

REPORT OF THE 18th UCLA INTERNATIONAL KIR EXCHANGE

MAY 6, 2009

KIR

69-72

Dear Colleagues:

For the 18th KIR Exchange, 4 DNA samples (KDNA#69-72) were shipped to each laboratory on February 4, 2009. 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 KIR2DL2, 2DL4, 2DL5, 3DL1, 2DS4, and 3DP1 loci.

The results 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 8 of the 16 tested KIR loci, that is, KIR3DL1, 3DL2, 3DL3, 3DS1, 2DS1, 2DS3, 2DS5 and 2DP1. One laboratory typed all four samples as negative for KIR2DL2 and another laboratory typed all samples negative for KIR2DL3. Discrepant results from the consensus typing are italicized in the listing of results (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.

KIR Exchange Sample: KDNA # 0069:

The ethnic information for this donor is not available. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4-2DP1-3DP1. This is the second most common KIR genotype in Caucasians occurring at a frequency of 10-15% (1). Three laboratories reported this sample as negative for either KIR2DL1, KIR2DL2, or KIR2DL3.

KIR Exchange Sample: KDNA # 0070:

KDNA#70 was obtained from an Hispanic individual. The consensus KIR type of this sample indicates the presence of all 16 known KIR genes. This genotype occurs at a frequency of 22% in the indigenous populations of India, while it is absent in the natives of America (2,3). Four laboratories could not detect one of 4 KIR genes, either 2DL2, 2DL3, 2DS2, or 3DP1. Furthermore, 3 laboratories could not detect the KIR2DS4 gene.

KIR Exchange Sample: KDNA # 0071:

KDNA#71 was obtained from an Asian individual. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-3DL1-3DL2-3DL3-2DS4-2DP1-3DP1. This AA KIR genotype is comprised of a fixed content of 7 KIR genes and 2 pseudogenes occurring in all populations with highest representations in Japanese, Chinese, and Koreans (1). Two laboratories reported this sample as negative for either KIR2DL3 or KIR2DL4.

KIR Exchange Sample: KDNA # 0072:

The DNA was isolated from an African American donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4-2DP1-3DP1. This is the second most common KIR genotype in African populations occurring at a frequency of 10-17% (1,3). Three laboratories reported this sample as negative for either KIR2DL2, KIR2DL3, or KIR2DL5.

References

1. 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.
2. 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.
3. 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.

