

REPORT OF THE 20th UCLA INTERNATIONAL KIR EXCHANGE

DECEMBER 15, 2009

KIR

77-80

Dear Colleagues:

For the 20th KIR Exchange, 4 DNA samples (KDNA#77-80) were shipped to each laboratory on August 5, 2009. Sixty-one laboratories submitted their KIR typing results. The majority of the laboratories used either commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, and others used either sequence-specific oligonucleotide probing (SSOP) method or MALDI-TOF/SNP assay. Some laboratories reported subtyping results for KIR2DL2, 2DL3, 2DL5, 3DL1, 3DS1, 2DS1, 2DS4, and 3DP1 loci.

The results for the 20th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in

Tables 2-5. The positive/negative assignments for all four DNA samples were reported without any discrepancy for 12 of the 16 tested KIR loci (KIR2DL1, 2DL4, 3DL2, 3DL3, 3DS1, 2DS1, 2DS2, 2DS3, 2DS4, 2DS5, 2DP1, and 3DP1). Discrepant results from the consensus typing are italicized in the listing of results (Tables 1-5), and described in the summation for each sample. Discrepancies at the allele level are not italicized. We encourage the participating laboratories to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

We thank for your continued participation in the UCLA KIR Exchange program. We wish you a most peaceful and joyful holiday season.

KIR Exchange Sample: KDNA # 0077:

KDNA#77 was from a Caucasian donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-3DS1-2DS2-2DS3-2DS4-2DP1-3DP1. One laboratory typed this DNA as negative for 2DL3. This genotype occurs most frequently in Kanikar (8.6%), a Southern Indian population, and at only 1 - 5% in Caucasian populations (1, 2). It has not been observed in Native American, Mexican, or African populations (2).

KIR Exchange Sample: KDNA # 0078:

KDNA#78 was obtained from a Filipino individual. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS4-2DS5-2DP1-3DP1. One laboratory typed this DNA as negative for KIR2DL2, one reported it as negative for KIR2DL3, and another laboratory reported it as negative for 3DL1. This is one of the most common genotypes in Native American (12-37%) and Pacific Islander (8-10%) populations (3, 4).

KIR Exchange Sample: KDNA # 0079:

KDNA#79 was obtained from an Asian donor. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4-2DS5-2DP1-3DP1. One laboratory reported this sample as positive for KIR2DL2, and another laboratory reported it is as negative for KIR2DL3. This genotype has been typed 6 times in the KIR Exchange, as found in KDNA#01, 25, 43, 52, 60, and 64. It is one of the most frequently occurring genotypes found in most populations (2).

KIR Exchange Sample: KDNA # 0080:

KDNA#80 was isolated from a Black donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4-2DP1-3DP1. One laboratory reported this DNA as negative for KIR2DL3 and another laboratory reported it as positive for KIR2DL5. This is the second most common genotype in Caucasians, occurring at a frequency of 10-15% (2).

References

1. Rajalingam, R., Du, Z., Meenagh, A., Luo, L., Kavitha, V. J., Pavithra-Arulvani, R., Vidhyalakshmi, A., Sharma, S. K., Balazs, I., Reed, E. F., *et al.* (2008). Distinct diversity of KIR genes in three southern Indian populations: comparison with world populations revealed a link between KIR gene content and pre-historic human migrations. *Immunogenetics* 60, 207-217.
2. Yawata, M., Yawata, N., Abi-Rached, L., and Parham, P. (2002). Variation within the human killer cell immunoglobulin-like receptor (KIR) gene family. *Crit Rev Immunol* 22, 463-482.
3. Velickovic M, Velickovic Z, Dunckley H (2006) Diversity of killer cell immunoglobulin-like receptor genes in Pacific Islands populations. *Immunogenetics* 58: 523-532.
4. Gendzekhadze, K., Norman, P. J., Abi-Rached, L., Layrisse, Z., and Parham, P. (2006). High KIR diversity in Amerindians is maintained using few gene-content haplotypes. *Immunogenetics* 58, 474-480.

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Table 1. Summary of the 20th KIR Exchange (KDNA#77-80)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#20	#0077	60	POS	POS <i>*001-003/ *005 [3]</i>	POS <i>*001- *005 [1] NEG [1]</i>	POS NT [2]	POS B [16] B*002/ *004/ *007 [2] B*002 [1] B*002-004/ *006-009 [1] B*002/ *004/ *007, *003/ *006 [1] A,B [1] A*005, B*002/ *009 [1]	POS <i>*002, *00401 [1] *002, *0401 [1] *004 [1] *00401/ *00402 [1]</i>	POS NT [1]	POS NT [1]	POS <i>*0101- *014 [1]</i>	NEG NT [1]	POS	POS	POS FULL & DEL [21]	NEG	POS NT [3]	POS <i>*001/ *002/ *004, *003 [10] *001/ *002/ *004, *003/ *005/ *006 [2] *003 [2] *001- *004 [1] *001- *006 [1] NT [2]</i>
	#0078	60	POS	POS <i>*001-003/ *005 [3] NEG [1]</i>	POS <i>NEG [1]</i>	POS NT [2]	POS A [15] A*001/*005 [4] A*001 [2] A*001, B*006/ *008 [1]	POS <i>*001/*002/*005- *009/*01501- *044/*056/*057 [1] *00101-002/*00501- *009/*01501- *044/*056/*057 [1] *005 [1] *00501 [1] NEG [1]</i>	POS NT [1]	POS NT [1]	POS <i>*0101- *014/ *045- *049N/ *055 [1]</i>	POS <i>*002-004 [2]</i>	POS	NEG	POS DEL [28]	POS	POS NT [3]	POS <i>*001/ *002/ *004, *003 [10] *001/ *002/ *004, *003/ *005/ *006 [2] *003 [2] *001-004 [1] *001-006 [1] NT [3]</i>
	#0079	60	POS	NEG <i>POS [1]</i>	POS <i>NEG [1]</i>	POS NT [2]	POS A [17] A*001/ *005 [4] A*001 [2] A*001, B*006/ *008	POS <i>*00101-002/*00501- *009/*01501- *044/*056/*057 [1] *001/ *002/ *005- *009/ *01501-044/ *056/ *057 [1] *01501- *044/*056/*057 [1] *01502 [1] *1502 [1]</i>	POS NT [1]	POS NT [1]	POS <i>*0101- *014/ *045- *049N/ *055 [1]</i>	POS <i>*002- *004 [2]</i>	NEG	NEG	POS FULL [29]	POS	POS NT [3]	POS <i>*003 [21] *003/ *005/ *006 [3] NT [3]</i>
	#0080	60	POS	POS <i>*001- *003/ *005 [3]</i>	POS <i>NEG [1]</i>	POS NT [2]	NEG <i>POS [1]</i>	POS <i>*001/ *002/ *005- *009/ *01501-044/ *056/ *057 [1] *00101-002/ *00501-009/ *01501-044/ *056/ *057 [1] *017, *001 [1]</i>	POS NT [1]	POS NT [1]	NEG	NEG	POS	NEG	POS FULL [29]	NEG	POS NT [3]	POS <i>*003 [22] *003/ *005/ *006 [3] NT [3]</i>

KEY for Table 1

[] - number of labs reporting allele assignment/POS/NEG/NT
 POS - Presence of gene
 NEG - Absence of gene
 NT - Not typed
 italics - assignment different from consensus

KEY for Tables 2-5

italics - assignment different from consensus
 SSP - Sequence-specific priming-based typing
 SSOP - Sequence-specific oligonucleotide probing-based typing
 RSSOP - Reverse Sequence-specific oligonucleotide probing-based typing
 SBT - Sequencing-based typing

Table 2. KIR Exchange Sample: KDNA #77 (Caucasian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006- *009	NEG	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002/ *004/ *007, *003/ *006	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8025	Carrington&Marti	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP, RSSOP
124	Christiansen&Wit	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	POS	*004	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*003	SSP
8030	Davidson&Poulto	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006- *009	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heathe	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
4251	Ellis, Thomas	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP
8051	Endres&Wiltbank	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *006- *009	NEG	POS	POS	RSSOP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *007	NEG	POS	POS	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch, Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
836	KuKuruga, Debor	POS	POS	POS	POS	B	POS	POS	POS	POS	NT	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
8061	Lanzer, G.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP

Table 2. KIR Exchange Sample: KDNA #77 (Caucasian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
5142	Marsh, Steven	POS	POS	POS	POS	POS	*002, *00401	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001/ *002/ *004, *003	SSP
733	Mytilineos, Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8039	Noreen, Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	
8022	Olerup, Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul & Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
16	Pidwell/Askar	POS	POS	POS	POS	A, B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP, SSP
3753	Reed & Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
3798	Reinsmoen, Nanc	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001- *007	NEG	POS	*001- *004	SSP, SSOP
8064	Roberts, Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSOP
8060	Rost & Klein	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
1694	Sauer & Gottwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3410	Schroeder, M.L.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP
1426	Senitzer, David	POS	POS	POS	POS	B*002	*002, *0401	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl, Michae	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
769	Tavoularis, Sofia	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *006/ *007/ *009	NEG	POS	*001- *006	SSOP, SSP
230	Thoni, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
747	Tiercy, Jean-Marie	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	POS	NEG	POS	POS	*0010101/ *002- *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *00301/ *00302	SSP
5451	Tilanus, Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	B*002/ *009, A*005	POS	POS	POS	POS	NEG	POS	POS	*0010101- *0010103/ *00102, *003/ *004/ *006/ *007/ *009	NEG	POS	POS	MALDI-TOF
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	*001/ *002/ *004, *003	SSP

Table 2. KIR Exchange Sample: KDNA #77 (Caucasian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5462	Turner,E.V.	*001- *010	*001- *005	*001- *007	*001- *012	B*002- *004/ *006- *009	*00401/ *00402	*001- *021	*001- *031	*0101- *014	NEG	*001- *005	*001- *004	*001, *003/ *004/ *006/ *007/ *009	NEG	*001- *003	*003	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	NEG	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
705	Watkins,David I.	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	
1466	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
5282	Yu_Neng/UMMHC	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
713	Zachary,Andrea	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #78 (Filipino)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*00103, *003/ *004/ *006-*009	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSP
8025	Carrington&Marti	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP, RSSOP
124	Christiansen&Wit	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	POS	*00101-*002/ *00501-*009/ *01501-*044/ *056/ *057	POS	POS	POS	*002- *004	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP
8030	Davidson&Poulto	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*00103, *003/ *006- *009	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heath	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
4251	Ellis, Thomas	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*001/ *002/ *004, *003	SSP
8051	Endres&Wiltbank	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	*001/ *002/ *004, *003	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *006- *009, *003/ *006-*009	POS	POS	POS	RSSOP
762	Fischer&Mayr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	POS	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006	POS	POS	POS	SSP
1461	Hidajat, M.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	POS	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8037	Kotsch, Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
836	KuKuruga, Debor	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NT	NT	MULTIPLEX SSP

Table 3. KIR Exchange Sample: KDNA #78 (Filipino)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8061	Lanzer,G.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
5142	Marsh, Steven	POS	POS	POS	POS	POS	*00501	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009, -	POS	POS	*001/ *002/ *004, *003	SSP
733	Mytilineos, Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8039	Noreen, Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	
8022	Olerup, Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3966	Perpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
16	Pidwell/Askar	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP, SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
3798	Reinsmoen, Nanc	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	*001-*004	SSP, SSOP
8064	Roberts, Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007, -	POS	POS	*001/ *002/ *004, *003	SSOP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
1694	Sauer&Gottwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3410	Schroeder, M.L.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*001/ *002/ *004, *003	SSP
1426	Senitzer, David	POS	POS	POS	POS	A*001	*005	POS	POS	POS	POS	POS	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
702	Spannagl, Michae	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
769	Tavoularis, Sofia	POS	POS	POS	POS	A*001	POS	POS	POS	POS	POS	POS	NEG	*003/ *006/ *007/ *009	POS	POS	*001-*006	SSOP, SSP
230	Thoni, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
747	Tiercy, Jean-Marie	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*001/ *002/ *004/ *00301/ *00302	SSP
5451	Tilanus, Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	A*001/ B*006/ *008	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	MALDI-TOF
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	POS	POS	POS	POS	NEG	DEL	POS	POS	*001/ *002/ *004, *003	SSP
5462	Turner, E. V.	*001- *010	*001- *005	*001- *007	*001- *012	A*001/ *005	*001/ *002/ *005-*009/ *01501-*044/ *056/ *057	*001- *021	*001- *031	*049N/ *055	*002- *004	*001- *005	NEG	*003/ *004/ *006/ *007/ *009	*001- *008	*001- *003	*003	SSP
8053	Tyan, Dolly	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg, Markus	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	NEG	POS	POS	NT	NT	SSP

Table 3. KIR Exchange Sample: KDNA #78 (Filipino)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
705	Watkins,David I.	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	*001/ *002/ *004, *003	
1466	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP
5282	Yu_Neng/UMMHC	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
713	Zachary,Andrea	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003-*007	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #79 (Asian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8033	Balazs, Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8025	Carrington&Marti	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP, RSSOP
124	Christiansen&Wit	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NT	NT	SSP
3632	Colombe, Beth	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
5130	Costeas, Paul A.	POS	NEG	POS	POS	POS	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	POS	*002- *004	NEG	NEG	*001	POS	POS	*003	SSP
8030	Davidson&Poulto	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
3186	Dunckley, Heathe	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4251	Ellis, Thomas	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	POS	SSP
8051	Endres&Wiltbank	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8038	Fernandez-Vina&	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001, *001	POS	POS	POS	RSSOP
762	Fischer&Mayr	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8040	Gladman/Pellett/P	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8041	Han, Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*00301/ *00302	SSP
1461	Hidajat, M.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8037	Kotsch, Katja	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
836	KuKuruga, Debor	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8046	Kusnierczyk, Piot	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	NT	NT	MULTIPLEX SSP
8061	Lanzer, G.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	RSSOP
5142	Marsh, Steven	POS	NEG	POS	POS	POS	*01502	POS	POS	POS	POS	NEG	NEG	*001, -	POS	POS	*003, -	SSP
733	Mytilineos, Joanni	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8039	Noreen, Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	
8022	Olerup, Olle	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul&Vejsa	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
16	Pidwell/Askar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	RSSOP, SSP
3753	Reed&Rajalingam	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	RSSOP
3798	Reinsmoen, Nanc	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP, SSOP
8064	Roberts, Chrissy	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001, -	POS	POS	*003, -	SSOP

Table 4. KIR Exchange Sample: KDNA #79 (Asian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
1694	Sauer&Gottwald	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	A*001	*1502	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
746	Stamm,Luz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	NEG	POS	POS	A*001	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*0010101/ *002	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	A*001, B*006/ *008	POS	POS	POS	POS	POS	NEG	NEG	*0010101- *0010103/ *00102	POS	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	NEG	POS	NT	POS	POS	NT	POS	POS	POS	NEG	NEG	FULL	POS	POS	*003	SSP
5462	Turner,E.V.	*001- *010	NEG	*001- *007	*001- *012	A*001/ *005	*001/ *002/ *005-*009/ *01501-*044/ *056/ *057	*001- *021	*001- *031	*0101- *014/ *045- *049N/ *055	*002- *004	NEG	NEG	*001	*001- *008	*001- *003	*003	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8028	Uhrberg,Markus	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003	SSP
8023	Vilches,Carlos	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
705	Watkins,David I.	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
5282	Yu_Neng/UMMHC	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
713	Zachary,Andrea	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP

Table 5. KIR Exchange Sample: KDNA #80 (Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	*001-*003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8025	Carrington&Marti	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP, RSSOP
124	Christiansen&Wit	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	NEG	*00101-*002/ *00501-*009/ *01501-*044/ *056/ *057	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*003	SSP
8030	Davidson&Poultio	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
1108	Davis, Mary	POS	*001-*003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
3186	Dunckley, Heathe	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4251	Ellis, Thomas	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8051	Endres&Wiltbank	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, *001	NEG	POS	POS	RSSOP
762	Fischer&Mayr	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*00301/ *00302	SSP
1461	Hidajat, M.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8037	Kotsch, Katja	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
836	KuKuruga, Debor	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NT	NT	MULTIPLEX SSP
8061	Lanzer, G.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
278	Lee, Jar-How	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
5142	Marsh, Steven	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, -	NEG	POS	*003, -	SSP
733	Mytilineos, Joanni	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8039	Noreen, Harriet	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
8022	Olerup, Olle	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
16	Pidwell/Askar	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP, SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP

Table 5. KIR Exchange Sample: KDNA #80 (Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3798	Reinsmoen,Nanc	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP,SSOP
8064	Roberts,Chrissy	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, -	NEG	POS	*003, -	SSOP
8060	Rost&Klein	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
1694	Sauer&Gottwald	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	NEG	*017, *001	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
746	Stamm,Luz	POS	*001-*003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*0010101/ *002	NEG	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*0010101- *0010103/ *00102	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	POS	POS	NT	NEG	POS	NT	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	*003	SSP
5462	Turner,E.V.	*001- *010	*001-*005	*001- *007	*001- *012	NEG	*001/*002/ *005-*009/ *01501-*044/ *056/ *057	*001- *021	*001- *031	NEG	NEG	*001- *005	NEG	*001	NEG	*001- *003	*003	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	*003	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
705	Watkins,David I.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSOP
1466	Yu,Neng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
5282	Yu_Neng/UMMHC	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
713	Zachary,Andrea	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP

PARTICIPATING CENTERS

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		Marsh	Steven	Dr	London	England
Balazs	Ivan		Stamford CT		Mytilineos	Joannis	MD	Ulm	Germany
Baxter-Lowe	Lee Ann	Dr	San Francisco CA		Noreen	Harriet		Minneapolis MN	
Carrington/Martin		Drs	Frederick MD		Olerup	Olle		Saltsjobaden	Sweden
Chan	Soh Ha	Prof	Singapore	Singapore	Permpikul/Vejbaesya		Drs	Bangkok	Thailand
Charlton	Ronald	PhD	Jacksonville FL		Pidwell	Diane	PhD	Cleveland OH	
Chen	Dongfeng	Dr	Durham NC		Reed/Rajalingam		Drs	Los Angeles CA	
Christiansen/Witt			Perth	Australia	Reinsmoen	Nancy	PhD	Los Angeles CA	
Colombe	Beth	PhD	Philadelphia PA		Roberts	Chrissy H.		London	England
Costeas	Paul A.	Dr	Nicosia	Cyprus	Rost/Klein		Drs	Martinsried	Germany
Crowe	Deborah	PhD	Nashville TN		Sauer/Gottwald	Norbert		Lich	Germany
Davidson/Poulton		Drs	Manchester	England	Schroeder	M.L.	MD	Winnipeg MB	Canada
Davis	Mary	PhD	Stamford CT		Senitzer	David	PhD	Duarte CA	
Dinauer	David		Brown Deer WI		Snider	Denis	PhD	Buffalo NY	
Dunckley	Heather	PhD	Sydney NSW	Australia	Spannagl	Michael	Dr	Munich	Germany
Ellis	Thomas	PhD	Milwaukee WI		Stamm	Luz		Calgary AB	Canada
Endres/Wiltbank		Drs	Tempe AZ		Spyropoulou-Vlavhou	Maria	Dr	Athens	Greece
Fernandez-Vina/Cano		Drs	Houston TX		Tavoularis	Sofia	Dr	Ottawa ON	Canada
Fischer/Mayr		Drs	Vienna	Austria	Thoni	Deborah	MD	Orlando FL	
Gardiner	Clair	PhD	Dublin	Ireland	Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Gillespie	Kathleen	Dr	Bristol	UK	Tilanus	Marcel	Dr	Maastricht	Germany
Gladman/Pellett/Pollack			Toronto ON	Canada	Trachtenberg	Elizabeth	PhD	Oakland CA	
Graff	Ralph J.	Dr	St Louis MO		Trowsdale	John	Prof	Cambridge	UK
Han	Hoon	Dr	Seoul	S. Korea	Turner	E.V.	PhD	Memphis TN	
Hidajat	Melanny		Brugge	Belgium	Tyan	Dolly	Dr	Palo Alto	
Holdsworth			South Melbourne	Australia	Uhrberg	Markus	Dr	Dusseldorf	Germany
Hsu	Susan H.	PhD	Philadelphia PA		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Hurley/Hartzman		Drs	Rockville MD		Vilches	Carlos	Dr	Madrid	Spain
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Wassmuth	Ralf	Prof	Dresden	Germany
Kotsch	Katja	PhD	Berlin	Germany	Watkins	David	PhD	Madison WI	
KuKuruga	Debra	PhD	Baltimore MD		Wiltbank/Endres		Drs	Tempe AZ	
Kusnierczyk	Piotr		Wroclaw	Poland	Yu	Neng	MD	Dedham MA	
Lanzer	G.	Prof	Graz	Austria	Yu	Neng	MD	Worcester MA	
Lee	Jar-How	Dr	Canoga Park CA		Zachary	Andrea	PhD	Baltimore MD	