*08	SSP

INVESTIGATOR	CELL NO.1424 (Hispanic)						method	
CTR	NAME	A1	A2	B1	B2	C1	C2	
8070	Ahn, Jaeie	*02		*39		*07		PCR-SSP
16	Askar, Medhat	*02:01:01	*02:06:01	*39:02:02	*39:05:01	*07:02:01/50		PCR-RSSOP/SBT
774	Cecka, J. Mich	*02	*02:06/106/126/127+	*39		*07		SSP
5232	Charlton, Ron	*02:01	*02:06	*39:01	*39:13	*07:02	*07:02	SSP, RVSSO
4492	Charron, D.	*02:01/200-266	*02:06/85/144/248+	*39:01/02/13	*39:05/13/56	*07:02/66/100-149		
4492	Charron_LR	*02	*02	*39	*39	*07		PCR-SSO
798	Claas, F.H.J.	*02:01:01	*02:06:01	*39:01:01	*39:13:01	*07:02:01		SBT, SSP
3632	Colombe, Beth	*0201	*0206	*3901// *3902	*3913// *3905	*0702		SSO, SSP
5130	Costeas, Paul	*02:01	*02:06	*39:02/13	*39:01/05	*07:02		SSO, SSP
779	Daniel, Claud	*02		*39	*39	*07		PCR-SSP
3766	Dunn, Paul	*02:01G	*02:06G	*39:01G	*39:05G	*07		SSO
5214	Eckels/CPMC	*02	*02	*39	*39	*07	*07	SSO
4251	Ellis, Thomas	*02:01	*02:06	*39:02	*39:05	*07:02/50	*07:02/50	PCR-SSO, SEQ
762	Fischer&Mayr	*02:01/01L	*02:06	*39:02	*39:05	*07:02/50		SBTex1-4
792	Gandhi, Manis	*02:01	*02:06	*39:02/13	*39:05	*07:02		SSO, SSP
8043	Gideoni, Osna	*02:01	*02:06	*39:01/02	*39:13/05	*07:02		SSOP, SSP
810	Hamdi, Nuha	*0201	*0206	*3930	*3913	*0702	*0702	SSO
4269	Hanau, Daniel	*02:01/01L	*02:06	*39:02	*39:05	*07:02		SBT
3808	Hogan, Patric	*02		*39:02/08/13/23/49	*39	*07		SSP
745	Holman, Richa	*02:01:01	*02:06:01	*39:02/13	*39:01/05	*07:02:01		SSO, SSP, SBT
771	Israel, Shosh	*02:01	*02:06	*39:01/02	*39:13/05	*07:02		SSP, SBT
9003	Israel_LR	*02		*39		*07		PCR-SSO, SSP
859	Kamoun, Malek	*02:01	*02:06	*39:02	*39:05	*07:02		
4337	Kim, Tai-Gyu	*02:01/09/43N/66/75+	*02:06/126	*39:02	*39:05	*07:02/50/66/74		SBT
168	Klein, Tirza	*02:01	*02:06	*39:02	*39:05	*07:02		PCR-SSP, SSO
9000	Klein_LR	*02		*39		*07		PCR-SSP, SSO
278	Lee, Jar-How	*02:01/97/121/132/134+	*02:06/126/127/170+	*39:01/01L/02/26/42+	*39:05/13/56	*07:02		SSP, RVSSOP
6649	Lim, Young Ae	*02		*39		*07		SSP
731	Loewenthal, R	*02:01:01	*02:06:01	*39:01/02	*39:13:01/05:01	*07:02:01/50/56		
759	Lopez-Cepero	*02:01/04/07/09/15N+	*02:06/10/21/28/41+	*39:02/01/13/15/19+	*39:05/13/49	*07:02/05/12/23/25+		RVSSO
23	Mah, Helen	*02	*02:06	*39	*39:05/13/49	*07	*07	SSO
8029	Mani, Rama	*02		*39		*07		PCR-SSP
206	McAlack-Hana	*02	*02	*39(B3901)	*39	*07	*07	RVSSOP
8001	Rao, Prakash	*02		*39		*07		RVSSOP, SSP
3625	Rees, Tracey	*02:01	*02:06	*39:01// *39:02	*39:13// *39:05	*07:02/50		PCR-SSP, SBT
5200	Reinke, Denni	*02		*39		*07		SSP
1160	Rosen-Bronso	*02		*39		*07		RVSSO, SSP
793	Rubocki, Ron	*02		*39		*07		SSP
3519	Semana, Gilbe	*02:01	*02:06	*39:02	*39:05	*07:02		SBT, PCR-SSP
769	Tavoularis, S	*02:01	*02:06:01	*39:01/01N/02	*39:05/13	*07:02		SSO, SBT, SSP
747	Tiercy, Jean-	NT						
5451	Tilanus, Marc	*02:01:01	*02:06:01	*39:02:02	*39:05:01	*07:02:01		
5462	Turner, E.V.	*02:01:01	*02:06:01	*39:02:02	*39:05:01	*07:02:01		SEQ, SSO, SSP
5642	Varnavidou-N	*02		*39		*07		PCR-SSP, SSO
3186	Watson, Narel	*02		*39		*07		SSP

