

REPORT OF THE 17th UCLA INTERNATIONAL KIR EXCHANGE

FEBRUARY 4, 2009

KIR

65-68

Dear Colleagues:

Welcome to the 2009 UCLA International KIR Exchange!

We congratulate all participating laboratories for completion of the 2008 International KIR Exchange program. Enclosed in your February sendout package is a certificate to document your participation.

For the 17th KIR Exchange, 4 DNA samples (KDNA#65-68) were shipped to each laboratory on August 8, 2008. Sixty laboratories submitted their KIR typing results. Most 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 KIR2DL5, 2DS4, and 3DP1 loci. KIR3DL1 was subtyped by Costeas using SSP and by Tavoularis using SSOP.

The results for the 17th 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 only 6 (KIR2DL4, 3DL2, 3DL3, 3DS1, 2DP1, 3DP1) of the 16 tested KIR loci, including the four framework genes generally found in all individuals. Discrepant results from the consensus typing are italicized in Tables 2-5, 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 active participation in the UCLA KIR exchange program.

NEXT MAILING DATE: May 6, 2009

Marie Lau, Elaine F. Reed, and Raja Rajalingam

KIR Exchange Sample: KDNA # 0065:

The DNA was isolated from a Caucasian donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4-2DP1-3DP1. This is one of the most common KIR genotypes that occurs at a frequency of 10-15% in several African populations, Southern Indian populations, and Hispanics (1,2). One laboratory typed this DNA as negative for KIR2DS3, and another laboratory reported this DNA carrying both 2DL5A and 2DL5B genes.

KIR Exchange Sample: KDNA # 0066:

KDNA#66 was obtained from a Caucasian individual. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A/B-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DP1-3DP1. This genotype occurs most frequently (15%) in Australian aboriginals. In Caucasians, it occurs at a frequency of 3-6% and is absent in Chinese, Japanese, and Southern Indian populations (3,4). One laboratory typed this DNA as 2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS3-2DS4-2DP1-3DP1, and another laboratory reported this DNA as negative for KIR2DL3.

KIR Exchange Sample: KDNA # 0067:

KDNA#67 was obtained from an Hispanic individual. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS2-2DS4-2DS5-2DP1-3DP1. This KIR genotype occurs in indigenous populations of South America and India (2,5). One laboratory typed this DNA as negative for KIR2DS5 and another laboratory reported this DNA as carrying both 2DL5A and 2DL5B genes.

KIR Exchange Sample: KDNA # 0068:

The ethnic information for this donor was not available. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL2-3DL3-3DS1-2DS1-2DS5-2DP1-3DP1. This genotype occurs at a frequency of 10% in the South American population of Bari and at 4-6% in Southern Indian tribes (2,5). Two laboratories reported this DNA carrying both 2DL5A and 2DL5B genes. One laboratory reported this DNA as positive for 2DS4 but negative for 2DS5, and another laboratory reported this DNA as positive for 3DL1.

References

1. Du, Z., Gjertson, D. W., Reed, E. F., and Rajalingam, R. (2007). Receptor-ligand analyses define minimal killer cell Ig-like receptor (KIR) in humans. *Immunogenetics* 59, 1-15.
2. 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*.
3. Toneva, M., Lepage, V., Lafay, G., Dulphy, N., Busson, M., Lester, S., Vu-Trien, A., Michaylova, A., Naumova, E., McCluskey, J., and Charron, D. (2001). Genomic diversity of natural killer cell receptor genes in three populations. *Tissue Antigens* 57, 358-362.
4. 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.
5. 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*.

Table 1. Summary of the 17th KIR Exchange (KDNA#65-68)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#17	#0065	60	POS	POS <i>*001-[*]003/ *005 [4]</i>	POS	POS <i>*001-[*]005/ *007/ [*]008/ *011/ [*]012 [1] NT [2]</i>	POS B [16] B [*] 002/ [*] 004/ [*] 007 [2] B [*] 002/ [*] 004/ [*] 007/ *003/ [*] 006 [2] B [*] 002 [1] B [*] 002- [*] 004 [1] B [*] 002/ [*] 006- [*] 009 [1] B [*] 002/ A [*] 005 [1]	POS <i>*001, [*]1502 [1] *001/ [*]007-[*]009/ [*]015- *044/ [*]056/ [*]057 [1] *00101- [*]002/ [*]00501- *009/ [*]01501- [*]044/ *056/ [*]057 [1]</i>	POS NT [1]	POS NT [1]	NEG	NEG	POS	POS <i>*001 [1] NEG [1]</i>	POS <i>*001/ [*]002, [*]003-[*]007 [4] DEL, FULL [2] *001, [*]003/ [*]004/ [*]006/ [*]007/ *009 [2] *001, [*]003-[*]009 [1] FULL, [*]003/ [*]004/ [*]006/ [*]007/ *009 [1] *001, [*]003/ [*]006 [1] *001/ [*]002, [*]003-[*]006 [1] *001-[*]007 [1] *001/ [*]003/ [*]006/ [*]007/ [*]009 [1] *0010201-[*]00103/ [*]003/ [*]004/ *006/ [*]007/ [*]009 [1]</i>	NEG	POS NT [3]	POS <i>*003 [19] *00301/ [*]00302 [2] *003/ [*]005/ [*]006 [3] *003, - [1] NT [3]</i>
	#0066	60	POS <i>NEG [1]</i>	POS <i>*001-[*]003/ *005 [4] NEG [1]</i>	POS <i>NEG [1]</i>	POS <i>*001-[*]005/ *007/ [*]008/ *011/ [*]012 [1] NT [2]</i>	POS A, B [10] A [*] 005, B [*] 002 [2] A [*] 005, B [*] 002/ [*] 006- *009 [1] A [*] 001/ [*] 005, B [*] 002/ *004/ [*] 007 [1] A [*] 001/ [*] 005, B [*] 003/ *006 [1]	POS <i>*001 [1] *001/ [*]007-[*]009/ [*]015- *044/ [*]056/ [*]057 [1] *00101- [*]002/ [*]00501- *009/ [*]01501- [*]044/ *056/ [*]057 [1]</i>	POS NT [1]	POS NT [1]	POS NT [1]	POS <i>*002-[*]004 [1] *0020101- *004 [1] NEG [2]</i>	POS <i>*001 [1]</i>	POS <i>*003-[*]007 [13] *003/ [*]004/ [*]006/ [*]007 [5] *003/ [*]004/ [*]006/ [*]007/ [*]009 [3] DEL [2] *003/ [*]006 [2] *003/ [*]004/ [*]006 [1] *003/ [*]004/ [*]006/ [*]007/ [*]009, - [1] *003/ [*]006/ [*]007/ [*]009 [1] *003-[*]006 [1] *003-[*]009 [1]</i>	NEG	POS NT [3]	POS <i>*003 [20] *00301/ [*]00302 [2] *003/ [*]005/ [*]006 [3] *003, - [1] NT [3]</i>	
	#0067	60	POS	POS <i>*001-[*]003/ *005 [4]</i>	POS	POS <i>*001-[*]005/ *007/ [*]008/ *011/ [*]012 [1] NT [2]</i>	POS B [15] B [*] 002/ [*] 004/ [*] 007 [3] B [*] 002/ [*] 004/ [*] 007/ *003/ [*] 006 [2] B [*] 002- [*] 004 [1] B [*] 003/ [*] 004/ [*] 006- *009 [1] A [*] 001/ B [*] 006 [1]	POS <i>*001 [1] *001/ [*]007- [*]009/ [*]015 *044/ [*]056/ [*]057 [1] *00101- [*]002/ [*]00501- *009/ [*]01501- [*]044/ *056/ [*]057 [1]</i>	POS NT [1]	POS NT [1]	NEG	POS <i>*002-[*]004 [1] *0020101- *004 [1] NT [2]</i>	NEG	POS <i>*003-[*]007 [12] *003/ [*]004/ [*]006/ [*]007 [5] *003/ [*]004/ [*]006/ [*]007/ [*]009 [3] DEL [2] *003/ [*]006 [2] *003/ [*]004/ [*]006 [1] *003/ [*]004/ [*]006/ [*]007/ [*]009, - [1] *003/ [*]006/ [*]007/ [*]009 [1] *003-[*]006 [1] *003-[*]009 [1] *001-[*]007 [1]</i>	POS <i>NEG [1]</i>	POS NT [3]	POS <i>*003 [20] *00301/ [*]00302 [2] *003/ [*]005/ [*]006 [3] *003, - [1] NT [3]</i>	
	#0068	60	POS	NEG	POS	POS <i>*001-[*]005/ *007/ [*]008/ *011/ [*]012 [1] NT [2]</i>	POS A [15] A [*] 001/ [*] 005 [6] A [*] 001 [2] A [*] 001/ B [*] 006 [1] A [*] 001/ B [*] 003/ [*] 004 [1]	NEG <i>POS [1]</i>	POS NT [1]	POS	POS	POS <i>*002-[*]004 [1] *0020101- *004 [1]</i>	NEG NT [1]	NEG	NEG <i>POS [2]</i>	POS <i>NEG [1]</i>	POS NT [3]	POS <i>*003 [19] *00301/ [*]00302 [2] *003/ [*]005/ [*]006 [3] *003, - [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 #65

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	NEG	POS	POS	POS	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002/ *004/ *007/ *003/ *006	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8025	Carrington/Mar	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, *003/ *004/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	NT	NT	
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A	POS	POS	POS	POS	B	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	NEG	NEG	POS	POS	*0010201- *00103/ *003/ *004/ *006/ *007/ *009	NEG	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	*001	POS	NEG	POS	*003	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	SSP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8051	Endres/Wiltbank	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	SSP
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003/ *006	NEG	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
615	Holdsworth/Tait	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP

Table 2. KIR Exchange Sample: KDNA #65

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5000	Hsu,Susan H.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
836	KuKuruga,Debr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
8002	MacCann,Eileen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*003, -	SSP
8027	Middleton,Der	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003- *009	NEG	POS	POS	SSOP
733	Mytilineos,Joan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul/Vejba	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4141	Pollack,Maril	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3798	Reinsmoen,Nan	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
1694	Sauer/Guttwald	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*002	*001, *1502	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	MULTIPLEX SSP
740	Snider,Denis	POS	POS	POS	POS	B*002/ *004/ *007/ *003/ *006	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	*003	SSP
702	Spannagl,Michae	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8032	Spyropoulou-Vla	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003-*006	NEG	POS	*003	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	*001- *003/ *005	POS	*001 - *005/ *007/ *008/ *011/ *012	B*002/ *006- *009	*001/ *007- *009/ *015- *044/ *056/ *057	POS	POS	NEG	NEG	POS	POS	*001/ *003/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSOP
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP

Table 2. KIR Exchange Sample: KDNA #65

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
4021	Trachtenberg, Eliz	POS	POS	POS	POS	B*002/ A*005	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	NT	POS	NEG	NEG	POS	POS	DEL, FULL	NEG	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001-*007	NEG	POS	*003	SSP
8053	Tyan, Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003-*007	NEG	POS	*003	SSP,SSOP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
705	Watkins, David I.	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
713	Zachary, Andre	POS	POS	POS	POS	B*002/ *004	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	

Table 3. KIR Exchange Sample: KDNA #66

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	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8025	Carrington/Mar	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP, SSOP
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NT	NT	
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A	POS	POS	POS	POS	A, B	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	POS	*0020101- *004	POS	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	*00301/ *00302	SSP
189	Crowe, Deborah	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	NEG	POS	*003	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8051	Endres/Wiltbank	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *006	NEG	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP

Table 3. KIR Exchange Sample: KDNA #66

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8041	Han,Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006	NEG	POS	*00301/ *00302	SSP
1461	Hidajat,Melan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
615	Holdsworth/Tait	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
836	KuKuruga,Debr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	DEL	NEG	NT	NT	MULTIPLEX SSP
8002	MacCann,Eileen	POS	POS	POS	POS	POS	POS	POS	POS	NT	POS	POS	POS	POS	NEG	POS	POS	SSP
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009, -	NEG	POS	*003, -	SSP
8027	Middleton,Der	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *009	NEG	POS	POS	SSOP
733	Mytilineos,Joan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul/Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4141	Pollack,Maril	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSP
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3798	Reinsmoen,Nan	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
1694	Sauer/Guttwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*002, A*005	*001	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	MULTIPLEX SSP

Table 3. KIR Exchange Sample: KDNA #66

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
740	Snider, Denis	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*003- *007	NEG	POS	*003	SSP
702	Spannagl, Michae	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8032	Spyropoulou-Vla	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *006	NEG	POS	*003	SSP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
769	Tavoularis, Sofia	POS	*001- *003/ *005	POS	*001- *005/ *007/ *008/ *011/ *012	A*005, B*002/ *006- *009	*001/ *007- *009/ *015- *044/ *056/ *057	POS	POS	POS	*002-*004	POS	POS	*003/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSOP
230	Thoni, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	B*002/ A*005	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	NT	POS	POS	POS	POS	POS	DEL	NEG	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8053	Tyan, Dolly	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	*003- *007	NEG	POS	*003	SSP, SSOP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras, BI	POS	POS	POS	POS	A, B	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth, Raif	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
705	Watkins, David I.	POS	POS	POS	POS	A*001/ *005, B*003/ *006	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*003	SSOP
713	Zachary, Andre	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *006	NEG	POS	*003	

Table 4. KIR Exchange Sample: KDNA #67

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	
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	SSOP	
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002/ *004/ *007/ *003/ *006	POS	POS	POS	NEG	POS	POS	NEG	*001-007	POS	POS	*003	SSP	
8025	Carrington/Mar	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	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	SSP	
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP, SSOP	
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	NT	NT		
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	
5130	Costeas, Paul A	POS	POS	POS	POS	B	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	NEG	*0020101- *004	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*00301/ *00302	SSP	
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	*003	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP	
8031	Dinauer, David	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	
8051	Endres/Wiltbank	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *006	POS	POS	POS	SSOP	
762	Fischer, Gottf	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	
8040	Gladman/Pellet	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	*00301/ *00302	SSP	
1461	Hidajat, Melan	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
615	Holdsworth/Tait	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
5000	Hsu, Susan H.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP, SSP	
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	

Table 4. KIR Exchange Sample: KDNA #67

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
836	KuKuruga,Debr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	DEL	POS	NT	NT	MULTIPLEX SSP
8002	MacCann,Eileen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007/ *009, -	POS	POS	*003, -	SSP
8027	Middleton,Der	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003-*009	POS	POS	POS	SSOP
733	Mytilineos,Joan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	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/Vejba	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4141	Pollack,Maril	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSP
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3798	Reinsmoen,Nan	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
1694	Sauer/Guttwald	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
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	*001	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	MULTIPLEX SSP
740	Snider,Denis	POS	POS	POS	POS	B*002/ *004/ *007/ *003/ *006	POS	POS	POS	NEG	POS	POS	NEG	*003-*007	POS	POS	*003	SSP
702	Spannagl,Michae	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8032	Spyropoulou-Vla	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-*006	POS	POS	*003	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	*001- *003/ *005	POS	*001- *005/ *007/ *008/ *011/ *012	B*003/ *004/ *006 - *009	*001/ *007- *009/ *015- *044/ *056/ *057	POS	POS	NEG	*002-*004	POS	NEG	*003/ *006/ *007/ *009	POS	POS	*003/ *005/ *006	SSOP
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	A*001/ B*006	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	MALDI-TDF
8024	Trowsdale,Joh	POS	POS	POS	NT	POS	POS	NT	POS	NEG	POS	POS	NEG	DEL	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #67

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
5462	Turner, Victor	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP	
8053	Tyan, Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003-007	POS	POS	*003	SSP,SSOP	
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	NEG	POS	POS	NEG	POS	NEG	NT	NT	SSP	
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	
8023	Vilches, Carlo	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	*003/ *005/ *006	SSP	
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP	
705	Watkins, David I.	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003		
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	*003	SSOP
713	Zachary, Andre	POS	POS	POS	POS	B*002/ *004	POS	POS	POS	NEG	POS	POS	NEG	*003/ *006	POS	POS	*003		

Table 5. KIR Exchange Sample: KDNA #68

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	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8033	Balazs, Ivan	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8025	Carrington/Mar	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
3224	Chen, Dongfeng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP, SSOP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	NT	NT	
3632	Colombe, Beth	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
5130	Costeas, Paul A	POS	NEG	POS	POS	A	NEG	POS	POS	POS	*0020101- *004	NEG	NEG	NEG	POS	POS	*00301/ *00302	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
3186	Dunckley, Heather	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8051	Endres/Wiltbank	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8038	Fernandez-Vina, M	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
762	Fischer, Gottf	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8026	Gardiner, Clair	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8040	Gladman/Pellet	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8041	Han, Hoon	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
615	Holdsworth/Tait	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP, SSP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8037	Kotsch, Katja	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
836	KuKuruqa, Debr	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8046	Kusnierczyk, Piotr	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	NT	NT	MULTIPLEX SSP
8002	MacCann, Eileen	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
5142	Marsh, Steven	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003, -	SSP
8027	Middleton, Der	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
733	Mytilineos, Joan	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
2549	Nehlsen-Canna	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	
8039	Noreen, Harriet	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
8022	Olerup, Olle	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
3966	Permpikul/Vejba	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
16	Pidwell, Diane J.	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
4141	Pollack, Maril	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #68

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
3798	Reinsmoen,Nan	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
1694	Sauer/Guttwald	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	A*001	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	MULTIPLEX SSP
740	Snider,Denis	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
702	Spannagl,Michae	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	SSP
8032	Spyropoulou-Vla	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
746	Stamm,Luz	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	NEG	POS	*001- *005/ *007/ *008/ *011/ *012	A*001, B*003/ *004	NEG	POS	POS	POS	*002-*004	NEG	NEG	NEG	POS	POS	*003/ *005/ *006	SSOP
230	Thoni,Deborah	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	A*001/ B*006	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	MALDI-TDF
8024	Trowsdale,Joh	POS	NEG	POS	NT	POS	NEG	NT	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
5462	Turner,Victor	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	A*001	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	SSP,SSOP
8028	Uhrberg,Marku	POS	NEG	POS	NT	POS	NEG	POS	NT	POS	POS	NEG	NEG	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,BI	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
8023	Vilches,Carlo	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
705	Watkins,David I.	POS	NEG	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	
1466	Yu,Neng	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
713	Zachary,Andre	POS	NEG	POS	POS	A	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*003	

PARTICIPATING CENTERS									
Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		McCluskey	James	Prof	Adelaide	Australia
Balazs	Ivan		Stamford CT		Middleton	Derek	Prof	Belfast	N. Ireland
Baxter-Lowe	Lee Ann	Dr	San Francisco CA		Mytilineos	Joannis	MD	Ulm	Germany
Carrington/Martin		Drs	Frederick MD		Nehlsen-Cannarella	Sandra	Dr	Detroit MI	
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
Christiansen/Witt			Perth	Australia	Pidwell	Diane	PhD	Cleveland OH	
Colombe	Beth	PhD	Philadelphia PA		Pollack	Marilyn	PhD	San Antonio TX	
Costeas	Paul A.	Dr	Nicosia	Cyprus	Reed/Rajalingam		Drs	Los Angeles CA	
Crowe	Deborah	PhD	Nashville TN		Reinsmoen	Nancy	PhD	Los Angeles CA	
Davidson/Poulton		Drs	Manchester	England	Sauer	Norbert		Lich	Germany
Davis	Mary	PhD	Stamford CT		Schroeder	M.L.	MD	Winnipeg MB	Canada
Dinauer	David		Brown Deer WI		Senitzer	David	PhD	Duarte CA	
Dunckley	Heather	PhD	Sydney NSW	Australia	Snider	Denis	PhD	Buffalo NY	
Fernandez-Vina	Marcelo	PhD	Houston TX		Spannagl	Michael	Dr	Munich	Germany
Fischer	Gottfried	Dr	Vienna	Austria	Stamm	Luz		Calgary AB	Canada
Gardiner	Clair	PhD	Dublin	Ireland	Stavropoulos-Giokas	Catherine	Dr	Athens	Greece
Gillespie	Kathleen	Dr	Bristol	UK	Tavoularis	Sofia	Dr	Ottawa ON	Canada
Gladman/Pellett			Toronto ON	Canada	Thoni	Deborah	MD	Orlando FL	
Graff	Ralph J.	Dr	St Louis MO		Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Han	Hoon	Dr	Seoul	S. Korea	Tilanus	Marcel	Dr	Maastricht	Germany
Hidajat	Melanny		Brugge	Belgium	Trachtenberg	Elizabeth	PhD	Oakland CA	
Holdsworth/Tait			South Melbourne	Australia	Trowsdale	John	Prof	Cambridge	UK
Hsu	Susan H.	PhD	Philadelphia PA		Turner	E.V.	PhD	Memphis TN	
Kashiwase	Koichi	MD	Tokyo	Japan	Tyan	Dolly	Dr	Palo Alto	
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Uhrberg	Markus	Dr	Dusseldorf	Germany
Kotsch	Katja	PhD	Berlin	Germany	Vidan-Jeras	Blanka		Ljubljana	Slovenia
KuKuruga	Debra	PhD	Baltimore MD		Vilches	Carlos	Dr	Madrid	Spain
Kusnierczyk	Piotr		Wroclaw	Poland	Wassmuth	Ralf	Prof	Dresden	Germany
Loewenthal	Ron	MD PhD	Tel-Hashomer	Israel	Watkins	David	PhD	Madison WI	
MacCann	Eileen		Providence RI		Wiltbank/Endres		Drs	Tempe AZ	
Mah	Helen		Boston MA		Yu	Neng	MD	Dedham MA	
Marsh	Steven	Dr	London	England	Zachary	Andrea	PhD	Baltimore MD	