

# REPORT OF THE 19th UCLA INTERNATIONAL KIR EXCHANGE

AUGUST 5, 2009

KIR

73-76

Dear Colleagues:

For the 19<sup>th</sup> KIR Exchange, 4 DNA samples (KDNA#73-76) were shipped to each laboratory on May 6, 2009. Fifty-nine laboratories submitted their KIR typing results. The majority of the laboratories used either commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, and others used either sequence-specific oligonucleotide probing (SSOP) method or MALDI-TOF/SNP assay. Some laboratories reported subtyping results for KIR2DL2, 2DL4, 2DL5, 3DL1, 2DS4, and 3DP1 loci.

The results for the 19<sup>th</sup> 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 4 DNA samples were reported without any discrepancy for 9 of the 16 tested KIR loci (KIR2DL1, 3DL1, 3DL2, 3DL3, 2DS2, 2DS3, 2DS5, 2DP1, and 3DP1). Discrepant results from the consensus typing are italicized in the listing of results, and described in the summation for each sample. Discrepancies at the allele level are not italicized. We encourage the participating laboratories to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

We thank for your active participation in the UCLA KIR Exchange program.

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## **KIR Exchange Sample: KDNA # 0073:**

KDNA#73 was from a Filipino donor. 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 genotype in Caucasians (1). One laboratory reported this sample as negative for KIR2DL3 and KIR2DL4, and another laboratory reported it as negative for KIR2DS4.

## **KIR Exchange Sample: KDNA # 0074:**

KDNA#74 was obtained from a Vietnamese individual. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-3DL1-3DL2-3DL3-2DS4-2DP1-3DP1. This is the most common genotype occurring in all populations with the highest representation in Chinese, Japanese, and Koreans (1). One laboratory typed this DNA as negative for KIR2DL3 and KIR2DL4, and another laboratory reported this DNA as positive for KIR2DS1.

## **KIR Exchange Sample: KDNA # 0075:**

KDNA#75 was obtained from an Hispanic donor. The consensus KIR

type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS4-2DS5-2DP1-3DP1. This genotype occurs most frequently in Native American populations with a frequency of 12-38% and in Mexican populations, it occurs at a frequency of 13-26% (2). Three laboratories reported this sample as negative for KIR2DL2, 2 laboratories reported negative for KIR2DL3, and 4 laboratories reported negative for KIR2DL5, KIR2DL4, KIR3DS1, or KIR2DS1. Two labs reported the possible presence of a novel KIR2DL5 sequence.

## **KIR Exchange Sample: KDNA # 0076:**

KDNA#76 was isolated from a Caucasian donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-3DS1-2DS2-2DS3-2DS4-2DP1-3DP1. This genotype occurs at a frequency of 8.6% in Southern Indian populations, while it is absent in the Native American, Mexican, and African populations (2, 3). One laboratory reported this sample as negative for KIR2DL2.

## 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. 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.
3. 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.

We thank Prof. Steven Marsh, Anthony Nolan Research Institute, in sharing the following additional findings for KDNA#69-72 (refer to Report of the 18th International KIR Exchange, May 6, 2009):

KDNA#0069: KIR3DL1\*002, \*01501\*\*  
KDNA#0070: KIR3DL1\*007

KDNA#0071: KIR3DL1\*00501  
KDNA#0072: KIR3DL1\*007, \*01501\*\*

KIR3DL1 allele typing using SBT approach adapted from Belle et al. *Tissue Antigens* 2008 71;434-9.