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Table 1. Summary of the 18th KIR Exchange (KDNA#69-72)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#18	#0069	60	POS <i>NEG [1]</i>	POS <i>*001- *003/ *005 [2]</i> <i>*001- *003, *005 [1]</i> <i>*003/ *005 [1]</i> <i>NEG [1]</i>	POS <i>NEG [1]</i>	POS <i>*001- 005/ *007/ *008/ *011/ *012 [1]</i> <i>*001- *006/ *010/ *012// *007- *009/ *011 [1]</i> <i>NT [2]</i>	NEG	POS <i>*002 [1]</i> <i>*001- *002/ *005- *009 [1]</i>	POS <i>NT [1]</i>	POS <i>NT [1]</i>	NEG	NEG	POS <i>*001- *005 [1]</i>	NEG	POS <i>*001/ *002 [18]</i> <i>*001 [6]</i> <i>FULL [4]</i> <i>*001, - [1]</i> <i>*001, *001 [1]</i> <i>*001- *002 [1]</i> <i>*001/ *002/ *004g [1]</i>	NEG	POS <i>NT [3]</i>	POS <i>*001/ *002/ *004, *003 [8]</i> <i>*003 [5]</i> <i>*001/ *002/ *004, *003/ *005/ *006 [2]</i> <i>*001/ *002/ *004g [1]</i> <i>*001- *004 [1]</i> <i>*001- *006 [1]</i> <i>NT [3]</i>
	#0070	60	POS	POS <i>*001- *003/ *005 [3]</i> <i>*001- *003, *005 [1]</i> <i>NEG [1]</i>	POS <i>NEG [1]</i>	POS <i>*001- *006/ *010/ *012// *007- *009/ *011 [1]</i> <i>*001- *008/ *011/ *012 [1]</i> <i>NT [2]</i>	POS <i>A, B [14]</i> <i>A*001/ *005, B*002/ *004/ *007 [2]</i> <i>A*001/ *005, B*002- *004/ *006- *009 [1]</i> <i>B*002 [1]</i>	POS <i>*007 [1]</i> <i>*001- *002/ *005- *009 [1]</i>	POS <i>NT [1]</i>	POS <i>NT [1]</i>	POS	POS <i>*002- *004 [1]</i> <i>*002- *004/ *008 [1]</i>	POS <i>NEG [1]</i>	POS <i>*001 [1]</i>	POS <i>*003- *007 [13]</i> <i>*003/ *004/ *006/ *007 [5]</i> <i>*003/ *004/ *006/ *007/ *009 [3]</i> <i>DEL [3]</i> <i>*004 [2]</i> <i>*001- *006/ *009 [1]</i> <i>*003 [1]</i> <i>*003g [1]</i> <i>*003/ *004/ *006 [1]</i> <i>*003/ *004/ *006/ *007/ *009 [1]</i> <i>*003/ *004/ *006/ *007/ *009, - [1]</i> <i>*004, *004 [1]</i> <i>NEG [3]</i>	POS	POS <i>NT [3]</i>	POS <i>*003 [22]</i> <i>*003/ *005/ *006 [3]</i> <i>*003, - [1]</i> <i>*00301/ *00302 [1]</i> <i>NEG [1]</i> <i>NT [3]</i>
	#0071	60	POS	NEG	POS <i>NEG [1]</i>	POS <i>*001- *005/ *007/ *008/ *011/ *012 [1]</i> <i>*007- *009/ *011 [1]</i> <i>NEG [1]</i> <i>NT [2]</i>	NEG	POS <i>*005, *019 [1]</i> <i>*001- *002/ *005- *009 [1]</i>	POS <i>NT [1]</i>	POS <i>NT [1]</i>	NEG	NEG	NEG	NEG	POS <i>*003- *007 [14]</i> <i>*003/ *004/ *006/ *007 [4]</i> <i>*003/ *004/ *006/ *007/ *009 [4]</i> <i>DEL [4]</i> <i>*003 [1]</i> <i>*003/ *004/ *006 [1]</i> <i>*003/ *004/ *006/ *007/ *009, - [1]</i> <i>*003/ *006/ *007/ *009 [1]</i> <i>*003/ *006/ *007/ *009, *003/ *006/ *007/ *009 [1]</i> <i>*003g [1]</i> <i>*001/ *002 [1]</i>	NEG	POS <i>NT [3]</i>	POS <i>*003 [23]</i> <i>*003/ *005/ *006 [3]</i> <i>*00301/ *00302 [1]</i> <i>*003, - [1]</i> <i>NT [3]</i>
	#0072	60	POS	POS <i>*001- *003/ *005 [3]</i> <i>*001- *003, *005 [1]</i> <i>NEG [1]</i>	POS <i>NEG [1]</i>	POS <i>*001- *006/ *010/ *012// *007- *009/ *011 [1]</i> <i>*001- *008/ *011/ *012 [1]</i> <i>NT [2]</i>	POS <i>B [17]</i> <i>B*002 [1]</i> <i>B*002- *004/ *006/ *007 [1]</i> <i>B*002/ *004/ *007 [1]</i> <i>B*002/ *004/ *007, B*003/ *006 [1]</i> <i>B*002/ *009 [1]</i> <i>B*003/ *006 [1]</i> <i>NEG [1]</i>	POS <i>*007 [1]</i> <i>*001- *002/ *005- *009 [1]</i>	POS <i>NT [1]</i>	POS <i>NT [1]</i>	NEG	NEG	POS	POS <i>*001 [1]</i>	POS <i>*001/ *002, *003- *007 [6]</i> <i>DEL, FULL [3]</i> <i>*001- *007 [3]</i> <i>*001/ *002, *003/ *004/ *006/ *007 [2]</i> <i>*001, *003/ *004/ *006/ *007/ *009 [2]</i> <i>FULL [1]</i> <i>*001, *003g [1]</i> <i>*001, *004 [1]</i> <i>*001- *007 [1]</i> <i>*001/ *003/ *004/ *006/ *007/ *009 [2]</i> <i>*001// *003/ *004/ *006/ *007/ *009 [1]</i>	NEG	POS <i>NT [3]</i>	POS <i>*003 [23]</i> <i>*003/ *005/ *006 [3]</i> <i>*00301/ *00302 [1]</i> <i>*003, - [1]</i> <i>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 #69

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	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	*001- *006/ *010/ *012// *007- *009/ *011	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	RSSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8025	Carrington&Marti	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	*001/ *002/ *004, *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	RSSOP, SSP
124	Christiansen&Wit	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	MULTIPLEX 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	*001- *002/ *005- *009	POS	POS	NEG	NEG	*001- *005	NEG	*001	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	
8030	Davidson&Poulto	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	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	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heath	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	*001/ *002/ *004, *003	SSP