SUMMARY

Cell 1421 (Hispanic)
44 labs

A*02 52%
A*02:01 27%
A*0201 5%
A*02:01:01 16%
A*02 100% TOTAL

A*02 48%
A*02:06 27%
A*0206 5%
A*02:06:01 20%
A*02 100% TOTAL

44 labs

B*35 55%
B*35:01/42 11%
B*35:01 20%
B*3501 5%
B*35:01:01 7%
B*35:01:01:01 2%
B*35 100% TOTAL

B*40 23%
B*40:08 68%
B*4008 9%
B*40 100% TOTAL

43 labs

C*03 46%
C*03:04 35%
Cw*0304 5%
C*03:04:01 14%
C*03 100% TOTAL

C*04 56%
C*04:01 25%
Cw*0401 5%
C*04:01:01 14%
C*04 100% TOTAL

Cell 1422 (Korean)
44 labs

A*01 54%
A*01:01 30%
A*0101 5%
A*01:01:01 6%
A*01:01:01:01 5%
A*01 100% TOTAL

A*02 57%
A*02:01 29%
A*0201 5%
A*02:01:01 9%
A*02 100% TOTAL

44 labs

B*37 50%
B*37:01 32%
B*3701 2%
B*37:01:01 16%
B*37 100% TOTAL

B*40 50%
B*40:02 32%
B*4002 2%
B*40:02:01 16%
B*40 100% TOTAL

43 labs

C*03 42%
C*03:03/20N/63 4%
C*03:03/20N 5%
C*03:03/63 5%
C*03:03 30%
Cw*0303 5%
C*03:03:01 9%
C*03 100% TOTAL

C*06 49%
C*06:02 39%
Cw*0602 5%
C*06:02:01 7%
C*06 100% TOTAL

Cell 1423 (Hispanic)
43 labs

A*02 53%
A*02:06 35%
A*0206 5%
A*02:06:01 7%
A*02 100% TOTAL

A*68 30%
A*68:03 56%
A*6803 7%
A*68:03:01 7%
A*68 100% TOTAL

43 labs

B*35 30%
B*35:12 47%
B*3512 7%
B*35:12:01 16%
B*35 100% TOTAL

B*48 53%
B*48:01 26%
B*4801 5%
B*48:01:01 16%
B*48 100% TOTAL

42 labs

C*04 60%
C*04:01 26%
Cw*0401 5%
C*04:01:01 9%
C*04 100% TOTAL

C*08 64%
C:08:01 19%
Cw*0801 5%
C:08:01:01 12%
C*08 100% TOTAL

Cell 1424 (Hispanic)
44 labs

A*02 55%
A*02:01 27%
A*0201 5%
A*02:01:01 13%
A*02 100% TOTAL

A*02 50%
A*02:06 29%
A*0206 5%
A*02:06:01 16%
A*02 100% TOTAL

44 labs

B*39 71%
B*39:01 2%
B*39:01:01 2%
B*39:02 16%
B*39:02:02 7%
B*3930 2%
B*39 100% TOTAL

B*39 59%
B*39:05/13 9%
B*39:05 19%
B*39:05:01 7%
B*39:13 2%
B*3913 2%
B*39:13:01 2%
B*39 100% TOTAL

43 labs

C*07 51%
C*07:02/50 9%
C*07:02 26%
Cw*0702 5%
C*07:02:01 9%
C*07 100% TOTAL

INTERNATIONAL CELL EXCHANGE

		***** CELL NO.1421 *****					***** CELL NO.1422 *****					***** CELL NO.1423 *****					***** CELL NO.1424 *****										
		(HISP)					(KORE)					(HISP)					(HISP)										
INVESTIGATOR	V	A	B	C	B	V	A	A	B	B	C	C	B	V	A	A	B	B	C	C	B	V	A	A	B	C	B
DAYS	I	B	2	3	4	I	B	1	2	3	6	W	W	I	B	2	3	4	W	W	W	I	B	2	3	W	W
NAME	OLD	%	5	0	3	%	7	1	3	6	4	6	OTHERS	%	8	5	8	4	8	6	OTHERS	%	9	7	6	OTHERS	
		X																									
Alonso, Anton	8	90	+	+40	+	+	+							90	+	+	+	+	+			90	+	+	+	+	
Alvarez, Carr	3	80	+	+										85	+	+	+40					80	+	+	16	+	
Askar, Medhat	2	95	+	+61	+	+	+	B61V, B48V						95	+	+	+	+	+	+		95	+	+	+	+	
Cecka, J. Mich	3	95	+	+61										95	+	+	+					95	+	+			
Chan MD, Soh	7	80	+	+48				CW8, A68					B47	80	+	+	40	+				NT	80	+	+	+	
Charron, D. P	4	70	+	+										80	+	+	+40					80	+	+	16		
Claas, F.H.J.	6	85	+	+40	+	+	+							85	+	+	+	+	+	+		85	+	+	28	+	
Dunk, Arthur	2	98	+	+61	+	+	+							98	+	+	+	+	+	+		98	+	+	+	+	
Dunn, Paul Dr	6	98	+	+48										98	+	+	+	+				95	+	+	+	+	
Enczmann, J.	7	95	+	+61										95	+	+	+	+				95	+	+	+	+	
Fort, Marylis	7	98	+	+08										98	+	+	+	+				98	+	+	+	+	
Gideon, Osna	6	90	+	+	+	+	+							90	+	+	+	+	+	+		100	+	+	+	+	
Gomez, Carmen	7	95	+	+40	+	+	+						B60, CW9	95	+	+	+	+				95	+	+	+	+	
Gomez, Carmen	7	98	+	+40	+	+	+						B60, CW9	98	+	+	+	+				98	+	+	+	+	
Gottwald, Hes	6	70	+	+61	+	+	+							100	+	+	+	+	+	+		95	+	+	+	+	
Hahn, Amy B.	2	99	+	+	10	+	+	B81					B60	99	+	+	+	10	+	+		93	+	+	+	+	
Harville, Ter	2	95	+	+40	10	+	+	B40V						95	+	+	+	+W9	+	+		95	+	+	+	+	
Hirankarn MD	6	96	+	+48				B40, A28						95	+	+	+	+				92	+	+	+	+	
Hogan, Patric	10	???	+	+40	+	+	+							???	+	+	+	+	+	+		???	+	+	+	+	
Holdsworth, R	8	95	+	+40										95	+	+	+40					95	+	+	+	+	
Holman, Richa	6	95	+	+40										98	+	+	+	+				95	+	+	+	+	
Hubbell, Char	3	95	+	+08										95	+	+	+	+				95	+	+	+	+	
Israel, Shosh	6	95	+	+61	+	+	+							95	+	+	+	+	+	+		95	+	+	+	+	
Keown, Paul M	3	99	+	+										99	+	+	+40					99	+	+	16	+	
Klein, Tirza	6	70	+	+60	+	+	+						B60	80	+	+	+	+	+	+		80	+	+	+	+	
Kvam, Vonnett	3	98	+	+08	+	+	+							98	+	+	+	+	+	+		98	+	+	+	+	
Lardy, N.M. D	6	90	+	+61	+	+	+							90	+	+	+	+	+	+		90	+	+	+	+	
Lo, Raymundo	7	98	+	+61				A24						98	+	+	+					98	+	+			
Loewenthal M	5	90	+	+	+	+	+							90	+	+	+	+	+	+		90	+	+	+	+	
MacCann, Eile	3	98	+	+										98	+	+	+	+				98	+	+	+	+	
Mah, Helen	3	98	+	+40	+	+	+	B40V						98	+	+	+	+	+	+		98	+	+	+	+	
McAlack-Hana	2	98	+	+	10	+	+							98	+	+	+40W9	+	+			98	+	+	+	+	
McCluskey, Ja	7	85	+	+48	+	+	+							85	+	+	+40	+	+	+		85	+	+	+	+	
Meyer, Pieter	9	75	+	+48	+	+		A68						90	+	+	+	+	+			80	+	+	+	+	
Mpuntscha, Loy	7	50	+	+									B60	50	+	+	+					50	+	+	16	+	
Norin, Allen	3	98	+	+				A68, B81						98	+	+	+	+				98	+	+	+	+	
Pancoska, Car	2	97	+	+08	10	+	+	B61V						98	+	+	+	10	+	+		98	+	+	+	+	
Permpikul, Ve	6	80	+	+										80	+	+	+	+				85	+	+	+	+	
Pollack, Mari	2	98	+	+48	10	+	+	B48S						98	+	+	+	+	+	+		98	+	+	+	+	
Rees, Tracey	6	80	+	+40	+	+	+	B40S						90	+	+	+	+	+	+		90	+	+	+	+	
Rosen-Bronso	3	95	+	+61	+	+								95	+	+	+	+	+			95	+	+	+	+	
Rubocki, Rona	2	98	+	+	+	+	+							98	+	+	+	+	+	+		98	+	+	+	+	
Semana MD, Gi	3	99	+	+40										99	+	+	+40					99	+	+	16	+	
Shai, Isaac	8	92	+	+40	+	+	+							90	+	+	+40	+	+	+		88	+	+	+	+	
Stamm, Luz	9	80	+	+40	+	+	+	B40V						80	+	+	+	+	+	+		80	+	+	+	+	
Stavropoulos	2	97	+	+40	+	+	+							97	+	+	+	+	+	+		97	+	+	+	+	
Tagliere, Jac	2	100	+	+	+	+	+							100	+	+	+40	+	+	+		100	+	+	+	+	
Tiercy, Jean	6	90	+	+61										90	+	+	+					NT	90	+	+	+	
Tilanus, Marc	7	90	+	+										90	+	+	+	+				90	+	+	+	+	
Varnavidou-N	6	98	+	+										98	+	+	+	+				98	+	+	+	+	