\*\*KIR3DL1\*01501 is ambiguous with KIR3DL1\*031

**NEXT MAILING DATE: February 3, 2010**

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

**Table 1. Summary of the 19th KIR Exchange (KDNA#73-76)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#19	#0073	59	POS	POS *001-*/003/ *005 [3] *003/*005 [1]	POS <i>NEG</i> [1]	POS *001-*/005/*007/ *008/*011/*012 [1] NT [2] <i>NEG</i> [1]	NEG	POS *001/*002/ *005-*/009/ *015-*/044 [1] *005 [1] *00501 [1]	POS NT [1]	POS NT [1]	NEG	NEG	POS	NEG	POS *003-*/007 [11] DEL [5] *003/*004/*006/*007 [5] *003/*004/*006/*007/*009 [3] *003/*004/*006 [2] *003/*007 [1] *003/*004/*006/*007-*/009 [1] *003/*004/*006/*007/*009, - [1] *003/*006/*007/*009, *003/*006/*007/ *009 [1] <i>NEG</i> [1]	NEG	POS NT [3]	POS *001/*002/*004, *003 [7] *001-*/004 [2] *003 [2] *001/*002/*004, *003/*005/*006 [1] *001/*002/*004 [1] *001/*002/*004, *003/*005/*006 [1] *001-*/006 [1] NT [3]
	#0074	59	POS NT [1]	NEG NT [1]	POS <i>NEG</i> [1]	POS *001-*/005/*007/ *008/*011/*012 [1] NT [2] <i>NEG</i> [1]	NEG	POS *002, *00401 [1] *002, *0401 [1] *004 [1]	POS NT [1]	POS NT [1]	NEG	NEG <i>POS</i> [1]	NEG	NEG	POS *001/*002, *003-*/007 [6] FULL, DEL [3] *001, *003/*004/*006/*007/*009 [2] *001/*002, *003/*004/*006/*007 [2] *001, DEL [1] *001/*002, *003/*007 [1] *001/*003/*004/*006/*007 [1] *001/*003/*004/*006/*007/*009 [1] *001, *003/*004/*006-*/009 [1] *001/*003/*006/*007/*009 [1] *001, *003/*006/*007/*009 [1] *001-*/004/*006 [1] *001-*/007 [1]	NEG	POS *001 [1] NT [3]	POS *003 [17] *003/*005/*006 [2] *003, - [1] *00301/*00302 [1] NT [3]
	#0075	59	POS	POS *001-*/003/ *005 [4] <i>NEG</i> [3]	POS <i>NEG</i> [2]	POS *001-*/005/*007/ *008/*011/*012 [1] <i>NEG</i> [1] NT [2]	POS A [15] A*001/*005 [6] NOVEL [2] *001 [1] *00103 [1] <i>NEG</i> [1]	POS *00101 [1] *001/*002/ *005-*/009/ *015-*/044 [1]	POS NT [1]	POS NT [1]	POS <i>NEG</i> [1]	POS *002-*/004 [1] *002/*003/ *004/*008 [1] <i>NEG</i> [1]	POS	NEG	POS *003-*/007 [12] DEL [5] *003/*004/*006/*007 [4] *003/*004/*006/*007/*009 [4] *003/*004/*006 [2] *003/*004/*006-*/009 [1] *003/*004/*006/*007/*009, - [1] *003/*006/*007/*009, *003/*006/*007/ *009 [1] *003/*007 [1]	POS	POS NT [3]	POS *001/*002/*004, *003 [6] *003 [2] *001/*002/*004 [1] *001-*/004 [1] *001-*/006 [1] *001/*002/*004, *003/*005/*006 [1] *002 [1] NT [3]
	#0076	59	POS	POS *001-*/003/ *005 [4] <i>NEG</i> [1]	POS	POS *001-*/005/*007/ *008/*011/*012 [1] NT [2]	POS B [14] B*002-*/004/*007 [3] A, B [2] B*002 [1] B*002-*/004 [1] B*002/*004/*007, B*003/*006 [1] B*002/*009 [1] B*002/*009/*010, A*005 [1]	POS *002, *00401 [1] *002, *0401 [1] *004 [1]	POS NT [1]	POS NT [1]	POS	NEG	POS	POS	POS *001/*002, *003-*/007 [6] DEL, FULL [3] *001, *003/*004/*006/*007/*009 [3] *001/*002, *003/*004/*006/*007 [2] *001, *003/*006/*007/*009 [2] *001-*/007 [1] *001/*002, *003/*007 [1] *001, DEL [1] *001, *003/*004/*006-*/009 [1] *001/*003/*004/*006/*007 [1]	NEG	POS NT [3]	POS *001/*002/*004, *003 [7] *003 [2] *001-*/004 [1] *001-*/006 [1] *001/*002/*004 [1] *001/*002/*004, *003/*005/*006 [1] *004, *00301/ *00302 [1] NT [3]

**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 #73 (Filipino)																		
CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	RSSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	NEG	POS	POS	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	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/ *015- *044	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	NEG	POS	POS	SSP
8030	Davidson&Poulto	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
1108	Davis, Mary	POS	*001- *003, *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heathe	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
4251	Ellis, Thomas	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP
8051	Endres&Wiltbank	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*001/ *002/ *004, *003	SSP