Table 2. KIR Exchange Sample: KDNA #69

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8051	Endres&Wiltbank	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, *001	NEG	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett	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	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001- *002	NEG	POS	POS	SSP
615	Holdsworth,Rhon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	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	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NT	NT	MULTIPLEX 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	*001/ *002/ *004, *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,Diane J.	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, DUPLEX SSP
3798	Reinsmoen,Nanc	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSOP,SSP
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	POS	SSP
1426	Senitzer,David	POS	POS	POS	POS	NEG	*002	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	MULTIPLEX SSP

Table 2. KIR Exchange Sample: KDNA #69

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	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001- *004	SSP
702	Spannagl, Michae	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8032	Spyropoulou-Vla	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	POS	SSP,SSOP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	POS	SSOP
769	Tavoularis, Sofia	POS	*003/ *005	POS	*001- *005/ *007/ *008/ *011/ *012	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001	NEG	POS	*001- *006	SSOP,SSP
230	Thoni, Deborah	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
747	Tiercy, Jean-Marie	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
5451	Tilanus, Marcel	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	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.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004	SSOP,SSP
8053	Tyan, Dolly	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg, Markus	NEG	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	*003g	NEG	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP,SSOP
705	Watkins, David I.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002	NEG	POS	*003	SSP
1466	Yu, Neng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
713	Zachary, Andrea	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #70 (Hispanic)																			
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	POS	POS	*003	SSP	
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	*001- *006/ *010/ *012// *007- *009/ *011	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009	POS	POS	POS	RSSOP	
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSP	
8025	Carrington&Marti	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	DEL	POS	POS	*003/ *005/ *006	SSP	
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP, SSP
124	Christiansen&Wit	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	POS	NT	NT	MULTIPLEX SSP	
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	A,B	*001- *002/ *005- *009	POS	POS	POS	*002- *004	POS	POS	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP	
189	Crowe, Deborah	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003		
8030	Davidson&Poulto	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	*004	POS	POS	POS	SSOP
1108	Davis, Mary	POS	*001- *003, *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009	POS	POS	POS	SSOP	
8031	Dinauer, David	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	NEG	POS	*003- *007	POS	POS	*003	SSP	
3186	Dunckley, Heath	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4251	Ellis, Thomas	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSP	

Table 3. KIR Exchange Sample: KDNA #70 (Hispanic)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8051	Endres&Wiltbank	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*004, *004	POS	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8040	Gladman/Pellett	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8041	Han,Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006	POS	POS	*00301/ *00302	SSP
1461	Hidajat,M.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
615	Holdsworth,Rhon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
836	KuKuruga,Debor	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	DEL	POS	NT	NT	MULTIPLEX SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009, -	POS	POS	*003, -	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP,SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP, DUPLEX SSP
3798	Reinsmoen,Nanc	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSOP,SSP
1694	Sauer&Gottwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*002	*007	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	MULTIPLEX SSP

Table 3. KIR Exchange Sample: KDNA #70 (Hispanic)

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	POS	POS	POS	*001- *006/ *009	POS	POS	*003	SSP
702	Spannagl, Michae	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8032	Spyropoulou-Vla	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP,SSOP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
769	Tavoularis, Sofia	POS	*001- *003/ *005	POS	*001- *008/ *011/ *012	A*001/ *005, B*002- *004/ *006- *009	POS	POS	POS	POS	*002- *004/ *008	POS	POS	*004	POS	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	
747	Tiercy, Jean-Marie	POS	POS	POS	POS	A*001/ *005, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
5451	Tilanus, Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007/ *009	POS	POS	POS	MALDI-TOF
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	POS	POS	POS	POS	POS	DEL	POS	POS	*003	SSP
5462	Turner, E.V.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	*003	SSOP,SSP
8053	Tyan, Dolly	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
8028	Uhrberg, Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	NEG	POS	NT	NT	SSP
3775	Vidan-Jeras, Blan	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	SSP
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003g	POS	POS	*003/ *005/ *006	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP,SSOP
705	Watkins, David I.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*003- *007	POS	POS	*003	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
713	Zachary, Andrea	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003	SSP

Table 4. KIR Exchange Sample: KDNA #71 (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	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	NEG	POS	*007- *009/ *011	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	RSSOP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
8025	Carrington&Marti	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	NEG	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP, SSP
124	Christiansen&Wit	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003	NEG	NT	NT	MULTIPLEX SSP
3632	Colombe, Beth	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A.	POS	NEG	POS	POS	NEG	*001- *002/ *005- *009	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	
8030	Davidson&Poulto	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
3186	Dunckley, Heathe	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4251	Ellis, Thomas	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
8051	Endres&Wiltbank	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP

Table 4. KIR Exchange Sample: KDNA #71 (Asian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8038	Fernandez-Vina&	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *006/ *007/ *009, *003/ *006/ *007/ *009	NEG	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
8026	Gardiner,Clair M.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
8041	Han,Hoon	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006	NEG	POS	*00301/ *00302	SSP
1461	Hidajat,M.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
615	Holdsworth,Rhon	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4337	Kim,Tai-Gyu	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
836	KuKuruga,Debor	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	NEG	NT	NT	MULTIPLEX SSP
278	Lee,Jar-How	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP
5142	Marsh,Steven	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007/ *009, -	NEG	POS	*003, -	SSP
733	Mytilineos,Joanni	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	
8022	Olerup,Olle	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP,SSP
3753	Reed&Rajalingam	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP, DUPLEX SSP
3798	Reinsmoen,Nanc	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSOP,SSP
1694	Sauer&Gottwald	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #71 (Asian)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3410	Schroeder,M.L.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	NEG	*005, *019	POS	POS	NEG	NEG	NEG	NEG	DEL	NEG	POS	POS	MULTIPLEX SSP
740	Snider,Denis	POS	NEG	POS	NEG	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
702	Spannagl,Michae	POS	NEG	NEG	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8032	Spyropoulou-Vla	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP,SSOP
746	Stamm,Luz	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	NEG	POS	*001- *005/ *007/ *008/ *011/ *012	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	
747	Tiercy,Jean-Marie	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
5451	Tilanus,Marcel	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	NEG	POS	NT	NEG	POS	NT	POS	NEG	NEG	NEG	NEG	DEL	NEG	POS	*003	SSP
5462	Turner,E.V.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002	NEG	POS	*003	SSOP,SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	NEG	POS	NT	NEG	POS	POS	NT	NEG	NEG	NEG	NEG	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSP
8023	Vilches,Carlos	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003g	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP,SSOP
705	Watkins,David I.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*003- *007	NEG	POS	*003	SSP
1466	Yu,Neng	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSOP
713	Zachary,Andrea	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSP

Table 5. KIR Exchange Sample: KDNA #72 (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	NEG	POS	POS	POS	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	*001- *006/ *010/ *012// *007- *009/ *011	POS	POS	POS	POS	NEG	NEG	POS	POS	*001// *003/ *004/ *006/ *007/ *009	NEG	POS	POS	RSSOP
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&Marti	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL, FULL	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, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP, SSP
124	Christiansen&Wit	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	NT	NT	MULTIPLEX SSP
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	*001- *002/ *005- *009	POS	POS	NEG	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	
8030	Davidson&Poulto	POS	NEG	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	*001/ *003/ *004/ *006/ *007/ *009	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	Dunkley, Heathe	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #72 (Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
4251	Ellis,Thomas	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*003	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&	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *004	NEG	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett	POS	POS	POS	POS	POS	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,M.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
615	Holdsworth,Rhon	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	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,Debor	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL, FULL	NEG	NT	NT	MULTIPLEX SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
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
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
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	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP,SSP

Table 5. KIR Exchange Sample: KDNA #72 (Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP, DUPLEX SSP
3798	Reinsmoen,Nanc	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	SSOP,SSP
1694	Sauer&Gottwald	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	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*003	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*002	*007	POS	POS	NEG	NEG	POS	POS	FULL	NEG	POS	POS	MULTIPLEX SSP
740	Snider,Denis	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	POS	*001- *007	NEG	POS	*003	SSP
702	Spannagl,Michae	POS	POS	NEG	POS	B	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	POS	NEG	POS	*003	SSP,SSOP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
769	Tavoularis,Sofia	POS	*001- *003/ *005	POS	*001- *008/ *011/ *012	B*002/ *009	POS	POS	POS	NEG	NEG	POS	POS	*001/ *003/ *004/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	SSOP,SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002 - *004/ *006/ *007	POS	POS	POS	NEG	NEG	POS	POS	*001- *007	NEG	POS	*003	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	POS	NEG	NEG	POS	POS	DEL, FULL	NEG	POS	*003	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001- *007	NEG	POS	*003	SSOP,SSP
8053	Tyan,Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP

Table 5. KIR Exchange Sample: KDNA #72 (Black)

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003g	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, SSOP
705	Watkins, David I.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001- *007	NEG	POS	*003	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
713	Zachary, Andrea	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP