REPORT OF THE 364TH CELL EXCHANGE

APRIL 4, 2012

B-cell Line	**467-468**
DNA Extract	**541-544**
Cells	**1453-1456**

B-cell line Exchange

We are grateful for the generous collaboration of **Eric Mickelson and John Hansen, Fred Hutchinson Cancer Research Center, Seattle,** and **Jane Rowlands, Helen Bass and Christopher Darke, Welsh Blood Service, Pontyclun**, for sharing valuable reference cells.

Ter 467. This cell from a Chinese donor was KE, also known as TER334, a reference cell for DRB1*08:14. It was studied in previous workshops as IHW#9432. DRB1*08:14 differs from DRB1*08:03:02 by a single nucleotide difference in codon 12, ACG -> AGG, causing an amino acid change from threonine to arginine. Clark, Lopez-Cepero, Mah, Stamm, and Tiercy correctly identified this cell as previously typed in the Cell Exchange as Ter 334 (2003) and Ter 384 (2006).

The following table shows the improved detection of the rare allele, DRB1*08:14, from 2003 to the present:

	Ter 334 2003 89 labs	Ter 384 2006 79 labs	Ter 467 2012 72 labs
DRB1*08:14	**40%**	**51%**	**76%**
DRB1*08:03	10%	-	-

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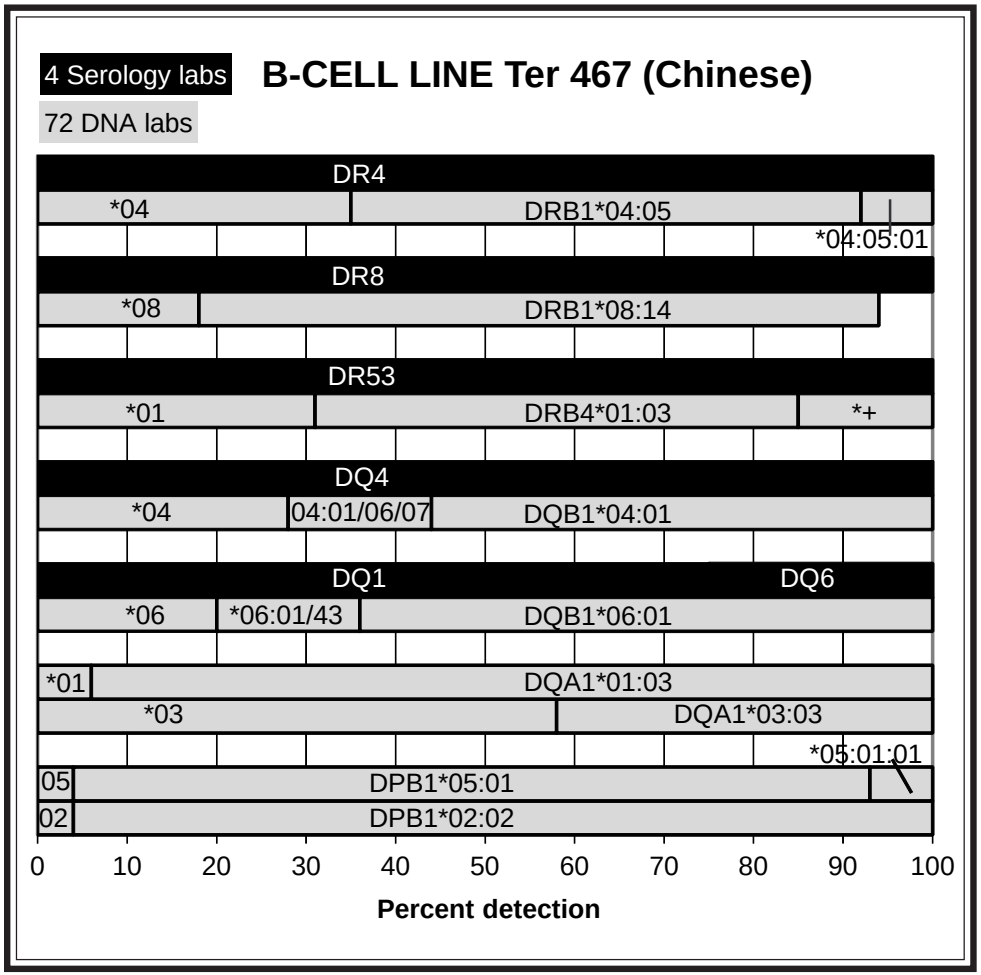
DRB1*04:05 (65%) was the other DRB1 type present.

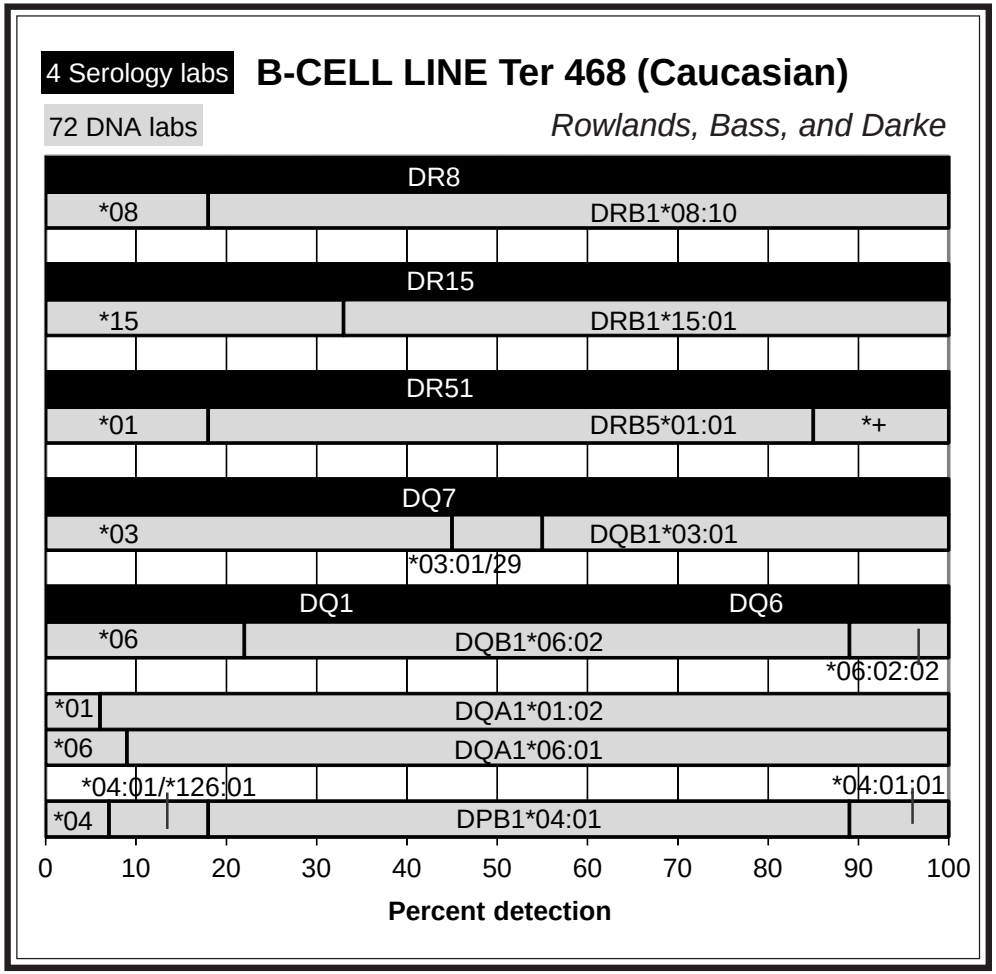
The probable associations in this cell were DRB1*08:14-DQB1*06:01-DQA1*01:03 and DRB1*04:05-DRB4*01:03-DQB1*04:01-DQA1*03:03. Previously typed exchange cells with the more commonly found DRB1*08:03 were found in the same association as was found with DRB1*08:14, that is, with DQB1*06:01 and DQA1*01:03.

The IMGT/HLA Database lists the class I typing of this cell as A2, A11, B38, B75, Cw7, and Cw8.

DPB1*02:02 and DPB1*05:01 were reported by 96%.

DPA1*02:02 was reported by Eckels, Jaatinen, Kamoun, Lee, Lo, Lopez-Cepero, Mah, and Stamm.





Ter 468. This Caucasian cell was previously typed in the Cell Exchange as Ter 362 (2005) and Ter 398 (2007), as correctly identified by Eckels, Lopez-Cepero, Mah, Stamm, and Tiercy. In the 2007 typing, a number of labs (Adams, Ball, Fischer, Hartzman and Hurley, KW Lee, McIntyre, Reed, van den Berg-Loonen, Wernet, and Yu) reported a new DQB1*06 variant that differed from DQB1*06:02 by a single nucleotide substitution (G -> A) at position 210. Ball, Hartzman and Hurley, KW Lee, van den Berg-Loonen, Wernet, and Yu noted the silent mutation at codon 38. This finding correlates to the reporting of DQB1*06:02:02 (11%) in this present study. Overall, DQB1*06:02 was reported by 67%.

DQB1*03:01 (43%) was the other DQB1 allele.

DRB1*08:10 was well typed, as assigned by 82%. This cell remains the sole DRB1*08:10 typed in the Cell Exchange.

Family data graciously provided by Rowlands and Darke, combined with the updated exchange results, reveal the haplotypes to be A*11-B*35-C*04:01-DRB1*08:10-DQB1*03:01-DQA1*06:01 and A*32-B*07-C*07:02-DRB1*15:01-DRB5*01:01-DQB1*06:02:02-DQA1*01:02. Interestingly, the frequency of the rare DRB1*08:10-DQB1*03:01 association is listed on the NMDP Bioinformatics web site as 0.00046 in Hispanics only.

All labs (Eckels, Jaatinen, Kamoun, Lee, Lo, Lopez-Cepero, Mah, and Stamm) reporting DPA1, assigned DPA1*01:03.

DPB1*04:01 was assigned by 88%.

Extract Exchange

We wish to express our gratitude to **Jane Rowlands, Helen Bass, and Christopher Darke, Welsh Blood Service, Pontyclun**, for generously providing challenging reference cells to type in our exchanges. We congratulate Stamm for correctly identifying all cells as previously typed in the Cell Exchange.

This month's study offered a number of unusual B*35 alleles to examine using present typing protocols.

Extract 541. This Asian cell was 39726, with the alias name of TER349 on the IMGT/HLA web site, a reference cell for C*04:01:01:01. It was previously typed as extract 349 (2006) and extract 534 (2011).

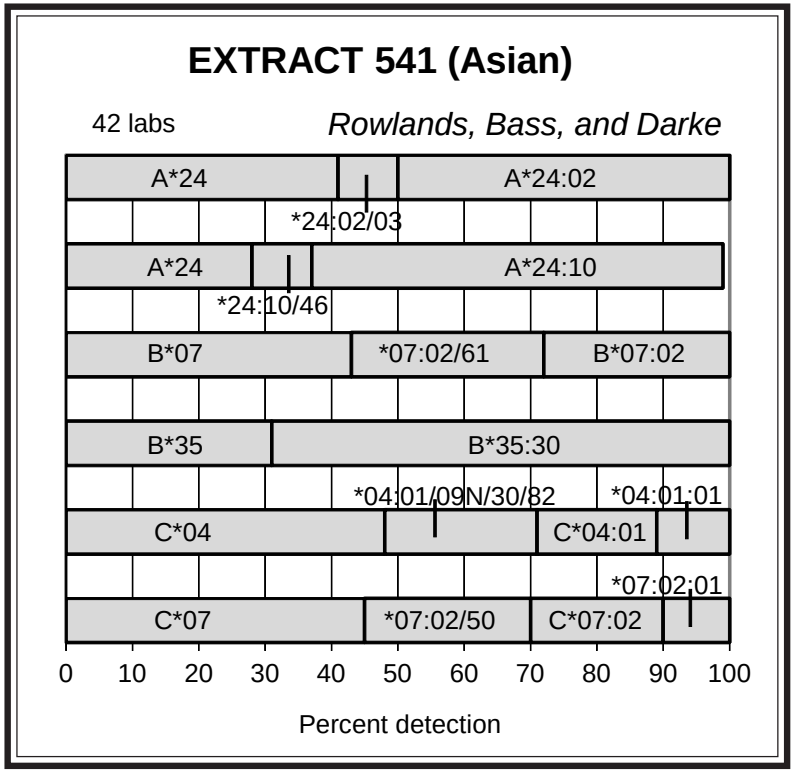
In this present retyping, C*04 was assigned in complete consensus, with C*04:01:01 reported by 11%.

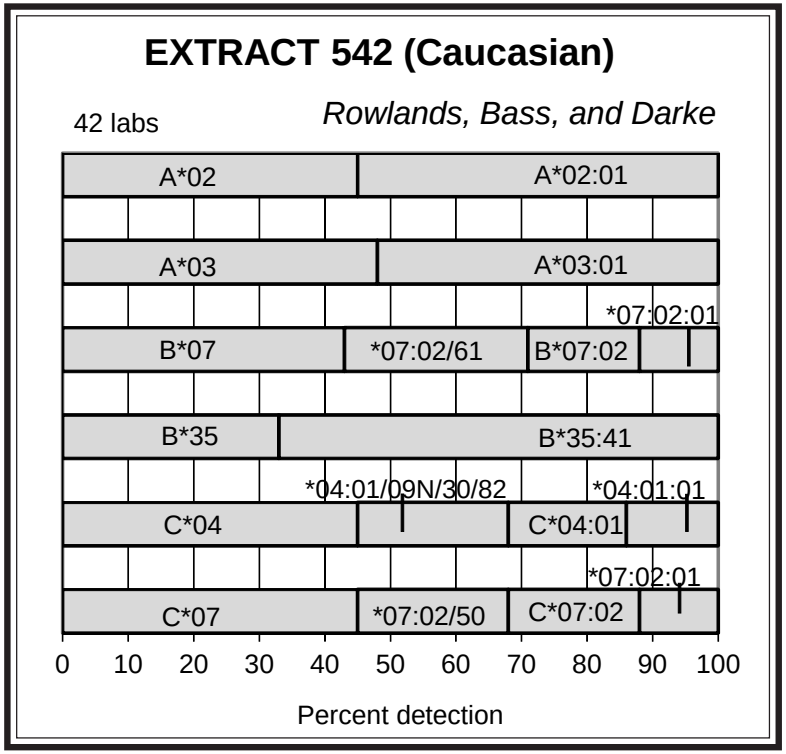
C*07:02 was reported by 30% as the second C-locus allele, while another 25% were unable to resolve C*07:02 from C*07:50.

