

CELL EXCHANGE #400

SEPTEMBER 28, 2017

Cells 1597-1600

The results for Cell Exchange #400 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11

-14 for each sample and individual serology results for each sample are listed in Table 15.

Cell 1597. The consensus type for this cell from an African American donor is A*03:01(A3)-A*30:01(A30)-B*41:02(B41)-B*42:02(B42)-C*17:01. This cell is the offspring of cell 1397, typed back in 2010. Parent and child share an A*30:01-B*42:02-C*17:01 haplotype. The other haplotype present in this cell, A*03:01-B*41:02-C*17:01, is observed in African Americans, with HF = 0.00123.

This cell was previously typed as cells 1468 (2012) and 1440 (2011). In this present retyping, A*03:01 (A*03:01:01), A*30:01 (A*30:01:01), B*41:02 (B*41:02:01), B*42:02, and C*17:01 (C*17:01:01) were all assigned in complete consensus by labs reporting at high resolution. By serology, A3 (100%), A30 (100%), B41 (100%), and B42 (93%) were well detected. Cw17 was assigned by 2 labs.

Cell 1598. The consensus type for this cell from a Hispanic donor is A*02:02(A2)-A*24:02(A24)-B*27:05(B27)-B*39:06(B39)-C*02:02(Cw2)-C*07:02(Cw7). Likely associations present in this cell are B*27:05-C*02:02 and B*39:06-C*07:02, observed commonly in Hispanics, with respective MFI = 0.00702 and 0.01982.

This cell was previously typed as cell 1540 (2015), cell 1325 (2008), and extract 500 (2010). In this present retyping, A*02:02, A*24:02, B*27:05, B*39:06, C*02:02, and C*07:02 were all reported in complete consensus, with 5 labs assigning A*02:02:01, A*24:02:01, B*27:05:02, and C*07:02:01. B*39:06:02 and C*02:02:02 were each assigned by 6 labs. By serology, A2, A24, B27, and B39 were each reported in complete consensus, while Cw2 and Cw7 were each reported by 47%.

Cell 1599. The consensus type for this cell from a Hispanic donor is A*02:06(A2)-A*23:01(A23)-B*39:08(B39)-B*53:01(B53)-C*06:02(Cw6)-C*07:02(Cw7). Likely associations present in this cell are B*53:01-C*06:02 and B*39:08-C*07:02, with respective frequencies of 0.00175 and 0.00176, in Hispanics.

A*02:06 and A*23:01 were each reported in complete consensus, with 5 labs assigning A*02:06:01 and 4 labs assigning A*23:01:01. A2 (100%) and A23 (100%) were assigned by serology. The B-locus types were reported as B*39:08 (100%) and B*53:01 (100%). B*53:01:01 was assigned by 5 labs. The antigens encoded by B*39:08 and B*53:01, were reported as B39 (69%) B53 (77%), respectively. Interestingly, the detection of B39 was lower in this cell compared to cell 1598. C*06:02 (100%) and C*07:02 (100%) were the reported C-locus types, with serology reporting Cw6 (46%) and Cw7 (39%).

Cell 1600. The consensus type for this cell from a donor of Korean descent is A*31:01(A31)-B*40:03(B61)-B*51:01(B51)-C*03:04(Cw3)-C*14:02. One likely association present is A*31:01-B*51:01-C*14:02, observed in Asian populations, with HF = 0.00567. The other likely association present is A*31:01-B*40:03-C*03:04, observed in a previous exchange cell, cell 1369, also from a Korean donor.

A*31:01 (100%) was reported as the sole A-locus type, with 4 labs assigning A*31:01:02. B*40:03, B*51:01, C*03:04, and C*14:02 were each assigned by 100% of labs reporting at high resolution. Serological results were reported as A31 (100%), B51 (92%), B61 (58%), and Cw3 (50%).