INTERNATIONAL CELL EXCHANGE

	***** CELL NO.1421 *****						***** CELL NO.1422 *****						***** CELL NO.1423 *****						***** CELL NO.1424 *****										
	(HISP)						(KORE)						(HISP)						(HISP)										
INVESTIGATOR	A	A	B	B	C	C	B	A	A	A	B	B	C	C	B	B	A	A	A	B	B	C	C	B	A	A	B	C	B
DAYS	B	2	3	4	W	W	W	B	1	2	3	6	W	W	W	W	B	2	6	3	4	W	W	W	B	2	3	W	W
NAME	OLD	%	5	0	3	4	6	OTHERS	%	7	1	3	6	4	6	OTHERS	%	8	5	8	4	8	6	OTHERS	%	9	7	6	OTHERS
							X																						

Walter Reed	3	99	+	+	+	+	+	B71	99	+	+	+	+10	+	+	+	99	+	+	+	+	+	+	+	+	99	+	+	+	+	B70
Watson,Narel	10	95	+				+40		95	+	+		+40				95	+28	+	+						95	+	+			
Wisecarver M	7	95	+				+61	+	95	+	+	+	+		+	+	98	+	+	+	+		+			95	+	+		+	

 * *
 * SUMMARY TABLE *
 * *

(HISP)
 **** CELL 1421 ****
 (53 SAMPLES TYPED)
 A2 100.0%
 (100.0%)

 B35 100.0%

 B40X 0.0%
 B60 1.9%
 B61 20.8%
 B48 11.3%
 4008 7.5%
 B40 28.3%
 (69.8%)

 CW3 47.2%
 CW10 9.4%
 (56.6%)

 CW4 56.6%

 BW6 86.8%

(OTHERS FOUND)
 A68 5.7%
 B40V 5.7%
 B81 3.8%
 B61V 3.8%
 B48S 1.9%
 B40S 1.9%
 A28 1.9%
 B40 1.9%
 B71 1.9%
 CW8 1.9%
 A24 1.9%
 B48V 1.9%

(KORE)
 **** CELL 1422 ****
 (53 SAMPLES TYPED)
 A1 100.0%

 A2 100.0%
 (100.0%)

 B37 98.1%

 B61 69.8%
 B40 20.8%
 (90.6%)

 CW3 49.1%
 CW9 3.8%
 CW10 5.7%
 (58.5%)

 CW6 49.1%

 BW4 86.8%

 BW6 86.8%

(OTHERS FOUND)
 B60 9.4%
 CW9 3.8%
 B47 1.9%

(HISP)
 **** CELL 1423 ****
 (51 SAMPLES TYPED)
 A2 100.0%
 (100.0%)

 A68 72.5%
 A28 27.5%
 (100.0%)

 B35 100.0%

 B48 92.2%

 CW4 62.7%

 CW8 37.3%

 BW6 86.3%

(OTHERS FOUND)
 B60 5.9%
 B81 3.9%

(HISP)
 **** CELL 1424 ****
 (51 SAMPLES TYPED)
 A2 100.0%
 (100.0%)

 B39 90.2%
 B16 9.8%
 (100.0%)

 CW7 54.9%

 BW6 86.3%

(OTHERS FOUND)
 B70 5.9%
 B35 2.0%
 B50 2.0%
 B45 2.0%
 B41 2.0%
 A28 2.0%
 A68 2.0%
 B37 2.0%
 B75 2.0%
 BW4 2.0%