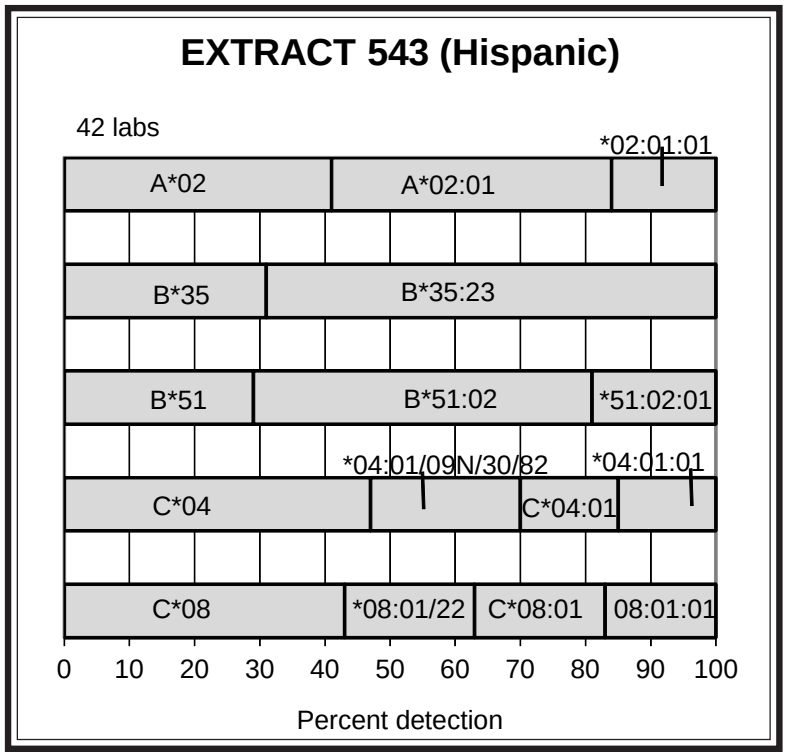
Two different alleles of A*24 were present in this cell, A*24:02 (43%) and A*24:10 (62%). A*24:10 was originally described in Indonesian and Malay populations by Bugawan et al. (1). This allele differs from A*24:03 in codon 163 (ACG->CGG), causing an amino acid change of threonine to arginine (T->R). The NMDP Bioinformatics web site indicates that A*24 allele is found in Asians only, with HF=0.00254. A*24:10 was also detected in extract 359 (2006) from a donor of unknown ethnicity.

The rare B*35:30 was also present in this cell. This allele was well typed, by 69%. The sequence of B*35:30 was described by Steiner et al. (2) as being nearly identical to that of B*35:17, with only one substitution at codon 113 (GTG->CTG), causing the amino acid change of valine to leucine (V->L).

B*07:02 (28%) was the second B-locus allele. B*07:02/61 was reported by 29%.







Extract 542. This Caucasian cell was 41405, also known as TER337, a reference cell for B*35:41. It was previously typed as extract 337 in 2005. In the previous 2005 typing, Brown stated that this cell was the same as WAC 1087870, also listed as a reference cell for B*35:41.

B*35:41 was assigned by 67%. B*35:41 was described by Alonso-Nieto et al. (3), "B*3541 encodes for a new Cys at position 118 that has not been encountered in neither human nor primate alleles." This rare allele differs from B*35:01:01 by this one substitution in exon 3, which suggests the occurrence of a point mutation. The investigators further said that this variant was found on the B*35:41-C*04:01-DRB1*01:03-DQB1*05:01 haplotype, the same haplotype which is also present in 4 of the 5 reference B*35:41 cells. This cell was the first B*35:41 typed in the Cell Exchange; 2 other exchange cells, extracts 390 and 403 (Cauc), has since been identified as having B*35:41.

A*02:01 (55%) and A*03:01 (52%) were the A-locus alleles.

C*04:01 and C*07:02 was assigned by 32%. Another 23% of labs were unable to distinguish C*07:02 from C*07:50.

Extract 543. This cell from an Hispanic donor was studied a number of times in the Cell Exchange as cells 1096 (2001), 1112 (2002), 1155 (2003), 1265 (2006), and extract 316 (2005).

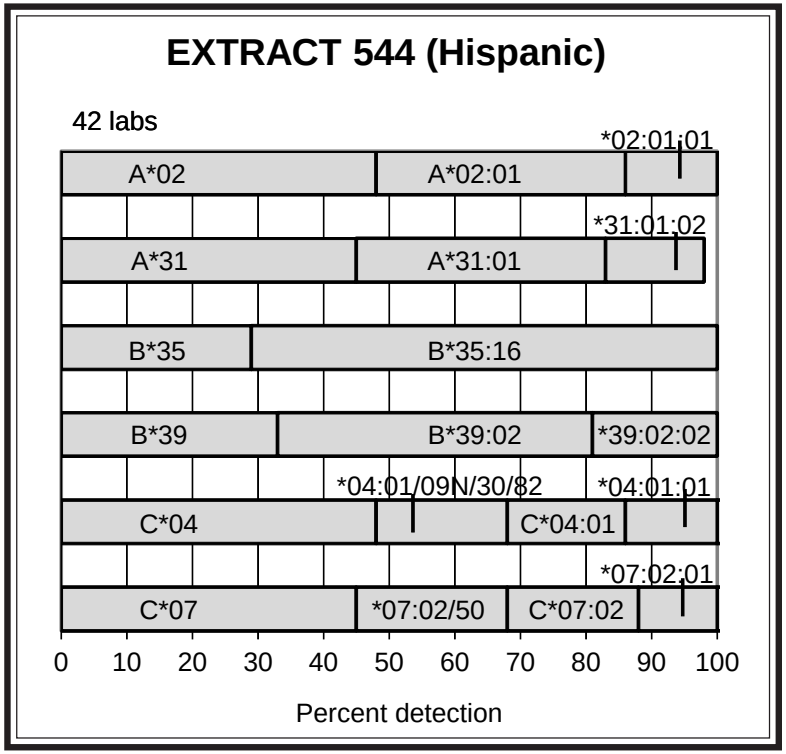
In this present retyping, the rare B*35:23 allele was assigned by 69%. The NMDP Bioinformatics web site lists B*35:23 with a frequency rate of 0.00050 in Hispanics only. From the previous typings by serology, the product of this B*35 allele was determined to have shorter anti-B35 reactivity than that of a normal B35.

B*51:02 was reported by 71%, with 19% reporting B*51:02:01.

A*02:01(59%) was the sole A-locus allele.

C*04:01 and C*08:01 were assigned by 30% and 37%, respectively.

A sibling of this cell was typed as extract 207 in 2002. From the family study data, we were able to confirm the haplotypes of this cell as A*02:01-B*35:23-C*04:01 and A*02:01-B*51:02-C*08:01.



Extract 544. This Hispanic cell was previously typed as cells 974 (1998) and 1032 (2000), as well as extracts 308 (2004) and 354 (2006).

In the present study, the unusual B*35:16 was detected by 71%.

B*39:02 was assigned by 67%, with 19% reporting B*39:02:02. B*39:02:02 differs from B*39:02:01 by a single nucleotide substitution in codon 58 (GAG ->GAA), resulting in a silent mutation.

A*02:01 (52%) and A*31:01 (53%) were the A-locus alleles.

C*04:01 was assigned by 32%. C*07:02 (32%) was the second C-locus allele. C*07:02 was not resolved from C*07:50 by 23%.

The likely associations in this cell were B*35:16-C*0401 and B*39:02-C*07:02, listed by the NMDP Bioinformatics web site as found solely in Hispanics, with frequencies of HF= 0.00100 and HF=0.00219, respectively.

Cell Exchange

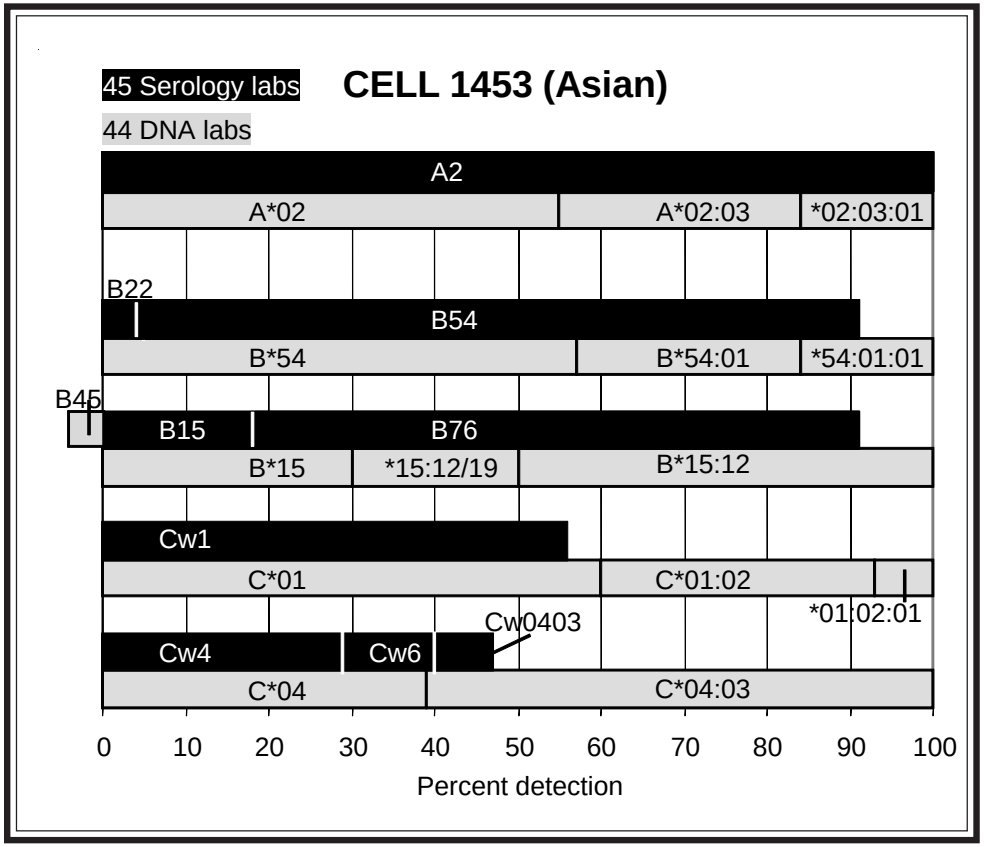
Cell 1453. This Asian donor was previously typed last year in the Cell Exchange as cell 1417, as correctly identified by Claas, Dunn, Lopez-Cepero, Mah, Pancoska, and Stamm. This donor is the sibling of cell 1454, also typed in this study. The A2-B76-Cw403/A*02:03-B*15:12-C*04:03 haplotype is shared by the siblings. A parent of the siblings was typed in 1998 as cell 971. The other haplotype in this cell, A2-B54-Cw1/A*02:03-B*54:01-C*01:02 was inherited from this parent.

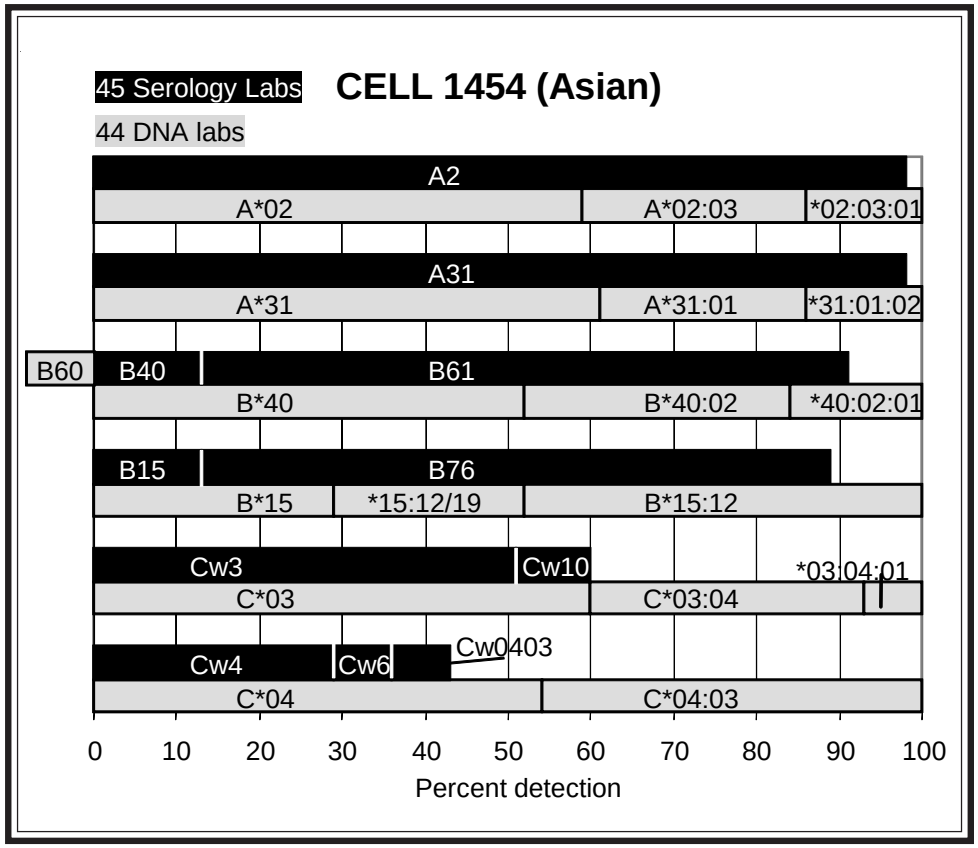
In this present study, B54 was well typed by 87% and validated as B*54:01 (43%).

B76 (73%) was the second B-locus antigen and confirmed as B15:12 (50%). B*15:12/19 was assigned by 20%.

Cw1 (56%) was corroborated as C*01:02 (40%).

The other C-locus type was C*04:03 (61%). Cw4 (29%) and Cw6 (11%) were the serological assignments, with another 7% of labs reporting Cw0403.





Cell 1454. This sibling of cell 1453 was previously typed as cell 1413 (2010), as correctly identified by Claas, Dunn, Lopez-Cepero, Mah, Pancoska, Stamm, and Tiercy.

In this present retyping, B76 was detected by 76%. Nearly half of the DNA labs assigned B*15:12 (48%) and B*15:12/19 was reported by 23%.

The other B-locus antigen, B61 (78%), was well typed and confirmed as B*40:02 (48%).

Cw3 (51%) was validated as C*03:04 (40%).

The second C-locus allele was C*04:03 (46%) which interestingly, was assigned by a lower percentage of labs than the 61% detection level attained for cell 1453. The serological assignments included Cw4 (29%), Cw6 (7%), and Cw0403 (7%).

According to the NMDP Bioinformatics web site, the B*15:12-C*04:03 association in this donor has only been observed in Asian populations, with HF= 0.00114.

Cell 1455. This Black donor with the rare C*04:13 allele was previously typed in the Cell Exchange as cell 1413 (2010), as correctly identified by Claas, Dunn, Lopez-Cepero, Mah, Pancoska, and Stamm. C*04:13 was reported by 59%. The serological assignment of this variant was Cw4 (52%). As described by Lebedeva et al. (4) "Cw*0413, identified in 3 African Americans, differs from Cw*0404 leading to substitution of Glu^{152} to Ala^{152}, a polymorphism not seen in the Cw*04 group." The IMGT/HLA Database lists the race of all 4 reference C*04:13 cells as Black. This donor is the only C*04:13 cell typed in the Cell Exchange.

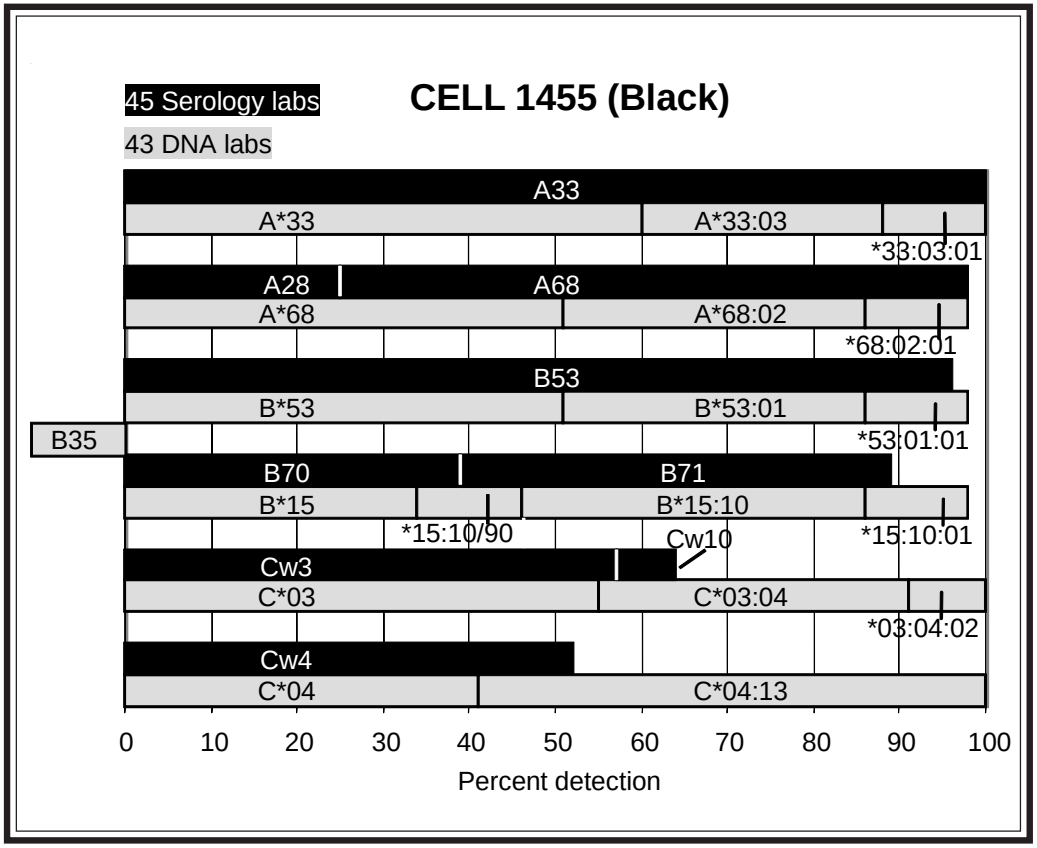
The other C-locus antigen was Cw3 (64%), with 7% reporting Cw10. C*03:04 was assigned by 45%, of which 9% assigned C*03:04:02. In the previous typing, C*03:04:02 was reported by 9% and C*03:04:01 by 5%; therefore, the retyping results indicate improved standardization for C*03:04:02.

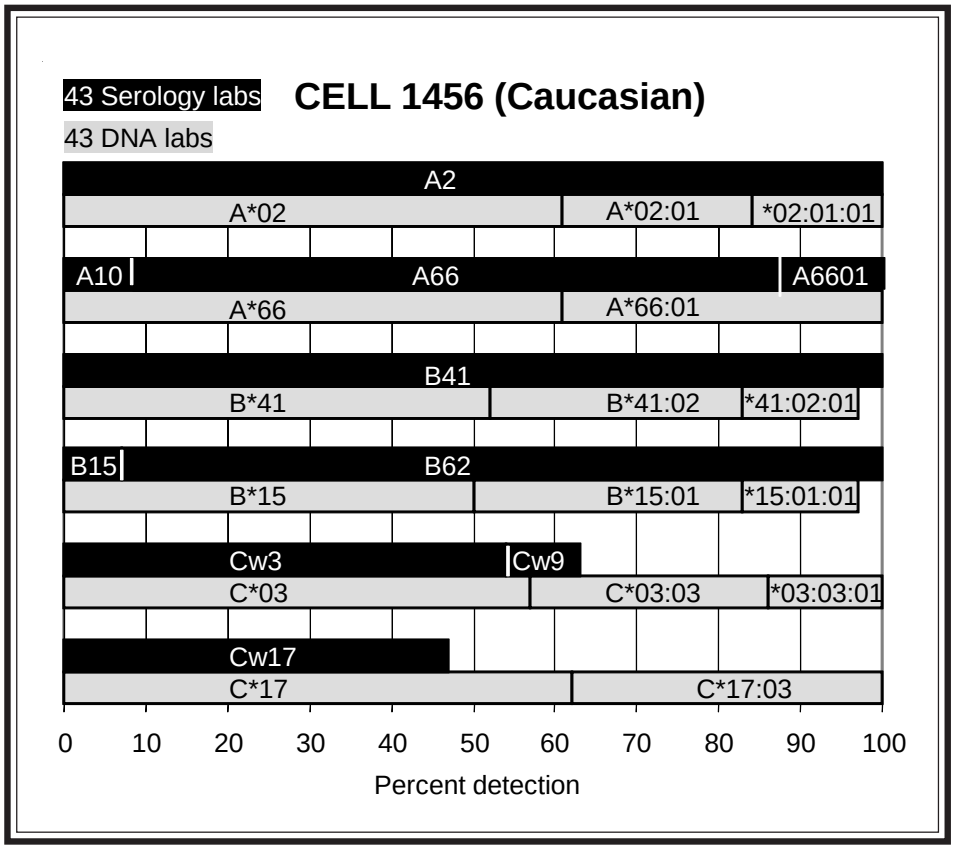
A33 was typed in complete agreement, validated as A*33:03 (40%). A68 (73%) was well typed as the second A-locus antigen. A*68:02 was reported by 47%.

B53 (96%) was established as B*53:01 (47%).

B70 (89%) was the second B-locus antigen; 50% of the labs reported B71. Dunk observed a short anti-B70 reaction pattern, noting a possible variant of B71. B*15:10 was detected by 52%, with 12% assigning B*15:10:01. B*15:10/90 was reported by 12%.

The probable associations present in this cell were B*53:01-C*04:13 and B*15:10-C*03:04, with the respective frequencies of HF=0.00062 and HF=0.02368 in Black populations.





Cell 1456. A66 was well typed by 93% in this Caucasian donor, with 14% reporting A6601. A*66:01 was reported by 39%.

B41 was assigned in complete agreement and was validated as B*41:02 (45%).

B62 (93%) was the second B-locus antigen, confirmed as B*15:01 (45%).

Cw3 was assigned by 63%, with 9% reporting Cw9, corroborated as C*03:03 (41%).

The possible haplotypes in this cell were A*66:01-B*41:02-C*17:03 and A*02:01-B*15:01-C*03:03. The NMDP Bioinformatics web site lists the frequency of the A*66:01-B*41:02-C*17:01g haplotype as HF=0.00191 in Caucasians. This same haplotype has been observed in 3 previous exchange donors, cells 1124 (also typed as cell 1095), 1308, and 1446 (also cell 1351); all 3 donors were Caucasian.

References

1. Bugawan TL, Mack SJ, Stoneking M, et al. HLA class I allele distributions in six Pacific/Asian populations: evidence of selection at the HLA-A locus. Tissue Antigens 1999;53:311.

2. Steiner NK, Kosman C, Jones PF, et al. Twenty-nine new HLA-B alleles associated with antigens in the 5C CREG. Tissue Antigens 2001;57:481.

3. Alonso-Nieto M, Garcia-Sanchez, Lillo R, et al. Four new HLA class I alleles in Cauacasoids. Tissue Antigens 2005:66:51.

4. Lebedeva TV, Ohashi M, Huang A, et al. Emerging new alleles suggest high diversity of HLA-C locus. Tissue Antigens 2005;65:101.

NEXT MAILING DATE: MAY 2, 2012

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B-CELL LINE Ter 467

CTR	DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
5488	Adams,Sharon	*04:05:01	*08:14	*01	*04:01:01	*06:01:01	*01:03	*03:03	*02:02	*05:01:01	RSSO,SBT,SSP
8070	Ahn,Jaeie	*04	*08		*04	*06			*02	*05	P-SSP
4691	Ajlan,Abdula	*04:05	*08:14		*04:01/02/06+	*06:01/43					SSO
8075	Al-Baz,Nabe	*04:05/30	*08:14		*04:01	*06:01					SSO,SSP
2332	Al-Meshari,K	*04:05	*08:14		*04:02	*06:01/43					SSO
5133	Baker,Judy	*04:05/90	*08:14	*01:03	*04:01/06/07	*06:01					SSP
774	Cecka,J.Mich	*04:05/90	*08:14	*01:03	*04:01/06/07	*06:01	*01:03	*03:03			SSP,SSOP
785	Chan,Soh Ha	*04:05	*08:14	*01	*04:01	*06:01	*01:03	*03:01-03			SBT
9916	Charlton,Ron	*04:05	*08:14	*01:03	*04:01/06-08	*06:01/43					SBT,SSP
4492	Charron,D.	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03	*02:02	*05:01	SSO,+SBT-DR
3224	Chen,Dongfen	*04:05	*08:14	*01:03	*04:01	*06:01					SBT,SSP
8021	Clark,Brenda	*04:05	*08:14	*01	*04:01	*06:01/43			*02:02	*05:01	P-SSP,SSO
3632	Colombe,Beth	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:01-03			SSP
5130	Costeas,Paul	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03			SSP
779	Daniel,Claud	*04	*08	*+	*04	*06					P-SSP
5219	Daniel,Dolly	*04	*08	*+	*04	*06					P-SSOP
8052	Del Pozo,Ana	*04:05	*08:14		*04:01/06/07	*06:01/43	*01:03	*03:01-03			P-SSO
5323	Dhaliwal,J.S	*04:05	*08:14	*01:03	*04:01	*06:01					SSP
5891	Du,Keming	*04:05	*08:14		*04:01	*06:01					P-SBT
5214	Eckels/CPMC	*04	*08:14	*01	*04	*06	*01:03	*03	*02:02	*05:01	SSOP
3135	Enczmann,J.	*04:05	*08:14	*01:03	*04:01	*06:01			*02:02	*05:01	SBT,SSP
762	Fischer/Mayr	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03	*02:02	*05:01	SSO,SSP,SBT+
4079	Fort,Marylis	*04:05/104	*08:14		*04:01/06-08	*06:01/43					
792	Gandhi,Manis	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03			SSO,SSP
8043	Gideoni,Osna	*04:05	*08:14		*04:01	*06:01	*01:03	*03:03			SSP
9002	Gideoni_LR	*04	*08		*04	*06					SSO,SSP
910	Hahn,Amy B.	*04:05/90	*08:14	*01:03	*04:01/06/07	*06:01					SSP
810	Hamdi,Nuha	*04:05	*08:14		*04:01	*06:01	*01:03	*03:01			SSO
4269	Hanau,Daniel	*04:05:01	*08:14	*01:03							SSO,+SBT-DR
1461	Hidajat,M.	*04:05	*08:14	*01:03	*04:01	*06:01			*02:02	*05:01	SSO,SSP
2344	Hurley/Hartz	*04:05:01+	*08:14		*04:01:01	*06:01:01+			*02:02	*05:01:01+	SBT
771	Israel,Shosh	*04:05	*08:14		*04:01	*06:01					SSO,SSP
9003	Israel_LR	*04	*08		*04	*06					
794	Jaatinen,Tai	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:01-03	*02:02	*05:01	SBT,SSO,SSP
859	Kamoun,Malek	*04:05	*08:14	*01:03	*04:01/06/07	*06:01/43	*01:03	*03:02/03	*02:02	*05:01	SBT,SSO,SSP
13	Kapoor/Park	*04:05	*08:14	*01:03	*04:01	*06:01					SSP
797	Kato,Shunich	*04:05	*08:14		*04:01/06/07	*06:01/43	*01:03	*03:01-03			SSO,+SBT-DR
4337	Kim,Tai-Gyu	*04:05	*08:14		*04:01/07/08	*06:01			*02:02	*05:01	SBT
1694	Kissel&Hess	*04:05	*08:14		*04:01	*06:01					SSP
168	Klein,Tirza	*04:05	*08:14		*04:01	*06:01					SSO,SSP
9000	Klein_LR	*04	*08		*04	*06					SSO,SSP
87	Land,Geoffre	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03	*02:02	*05:01	SBT,SSO,SSP
725	Lardy,N,M.	*04	*08	*+	*04	*06	*01	*03			SSO,SSP
278	Lee,Jar-How	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:01-03	*02:02	*05:01	SSP,RVSSOP
5096	Lee,Sun-Ah	*04	*08								SSO
640	Lee,Young K	*04:05	*08:14		*04:01:01G	*06:01	*01:03	*03:03			P-SBT
6649	Lim,Young Ae	*04		*+							SSP
274	Lo,Raymundo	*04	*08:14		*04	*06	*01:03	*03	*02:02	*05:01	SSO
731	Loewenthal,R	*04:05:01	*08:14		*04:01	*06:01					SBT,SSO
759	Lopez-Cepero	*04:05/29+	*08:14	*01:01/03+	*04:01/06/07	*06:01/43	*01:03	*03:01P	*02:02	*05:01	RVSSO
23	Mah,Helen	*04:05	*08:14	*01	*04:01	*06:01	*01:03	*03	*02:02	*05:01	SSO
8029	Mani,Rama	*04	*08	*+							SSP
206	McAlack-Hana	*04	*04	*01	*04:02	*06					RVSSOP
8042	Muncher,Lior	*04:05/81N	*04:05/81N		*04:01	*06:01					SSOP,SSP
9001	Muncher_LR	*04			*04	*06					SSOP,SSP
3966	Permpikul&Ve	*04:05	*08:14	*01:03	*04:01	*06:01					P-SSP
2400	Phelan,Donna	*04:05	*08:14	*01	*04:01	*06:01	*01:03	*03:01:01G	*02:02	*05:01	RSSO,SBT,SSP

B-CELL LINE Ter 467

CTR	DIRNAME	DRB1	DRB1X	DRB4	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1X	METHOD
8001	Rao,Prakash	*04:05/45+	*08:14	*01:03/08	*04:01/06/07	*06:01	*01:03	*03:01-03	*02:02	*05:01	RVSSO,SSP
3753	Reed,Elaine	*04:05	*08:03/14	*01:01/03+	*04:01	*06:01	*01:03	*03:01-03			SBT,RSSO
3798	Reinsmoen,N	*04:05:01	*08:14	*01:01/03+	*04:01/06/07	*06:01/43	*01:03	*03:01-03	*02:02	*05:01	RVSSO,SBT
3519	Renac,Virgi	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03	*02:02	*05:01	SBT,P-SSP
1160	Rosen-Bronso	*04:05	*08:03/14	*01:03	*04:01	*06:01					SSP,SBT
793	Rubocki,Rona	*04	*08	*+	*04	*06			*02:02	*05:01	SSP
4251	Schiller,J	*04:05	*08:14	*01:01/03+	*04:01	*06:01	*01	*03	*02:02	*05:01	P-RVSSO,SBT
8068	Shanmugam,He	*04	*08	*01	*04	*06					P-SSP
746	Stamm,Luz	*04:05	*08:14	*01	*04:01	*06:01	*01:03	*03	*02:02	*05:01	SSO,SSP,SBT
747	Tiercy,Jean-	*04:05:01	*08:14	*01:03	*04:01:01	*06:01:01	*01:03	*03:01-03	*02:02	*05:01	
5451	Tilanus,Marc	*04:05:01	*08:14	*01:03:01	*04:01:01	*06:01:01	*01:03:01	*03:03:01	*02:02	*05:01:01	SBT
4021	Trachtenberg	*04:05	*08:14	*01	*04	*06	*01:03	*03			SSO
5462	Turner,E.V.	*04:05	*08:14	*01:03	*04:01/06/07	*06:01/43			*02:02	*05:01	SSO,SBT,SSP
5642	Varnavidou-N	*04:05/80+	*08:14	*+	*04:01/06/07	*06:01					P-SSP
3511	Zeevi,Adrian	*04:05	*08:14	*01:03	*04:01	*06:01	*01:03	*03:03	*02:02	*05:01	RVSSOP,SSP

CTR	DIRNAME	DR4	DR8	DR53	DQ4	DQ1	DQX	OTH1	OTH2
910	Hahn,Amy B.	+	+	+	+	+			
54	Pancoska,Car	+		+	+	+		DR1	
793	Rubocki,Rona	+	+	+	+	DQ6			
8063	Shai,Isaac	+	+	+	+	+		DR1	

B-CELL LINE Ter 467 (Chinese)

72 DNA LABS

72 LABS REPORTING DRB1	
DRB1*04	35%
DRB1*04:05	57%
DRB1*04:05:01	8%
DRB1*04	100% TOTAL
DRB1*08	18%
DRB1*08:14	76%
DRB1*08	94% TOTAL

69 LABS REPORTING DQB1	
DQB1*04	25%
DQB1*04:01/06/07	16%
DQB1*04:01	55%
DQB1*04:01:01G	1%
DQB1*04:02	3%
DQB1*04	100% TOTAL
DQB1*06	20%
DQB1*06:01/43	16%
DQB1*06:01	64%
DQB1*06	100% TOTAL

33 LABS REPORTING DQA1	
DQA1*01	6%
DQA1*01:03	94%
DQA1*01	100% TOTAL
DQA1*03	55%
DQA1*03:01	3%
DQA1*03:03	36%
DQA1*03:01P	3%
DQA1*03:01:01G	3%
DQA1*03	100% TOTAL

48 LABS REPORTING DRB4	
DRB4*+	15%
DRB4*01:03	54%
DRB4*01	31%

28 LABS REPORTING DPB1	
DPB1*02	4%
DPB1*02:02	96%
DPB1*02	100% TOTAL
DPB1*05	4%
DPB1*05:01	89%
DPB1*05:01:01	7%
DPB1*05	100% TOTAL

4 SEROLOGY LABS

DR4	100%
DR8	75%
DR53	100%

DQ4	100%
DQ1	75%
DQ6	25%
DQ1	100% TOTAL

B-CELL LINE Ter 468

CTR	DIRNAME	DRB1	DRB1X	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1	METHOD
5488	Adams,Sharon	*08:10	*15:01:01	*01	*03:01/29	*06:02:02	*01:02	*06:01	*04:01:01		RSSO,SBT,SSP
8070	Ahn,Jaeie	*08	*15		*03	*06			*04	*04	P-SSP
4691	Ajlan,Abdula	*08:10	*15:01		*03:01/27-29+	*06:02					SSO
8075	Al-Baz,Nabe	*08:10	*15:01		*03:01	*06:02					SSO,SSP
2332	Al-Meshari,K	*08:10	*15:01		*03:01/27-29+	*06:02					SSO
5133	Baker,Judy	*08:10	*15:01/24/25+	*01:01	*03:01/21/22+	*06:02/33/37					SSP
774	Cecka,J.Mich	*08:10	*15:01/45/46+	*01:01	*03:01/21/22+	*06:02/33/37	*01:02	*06:01			SSP,SSOP
785	Chan,Soh Ha	*08:10	*15:01		*03:16	*06:02	*01:02	*06:01/02			SBT
9916	Charlton,Ron	*08:10	*15:01	*01:01:01	*03:01/28/29+	*06:02:02					SBT,SSP
4492	Charron,D.	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01		P-SSO,SSP
3224	Chen,Dongfen	*08:10	*15:01	*01:01	*03:01/29	*06:02:02					SBT,SSP
8021	Clark,Brenda	*08:10	*15:01	*01/*02	*03:01	*06:02			*04:01		P-SSP,SSO
3632	Colombe,Beth	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01			SSP
5130	Costeas,Paul	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01			SSP
779	Daniel,Claud	*08	*15	*+	*03(DQ7)	*06					P-SSP
5219	Daniel,Dolly	*08	*15	*+	*03	*06					P-SSOP
8052	Del Pozo,Ana	*08:10	*15		*03	*06:02	*01:02	*06:01			P-SSO
5323	Dhaliwal,J.S	*08:10	*15:01	*01:01	*03:01	*06:02					SSP
5891	Du,Keming	*08:10	*15:01		*03:01/29	*06:02					P-SBT
5214	Eckels/CPMC	*08:10	*15	*01	*03(DQ7)	*06:02	*01:02	*06:01	*04:01		SSOP
3135	Enczmann,J.	*08:10	*15:01	*01:01	*03:01	*06:02			*04:01		SBT,SSP
762	Fischer/Mayr	*08:10	*15:01	*01:01	*03:01/09/19+	*06:02	*01:02	*06:01	*04:01		SSO,SSP,SBT+
4079	Fort,Marylis	*08:10	*15:01		*03:01	*06:02					
792	Gandhi,Manis	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01			SSO,SSP
8043	Gideoni,Osna	*08:10	*15:01		*03:01	*06:02	*01:02	*06:01			SSP
9002	Gideoni_LR	*08	*15		*03	*06					SSO,SSP
910	Hahn,Amy B.	*08:10	*15:01/45/46+	*01:01	*03:01/21/22+	*06:02/33/37					SSP
810	Hamdi,Nuha	*08:10	*15:01		*03:01	*06:02	*01:02	*06:01			SSO
4269	Hanau,Daniel	*08:10	*15:01		*03	*06					SSP,+SBT-DR
1461	Hidajat,M.	*08:10	*15:01	*01:01	*03:01	*06:02			*04:01		SSO,SSP
2344	Hurley/Hartz	*08:10	*15:01:01:01+		*03:01:01:01+	*06:02:02			*04:01:01:01/01:01:02/*126:01		SBT
771	Israel,Shosh	*08:10	*15:01		*03:01	*06:02					SSO,SSP
9003	Israel_LR	*08	*15		*03	*06					
794	Jaatinen,Tai	*08:10	*15:01	*01:01	*03:01/29	*06:02	*01:02	*06:01	*04:01/*126:01		SBT,SSO,SSP
859	Kamoun,Malek	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01		SBT,SSO,SSP
13	Kapoor/Park	*08:10	*15:01	*01:01	*03:01	*06:02					SSP
797	Kato,Shunich	*08:10	*15:01		*03:01/27/28+	*06:02	*01:02	*06:01			SSO,+SBT-DR
4337	Kim,Tai-Gyu	*08:10	*15:01		*03:01	*06:02:02			*04:01/*126:01	*04:01/*126:01	SBT
1694	Kissel&Hess	*08:10	*15:01		*03:01	*06:02					SSP
168	Klein,Tirza	*08:10	*15:01		*03:01	*06:02					SSO,SSP
9000	Klein_LR	*08	*15		*03	*06					SSO,SSP
87	Land,Geoffre	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01	*04:01	SBT,SSO,SSP
725	Lardy,N,M.	*08	*15	*+	*03	*06	*01	*06			SSO,SSP
278	Lee,Jar-How	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01		SSP,RVSSOP
5096	Lee,Sun-Ah	*08	*15								SSO
640	Lee,Young K	*08:10	*15:01		*03:01:01G	*06:02	*01:02:01	*06:01:01			P-SBT
6649	Lim,Young Ae	*08	*15	*+							SSP
274	Lo,Raymundo	*08:10	*15		*03	*06:02	*01:02	*06:01	*04:01	*04:01	SSO
731	Loewenthal,R	*08:10	*15:01:01		*03	*06:02					SBT,SSO
759	Lopez-Cepero	*08:10	*15:01/13/16+	*01:01	*03:01/27/28+	*06:02	*01:02	*06:01	*04:01		RVSSO
23	Mah,Helen	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01	*04:01	SSO
8029	Mani,Rama	*08	*15	*+							SSP
206	McAlack-Hana	*08:10	*15	*01	*03:01	*06:02					RVSSOP
8042	Muncher,Lior	*08:10	*15:01		*03:01	*06:02					SSOP,SSP
9001	Muncher_LR	*08	*15		*03	*06					SSOP,SSP
3966	Permpikul&Ve	*08:10	*15:01	*01:01	*03:01	*06:02					P-SSP
2400	Phelan,Donna	*08:10	*15:01	*01	*03:01	*06:02	*01:02	*06:01	*04:01		RSSO,SBT,SSP

B-CELL LINE Ter 468

CTR	DIRNAME	DRB1	DRB1X	DRB5	DQB1	DQB1X	DQA1	DQA1X	DPB1	DPB1	METHOD
8001	Rao,Prakash	*08:10	*15:01/46/51+	*01:01	*03:01/27-29+	*06:02	*01:02	*06:01	*04:01		RVSSO,SSP
3753	Reed,Elaine	*08:10	*15:01	*01:01/14	*03:01/29	*06:02	*01:02	*06:01			SBT,RSSO
3798	Reinsmoen,N	*08:10	*15:01	*01:01	*03:01/27-29+	*06:02	*01:02	*06:01	*04:01		RVSSO,SBT
3519	Renac,Virgi	*08:10	*15:01	*01:01	*03:01/29	*06:02:02	*01:02	*06:01	*04:01		SBT,P-SSP
1160	Rosen-Bronso	*08:10	*15:01	*01:01	*03:01	*06:02					SSP,SBT
793	Rubocki,Rona	*08	*15	*+	*03(DQ7)	*06			*04:01		SSP
4251	Schiller,J	*08:10	*15:01	*01:01	*03:01/29	*06:02	*01	*06	*04:01	*04:01	P-RVSSO,SBT
8068	Shanmugam,He	*08	*15	*01	*03	*06					P-SSP
746	Stamm,Luz	*08:10	*15:01	*01	*03:01	*06:02	*01:02	*06:01	*04:01		SSO,SSP,SBT
747	Tiercy,Jean-	*08:10	*15:01	*01:01:01	*03:01	*06:02:02	*01:02	*06:01	*04:01:01		
5451	Tilanus,Marc	*08:10	*15:01	*01:01:01	*03:01:01	*06:02:02	*01:02:01	*06:01:01	*04:01:01		SBT
4021	Trachtenberg	*08:10	*15	*01	*03	*06:02	*01:02	*06:01			SSO
5462	Turner,E.V.	*08:10	*15:01	*01:01	*03:01/27/29+	*06:02			*04:01/*120:01N		SSO,SBT,SSP
5642	Varnavidou-N	*08:10	*15:01/33/35+		*03:01/21/22+	*06:02/33/37					P-SSP
3511	Zeevi,Adrian	*08:10	*15:01	*01:01	*03:01	*06:02	*01:02	*06:01	*04:01		RVSSOP,SSP

CTR	DIRNAME	DR8	DR15	DR51	DQ7	DQ1	OTH1	OTH2
910	Hahn,Amy B.	+	+	+	+	+		
54	Pancoska,Car	+	+	+	+	+	DR52	
793	Rubocki,Rona	+	+	+	+	DQ6		
8063	Shai,Isaac	+	+	+	+	DQ6	DR13,DR52	

B-CELL LINE Ter 468 (Caucasian)

72 DNA LABS

72 LABS REPORTING DRB1	
DRB1*08	18%
DRB1*08:10	82%
DRB1*08	100% TOTAL
DRB1*15	33%
DRB1*15:01	67%
DRB1*15	100% TOTAL

69 LABS REPORTING DQB1	
DQB1*03	43%
DQB1*03:01/29	10%
DQB1*03:01	43%
DQB1*03:01:01G	2%
DQB1*03:16	2%
DQB1*03	100% TOTAL
DQB1*06	22%
DQB1*06:02	67%
DQB1*06:02:02	11%
DQB1*06	100% TOTAL

33 LABS REPORTING DQA1	
DQA1*01	6%
DQA1*01:02	94%
DQA1*01	100% TOTAL
DQA1*06	9%
DQA1*06:01	91%
DQA1*06	100% TOTAL

45 LABS REPORTING DRB5	
DRB5*+	15%
DRB5*01:01	67%
DRB5*01	18%

28 LABS REPORTING DPB1	
DPB1*04	7%
DPB1*04:01/*126:01	11%
DPB1*04:01	71%
DPB1*04:01:01	11%
DPB1*04	100% TOTAL

4 SEROLOGY LABS

DR8	100%
DR15	100%
DR51	100%

DQ7	100%
DQ1	50%
DQ6	50%
DQ1	100% TOTAL

CTR	INVESTIGATOR NAME	DNA EXTRACT #541 (Asian) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*24:02	*24:10	*07:02:01/61	*35:30	*04	*07	RSSO,SBT,SSP
4691	Ajlan,Abdula	*24	*24	*07	*35	*04	*07	SSO
2332	Al-Awwami,Mo	*24		*07	*35	*04	*07	SSP
5133	Baker,Judy	*24:02	*24:10	*07:02/61	*35:30	*04:01/09N/30/82	*07:02/50	
4345	Blasczyk,Rai	*24:02:01G	*24:10	*07:02:01G	*35:30	*04:01:01G	*07:02P	PCR-SBT
785	Chan,Soh Ha	*24:02/03/09N/11N+	*24:10/33/46	*07:02/33/35/42+	*35:30	*04:01/04/09N/28+	*07:02/08/37/50+	SBT
9916	Charlton,Ron	*24:02/03	*24:10/46	*07:02:01	*35:30	*04:01:01:01	*07:02:01	SSP,SBT
3224	Chen,Dongfen	*24:02	*24:10	*07:02/61	*35:30	*04:01/09N/30/82	*07:02/50	SBT,SSP
8021	Clark,Brenda	*24:02+		*07:02/04/10+	*35:05/13/17+	*04:01:01-01:04+	*07:02/03/10+	PCR-SSP
1108	Clark,Traci	*24	*24	*07	*35	*04	*07	RSSOP
5219	Daniel,Dolly	*24	*24	*07	*35			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*24:02	*24:10	*07:02/29/61	*35:30	*04	*07	PCR-SSP
3766	Dunn,Paul	*24	*24:10	*07	*35	*04	*07	PCR-SSO
3135	Enczmann,J.	*24:02	*24:10	*07:02	*35:30	*04:01/09N/30	*07:02	PCR-SSO,SBT
8038	Fernandez-V	*24:02	*24:10	*07:02/61	*35:30	*04:01/30/82	*07:02/50	SSO,SBT
762	Fischer&Mayr	*24:02/09N/11N/40N+	*24:10	*07:02/44/49N/58+	*35:30	*04:01/09N/28/30+	*07:02/50/66/74	SSO,SSP,SBT
4079	Fort,Marylis	*24:02/142/145-156+	*24:10	*07:02/119-121+	*35:30	*04:01/09N/28/30+	*07:02/50/66/74+	RSSO,SSP
1461	Hidajat,Mela	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SSO,SSP,SBT
615	Holdsworth,R	*24:02:01G	*24:10	*07:02:01G	*35:30	*04:01:01G	*07:02:01G	SBT,SSO
745	Holman,Richa	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SSO,SSP,SBT
2344	Hurley&Hartz	*24:02:01:01+	*24:10	*07:02:01/02:06+	*35:30	*04:01:01:01+	*07:02:01:01+	SBT,SSOP
794	Jaatinen,Tai	*24:02	*24:10	*07:02/61	*35:30	*04:01/30/82	*07:02/50	SBT,SSO,SSP
13	Kapoor/Park	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SSP
797	Kato,Shunich	*24:02	*24:10	*07:02/61	*35:30	*04:01/09N/30	*07:02/50	SSO,SBT
2847	Kihara,Masaa	*24	*24	*07	*35	*04	*07	RSSO
1694	Kissel&Hess	*24		*07	*35	*04	*07	SSP
87	Land,Geoff	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SBT,SSO,SSP
278	Lee,Jar-How	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SSP,RSSOP
640	Lee,Kyung Wh	*24:02/03	*24:10/46	*07:02/61	*35:30	*04:01/09N/30+	*07:02/50	PCR-SBT
5096	Lee,Sun-Ah	*24	*24	*07	*35			SSOP
8042	Muncher,Lior	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	SSO,SSP
9001	Muncher_LR	*24		*07	*35	*04	*07	SSO
3966	Permpikul&Ve	*24		*07	*35	*04	*07	PCR-SSP
2400	Phelan,Donna	*24:02	*24:10	*07:02/61	*35:30	*04:01:01G	*07:02/50	RSSO,SBT,SSP
3753	Reed,Elaine	*24:02/03	*24:10/46	*07:02/61	*35:30	*04:01/04/07/09N+	*07:02/37/50/76+	SBT
3798	Reinsmoen,N	*24:02/02L	*24:10	*07:02:01/61	*35:30	*04:01/09N/30/82	*07:02:01/50	P-SSP,SSO,SBT
4251	Schiller,J	*24:02P	*24:10	*07:02P	*35:30	*04:01/82	*07:02/50	PCR-RSSO,SBT
3545	Scornik,Juan	*24:02	*24:10	*07:02/61	*35:30	*04:01/09N/30/82	*07:02/50	SSOP,SBT
8068	Shanmugam,He	*24	*24	*07	*35	*04	*07	PCR-SSP
746	Stamm,Luz	*24:02	*24:10	*07:02	*35:30	*04:01	*07:02	RSSO,SSP,SBT
4021	Trachtenberg	*24	*24:10	*07	*35	*04	*07	SSO,SSP
5462	Turner,E.V.	*24:02/03	*24:10/46	*07:02/61	*35:30	*04:01:01	*07:02:01	SEQ,SSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #542 (Caucasian) A1		B1	B2	C1	C2	method
5488	Adams,Sharon	*02:01/24:01/237	*03:01/05/17	*07:02:01/61	*35:41	*04	*07	RSSO,SBT,SSP
4691	Ajlan,Abdula	*02	*03	*07	*35	*04	*07	SSO
2332	Al-Awwami,Mo	*02	*03	*07	*35	*04	*07	SSP
5133	Baker,Judy	*02:01	*03:01	*07:02/61	*35:41	*04:01/09N/30/82	*07:02/50	
4345	Blasczyk,Rai	*02:01:01G	*03:01:01G	*07:02:01G	*35:41	*04:01:01G	*07:02P	PCR-SBT
785	Chan,Soh Ha	*02	*03	*07:02/33/35/42+	*35:41	*04	*07	SBT
9916	Charlton,Ron	*02:01	*03:01	*07:02:01	*35:41	*04:01:01	*07:02:01	SSP,SBT
3224	Chen,Dongfen	*02:01	*03:01	*07:02/61	*35:41	*04:01/09N/30/82	*07:02/50	SBT,SSP
8021	Clark,Brenda	*02:01:01-01:04+	*03:01-04/07+	*07:02/04/10+	*35:01-04:01+	*04:01:01-01:04+	*07:02/03/10+	PCR-SSP
1108	Clark,Traci	*02	*03	*07	*35	*04	*07	RSSOP
5219	Daniel,Dolly	*02	*03	*07	*35			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*02:01	*03	*07:02/29/61	*35:41	*04	*07	PCR-SSP
3766	Dunn,Paul	*02	*03	*07	*35	*04	*07	PCR-SSO
3135	Enczmann,J.	*02:01/01L	*03:01	*07:02	*35:41	*04:01/09N/30	*07:02	PCR-SSO,SBT
8038	Fernandez-V	*02:01:01/01:01L	*03:01/01N	*07:02/61	*35:41	*04:01/30/82	*07:02/50	SSO,SBT
762	Fischer&Mayr	*02:01/01L/09/43N+	*03:01/01N/20+	*07:02/44/49N+	*35:41	*04:01/09N/28/30+	*07:02/50/66+	SSO,SSP,SBT
4079	Fort,Marylis	*02	*03	*07	*35	*04	*07	RSSO,SSP
1461	Hidajat,Mela	*02:01	*03:01	*07:02	*35:41	*04:01	*07:02	SSO,SSP,SBT
615	Holdsworth,R	*02:01:01G	*03:01:01G	*07:02:01G	*35:41	*04:01:01G	*07:02:01G	SBT,SSO
745	Holman,Richa	*02:01	*03:01	*07:02:01	*35:41	*04:01	*07:02	SSO,SSP,SBT
2344	Hurley&Hartz	*02:01:01:01+	*03:01:01:01+	*07:02:01/02:06+	*35:41	*04:01:01:01+	*07:02:01:01+	SBT,SSOP
794	Jaatinen,Tai	*02:01	*03:01	*07:02/61	*35:41	*04:01/30/82	*07:02/50	SBT,SSO,SSP
13	Kapoor/Park	*02:01	*03:01	*07:02	*35:41	*04:01	*07:02	SSP
797	Kato,Shunich	*02:01/01L	*03:01/01N	*07:02/61	*35:41	*04:01/09N/30	*07:02/50	SSO,SBT
2847	Kihara,Masaa	*02	*03	*07	*35	*04	*07	RSSO
1694	Kissel&Hess	*02	*03	*07	*35	*04	*07	SSP
87	Land,Geoff	*02:01	*03:01	*07:02	*35:41	*04:01	*07:02	SBT,SSO,SSP
278	Lee,Jar-How	*02:01	*03:01	*07:02	*35:41	*04:01	*07:02	SSP,RSSOP
640	Lee,Kyung Wh	*02:01	*03:01	*07:02/61	*35:41	*04:01/09N/30+	*07:02/50	PCR-SBT
5096	Lee,Sun-Ah	*02	*03	*07	*35			SSOP
8042	Muncher,Lior	*02:01	*03:01:12	*07:02	*35:41	*04:01	*07:02	SSO,SSP
9001	Muncher_LR	*02	*03	*07	*35	*04	*07	SSO
3966	Permpikul&Ve	*02	*03	*07	*35	*04	*07	PCR-SSP
2400	Phelan,Donna	*02:01	*03:01/01N	*07:02/61	*35:41	*04:01:01G	*07:02/50	RSSO,SBT,SSP
3753	Reed,Elaine	*02:01/24/26/34+	*03:01/05/07-09+	*07:02/61	*35:41	*04:01/04/07/09N+	*07:02/37/50+	SBT
3798	Reinsmoen,N	*02:01:01/01:01L	*03:01:01/01:01N	*07:02:01/61	*35:41	*04:01/09N/30/82	*07:02:01/50	P-SSP,SSO,SBT
4251	Schiller,J	*02:01P	*03:01/01N	*07:02P	*35:41	*04:01P	*07:02:01G	PCR-RSSO,SBT
3545	Scornik,Juan	*02:01	*03:01/01N	*07:02/61	*35:41	*04:01/09N/30/82	*07:02/50	SSOP,SBT
8068	Shanmugam,He	*02	*03	*07	*35	*04	*07	PCR-SSP
746	Stamm,Luz	*02:01	*03:01	*07:02	*35:41	*04:01	*07:02	RSSO,SSP,SBT
4021	Trachtenberg	*02	*03	*07	*35	*04	*07	SSO,SSP
5462	Turner,E.V.	*02:01	*03:01	*07:02/61	*35:41	*04:01:01	*07:02:01	SEQ,SSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #543 (Hispanic) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*02:01:01		*35:23	*51:02:01	*04	*08	RSSO,SBT,SSP
4691	Ajlan,Abdula	*02	*02	*35	*51	*04	*08	SSO
2332	Al-Awwami,Mo	*02		*35	*51	*04	*08	SSP
5133	Baker,Judy	*02:01		*35:23	*51:02	*04:01/09N/30/82	*08:01/22	
4345	Blasczyk,Rai	*02:01:01G		*35:23	*51:02:01	*04:01:01G	*08:01P	PCR-SBT
785	Chan,Soh Ha	*02		*35:23	*51:02	*04:01/09N/10/26+	*08:01/10/20-22+	SBT
9916	Charlton,Ron	*02:01:01		*35:23	*51:02:01	*04:01:01:01	*08:01:01	SSP,SBT
3224	Chen,Dongfen	*02:01		*35:23	*51:02	*04:01/09N/30/82	*08:01/22	SBT,SSP
8021	Clark,Brenda	*02:01-05+		*35:05/13/17/23+	*51:02:01-01:03+	*04:01:01-01:04+	*08:01/03/06+	PCR-SSP
1108	Clark,Traci	*02	*02	*35	*51	*04	*08	RSSOP
5219	Daniel,Dolly	*02	*02	*35	*51			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*02	*02	*35:23	*51:02	*04	*08	PCR-SSP
3766	Dunn,Paul	*02		*35	*51:02/70	*04	*08	PCR-SSO
3135	Enczmann,J.	*02:01/01L		*35:23	*51:02	*04:01/09N/30	*08:01	PCR-SSO,SBT
8038	Fernandez-V	*02:01:01/01:01L		*35:23	*51:02:01	*04:01/30/82	*08:01/22	SSO,SBT
762	Fischer&Mayr	*02:01/01L/09/43N/66/75/83N/89+		*35:23	*51:02	*04:01/09N/28/30+	*08:01/20/22/24	SSO,SSP,SBT
4079	Fort,Marylis	*02:01	*02:01/101/200+	*35:23	*51:02	*04:01/09N/28/30+	*08:01/20/22/24+	RSSO,SSP
1461	Hidajat,Mela	*02:01		*35:23	*51:02	*04:01	*08:01	SSO,SSP,SBT
615	Holdsworth,R	*02:01:01G		*35:23	*51:02	*04:01:01G	*08:01:01G	SBT,SSO
745	Holman,Richa	*02:01:01		*35:23	*51:02:01	*04:01/82	*08:01:01	SSO,SSP,SBT
2344	Hurley&Hartz	*02:01:01:01+	*02:01:01:01+	*35:23	*51:02:01	*04:01:01:01+	*08:01:01/01:02+	SBT,SSOP
794	Jaatinen,Tai	*02:01		*35:23	*51:02	*04:01/30/82	*08:01/22	SBT,SSO,SSP
13	Kapoor/Park	*02:01		*35:23	*51:02	*04:01	*08:01	SSP
797	Kato,Shunich	*02:01/01L		*35:23	*51:02	*04:01/09N/30	*08:01/22	SSO,SBT
2847	Kihara,Masaa	*02		*35	*51	*04	*08	RSSO
1694	Kissel&Hess	*02		*35	*51	*04	*08	SSP
87	Land,Geoff	*02:01	*02:01	*35:23	*51:02	*04:01	*08:01	SBT,SSO,SSP
278	Lee,Jar-How	*02:01		*35:23	*51:02	*04:01	*08:01	SSP,RSSOP
640	Lee,Kyung Wh	*02:01		*35:23	*51:02	*04:01/09N/30+	*08:01/22	PCR-SBT
5096	Lee,Sun-Ah	*02	*02	*35	*51			SSOP
8042	Muncher,Lior	*02:01		*35:23	*51:02	*04:01	*08:01	SSO,SSP
9001	Muncher_LR	*02		*35	*51	*04	*08	SSO
3966	Permpikul&Ve	*02		*35	*51	*04	*08	PCR-SSP
2400	Phelan,Donna	*02:01		*35:23	*51:02	*04:01:01G	*08:01:01G	RSSO,SBT,SSP
3753	Reed,Elaine	*02:01	*02:01	*35:23	*51:02	*04:01/09N/10/29+	*08:01/10/21/22	SBT
3798	Reinsmoen,N	*02:01:01/01:01L		*35:23	*51:02:01	*04:01/09N/30/82	*08:01:01/22	P-SSP,SSO,SBT
4251	Schiller,J	*02:01P	*02:01P	*35:23	*51:02	*04:01P	*08:01:01G	PCR-RSSO,SBT
3545	Scornik,Juan	*02:01		*35:23	*51:02	*04:01/09N/30/82	*08:01/22	SSOP,SBT
8068	Shanmugam,He	*02	*02	*35	*51	*04	*08	PCR-SSP
746	Stamm,Luz	*02:01		*35:23	*51:02	*04:01	*08:01	RSSO,SSP,SBT
4021	Trachtenberg	*02		*35	*51:02	*04	*08	SSO,SSP
5462	Turner,E.V.	*02:01:01		*35:23	*51:02:01	*04:01:01	*08:01:01	SEQ,SSO

CTR	INVESTIGATOR NAME	DNA EXTRACT #544 (Hispanic) A1	A2	B1	B2	C1	C2	method
5488	Adams,Sharon	*02:01:01/40/243	*31:01:02/21/41	*35:16	*39:02:02	*04	*07	RSSO,SBT,SSP
4691	Ajlan,Abdula	*02	*31	*35	*39	*04	*07	SSO
2332	Al-Awwami,Mo	*02	*31	*35	*39	*04	*07	SSP
5133	Baker,Judy	*02:01	*31:01	*35:16	*39:02	*04:01/09N/30/82	*07:02/50	
4345	Blasczyk,Rai	*02:01:01G	*31:01:02G	*35:16	*39:02:02	*04:01:01G	*07:02P	PCR-SBT
785	Chan,Soh Ha	*02	*31:01/02/14N/23	*35:16	*39:02	*04:01/04/09N/26+	*07:02/37/50+	SBT
9916	Charlton,Ron	*02:01:01:01	*31:01:02	*35:16	*39:02:02	*04:01:01:01	*07:02:01:01	SSP,SBT
3224	Chen,Dongfen	*02:01	*31:01	*35:16	*39:02	*04:01/09N/30/82	*07:02/50	SBT,SSP
8021	Clark,Brenda	*02:01:01-01:04+	*31:01/02/05-07+	*35:10/13/16+	*39:02/08/13/23	*04:01:01-01:04+	*07:02/03/10+	PCR-SSP
1108	Clark,Traci	*02	*31	*35	*39	*04	*07	RSSOP
5219	Daniel,Dolly	*02	*31	*35	*39			PCR-SSP,SSOP
5323	Dhaliwal,J.S	*02		*35:16	*39:02	*04	*07	PCR-SSP
3766	Dunn,Paul	*02	*31	*35:16	*39:02/13/23	*04	*07	PCR-SSO
3135	Enczmann,J.	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N/30	*07:02	PCR-SSO,SBT
8038	Fernandez-V	*02:01:01/01:01L	*31:01:02	*35:16	*39:02:02	*04:01/30/82	*07:02/50	SSO,SBT
762	Fischer&Mayr	*02:01/01L/09/43N+	*31:01/14N/23	*35:16	*39:02	*04:01/09N/28/30+	*07:02/50/66/74	SSO,SSP,SBT
4079	Fort,Marylis	*02	*31	*35:16	*39:02/13/23	*04	*07	RSSO,SSP
1461	Hidajat,Mela	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSO,SSP,SBT
615	Holdsworth,R	*02:01:01G	*31:01:02G	*35:16	*39:02	*04:01:01G	*07:02:01G	SBT,SSO
745	Holman,Richa	*02:01:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSO,SSP,SBT
2344	Hurley&Hartz	*02:01:01:01+	*31:01:02/14N/23+	*35:16	*39:02:02	*04:01:01:01+	*07:02:01:01+	SBT,SSOP
794	Jaatinen,Tai	*02:01	*31:01	*35:16	*39:02	*04:01/30/82	*07:02/50	SBT,SSO,SSP
13	Kapoor/Park	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSP
797	Kato,Shunich	*02:01/01L	*31:01	*35:16	*39:02	*04:01/09N/30	*07:02/50	SSO,SBT
2847	Kihara,Masaa	*02	*31	*35	*39	*04	*07	RSSO
1694	Kissel&Hess	*02	*31	*35	*39	*04	*07	SSP
87	Land,Geoff	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SBT,SSP,SSO
278	Lee,Jar-How	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSP,RSSOP
640	Lee,Kyung Wh	*02:01	*31:01	*35:16	*39:02	*04:01/09N/30+	*07:02/50	PCR-SBT
5096	Lee,Sun-Ah	*02	*31	*35	*39			SSO
8042	Muncher,Lior	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	SSO,SSP
9001	Muncher_LR	*02	*31	*35	*39	*04	*07	SSO
3966	Permpikul&Ve	*02	*31	*35	*39	*04	*07	PCR-SSP
2400	Phelan,Donna	*02:01	*31:01	*35:16	*39:02	*04:01:01G	*07:02/50	RSSO,SBT,SSP
3753	Reed,Elaine	*02:01/20/40/243	*31:01/02/21/41	*35:16	*39:02	*04:01/04/07/09N+	*07:02/37/50+	SBT
3798	Reinsmoen,N	*02:01:01/01:01L	*31:01:02	*35:16	*39:02:02	*04:01/09N/30/82	*07:02:01/50	P-SSP,SSO,SBT
4251	Schiller,J	*02:01P	*31:01	*35:16	*39:02	*04:01P	*07:02:01G	PCR-RSSO,SBT
3545	Scornik,Juan	*02:01	*31:01	*35:16	*39:02:02	*04:01/09N/30/82	*07:02/50	SSOP,SBT
8068	Shanmugam,He	*02	*31	*35	*39	*04	*07	PCR-SSP
746	Stamm,Luz	*02:01	*31:01	*35:16	*39:02	*04:01	*07:02	RSSO,SSP,SBT
4021	Trachtenberg	*02	*31	*35	*39	*04	*07	SSO,SSP
5462	Turner,E.V.	*02:01:01	*31:01:02	*35:16	*39:02:02	*04:01:01	*07:02:01	SEQ,SSO

SUMMARY

Extract 541 (Asian)	
42 labs	
A*24	41%
A*24:02/03	9%
A*24:02	43%
A*24:02P	2%
A*24:02:01G	5%
A*24	100% TOTAL
A*24	28%
A*24:10/46	9%
A*24:10	62%
A*24	99% TOTAL

Extract 542 (Caucasian)	
42 labs	
A*02	45%
A*02:01	48%
A*02:01P	2%
A*02:01:01G	5%
A*02	100% TOTAL
A*03	48%
A*03:01	47%
A*03:01:01G	5%
A*03	100% TOTAL

Extract 543 (Hispanic)	
42 labs	
A*02	41%
A*02:01	43%
A*02:01:01	9%
A*02:01P	2%
A*02:01:01G	5%
A*02	100% TOTAL

Extract 544 (Hispanic)	
42 labs	
A*02	48%
A*02:01	38%
A*02:01:01	5%
A*02:01:01:01	2%
A*02:01P	2%
A*02:01:01G	5%
A*02	100% TOTAL
A*31	45%
A*31:01	38%
A*31:01:02	10%
A*31:01:02G	5%
A*31	98% TOTAL

42 labs	
B*07	43%
B*07:02/61	29%
B*07:02	19%
B*07:02:01	2%
B*07:02P	2%
B*07:02:01G	5%
B*07	100% TOTAL
B*35	31%
B*35:30	69%
B*35	100% TOTAL

42 labs	
B*07	43%
B*07:02/61	28%
B*07:02	17%
B*07:02:01	5%
B*07:02P	2%
B*07:02:01G	5%
B*07	100% TOTAL
B*35	33%
B*35:41	67%
B*35	100% TOTAL

42 labs	
B*35	31%
B*35:23	69%
B*35	100% TOTAL
B*51	29%
B*51:02	52%
B*51:02:01	19%
B*51	100% TOTAL

42 labs	
B*35	29%
B*35:16	71%
B*35	100% TOTAL
B*39	33%
B*39:02	48%
B*39:02:02	19%
B*39	100% TOTAL

40 labs	
C*04	48%
C*04:01/09N/30/82	10%
C*04:01/09N/30	5%
C*04:01/30/82	5%
C*04:01/82	3%
C*04:01	18%
C*04:01:01	2%
C*04:01:01:01	2%
C*04:01:01G	7%
	100% TOTAL
C*07	45%
C*07:02/50	25%
C*07:02	20%
C*07:02:01	5%
C*07:02P	2%
C*07:02:01G	3%
C*07	100% TOTAL

40 labs	
C*04	45%
C*04:01/09N/30/82	10%
C*04:01/09N/30	5%
C*04:01/30/82	5%
C*04:01/82	3%
C*04:01	18%
C*04:01:01	5%
C*04:01P	2%
C*04:01:01G	7%
C*04	100% TOTAL
C*07	45%
C*07:02/50	23%
C*07:02	20%
C*07:02:01	5%
C*07:02P	2%
C*07:02:01G	5%
C*07	100% TOTAL

40 labs	
C*04	47%
C*04:01/09N/30/82	10%
C*04:01/09N/30	5%
C*04:01/30/82	5%
C*04:01/82	3%
C*04:01	15%
C*04:01:01	3%
C*04:01:01:01	2%
C*04:01P	2%
C*04:01:01G	8%
C*04	100% TOTAL
C*08	43%
C*08:01/22	20%
C*08:01	20%
C*08:01:01	8%
C*08:01P	2%
C*08:01:01G	7%
C*08	100% TOTAL

40 labs	
C*04	48%
C*04:01/09N/30/82	10%
C*04:01/09N/30	5%
C*04:01/30/82	5%
C*04:01	18%
C*04:01:01	2%
C*04:01:01:01	2%
C*04:01P	2%
C*04:01:01G	8%
C*04	100% TOTAL
C*07	45%
C*07:02/50	23%
C*07:02	20%
C*07:02:01	3%
C*07:02:01:01	2%
C*07:02P	2%
C*07:02:01G	5%
C*07	100% TOTAL

CTR	INVESTIGATOR NAME	CELL NO.1453 (Asian) A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*02	*02	*54	*15:12	*01	*04	PCR-SSP
8075	Al-Baz,Nabe	*02		*54	*15	*01	*04	SSO
16	Askar,Medhat	*02:03:01		*54:01:01	*15:12	*01:02//*01:58	*04:03//*04:107	PCR-RSSOP,SBT
774	Cecka,J.Mich	*02:03/171/230/253/264/267/281		*54:01/13/17/19	*15:12	*01	*04:03	SSP
4492	Charron,D.	*02:03		*54:01	*15:12	*01:02	*04:03	PCR-SSO,SSP
798	Claas,F.H.J.	*02:03:01		*54:01:01	*15:12	*01:02:01	*04:03	SBT,SSP
3632	Colombe,Beth	*02:03		*54:01	*15:12	*01:02	*04:03	SSOP,SSP
5130	Costeas,Paul	*02:03		*54:01	*15:12	*01:02	*04:03	SSP
779	Daniel,Claud	*02:03		*54	*15:12/19	*01	*04	PCR-SSP
8052	Del Pozo,Ana	*02	*02	*54	*15:12/19	*01	*04:03	SSO
3766	Dunn,Paul	*02		*54	*15:12/19	*01	*04:03	
5214	Eckels/CPMC	*02	*02	*54	*15(B76)	*01	*04:03	SSOP
762	Fischer&Mayr	*02:03/253/264		*54:01/17	*15:12/19	*01:02/25	*04:03	SSO,SSP,SBT
792	Gandhi,Manis	*02:03		*54:01	*15:12	*01:02	*04:03	SSO,SSP
8043	Gideoni,Osna	*02:03		*54:01	*15:12	*01:02	*04:03	SSOP,SSP
9002	Gideoni_LR	*02		*54	*15	*01	*04	SSOP,SSP
4269	Hanau,Daniel	NT						
3808	Hogan,Patric	*02		*54	*15:12	*01	*04	
745	Holman,Richa	*02:03:01		*54:01:01	*15:12	*01:02:01	*04:03	SSO,SSP,SBT
771	Israel,Shosh	*02:03		*54:01	*15:12	*01:02	*04:03	PCR-SSP,SBT
9003	Israel_LR	*02		*54	*15	*01	*04	PCR-SSO
859	Kamoun,Malek	*02:03		*54:01	*15:12	*01:02	*04:03	SBT,SSO,SSP
4337	Kim,Tai-Gyu	*02:03/253/264	*02:03/253/264	*54:01/17	*15:12/19	*01:02/25/44	*04:03	SBT
9000	Klein_LR	*02		*54	*15	*01	*04	PCR-SSP,SSO
725	Lardy,N.M.	*02		*54	*15	*01	*04	SSO,SSP
278	Lee,Jar-How	*02:03/253/264		*54:01/17	*15:12	*01:02/25/40-42+	*04:03	SSP,RSSOP
6649	Lim,Young Ae	*02		*54	*15(B76)	*01	*04	SSP
274	Lo,Raymundo	*02	*02	*54:09	*15	*01	*04:71	SSO
731	Loewenthal,R	*02:03:01		*54:01:01	*15:12	*01:02	*04:03	SBT,SSO
759	Lopez-Cepero	*02:03/148/171		*54:01/02/07/13+	*15:12/19	*01:02/03/07/08+	*04:03	RSSO
23	Mah,Helen	*02:03	*02:03	*54:01	*15:12/19	*01:02	*04:03	
8029	Mani,Rama	*02		*54	*15			PCR-SSP
206	McAlack-Hana	*02:03	*02:03	*54	*15(B76)	*01	*04:03	RSSOP
8001	Rao,Prakash	*02		*54	*15:12/19	*01	*04	SSP,RSSOP
3625	Rees,Tracey	*02:03		*54:01	*15:12	*01:02	*04:03	PCR-SSP,SBT
5200	Reinke,Denni	*02		*54	*15(B76)	*01	*04	SSP
3519	Renac,Virgi	*02:03		*54:01	*15:12	*01:02	*04:03	SBT,PCR-SSP
1160	Rosen-Bronso	*02		*54:01	*15:12	*01:02	*04:03	SBT,SSP
793	Rubocki,Ron	*02		*54	*15(B76)	*01	*04	PCR-SSP
4251	Schiller,J	*02:03	*02:03	*54:01	*15:12	*01:02	*04:03	PCR-RSSO,SBT
747	Tiercy,Jean-	*02:03:01		*54:01:01	*15:12	*01:02:01/02:11	*04:03	RSSO,SSP,SBT
5451	Tilanus,Marc	*02:03:01		*54:01:01	*15:12	*01:02:01	*04:03	SBT
5462	Turner,E.V.	*02:03:01		*54:01:01	*15:12	*01:02:01/56	*04:03/107	SEQ,SSO
5642	Varnavidou-N	*02		*54	*15	*01	*04	PCR-SSP
3186	Watson,Narel	*02		*54	*15:12/19	*01	*04	

CTR	INVESTIGATOR NAME	CELL NO.1454 (Asian) A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*02	*31	*40:02	*15:12	*03:04	*04	PCR-SSP
8075	Al-Baz,Nabe	*02	*31	*40	*15	*03	*04	SSO
16	Askar,Medhat	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04:01//03:28	*04:03//04:06	PCR-RSSOP,SBT
774	Cecka,J.Mich	*02:03/26/171/230+	*31	*40	*15:12	*03	*04:03/16	SSP
4492	Charron,D.	*02:03/171	*31:01	*40:02	*15:12	*03:04	*04:03	PCR-SSO,SSP
798	Claas,F.H.J.	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04:01	*04:03	SBT,SSP
3632	Colombe,Beth	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	SSOP,SSP
5130	Costeas,Paul	*02:03	*31:01	*40:02	*15:12	*03:04/48	*04:03	SSP
779	Daniel,Claud	*02:03	*31	*40(B61)	*15:12/19	*03(Cw10)	*04	PCR-SSP
8052	Del Pozo,Ana	*02	*31	*40	*15:12/19	*03	*04:03/06	SSO
3766	Dunn,Paul	*02	*31	*40	*15:12/19	*03	*04:03/06	
5214	Eckels/CPMC	*02	*31	*40(B61)	*15(B76)	*03(Cw10)	*04	SSOP
762	Fischer&Mayr	*02:03/253/264	*31:01/14N/23	*40:02/56/97/144N	*15:12/19	*03:04	*04:03	SSO,SSP,SBT
792	Gandhi,Manis	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	SSO,SSP
8043	Gideoni,Osna	*02:03	*31:01	*40:02	*15:12/19	*03:04	*04:03	SSOP,SSP
9002	Gideoni_LR	*02	*31	*40	*15	*03	*04	SSOP,SSP
4269	Hanau,Daniel	NT						
3808	Hogan,Patric	*02	*31	*40	*15:12	*03	*04	
745	Holman,Richa	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04:01	*04:03	SSO,SSP,SBT
771	Israel,Shosh	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	PCR-SSP,SBT
9003	Israel_LR	*02	*31	*40	*15	*03	*04	PCR-SSO
859	Kamoun,Malek	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	SBT,SSO,SSP
4337	Kim,Tai-Gyu	*02:03/253/264	*31:01/14N/23+	*40:02/56/97/144N+	*15:12/19	*03:04/100/101+	*04:03	SBT
9000	Klein_LR	*02	*31	*40	*15	*03	*04	PCR-SSP,SSO
725	Lardy,N.M.	*02	*31	*40	*15	*03	*04	SSO,SSP
278	Lee,Jar-How	*02:03/253/264	*31:01/46/48	*40:02/56/97/104+	*15:12	*03:04/93/100/101+	*04:03	SSP,RSSOP
6649	Lim,Young Ae	*02	*31	*40(B61)	*15(B76)	*03	*04	SSP
274	Lo,Raymundo	*02	*31	*40	*15	*03	*04	SSO
731	Loewenthal,R	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04	*04:03	SBT,SSO
759	Lopez-Cepero	*02:03/148	*31:01/09/11/13+	*40:02/29/35/37+	*15:12/19	*03:04/06/09/19+	*04:03/06	RSSO
23	Mah,Helen	*02:03	*31:01	*40:02	*15:12/19	*03:04	*04:03	
8029	Mani,Rama	*02	*31	*40	*15			PCR-SSP
206	McAlack-Hana	*02:03	*31	*40(B61)	*15(B76)	*03(Cw10)	*04	RSSOP
8001	Rao,Prakash	*02	*31	*40:02	*15:12/19	*03:04/06/09	*04	SSP,RSSOP
3625	Rees,Tracey	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	PCR-SSP,SBT
5200	Reinke,Denni	*02	*31	*40(B61)	*15(B76)	*03(Cw10)	*04	SSP
3519	Renac,Virgi	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	SBT,PCR-SSP
1160	Rosen-Bronso	*02:03/171	*31:01/30	*40:02	*15:12	*03:04	*04:03	SBT,SSP
793	Rubocki,Ron	*02	*31	*40(B61)	*15(B76)	*03(Cw10)	*04	PCR-SSP
4251	Schiller,J	*02:03	*31:01	*40:02	*15:12	*03:04	*04:03	PCR-RSSO,SBT
747	Tiercy,Jean-	*02:03/253/264	*31:01/46	*40:02:01	*15:12	*03:04/105/106	*04:03	RSSO,SSP,SBT
5451	Tilanus,Marc	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04:01	*04:03	SBT
5462	Turner,E.V.	*02:03:01	*31:01:02	*40:02:01	*15:12	*03:04:01/32	*04:03/107	SEQ,SSO
5642	Varnavidou-N	*02	*31	*40	*15	*03	*04	PCR-SSP
3186	Watson,Narel	*02	*31	*40:02/29/35/37+	*15:12/19	*03	*04	

	INVESTIGATOR	CELL NO.1455 (Black)						
CTR	NAME	A1	A2	B1	B2	C1	C2	method
8070	Ahn,Jaeie	*33	*68	*53	*15:10	*03:04	*04	PCR-SSP
8075	Al-Baz,Nabe	*33	*68	*53	*15	*03	*04	SSO
16	Askar,Medhat	*33:03:01	*68:02:01	*53:01:01	*15:10:01	*03:04:02	*04:13	PCR-RSSOP,SBT
774	Cecka,J.Mich	*33	*68	*53	*15:10/99	*03	*04:13/58	SSP
4492	Charron,D.	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	PCR-SSO,SSP
798	Claas,F.H.J.	*33:03:01	*68:02:01	*53:01:01	*15:10:01	*03:04:02	*04:13	SBT,SSP
3632	Colombe,Beth	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SSOP,SSP
5130	Costeas,Paul	*33:03	*68:02	*53:01	*15:10	*03:04/48	*04:04/13	SSP
779	Daniel,Claud	*33	*68	*53	*15(B71)	*03(Cw10)	*04	PCR-SSP
8052	Del Pozo,Ana	*33	*68	*53:01/10/18/20	*15:10/90	*03	*04:13	SSO
3766	Dunn,Paul	*33	*68	*53:01/10/18/20	*15:10/90	*03	*04:13	
5214	Eckels/CPMC	*33	*68	*53	*15(B71)	*03(Cw10)	*04:13	SSOP
762	Fischer&Mayr	*33:03/15/25/31	*68:02	*53:01	*15:10	*03:04	*04:13	SSO,SSP,SBT
792	Gandhi,Manis	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SSO,SSP
8043	Gideoni,Osna	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SSOP,SSP
9002	Gideoni_LR	*33	*68	*53	*15	*03	*04	SSOP,SSP
4269	Hanau,Daniel	NT						
3808	Hogan,Patric	*33	*68	*53	*15:10/90/99	*03	*04	
745	Holman,Richa	*33:03:01	*68:02:01	*53:01:01	*15:10:01	*03:04	*04:13	SSO,SSP,SBT
771	Israel,Shosh	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	PCR-SSP,SBT
9003	Israel_LR	*33	*68	*53	*15	*03	*04	PCR-SSO
859	Kamoun,Malek	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SBT,SSO,SSP
4337	Kim,Tai-Gyu	*33:03/15/25/31/39+	*68:02	*53:01	*15:10	*03:04/100/101+	*04:13	SBT
9000	Klein_LR	*33	*68	*53	*15	*03	*04	PCR-SSP,SSO
725	Lardy,N.M.	*33	*68	*53	*15	*03	*04	SSO,SSP
278	Lee,Jar-How	*33:03/25/31/39	*68:02	*53:01	*15:10	*03:04	*04:13	SSP,RSSOP
6649	Lim,Young Ae	*33	*66	*51	*15(B71)	*03	*04	SSP
274	Lo,Raymundo	*33	*68	*53	*15:29	*03	*04:13	SSO
731	Loewenthal,R	*33	*68	*53	*15:10	*03	*04	SBT,SSO
759	Lopez-Cepero	*33:01/03-06+	*68:02/18N/34/44	*53:01/10/18/20	*15:10/90	*03:04/06/09/19+	*04:13	RSSO
23	Mah,Helen	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	
8029	Mani,Rama	*33	*68	*53	*15			PCR-SSP
206	McAlack-Hana	*33	*68	*53	*15(B71)	*03(Cw10)	*04:13	RSSOP
8001	Rao,Prakash	*33	*68	*53	*15:10/90	*03:04/06/09	*04	SSP,RSSOP
3625	Rees,Tracey	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	PCR-SSP,SBT
5200	Reinke,Denni	*33	*68	*53	*15(B70)	*03(Cw10)	*04	SSP
3519	Renac,Virgi	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SBT,PCR-SSP
1160	Rosen-Bronso	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	SBT,SSP
793	Rubocki,Ron	*33	*68	*53	*35	*03	*04	PCR-SSP
4251	Schiller,J	*33:03	*68:02	*53:01	*15:10	*03:04	*04:13	PCR-RSSO,SBT
747	Tiercy,Jean-	NT						
5451	Tilanus,Marc	*33:03:01	*68:02:01	*53:01:01	*15:10:01	*03:04:02	*04:13	SBT
5462	Turner,E.V.	*33:03:01	*68:02:01	*53:01:01	*15:10:01	*03:04:02	*04:13	SEQ,SSO
5642	Varnavidou-N	*33	*68	*53	*15	*03	*04	PCR-SSP
3186	Watson,Narel	*33	*68	*53	*15:10/90	*03	*04	

INVESTIGATOR	CELL NO.1456 (Caucasian)						
CTR NAME	A1	A2	B1	B2	C1	C2	method
8070 Ahn,Jaeie	*02	*66	*41	*15:01	*03:03	*17	PCR-SSP
8075 Al-Baz,Nabe	*02	*66			*03	*17	SSO
16 Askar,Medhat	*02:01:01	*66:01	*41:02:01	*15:01:01	*03:03:01/20N	*17:01:01/02/03	PCR-RSSOP,SBT
774 Cecka,J.Mich	*02	*66	*41:02/04/10+	*15	*03	*17	SSP
4492 Charron,D.	*02:01/97	*66:01	*41:02	*15:01	*03:03	*17:03	PCR-SSO,SSP
798 Claas,F.H.J.	*02:01:01	*66:01	*41:02:01	*15:01:01	*03:03:01	*17:03	SBT,SSP
3632 Colombe,Beth	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	SSOP,SSP
5130 Costeas,Paul	*02:01/157	*66:01	*41:02/13	*15:01	*03:03	*17:03	SSP
779 Daniel,Claud	*02	*66	*41	*15(B62)	*03(Cw9)	*17	PCR-SSP
8052 Del Pozo,Ana	*02	*66	*41:02/11/13	*15//*46	*03	*17:01-04	SSO
3766 Dunn,Paul	*02	*66	*41:02/11/13	*15	*03	*17	
5214 Eckels/CPMC	*02	*66	*41	*15(B62)	*03(Cw9)	*17	SSOP
762 Fischer&Mayr	*02:01/01L/09/43N+	*66:01/08	*41:02	*15:01/102/104/140+	*03:03/62	*17:03	SSO,SSP,SBT
792 Gandhi,Manis	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	SSO,SSP
8043 Gideoni,Osna	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	SSOP,SSP
9002 Gideoni_LR	*02	*66	*41	*15	*03	*17	SSOP,SSP
4269 Hanau,Daniel	NT						
3808 Hogan,Patric	*02	*66	*41	*15	*03	*17	
745 Holman,Richa	*02:01:01	*66:01	*41:02:01	*15:01:01:01	*03:03:01	*17:03	SSO,SSP,SBT
771 Israel,Shosh	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	PCR-SSP,SBT
9003 Israel_LR	*02	*66	*41	*15	*03	*17	PCR-SSO
859 Kamoun,Malek	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	SBT,SSO,SSP
4337 Kim,Tai-Gyu	*02:01	*66:01/08	*41:02	*15:01/102/104/146+	*03:03/20N/62	*17:01-03	SBT
9000 Klein_LR	*02	*66	*41	*15	*03	*17	PCR-SSP,SSO
725 Lardy,N.M.	*02	*66	*41	*15	*03	*17	SSO,SSP
278 Lee,Jar-How	*02:01	*66:01/08	*41:02	*15:01	*03:03/62	*17:03	SSP,RSSOP
6649 Lim,Young Ae	*02	*66	*41	*15(B62)	*03(Cw9)	*17	SSP
274 Lo,Raymundo	*02	*66	*54	*15	*03:47	*17	SSO
731 Loewenthal,R	*02:01	*66:01	*41:02:01	*15:01	*03:03:01	*17:01	SBT,SSO
759 Lopez-Cepero	*02:01/04/07/09+	*66:01/04/08+	*41:02/11	*15:01/01N/28/33+	*03:03/11/12+	*17:01-04	RSSO
23 Mah,Helen	*02:01:01G	*66:01	*41:02	*15:01	*03:03	*17:03	
8029 Mani,Rama	*02	*66	*41	*15			PCR-SSP
206 McAlack-Hana	*02	*66	*41	*15(B62)	*03(Cw9)	*17	RSSOP
8001 Rao,Prakash	*02	*66	*41	*15:01	*03:03	*17	SSP,RSSOP
3625 Rees,Tracey	*02:01	*66:01	*41:02	*15:01	*03	*17	PCR-SSP,SBT
5200 Reinke,Denni	*02	*66	*41	*15(B62)	*03(Cw9)	*17	SSP
3519 Renac,Virgi	*02:01	*66:01	*41:02	*15:01	*03:03	*17:03	SBT,PCR-SSP
1160 Rosen-Bronso	*02:01/35/245/323	*66:01/05/09	*41	*15:01/07	*03:03	*17:01-03	SBT,SSP
793 Rubocki,Ron	*02	*66	*41	*15(B62)	*03(Cw9)	*17	PCR-SSP
4251 Schiller,J	*02:01P	*66:01	*41:02	*15:01:01G	*03:03:01G	*17:01:01G	PCR-RSSO,SBT
747 Tiercy,Jean-	NT						
5451 Tilanus,Marc	*02:01:01	*66:01	*41:02:01	*15:01:01:01	*03:03:01	*17:03	SBT
5462 Turner,E.V.	*02:01:01	*66:01	*41:02:01	*15:01:01:01/01:01:02N	*03:03:01	*17:03	SEQ,SSO
5642 Varnavidou-N	*02	*66	*41	*15	*03	*17	PCR-SSP
3186 Watson,Narel	*02	*66	*41	*15:01/01N/28/33+	*03	*17	

Cell 1453 (Asian)

44 labs	
A*02	55%
A*02:03	29%
A*02:03:01	16%
A*02	100% TOTAL

44 labs	
B*54	55%
B*54:01	27%
B*54:01:01	16%
B*54:09	2%
B*54	100% TOTAL
B*15	30%
B*15:12/19	20%
B*15:12	50%
B*15	100% TOTAL

43 labs	
C*01	60%
C*01:02	33%
C*01:02:01	7%
C*01	100% TOTAL
C*04	37%
C*04:03	61%
C*04:71	2%
C*04	100% TOTAL

Cell 1454 (Asian)

44 labs	
A*02	59%
A*02:03	27%
A*02:03:01	14%
A*02	100% TOTAL
A*31	61%
A*31:01	25%
A*31:01:02	14%
A*31	100% TOTAL

44 labs	
B*40	52%
B*40:02	32%
B*40:02:01	16%
B*40	100% TOTAL
B*15	29%
B*15:12/19	23%
B*15:12	48%
B*15	100% TOTAL

43 labs	
C*03	60%
C*03:04	33%
C*03:04:01	7%
C*03	100% TOTAL
C*04	54%
C*04:03	46%
C*04	100% TOTAL

Cell 1455 (Black)

43 labs	
A*33	60%
A*33:03	28%
A*33:03:01	12%
A*33	100% TOTAL
A*68	51%
A*68:02	35%
A*68:02:01	12%
A*68	98% TOTAL

43 labs	
B*53	51%
B*53:01	35%
B*53:01:01	12%
B*53	98% TOTAL
B*15	32%
B*15:10/90	12%
B*15:10	40%
B*15:10:01	12%
B*15:29	2%
B*15	98% TOTAL

42 labs	
C*03	55%
C*03:04	36%
C*03:04:02	9%
C*03	100% TOTAL
C*04	41%
C*04:13	59%
C*04	100% TOTAL

Cell 1456 (Caucasian)

43 labs	
A*02	61%
A*02:01	23%
A*02:01:01	12%
A*02:01P	2%
A*02:01:01G	2%
A*02	100% TOTAL
A*66	61%
A*66:01	39%
A*66	100% TOTAL

42 labs	
B*41	52%
B*41:02	31%
B*41:02:01	14%
B*41	97% TOTAL
B*15	50%
B*15:01	33%
B*15:01:01	7%
B*15:01:01:01	5%
B*15:01:01G	2%
B*15	97% TOTAL

42 labs	
C*03	55%
C*03:03	29%
C*03:03:01	12%
C*03:03:01G	2%
C*03:47	2%
C*03	100% TOTAL
C*17	60%
C*17:01	2%
C*17:03	36%
C*17:01:01G	2%
C*17	100% TOTAL

		Cell No 1453 (Asian)								Cell No 1454 (Asian)									Cell No 1455 (Black)									Cell No 1456 (Caucasian)								
Investigator	Days Old	Viab %	A2	B54	B76	CW1	CW4	BW6	OTHERS	Viab %	A2	A31	B61	B76	CW3	CW4	BW6	OTHERS	Viab %	A33	A68	B53	B70	CW3	CW4	BW4	BW6	OTHERS	Viab %	A2	A66	B41	B62	CW3	CW17	BW6	OTHERS
Alonso, Anton	???	90	+	+	+	+				90	+	+	+	+	W10				90	+	+	+	B71	W10					90	+	+	+	+	W9			
Alvarez, Carr	3	90	+	B22	+			+	A3	80	+	+	+	+			+		90	+	+	+	B71			+	+		90	+	+	+	+			+	
Askar, Mednat	2	95	+	+		+	X6	+	B45>	95	+	+	B40		+	+	+	B15V	95	+	+	+	B71	+	+	+	+		95	+	6601	+	+	+	+	+	
Cecka, J. Mic	???	95	+	+	+			+		95	03	+	+	+			+		95	+	+	+	B71			+	+		95	+	+	+	+			+	
Charron, Domi	???	100	+	+	B15					100	+	+	B40	B15					100	+	+	+	B71						100	+	+	+	B15				
Claas, F.H.J.	6	90	+		+	+	03	+		90	+	+	+	+	+	03	+		90	+	+	+		+	+	+	+		90	+	+	+	+	+		+	
Dunk, Arthur	2	98	+	+	+	+	W6	+		98	+	+	+	+	+	W6	+		98	+	+	+	+	+	+	+	+		98	+	6601	+	+	+	+	+	
Dunn, Paul	???	95	+	+	+			+		95	+	+	+	+			+		95	+	+	+				+	+	B35	95	+	+	+	+			+	
Enczmann, J	???	95	+	+	+					95	+	+	+	+					95	+	+	+	B71						95	+	+	+	+				
Esteves Kondo	15	98	+	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	+	+	B71	+	+	+	+		98	+	+	+	+	W9	+	+	
Fort, Marylis	3	98	+	+	+			+		98	+	+	+	+			+		98	+	+	+	+			+	+		98	+	+	+	+			+	
Gideoni, Osna	???	95	+	+	B15	+				95	+	+	+	B15	+				95	+	+	+	+	+	+				95	+	+	+	+	+	+		
Hahn, Amy B.	???	99	+	+	+	+	W6	+		99	+	+	+	+	W10	W6	+		98	+	+	+	B71	W9	+	+	+		85	+	6601	+	+	W9	+	+	A26
Harville, Ter	2	95	+	+	+	+	+	+		95	+	+	+	+	W10	+	+		95	+	+	+	B71	W10	+	+	+		95	+	+	+	+	W10	+	+	
Hesse, Kissel	???	90	+	+	+	+	+			90	+	+	+	+	+	+			92	+	+	+	+	+	+				92	+	+	+	+	+	+		
Hogan, Patric	9	70	+	+	+	+	+	+		50	+	+	+	+	+	+	+		50	+	+	+	+	+	+	+	+		40	+	+	+	+	+	+	+	
Holdsworth, R	12	50	+	+	B15			+		50	+	+	+	B15			+		50	+	A28	+	+	+	+	+	+		50	+	+	+	+			+	
Holman, Richa	3	98	+	+	+					98	+	+	+	+					98	+	+	+	B71						98	+	+	+	+				
Hubbell, Char	3	95	+	+	+			+		95	+	+		+			+	B60	95	+	+	+	+				+		95	+	+	+	+			+	
Israel, Shosh	8	70	+	+	+	+	+	+		70	+	+	+	+	+		+		70	+	+	+	+	+		+	+		70	+	+	+	+	+	+	+	
Kapoor, Parkm	???	100	+	+	+	+	+	+		100	+	+	+	+	+	+	+		100	+	+	+	B71	+	+	+	+		100	+	+	+	+	+		+	
Klein, Tirza	???	75	+	+		+		+	B62>	80	+	+			+		+	B60>	70	+	+		B71	+	+		+	B35	80	+	+	+	+	+		+	
Kvam, Vonnett	???	97	+		B15	+	W6		B82	97	+	+	+	+	+	03			98	+	A28	+	B71	+	+				98	+	6601	+	+	+	+		
Loewenthal MD	7	80	+	+	+	+		+		80	+	+	+	+	+		+		80	+	+	+	B71	+		+	+		80	+	+	+	+	+	+	+	
Man, Helen	3	98	+	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	+	+	B71	+	+	+	+		98	+	6601	+	+	+	+	+	
McCluskey, Ja	13	65	+	+	B15			+		75	+	+	B40	B15	+	+	+		75	+	A28	+	+	+	+	+	+		75	+	+	+	B15	+	+	+	
Meyer, Pieter	???	75	+				+		B45>	70	+	+			+			B60>	75	+				+				A69>	90	+	+	+	+	+			CW7
Norin, Allen	3	98	+	+	+			+	A74	98	+	+	+	+			+		99	+	+	+				+	+	B35	99	+	+	+	+			+	
Pancoska, Car	2	97	+	+	+	+	+	+		98	+	+	+	+	W10	+	+		98	+	+	+	B71	W10	+	+	+		97	+	6601	+	+	W9	+	+	
Permpikul, Ve	6	90	03	+	+			+		90	03	+	+	+			+		90	+	+	+	+			+	+		NT								
Pollack, Mari	2	95	+	+		+	W6	+	B62	95	+	+	+		+	W6	+	B62	95	+	+	+	B71	+	+	+	+		95	+	+	+	+	+	+	+	
Rees, Tracey	7	80	+	+	+	+	03	+		70	+	+	+	+	+	03	+		90	+	+	+	B71	+	+	+	+	CW4S	60	+	+	+	+	+	+	+	
Renac, Virgin	???	99	+	B22	B15			+		99	+	+	B40	B15			+		99	+	A28	+	+			+	+		99	+	A10	+	B15			+	
Rosen-Bronson	3	90	+	+	+	+				90	+	+	+	+	+				90	+	+	+	+	+	+				90	+	+	+	+	+			
Rubocki, Rona	2	98	+	+	+	+	+	+		98	+	+	+	+	+	+	+		98	+	A28	+		+	+	+	+	B35	98	+	+	+	+	+	+	+	
Shai, Isaac	???	88	+		B15	+	+	+	A24>	91					+	+	+	B60>	86	+	A28	+	+	+		+	+	CW7	84	+	A10	+	+	+		+	B70>
Stamm, Luz	2	90	+	+	+	+	+			90	+	+	+	+	+	+			90	+	+	+	B71	+	+				90	+	+	+	+	+	+		
Stavropoulos,	3	99	+	+	+	+	+	+		99	+	+	+	+	+	+	+		99	+	A28	+	B71	+	+	+	+		99	+	+	+	+	+	+	+	
Tiercy, Jean-	6	85	+	+	+			+		85	+	+	+	+			+		NT										NT								
Tilanus, Marc	7	90	+	+	+			+		90	+	+	+	+			+		90	+	A28	+	+			+	+		90	+	+	+	+			+	
Varnavidou-Ni	???	98	+	+	+			+		98	+	+	B40	+			+		98	+	+	+	B71			+	+		98	+	+	+	+			+	
Vidan-Jeras,	6	90	+	+	+			+		90	+	+	+	+			+		90	+	+	+	B71			+	+		90	+	+	+	+			+	
Walter Reed N	???	95	+	+	+	+	W6			95	+	+	+	+	+				95	+	A28	+	+	+	+				95	+	+	+	+	+	+		
Watson, Narel	9	90	+	+	B15					80	+	+	B40	B15					90	+	A28	+						B15	80	+	A10	+	+				
Wisecarver, J	6	98	+	+	+			+		98	+	+	+	+			+		98	+	A28	+	+			+	+		98	+	+	+	+			+	

SUMMARY TABLE

(Asian) Cell 1453 (45 Samples Typed)	
A2	97.8%
A203	2.2%
	[100.0%]
B54	86.7%
B22	4.4%
	[91.1%]
B76	73.3%
B15	17.8%
	[91.1%]
CW1	55.6%
CW4	28.9%
C4X6	2.2%
CW6	11.1%
CW0403	4.4%
	[46.7%]
BW6	73.3%

Others Found	
B45	6.7%
B62	4.4%
B55	4.4%
B57	2.2%
B82	2.2%
A68	2.2%
A80	2.2%
A3	2.2%
A74	2.2%
B15V	2.2%
A24	2.2%

(Asian) Cell 1454 (45 Samples Typed)	
A2	93.3%
A203	4.4%
	[97.8%]
A31	97.8%
	[97.8%]
B61	77.8%
B40	13.3%
	[91.1%]
B76	75.6%
B15	13.3%
	[88.9%]
CW3	51.1%
CW10	8.9%
	[60.0%]
CW4	28.9%
CW6	6.7%
CW0403	6.7%
	[42.2%]
BW6	73.3%

Others Found	
B60	8.9%
B45	4.4%
A33	2.2%
B35	2.2%
A30	2.2%
B75	2.2%
B15V	2.2%
B62	2.2%

(Black) Cell 1455 (44 Samples Typed)	
A33	100.0%
	[100.0%]
A68	72.7%
A28	25.0%
	[97.7%]
B53	95.5%
B70	38.6%
B71	50.0%
	[88.6%]
CW3	54.5%
CW10	6.8%
CW9	2.3%
	[63.6%]
CW4	52.3%
	[52.3%]
BW4	68.2%
BW6	72.7%

Others Found	
B35	11.4%
B15	2.3%
A69	2.3%
CW7	2.3%
B46	2.3%
SHORT CW4	2.3%

(Caucasian) Cell 1456 (43 Samples Typed)	
A2	100.0%
	[100.0%]
A66	79.1%
A6601	14.0%
A10	7.0%
	[100.0%]
B41	100.0%
B62	93.0%
B15	7.0%
	[100.0%]
CW3	51.2%
CW10	2.3%
CW9	9.3%
	[62.8%]
CW17	46.5%
BW6	72.1%

Others Found	
CW7	4.7%
B70	2.3%
A26	2.3%