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Table 9. Summary of the 400th Cell Exchange (Cell #1597-1600)

DNA typing

Cell 1597	
23 low/16 high labs - A	%(n)
A*03:01:01:05	13(2)
A*03:01:01	25(4)
A*03:01	62(10)
A*03	100(23)
23 low/16 high labs - A	%(n)
A*30:01:01	38(6)
A*30:01	62(10)
A*30	100(23)
23 low/17 high labs - B	%(n)
B*41:02:01	35(6)
B*41:02	65(11)
B*41	96(22)
B*40	4(1)
23 low/17 high labs - B	%(n)
B*42:02:01:02	12(2)
B*42:02	88(15)
B*42	100(23)
22 low/14 high Labs - C	%(n)
C*17:01:01:02	21(3)
C*17:01:01	14(2)
C*17:01:01G	14(2)
C*17:01	50(7)
C*17	100(22)

Cell 1598	
23 low/16 high labs - A	%(n)
A*02:02:01:01	6 (1)
A*02:02:01	31(5)
A*02:02	63(10)
A*02	100(23)
23 low/14 high labs - A	%(n)
A*24:02:01:01	14(2)
A*24:02:01	21(3)
A*24:02:01G	7 (1)
A*24:02	57(8)
A*24	100(23)
23 low/16 high labs - B	%(n)
B*27:05:02	31(5)
B*27:05:02G	6 (1)
B*27:05	63(10)
B*27	100(23)
23 low/16 high labs - B	%(n)
B*39:06:02:02	6 (1)
B*39:06:02	31(5)
B*39:06	63(10)
B*39	100(23)
22 low/14 high Labs - C	%(n)
C*02:02:02:01	13(2)
C*02:02:02	29(4)
C*02:02	57(8)
C*02	100(22)
22 low/16 high Labs - C	%(n)
C*07:02:01:01	12(2)
C*07:02:01	19(3)
C*07:02:01G	19(3)
C*07:02	50(8)
C*07	100(22)

Cell 1599	
20 low/14 high labs - A	%(n)
A*02:06:01:01	21(3)
A*02:06:01	14(2)
A*02:06	64(9)
A*02	100(20)
20 low/13 high labs - A	%(n)
A*23:01:01	31(4)
A*23:01:01G	15(2)
A*23:01	54(7)
A*23	100(20)
18 low/17 high labs - B	%(n)
B*39:08	100(17)
B*39	94(17)
B*35	6 (1)
20 low/14 high labs - B	%(n)
B*53:01:01	36(5)
B*53:01	64(9)
B*53	95(19)
B*38	5 (1)
19 low/13 high Labs - C	%(n)
C*06:02:01:01	23(3)
C*06:02:01	8 (1)
C*06:02:01G	15(2)
C*06:02	53(7)
C*06	100(19)
19 low/14 high Labs - C	%(n)
C*07:02:01:01	14(2)
C*07:02:01	14(2)
C*07:02:01G	21(3)
C*07:02	50(7)
C*07	100(19)

Cell 1600	
21 low/15 high labs - A	%(n)
A*31:01:02:01	7 (1)
A*31:01:02	20(3)
A*31:01:02G	7 (1)
A*31:01	60(9)
A*31:04	7 (1)
A*31	100(21)
21 low/17 high labs - B	%(n)
B*40:03:01G	6 (1)
B*40:03	94(16)
B*40 (B61)	10 (2)
B*40	90(19)
21 low/14 high labs - B	%(n)
B*51:01:01	21(3)
B*51:01:01G	7 (1)
B*51:01P	7 (1)
B*51:01	64(9)
B*51	100(21)
20 low/16 high labs - C	%(n)
C*03:04:01:02	13(2)
C*03:04:01	19(3)
C*03:04:01G	6 (1)
C*03:04	62(10)
C*03 (Cw10)	11(2)
C*03	89(18)
20 low/14 high labs - C	%(n)
C*14:02:01:01	7 (1)
C*14:02:01	29(4)
C*14:02	64(9)
C*14	100(20)

Table 10. Summary of the 400th Cell Exchange (Cell #1597 - 1600)

Serological typing

(Black)	
Cell 1597	
(15 Samples Typed)	
A3	100.0%
	[100.0%]
A30	100.0%
	[100.0%]
B41	100.0%
B42	93.3%
Cw17	13.3%
Bw6	60.0%
Others Found	
Cw7	13.3%
B7	6.7%
Cw2	6.7%
B35	6.7%
A31	6.7%

(Hispanic)	
Cell 1598	
(15 Samples Typed)	
A2	100.0%
	[100.0%]
A24	100.0%
	[100.0%]
B27	100.0%
	[100.0%]
B39	100.0%
	[100.0%]
Cw2	46.7%
Cw7	46.7%
Bw4	53.3%
Bw6	60.0%
Others Found	
Cw5	6.7%

(Hispanic)	
Cell 1599	
(13 Samples Typed)	
A2	100.0%
	[100.0%]
A23	100.0%
	[100.0%]
B39	69.2%
B16	7.7%
	[76.9%]
B53	76.9%
Cw6	46.2%
	[46.2%]
Cw7	38.5%
Bw4	61.5%
Bw6	61.5%
Others Found	
B73	15.4%
B44	7.7%
B45	7.7%
Cw5	7.7%
B35	7.7%
B38	7.7%
B12	7.7%
Cw4	7.7%
B51	7.7%

(Korean)	
Cell 1600	
(12 Samples Typed)	
A31	100.0%
	[100.0%]
B61	58.3%
B40	50.0%
	[100.0%]
B5	16.7%
B51	91.7%
	[100.0%]
Cw3	50.0%
	[50.0%]
Bw4	58.3%
Bw6	58.3%
Others Found	
B48	8.3%

Table 11. Individual laboratory results for Cell #1597

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*03	*30	*41	*42	*17		*03:01	*30:01	*41:02	*42:02	*17:01		SSO NGS	
5133	Askar , Medhat							*03:01:01:05	*30:01:01	*41:02:01	*42:02:01:02	*17:01:01		NGS	
4492	Caillat-Zucman , S	*03	*30	*41	*42	*17	*17							SSP	
774	Cecka , J. Michael	*03	*30	*41	*42	*17				*41:02	*42:02			SSP SSO	B*41:10 B*41:13 B*41:16
8070	Chang , Uckjin							*03:01	*30:01	*41:02	*42:02	*17:01		SBT	
3632	Colombe , Beth W	*03	*30	*41	*42	*17		*03:01	*30:01	*41:02	*42:02	*17:01		SSP SSO	
779	Daniel , Claude	*03	*30	*41	*42	*17								SSO	
3766	Dunckley , Heath	*03	*30	*41	*42	*17								SSO	
5214	Eckels/CPMC ,	*03	*30	*41	*42	*17								SSO	
747	Ferrari-Lacraz , Sy	*03	*30	*41	*42	*17	*17	*03:01:01:05	*30:01:01	*41:02:01	*42:02	*17:01:01:02	*17:01:01:02	SSP SSO NGS	
762	Fischer , Gottfried							*03:01:01	*30:01:01	*41:02:01	*42:02	*17:01:01:02		NGS	
4079	Fort , Marylise	*03	*30	*41	*42	*17		*03:01	*30:01	*41:02	*42:02	NT		SSP SSO	A*03:26 A*03:154 B*41:10 B*41:13 B*41:16
8043	Gideoni , Osnat	*03	*30	*41	*42	*17	*17	*03:01	*30:01	*41:02	*42:02	*17:01	*17:01		
3545	Goldstein , Steven	*03	*30	*41	*42	*17		*03:01	*30:01	*41:02	*42:02	*17:01		SSP SSO SBT	C*17:02 C*17:03
810	Hamdi , Nuha	*03	*30	*40	*42	*17	*17							SSO	
3808	Hogan , Patrick	*03	*30	*41	*42	*17								SSP	
771	Israel , Shoshana	*03	*30	*41	*42	*17		*03:01	*30:01	*41:02	*42:02	*17:01		SSO SBT	
725	Lardy , N.M.	*03	*30	*41	*42	*17								SSO	
745	Latham , Katy							*03:01:01	*30:01:01	*41:02:01	*42:02	*17:01:01:02		SSP SBT NGS	
278	Lee , Jar-How	*03	*30	*41	*42	*17	*17	*03:01	*30:01	*41:02	*42:02	*17:01	*17:01		
6649	Lim , Young Ae	*03	*30	*41	*42									SSP	
731	Loewenthal , Ron	*03	*30	*41	*42	*17		*03:01:01	*30:01:01	*41:02:01	*42:02:01:02	*17:01:01G		SSP SSO SBT	
8001	Rao , Prakash	*03	*30	*41	*42	*17								SSP SSO	
3625	Rees , Tracey	*03	*30	*41	*42	*17	*17	*03:01	*30:01	*41:02	*42:02	NT	NT		
4251	Schiller , Jennifer	*03	*30	*41	*42	*17	*17	*03:01	*30:01	*41:02	*42:02	*17:01:01G	*17:01:01G	SSO SBT	
3186	Watson , Narelle	*03	*30	*41	*42	*17	*17								
16	Zhang , Aiwen	*03	*30	*41	*42	*17		*03:01:01	*30:01:01	*41:02:01	*42:02	*17:01:01		NGS	

Table 12. Individual laboratory results for Cell #1598

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSO NGS	
5133	Askar , Medhat							*02:02:01:01	*24:02:01	*27:05:02	*39:06:02:02	*02:02:02	*07:02:01:01	NGS	
4492	Caillat-Zucman , S	*02	*24	*27	*39	*02	*07							SSP	
774	Cecka , J. Michael	*02	*24	*27	*39	*02	*07	*02:02		*27:05	*39:06			SSP SSO	A*02:155 A*02:115 A*02:186 A*02:209 A*02:492 A*02:517 A*02:531 B*27:13 B*27:123
8070	Chang , Uckjin							*02:02	*24:02	*27:05	*39:06		*07:02	SBT	
3632	Colombe , Beth W	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSP SSO	
779	Daniel , Claude	*02	*24	*27	*39	*02	*07								
3766	Dunkley , Heather	*02	*24	*27	*39	*02	*07							SSO	
5214	Eckels/CPMC ,	*02	*24	*27	*39	*02	*07							SSO	
747	Ferrari-Lacraz , Sy	*02	*24	*27	*39	*02	*07	*02:02:01	*24:02:01	*27:05:02	*39:06:02	*02:02:02	*07:02:01	SSP SSO NGS	
762	Fischer , Gottfried							*02:02:01	*24:02:01:01	*27:05:02	*39:06:02	*02:02:02:01	*07:02:01:01	NGS	
4079	Fort , Marylise	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSP SSO	
8043	Gideoni , Osnat	*02	*24	*27	*39	*02	*07								
3545	Goldstein , Steven	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSP SSO SBT	B*27:13 C*07:50 C*07:349
810	Hamdi , Nuha	*02	*24	*27	*39	*02	*07							SSO	
3808	Hogan , Patrick	*02	*24	*27	*39	*02	*07						*07:02:01G	SSP	
771	Israel , Shoshana	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02	SSO SBT	
725	Lardy , N.M.	*02	*24	*27	*39	*02	*07							SSO	
745	Latham , Katy							*02:02:01	*24:02:01:01	*27:05:02	*39:06:02	*02:02:02:01	*07:02:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05	*39:06	*02:02	*07:02		
6649	Lim , Young Ae	*02	*24	*27	*39									SSP	
731	Loewenthal , Ron	*02	*24	*27	*39	*02	*07	*02:02:01	*24:02:01G	*27:05	*39:06:02	*02:02:02	*07:02:01G	SSP SSO SBT	
8001	Rao , Prakash	*02	*24	*27	*39	*02	*07							SSP SSO	
3625	Rees , Tracey	*02	*24	*27	*39	*02	*07	*02:02	NT	*27:05	*39:06	*02:02	*07:02		B*27:13
4251	Schiller , Jennifer	*02	*24	*27	*39	*02	*07	*02:02	*24:02	*27:05:02G	*39:06	*02:02	*07:02:01G	SSO SBT	
3186	Watson , Narelle	*02	*24	*27	*39	*02	*07								
16	Zhang , Aiwen	*02	*24	*27	*39	*02	*07	*02:02:01	*24:02:01	*27:05:02	*39:06:02	*02:02:02	*07:02:01	NGS	

Table 13. Individual laboratory results for Cell #1599

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02	SSO NGS	
5133	Askar , Medhat							*02:06:01:01	*23:01:01	*39:08	*53:01:01	*06:02:01:01	*07:02:01:01	NGS	
4492	Caillat-Zucman , S	*02	*23	*39	*53	*06	*07							SSP	
774	Cecka , J. Michael	*02	*23	*39	*53	*06	*07	*02:06		*39:08	*53:01			SSP SSO	A*02:278 A*02:290 A*02:328 A*02:330 A*02:333 A*02:404 A*02:405 A*02:428 A*02:471 A*02:472 A*02:476N A*02:493 A*02:506N B*53:32 B*53:37
8070	Chang , Uckjin							*02:06	*23:01	*39:08	*53:01	*06:02	*07:02	SBT	
3632	Colombe , Beth W	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02	SSP SSO	
779	Daniel , Claude	*02	*23	*39	*53	*06	*07			*39:08					
3766	Dunckley , Heather													SSO	
5214	Eckels/CPMC ,	*02	*23		*53	*06	*07			*39:08				SSO	
747	Ferrari-Lacraz , Sy	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762	Fischer , Gottfried							*02:06:01:01	*23:01:01	*39:08	*53:01:01	*06:02:01:01	*07:02:01:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
8043	Gideoni , Osnat	*02	*23	*39	*53	*06	*07								
3545	Goldstein , Stever	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02	SSP SSO SBT	*07*07:349
810	Hamdi , Nuha	*02	*23		*53	*06	*07			*39:08				SSO	
3808	Hogan , Patrick	*02	*23	*39	*53	*06	*07						*07:02:01G	SSP	
771	Israel , Shoshana	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02	SSO SBT	
725	Lardy , N.M.	*02	*23	*39	*53	*06	*07							SSO	
745	Latham , Katy							*02:06:01:01	*23:01:01	*39:08	*53:01:01	*06:02:01:01	*07:02:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02		
6649	Lim , Young Ae	*02	*23	*35	*38									SSP	
731	Loewenthal , Ron	*02	*23	*39	*53	*06	*07	*02:06:01	*23:01:01G	*39:08	*53:01:01	*06:02:01G	*07:02:01G	SSP SSO SBT	
8001	Rao , Prakash	*02	*23	*39	*53	*06	*07							SSP SSO	
3625	Rees , Tracey	*02	*23	*39	*53	*06	*07	*02:06	*23:01	*39:08	*53:01	*06:02	*07:02		A*23:17 C*06:83
4251	Schiller , Jennifer	*02	*23	*39	*53	*06	*07	*02:06	*23:01:01G	*39:08	*53:01	*06:02:01G	*07:02:01G	SSO SBT	
3186	Watson , Narelle	*02	*23	*39	*53	*06	*07								
16	Zhang , Aiwen	*02	*23	*39	*53	*06	*07	*02:06:01	*23:01:01	*39:08	*53:01:01	*06:02:01	*07:02:01	NGS	

Table 14. Individual laboratory results for Cell #1600

Center	Investigator	Low Resolution						High Resolution						Method	Other Alleles
		HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
5462	Arnold , Paula	*31		*40	*51	*03	*14	*31:01		*40:03	*51:01	*03:04	*14:02	SSO NGS	
5133	Askar , Medhat							*31:01:02:01		*40:03	*51:01:01	*03:04:01	*14:02:01:01	NGS	
4492	Caillat-Zucman ,	*31	*31	*40	*51	*03	*14							SSP	
774	Cecka , J. Micha	*31		*40	*51	*03	*14			*40:03				SSP SSO	B*40:267
8070	Chang , Uckjin							*31:01		*40:03	*51:01	*03:04	*14:02	SBT	
3632	Colombe , Beth V	*31		*40	*51	*03	*14	*31:01		*40:03	*51:01	*03:04	*14:02	SSP SSO	
779	Daniel , Claude	*31		*40	*51	*03	*14			*40:03		*03:04			
3766	Dunckley , Heath	*31		*40	*51	*03	*14							SSO	
5214	Eckels/CPMC ,	*31		*40 (B61)	*51 (Cw10)	*03 (Cw10)	*14							SSO	
747	Ferrari-Lacraz , S	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762	Fischer , Gottfrie							*31:01:02		*40:03	*51:01:01	*03:04:01:02	*14:02:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
8043	Gideoni , Osnat	*31	*31	*40	*51	*03	*14	*31:01	*31:01	*40:03	*51:01	*03:04	*14:02		
3545	Goldstein , Steve	*31		*40	*51	*03	*14	*31:01		*40:03	*51:01	*03:04	*14:02	SSP SSO SBT	
810	Hamdi , Nuha	*31		*40	*51	*03	*14	*31:04						SSO	
3808	Hogan , Patrick	*31		*40	*51	*03	*14			*40:03:01G		*03:04:01G		SSP	
771	Israel , Shoshana	*31		*40	*51	*03	*14	*31:01		*40:03	*51:01	*03:04	*14:02	SSO SBT	
725	Lardy , N.M.	*31		*40	*51	*03	*14							SSO	
745	Latham , Katy							*31:01:02		*40:03	*51:01:01	*03:04:01:02	*14:02:01	SSP SBT NGS	
278	Lee , Jar-How	*31	*31	*40	*51	*03	*14	*31:01	*31:01	*40:03	*51:01	*03:04	*14:02		
6649	Lim , Young Ae	*31		*40	*51									SSP	
731	Loewenthal , Ro	*31		*40	*51	*03	*14	*31:01:02G		*40:03	*51:01:01G	*03:04:01	*14:02:01	SSP SSO SBT	
8001	Rao , Prakash	*31		*40 (B61)	*51 (Cw10)	*03 (Cw10)	*14							SSP SSO	
3625	Rees , Tracey	*31	*31	*40	*51	*03	*14	*31:01	*31:01	*40:03	*51:01	*03:04	*14:02		B*51:193
4251	Schiller , Jennife	*31	*31	*40	*51	*03	*14	*31:01	*31:01	*40:03	*51:01P	*03:04	*14:02	SSO SBT	
3186	Watson , Narelle	*31	*31	*40	*51	*03	*14								
16	Zhang , Aiwen	*31		*40	*51	*03	*14	*31:01:02		*40:03	*51:01	*03:04:01	*14:02:01	NGS	

Table 15. Individual laboratory results for Cell #1597-1600 by serology

Investigator	Days Old	Cell No 1597 (Black)									Cell No 1598 (Hispanic)									Cell No 1599 (Hispanic)									Cell No 1600 (Korean)								
		Viab %	A3	A30	B41	B42	Cw17	Bw6	OTHERS	Viab %	A2	A24	B27	B39	Cw2	Cw7	Bw4	Bw6	OTHERS	Viab %	A2	A23	B39	B53	Cw6	Cw7	Bw4	Bw6	OTHERS	Viab %	A31	B61	B51	Cw3	Bw4	Bw6	OTHERS
Cecka, J. Mic	3	>95	+	+	+	+		+		>95	+	+	+	+		+	+		>95	+	+	+	+			+	+		>95	+	+	+		+	+		
Dunckley, Hea		90	+	+	+	+				90	+	+	+	+					85	+	+	+	+					85	+	+	+						
Enczmann, J		98	+	+	+	+				98	+	+	+	+					98	+	+	+	+					98	+	+	+						
Ferrari-Lacra		95	+	+	+	+	+			98	+	+	+	+	+	+	+																				
Fort, Marylis	3	98	+	+	+	+				98	+	+	+	+					NT									NT									
Hahn, Amy B.		99	+	+	+	+		+		99	+	+	+	+		+	+		99	+	+	+	+			+	+	99	+	+	+		+	+	B61		
Hogan, Patric	14	0								0									0									0									
Latham, Katy	3	95	+	+	+	+		+		93	+	+	+	+		+	+		99	+	+	+	+			+	+	95	+	+	+		+	+			
Loewenthal ,		80	+	+	+	+		+		85	+	+	+	+	+	+	+		85	+	+	+	+	+	+	+	+	80	+	B40	+	+	+	+			
Permpikul, Ve	7	90	+	+	+	+		+		90	+	+	+	+		+	+		90	+	+					+	+	50									
Pule, Ziningi		85	+	+	+	+			Cw7	90	+	+	+	+	+	+			80	+	+	B12	B51	+	Cw4			80	+	B40	+	+			B51		
Rees, Tracey	6	85	+	+	+	+				82	+	+	+	+	+	+			85	+	+	+	+	+	+			85	+	+	+	+					
Renac, Virgin	3	99	+	+	+	+		+		99	+	+	+	+		+	+		99	+	+	+	+			+	+	99	+	B40	+	+	+	+			
Shai, Isaac	10	88	+	+	+	+	B7	Cw2	+	B35,Cw7	84	+	+	+	+	+	+	Cw5	86	+	+	B16	+	+	+	+	88	+	B40	B5	+	+	+	+	B48		
Vidan-Jeras,	6	100	+	+	+	+		+		100	+	+	+	+	+	+	+		100	+	+	+	+	+	+	+	+	100	+	+	+	+	+	+			
Zhang, Aiwen	2	95	+	+	+	+	+			95	+	+	+	+	+				90	+	+			+	+			85	+	B40	+	+					