**Table 2. KIR Exchange Sample: KDNA #73 (Filipino)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8038	Fernandez-Vina&	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *006/ *007/ *009, *003/ *006/ *007/ *009	NEG	POS	POS	RSSOP
762	Fischer&Mayr	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*003	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/P	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *007	NEG	POS	POS	
8041	Han,Hoon	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006	NEG	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	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	DEL	NEG	NT	NT	MULTIPLEX SSP
8061	Lanzer,G.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
278	Lee,Jar-How	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
5142	Marsh,Steven	POS	POS	POS	POS	NEG	*00501	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009, -	NEG	POS	*001/ *002/ *004, *003	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	NEG	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
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
3798	Reinsmoen,Nanc	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*001- *004	SSP,SSOP
8060	Rost&Klein	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
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	*003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP

**Table 2. KIR Exchange Sample: KDNA #73 (Filipino)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
1426	Senitzer,David	POS	POS	POS	POS	NEG	*005	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	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	POS	NEG	POS	*001- *006	
230	Thoni,Deborah	POS	POS	NEG	NEG	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	*003- *007	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	*003/ *004/ *006/ *007- *009	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	POS	POS	NT	NEG	POS	NT	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP
5462	Turner,E.V.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006	NEG	POS	*001- *004	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	*003- *007	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	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
705	Watkins,David I.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	*001/ *002/ *004	SSP
1466	Yu,Neng	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RSSOP
713	Zachary,Andrea	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	NEG	POS	POS	SSP

**Table 3. KIR Exchange Sample: KDNA #74 (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	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSP
8033	Balazs,Ivan	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001, *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	POS	NEG	POS	*003	SSP
785	Chan,Soh Ha	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	POS	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	POS	NEG	NT	NT	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	*004	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSP
189	Crowe,Deborah	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	*001	*003	SSP
8030	Davidson&Poulto	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP
1108	Davis,Mary	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8031	Dinauer,David	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *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	
4251	Ellis,Thomas	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*003	SSP
8051	Endres&Wiltbank	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003- *007	NEG	POS	*003	SSP
8038	Fernandez-Vina&	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001, *003/ *006/ *007/ *009	NEG	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	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/Pellet/P	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP

**Table 3. KIR Exchange Sample: KDNA #74 (Vietnamese)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
4985	Graff,Ralph J.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003/ *007	NEG	POS	POS	
8041	Han,Hoon	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*00301/0 0302	SSP
1461	Hidajat,M.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	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	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
8061	Lanzer,G.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	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	*002, *00401	POS	POS	NEG	NEG	NEG	NEG	*001, *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	SSP
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
3798	Reinsmoen,Nanc	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003- *007	NEG	POS	*003	SSP,SSOP
8060	Rost&Klein	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP
1694	Sauer&Gottwald	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	NEG	*002, *0401	POS	POS	NEG	NEG	NEG	NEG	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP



**Table 3. KIR Exchange Sample: KDNA #74 (Vietnamese)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
746	Stamm,Luz	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *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	*001/ *003/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	
230	Thoni,Deborah	POS	NEG	NEG	NEG	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	*001/ *002, *003- *007	NEG	POS	*003	SSP
5451	Tilanus,Marcel	POS	NT	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	*001, *003/ *004/ *006- *009	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	NEG	POS	NT	NEG	POS	NT	POS	NEG	NEG	NEG	NEG	FULL, DEL	NEG	POS	POS	SSP
5462	Turner,E.V.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001- *004/ *006	NEG	POS	*003	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001/ *002, *003- *007	NEG	POS	*003	SSP
8028	Uhrberg,Markus	POS	NEG	POS	NT	NEG	POS	POS	NT	NEG	NEG	NEG	NEG	*001/ *002, *003- *007	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	*001, DEL	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
705	Watkins,David I.	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	*001- *007	NEG	POS	*003	SSP
1466	Yu,Neng	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RSSOP
713	Zachary,Andrea	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	*003	SSP

**Table 4. KIR Exchange Sample: KDNA #75 (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	A	POS	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	RSSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	NOVEL	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP, SSP
124	Christiansen&Wit	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	A	*001/ *002/ *005- *009/ *015- *044	POS	POS	POS	*002- *004	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	POS	SSP
8030	Davidson&Poulto	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heathe	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	
4251	Ellis, Thomas	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*001/ *002/ *004, *003	SSP
8051	Endres&Wiltbank	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP

**Table 4. KIR Exchange Sample: KDNA #75 (Hispanic)**

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	NEG	NEG	NOVEL	POS	POS	POS	POS	POS	POS	NEG	*003/ *006/ *007/ *009, *003/ *006/ *007/ *009	POS	POS	POS	SSOP,SSP
762	Fischer&Mayr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*002	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *007	POS	POS	POS	
8041	Han,Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006	POS	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	A	POS	POS	POS	POS	NEG	POS	NEG	*003- *007	POS	POS	POS	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
4337	Kim,Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
836	KuKuruga,Debor	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	NT	NT	MULTIPLEX SSP
8061	Lanzer,G.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
278	Lee,Jar-How	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	*00101	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007/ *009, -	POS	POS	*001/ *002/ *004, *003	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP,SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
3798	Reinsmoen,Nanc	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*001- *004	SSP,SSOP
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
1694	Sauer&Gottwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*001/ *002/ *004, *003	SSP

**Table 4. KIR Exchange Sample: KDNA #75 (Hispanic)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
1426	Senitzer,David	POS	POS	POS	POS	A*001	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	POS	POS	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
769	Tavoularis,Sofia	POS	*001- *003/ *005	POS	*001- *005/ *007/ *008/ *011/ *012	A*001/ *005	POS	POS	POS	POS	*002/ *003/ *004/ *008	POS	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*001- *006	
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	
747	Tiercy,Jean-Marie	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*003	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	A*00103	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006- *009	POS	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	POS	POS	POS	POS	NEG	DEL	POS	POS	POS	SSP
5462	Turner,E.V.	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003/ *004/ *006	POS	POS	POS	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	NEG	*003- *007	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	DEL	POS	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
705	Watkins,David I.	POS	POS	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	NEG	*003- *007	POS	POS	*001/ *002/ *004	SSP
1466	Yu,Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	RSSOP
713	Zachary,Andrea	POS	POS	POS	POS	A	POS	POS	POS	NEG	POS	POS	NEG	*003- *007	POS	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #76 (Caucasian)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	POS	RSSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002/ *004/ *007, *003/ *006	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP, SSP
124	Christiansen & Wit	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NT	NT	SSP
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
5130	Costeas, Paul A.	POS	POS	POS	POS	A, B	*004	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	SSP
8030	Davidson & Poulto	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heath	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	
4251	Ellis, Thomas	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP
8051	Endres & Wiltbank	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP

**Table 5. KIR Exchange Sample: KDNA #76 (Caucasian)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *006/ *007/ *009	NEG	POS	POS	RSSOP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	*003	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *007	NEG	POS	POS	
8041	Han,Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	*004, *00301/ *00302	SSP
1461	Hidajat,M.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP,SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
836	KuKuruga,Debor	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8046	Kusnierczyk,Piot	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
8061	Lanzer,G.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
278	Lee,Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
5142	Marsh,Steven	POS	POS	POS	POS	POS	*002, *00401	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001/ *002/ *004, *003	SSP
733	Mytilineos,Joanni	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8022	Olerup,Olle	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP,SSP
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
3798	Reinsmoen,Nanc	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001- *004	SSP,SSOP
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
1694	Sauer&Gottwald	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #76 (Caucasian)**

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	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003/ *004/ *006/ *007	NEG	POS	*001/ *002/ *004, *003	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*002	*002, *0401	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
702	Spannagl,Michae	POS	POS	POS	POS	A, B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001/ *003/ *004/ *006/ *007	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	*001- *003/ *005	POS	*001- *005/ *007/ *008/ *011/ *012	B*002/ *009	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *006/ *007/ *009	NEG	POS	*001- *006	
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	B*002/ *009/ *010/ A*005	POS	POS	POS	POS	NEG	POS	POS	*001, *003/ *004/ *006- *009	NEG	POS	POS	MALDI-TOF
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B*002- *004	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #76 (Caucasian)**

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	POS	NEG	POS	POS	*001, DEL	NEG	POS	*001/ *002/ *004, *003/ *005/ *006	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
705	Watkins, David I.	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	POS	NEG	POS	POS	*001- *007	NEG	POS	*001/ *002/ *004	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	RSSOP
713	Zachary, Andrea	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP



**PARTICIPATING CENTERS**

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