

REPORT OF THE 24TH UCLA INTERNATIONAL KIR EXCHANGE

MAY 4, 2011

KIR

93-96

Dear Colleagues:

For the 24th KIR Exchange, 4 DNA samples (KDNA#93-96) were shipped to each laboratory on February 2, 2011. 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 sequence-specific oligonucleotide probing (SSOP) method.

The results for the 24th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Subtyping results for KIR2DL2, 2DL5, 3DL1, 3DS1, 2DS1, 2DS4, and 3DP1 loci were reported by some laboratories. The positive/negative

assignments for all 4 DNA samples were reported without any discrepancy for 13 of the 16 tested KIR loci (KIR2DL1, 2DL4, 2DL5, 3DL1, 3DL2, 3DL3, 3DS1, 2DS1, 2DS2, 2DS3, 2DS5, 2DP1, and 3DP1). Discrepant results from the consensus typing are italicized in 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 you for your continued participation in the UCLA KIR Exchange program.

KIR Exchange Sample: KDNA # 0093:

This sample was isolated from a Caucasian individual. The consensus KIR type of this DNA is: 2DL1-2DL2-2DL4-2DL5A-2DL5B-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DP1-3DP1. One laboratory reported this sample as positive for KIR2DL3. This is a rare genotype observed only in Persian populations at a frequency of less than 2% (1, 2).

KIR Exchange Sample: KDNA # 0094:

KDNA#94 was derived from a Black donor. The consensus KIR type is reported as 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS2-2DS4-2DS5-2DP1-3DP1. One laboratory reported this sample as negative for 2DS4. This is a commonly found genotype in Amazonian Amerindians occurring at a frequency of 10% (3).

KIR Exchange Sample: KDNA # 0095:

KDNA#95 was obtained from a Caucasian individual. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4-2DS5-2DP1-3DP1. Two laboratories reported this DNA as positive for KIR2DL2. This is one of the more common KIR genotypes found in all ethnic populations (4).

KIR Exchange Sample: KDNA # 0096:

This sample was isolated from a Vietnamese donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-2DL5B-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS5-2DP1-3DP1. Two laboratories reported this sample as positive for KIR2DS4. This KIR genotype occurs frequently in Asian Indians (5). It is observed less frequently in Southeast Asians (1.7% - 2.2%) (6).

References

1. Ashouri E, Farjadian S, Reed EF, Ghaderi A, and Rajalingam R. KIR gene content diversity in four Iranian populations. *Immunogenetics* 2009,61:483-492.
2. Kulkarni S, Single RM, Martin MP, Rajalingam R, Badwe R, Joshi N, Carrington M. Comparison of the rapidly evolving KIR locus in Parsis and natives of India. *Immunogenetics* 2008, 60: 121-129.
3. Ewerton PD, Leite Mde M, Magalhaes M, Sena L, Melo dos Santos EJ. Amazonian Amerindians exhibit high variability of KIR profiles. *Immunogenetics* 2007, 59: 625-630.
4. Yawata M, Yawata N, Abi-Rached L, and Parham P. Variation within the human killer cell immunoglobulin-like receptor (KIR) gene family. *Crit Rev Immunol* 2002, 22:463-482.
5. Rajalingam R, Du Z, Meenagh A, Luo L, Kavitha VJ, Pavithra-Arulvani R, Vidhyalakshmi A, Sharma SK, I. Balazs, Reed EF, Pitchappan RM, and Middleton D. 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* 2008, 60:207-217.
6. Norman, P. J., C. V. Carrington, M. Byng, L. D. Maxwell, M. D. Curran, H. A. Stephens, D. Chandanayingyong, D. H. Verity, K. Hameed, D. D. Ramdath, and R. W. Vaughan. 2002. Natural killer cell immunoglobulin-like receptor (KIR) locus profiles in African and South Asian populations. *Genes Immun* 3:86.

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Arlene Locke, Marie Lau, Elaine F. Reed, and Rajalingam Raja

Table 1. Summary of the 24th KIR Exchange (KDNA#93-96)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#24	#0093	61	POS	POS <i>*001- *003*005 [2]</i>	NEG <i>POS [1]</i>	POS NT [2]	POS A, B [14] A*001/*005, B*002- *004/*006 [1] A*001/*005, B*002- *004/*006/*007 [1] A*001/*005, B*002/*004/*007 [1] A*005, B*002 [1] A*005, B*002/*009/*010 [1]	POS <i>*004 [1] *00401 [1] *021 [1]</i>	POS NT [1]	POS NT [2]	POS <i>*01301 [1]</i>	POS <i>*002- *004 [1]</i>	POS	POS	POS DEL [10] <i>*003*007 [6] *003/*004/*006/*007 [5] *003/*004/*006/*007/*009 [2] *00103, *003/*004/*006*009 [2] *003 [1] *003/*004/*006 [1] *003/*006*009,*003/*006*009 [1]</i>	NEG	POS NT [3]	POS <i>*003 [13] DEL [5] *003/*005/*006 [2] *001- *006 [1] *00301/*00302 [1] NT [3]</i>
	#0094	61	POS	POS <i>*001-*003/ *005 [2]</i>	POS	POS NT [2]	POS B [15] B*002-*004/*006/*007 [2] B*002-*004/*006 [1] B*002/*004/*007 [1] B*002/*004/*007/*008 [1] B*003/*004/*006- *008/*011 [1]	POS <i>*005 [1] *00501 [1]</i>	POS NT [1]	POS NT [2]	NEG	POS <i>*002- *004 [1]</i>	POS	NEG	POS DEL [10] <i>*003*007 [6] *003/*004/*006/*007 [4] *003/*004/*006/*007/*009 [2] *00103, *003/*004/*006*009 [2] *003 [1] *003/*004/*006 [1] *003/*006*009 [1] NEG [1]</i>	POS	POS NT [3]	POS <i>*003 [13] DEL [5] *003/*005/*006 [2] *00301/*00302 [21] NT [3]</i>
	#0095	61	POS NT [1]	NEG <i>POS [2]</i>	POS	POS NT [2]	POS A [16] A*001/*005 [4] A*001 [2]	POS <i>*005 [1] *00501 [1]</i>	POS NT [1]	POS NT [2]	POS <i>*01301 [1] NT [1]</i>	POS <i>*002- *004 [1]</i>	NEG	NEG	POS DEL [10] <i>*003*007 [6] *003/*004/*006/*007 [5] *00103, *003/*004/*006*009 [2] *003 [1] *003/*004/*006 [1]</i>	POS	POS NT [3]	POS <i>*003 [13] DEL [5] *003/*005/*006 [2] *00301/*00302 [1] NT [3]</i>
	#0096	61	POS	POS <i>*001- *003/ *005 [2]</i>	POS	POS NT [2]	POS A, B [14] A*001/*005, B*002- *004/*006 [1] A*001/*005, B*002- *004/*006*011 [1] A*001/*005, B*002/*004/*007 [1] A*005, B*006 [1] B*002-*004/*006*007 [1]	NEG	POS NT [1]	POS NT [2]	POS <i>*01301 [1]</i>	POS <i>*002- *004 [1]</i>	POS	POS	NEG <i>POS [2]</i>	POS	POS NT [3]	POS <i>*003 [13] DEL [5] *003/*005/*006 [2] *00301/*00302 [1] 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 #93 (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	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003-007	NEG	POS	*003	SSP
16	Askar,Medhat	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	POS	SSOP,SSP
8050	Baxter-Lowe, Lee	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
8025	Carrington&Marti	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	RT-PCR
3224	Chen,Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP,SSOP
3632	Colombe,Beth	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
189	Crowe,Deborah	POS	POS	NEG	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
8031	Dinauer,David	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	DEL	SSP
3428	Eckels/Utah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4251	Ellis,Thomas	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8051	Endres,Robert	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
2549	Fagoaga,Omar	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	DEL	SSP
8038	Fernandez-Vina&	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *006- *009, *003/ *006-009	NEG	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003-007	NEG	POS	*003	SSP
8047	Fuessel,Monika	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellet/P	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
234	Gomez,Carmen	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
1694	Gottwald&Hesse	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003-007	NEG	POS	*003	SSP
8041	Han,Hoon	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006	NEG	POS	*003	SSP
1461	Hidajat,M.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
3261	Iwaki, Yui	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8035	Kanangat,Siva	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4337	Kim,Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	NT	NT	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
1108	Linke,Robert	POS	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*00103, *003/ *004/ *006-009	NEG	POS	POS	SSOP
8067	Marino,Susan R.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP,SSOP

Table 2. KIR Exchange Sample: KDNA #93 (Caucasian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh,Steven	POS	POS	NEG	POS	POS	*021	POS	POS	*01301	POS	POS	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	*003, -	SSP,SBT
733	Mytilineos,Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8022	Olerup,Olle	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8057	Ray&Balazs	POS	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*00103, *003/ *004/ *006- *009	NEG	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8060	Rost&Klein	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	NEG	POS	A*005, B*002	*00401	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	POS	MULTIPLEX SSP
791	Stasnty,Peter	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
769	Tavoularis,Sofia	POS	POS	NEG	POS	A*005, B*002/ *009/ *010	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	A*001/ *005, B*002- *004/ *006/ *007	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	POS	POS	POS	POS	DEL	NEG	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	A*001/ *005, B*002- *004/ *006	*004	POS	POS	POS	*002- *004	POS	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	*001- *006	SSP
8053	Tyan,Dolly	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	SSP
705	Watkins,David I.	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	POS	DEL	SSP
3186	Watson,Narelle	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
124	Witt,Campbell	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	NEG	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP

Table 3. KIR Exchange Sample: KDNA #94(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	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
16	Askar,Medhat	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	SSOP,SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002-*004/ *006/ *007	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
8025	Carrington&Marti	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	RT-PCR
3224	Chen,Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP
3632	Colombe,Beth	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
189	Crowe,Deborah	POS	POS	POS	POS	B*002/ *004/ *007/ *008	POS	POS	POS	NEG	POS	POS	NEG	NEG	POS	POS	*003	SSP
8031	Dinauer,David	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
3428	Eckels/Utah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4251	Ellis,Thomas	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
8051	Endres,Robert	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
2549	Fagoaga,Omar	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *006- *009, *003/ *006-*009	POS	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
8047	Fuessel,Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
234	Gomez,Carmen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
1694	Gottwald&Hesse	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
8041	Han,Hoon	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006	POS	POS	*003	SSP
1461	Hidajat,M.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP, SSOP
3261	Iwaki, Yui	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8035	Kanangat,Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	NT	NT	SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
1108	Linke,Robert	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*00103, *003/ *004/ *006-*009	POS	POS	POS	SSOP
8067	Marino,Susan R.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP,SSOP

Table 3. KIR Exchange Sample: KDNA #94(Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh,Steven	POS	POS	POS	POS	POS	*00501	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP,SBT
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3966	Permpikul&Vejsba	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
8057	Ray&Balazs	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*00103, *003/ *004/ *006-*009	POS	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	POS	*005	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
791	Stasnty,Peter	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
769	Tavoularis,Sofia	POS	POS	POS	POS	B*003/ *004/ *006-*008/ *011	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002-*004/ *006/ *007	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	NT	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B*002-*004/ *006	POS	POS	POS	NEG	*002- *004	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	POS	POS	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	DEL	SSP
705	Watkins,David I.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	POS	DEL	SSP
3186	Watson,Narelle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
713	Zachary,Andrea	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP

Table 4. KIR Exchange Sample: KDNA #95 (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	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003-*007	POS	POS	*003	SSP
16	Askar, Medhat	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	POS	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003/*004/ *006/*007	POS	POS	*003	SSP
8025	Carrington&Marti	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	*003/*005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	RT-PCR
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003/*004/ *006/*007	POS	POS	*003	SSP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
3428	Eckels/Utah	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4251	Ellis, Thomas	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8051	Endres, Robert	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003/*004/ *006/*007	POS	POS	*003	SSP
2549	Fagoaga, Omar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
8038	Fernandez-Vina& Fischer&Mayr	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/*006- *009, *003/ *006*009	POS	POS	POS	SSOP
762	Fischer&Mayr	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003*007	POS	POS	*003	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
234	Gomez, Carmen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
1694	Gottwald&Hesse	POS	NEG	POS	POS	POS	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	*003*007	POS	POS	*003	SSP
8041	Han, Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/*004/ *006	POS	POS	*003	SSP
1461	Hidajat, M.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	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, SSOP
3261	Iwaki, Yui	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	NT	NT	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
1108	Linke, Robert	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*00103, *003/ *004/*006- *009	POS	POS	POS	SSOP
8067	Marino, Susan R.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	NEG	POS	POS	POS	*00501	POS	POS	*01301	POS	NEG	NEG	*003/*004/ *006/*007/ *009	POS	POS	*003	SSP, SBT
733	Mytilineos, Joanni	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #95 (Caucasian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8022	Olerup,Olle	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8057	Ray&Balazs	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*00103, *003/ *004/ *006- *009	POS	POS	POS	SSOP
3753	Reed&Rajalingam	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	A*001	*005	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
791	Stasnty,Peter	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003-*007	POS	POS	*003	SSP
769	Tavoularis,Sofia	POS	NEG	POS	POS	A*001	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	NEG	POS	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	*003/ *004/ *006/ *007	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	NEG	POS	NT	POS	POS	NT	NT	POS	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	*002- *004	NEG	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003-*007	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	POS	SSP
8023	Vilches,Carlos	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	DEL	SSP
705	Watkins,David I.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
3186	Watson,Narelle	POS	NEG	POS	POS	POS	POS	POS	POS	NT	POS	NEG	NEG	POS	POS	POS	POS	SSP
124	Witt,Campbell	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
5282	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
713	Zachary,Andrea	NT	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003-*007	POS	POS	*003	SSP

Table 5. KIR Exchange Sample: KDNA #96 (Vietnamese)

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	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
16	Askar, Medhat	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
8025	Carrington&Marti	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RT-PCR
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP, SSOP
3632	Colombe, Beth	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
189	Crowe, Deborah	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
8031	Dinauer, David	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
3428	Eckels/Utah	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
4251	Ellis, Thomas	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8051	Endres, Robert	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
2549	Fagoaga, Omar	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
234	Gomez, Carmen	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
1694	Gottwald&Hesse	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
1461	Hidajat, M.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP, SSOP
3261	Iwaki, Yui	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NT	NT	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
1108	Linke, Robert	POS	*001-*003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8067	Marino, Susan R.	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	POS	POS	POS	NEG	POS	POS	*01301	POS	POS	POS	NEG	POS	POS	*003	SSP, SBT
733	Mytilineos, Joanni	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8039	Noreen, Harriet	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8022	Olerup, Olle	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
3966	Permpikul&Vejsa	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8030	Poulton, Kay V.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
8057	Ray&Balazs	POS	*001-*003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP

Table 5. KIR Exchange Sample: KDNA #96 (Vietnamese)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8060	Rost&Klein	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	A*005, B*006	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	MULTIPLEX SSP
791	Stasnty,Peter	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
769	Tavoularis,Sofia	POS	POS	POS	POS	A*001/ *005, B*002-*004/ *006-*011	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002-*004/ *006/ *007	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	NEG	NT	NT	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	A*001/ *005, B*002-*004/ *006	NEG	POS	POS	POS	*002- *004	POS	POS	NEG	POS	POS	POS	SSOP
8053	Tyan,Dolly	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	POS	NEG	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
705	Watkins,David I.	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
3186	Watson,Narelle	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSOP
5282	Yu,Neng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
713	Zachary,Andrea	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003	SSP

PARTICIPATING CENTERS

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		Marino	Susana R		Chicago IL	
Baxter-Lowe	Lee Ann	Dr	San Francisco CA		Marsh	Steven	Dr	London	England
Carrington/Martin		Drs	Frederick MD		Mytilineos	Joannis	MD	Ulm	Germany
Chan	Soh Ha	Prof	Singapore	Singapore	Noreen	Harriet		Minneapolis MN	
Charlton	Ronald	PhD	Jacksonville FL		Olerup	Olle		Saltsjobaden	Sweden
Chen	Dongfeng	Dr	Durham NC		Permpikul/Vejbaesya		Drs	Bangkok	Thailand
Colombe	Beth	PhD	Philadelphia PA		Pidwell/Askar	Medhat		Cleveland OH	
Crowe	Deborah	PhD	Nashville TN		Poulton	Kay V.	Dr	Manchester	England
Dinauer	David		Brown Deer WI		Ray/Balazs			Stamford CT	
Eckels	David	Dr	Salt Lake City UT		Reed/Rajalingam		Drs	Los Angeles CA	
Ellis	Thomas	PhD	Milwaukee WI		Roberts	Chrissy H.		London	England
Endres	Robert	Dr	Tempe AZ		Rost/Klein		Drs	Martinsried	Germany
Fagoaga	Omar	Dr	Detroit MI		Schroeder	M.L.	MD	Winnipeg MB	Canada
Fernandez-Vina/Cano		Drs	Houston TX		Senitzer	David	PhD	Duarte CA	
Fischer/Mayr		Drs	Vienna	Austria	Stastny	Peter	MD	Dallas TX	
Fuessel	Monika	PhD	Dresden	Germany	Tambur	Anat		Chicago IL	
Gardiner	Clair M.	PhD	Dublin	Ireland	Tavoularis	Sofia	Dr	Ottawa ON	Canada
Gladman/Pellett/Pollock			Toronto ON	Canada	Thoni	Deborah	MD	Orlando FL	
Gomez	Carmen		Miami FL		Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Gottwald/Hesse			Lich	Germany	Tilanus	Marcel	Dr	Maastricht	Germany
Graff	Ralph J.	Dr	St Louis MO		Trachtenberg	Elizabeth	PhD	Oakland CA	
Han	Hoon	Dr	Seoul	S. Korea	Trowsdale	John	Prof	Cambridge	UK
Hidajat	Melanny		Brugge	Belgium	Turner	E.V.	PhD	Memphis TN	
Holdsworth	Rhonda		South Melbourne	Australia	Tyan	Dolly	Dr	Palo Alto	
Hsu	Susan H.	PhD	Philadelphia PA		Uhrberg	Markus	Dr	Dusseldorf	Germany
Hurley/Hartzman		Drs	Rockville MD		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Iwaki	Yui	Dr	San Bernardino CA		Vilches	Carlos	Dr	Madrid	Spain
Kanangat	Siva	PhD	Chicago IL		Watkins	David	PhD	Madison WI	
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Watson	Narelle	PhD	Sydney NSW	Australia
Kusnierczyk	Piotr	PhD	Wroclaw	Poland	Witt	Campbell		Perth	Australia
Kwok	Janette	Dr	Hong Kong		Yu	Neng	MD	DedhamMA	
Lee	Jar-How	Dr	Canoga Park CA		Yu	Neng	MD	Worcester MA	
Linke	Robert	PhD	Stamford CT		Zachary	Andrea	PhD	Baltimore MD	
Maha	George	PhD	Burlington NC						