

# REPORT OF THE 27TH UCLA INTERNATIONAL KIR EXCHANGE

MAY 2, 2012

KIR 105-108

Dear Colleagues:

For the 27th KIR Exchange, 4 DNA samples (KDNA#105-108) were shipped to each laboratory on February 1, 2012. Sixty 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 sequence-specific oligonucleotide probing (SSOP) method.

The results for the 27th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Dr. Turner noted that all 4 samples carry a non-expressed 3DL1\*004 allele. Subtyping results for KIR2DL2, 2DL3, 2DL5, 3DL1, 2DS1, 2DS4, and 3DP1 loci were reported by some laboratories. The positive/

negative assignments for all 4 DNA samples were reported without any discrepancy for 11 of the 16 tested KIR loci (KIR2DL1, 2DL4, 2DL5, 3DL1, 3DL2, 3DL3, 2DS1, 2DS4, 2DS5, 2DP1, 3DP1). Discrepant results from the consensus typing are italicized in tables 1-5, and described in the summation for each sample. Discrepancies at the allele level are not italicized. Participants are encouraged to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

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

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## **KIR Exchange Sample: KDNA # 0105:**

KDNA#101 was derived from an Hispanic donor. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4FULL-2DS5-2DP1-3DP1. This DNA was previously studied as KDNA#053 (2007). In the 2007 study, a number of discrepancies were reported (one laboratory reported 2DL3 as negative, 1 reported 3DL1 as negative, and a third reported 2DS1 and 2DS4 as negative). In this current typing, only 1 discrepancy was reported in which 1 laboratory reported 3DS1 as negative. Seven laboratories assigned 2DS4\*001 and 9 laboratories reported 3DP1\*003. This is one of the most common genotypes occurring at high frequencies across all populations (1).

## **KIR Exchange Sample: KDNA # 0106:**

This sample was obtained from a Black donor. The consensus KIR type is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4 (FULL&DEL)-2DP1-3DP1. This sample was typed previously in the KIR

Exchange as KDNA#072 (2009). In the 2009 study, 1 laboratory reported this DNA as negative for 2DL2, 1 laboratory reported as negative for 2DL3, and another reported it as negative for 2DL5. In this present study, there were no discrepancies reported for this DNA. This genotype is the second most common KIR genotype in African populations, occurring at a frequency as high as 17% in Africans (2,3).

## **KIR Exchange Sample: KDNA # 0107:**

The ethnic origin of KDNA#107 is unknown. The consensus KIR type is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS4DEL-2DS5-2DP1-3DP1. This sample was previously typed as KDNA#019 (2004). In the 2004 study, 4 laboratories reported this sample as negative for both 2DS4 and 2DS5. In the present study, the only reported discrepancy was for 2DL2 in which 1 laboratory reported it as negative. The rare genotype of this DNA has only been identified in Southeast Asian populations with a frequency of 1.3% (1,3).

**KIR Exchange Sample: KDNA # 0108:**

The consensus KIR type for KDNA#108 is: 2DL1-2DL2-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4FULL-2DS5-2DP1-3DP1. This sample from a black donor was previously typed as KDNA#010 (2004). In the 2004 study, the majority of the participating laboratories did not report subtypes for 2DS4 or 3DP1. In this present study, 50% reported 2DS4FULL, with 5 reporting

2DS4\*001. For 3DP1, 26% reported 3DP1DEL and 8 laboratories reported 3DP1\*003. There were several discrepant results, with 2 laboratories reporting this DNA as positive for 2DL3 and 1 laboratory reporting it as negative for both 2DS2 and 2DS3. This genotype has been observed in African American populations at a frequency of 3.5% (2).

**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. Norman, P. J., C. V. Carrington, M. Byng, L. D. Maxwell, M. D. Curran, H. A. Stephens, D. Chandanayingyong, D. H. Verity, K. Hameed, D. D. Ramdath, and R. W. Vaughan. 2002. Natural killer cell immunoglobulin-like receptor (KIR) locus profiles in African and South Asian populations. *Genes Immun* 3:86-95.

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**Table 1. Summary of the 27th KIR Exchange (KDNA#105-108)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#27	#0105	60	POS	NEG	POS <i>*0010101-*006/ *008N/ *009/ *011+ [1]</i>	POS NT [2]	POS A [21] A*001/ *005 [2] A*00101 [1] A*001/ *005, B*002-*004/ *006/ *007 [1]	POS *020 [1]	POS NT [1]	POS NT [2]	POS <i>NEG [1]</i>	POS *002- *004 [1] *002- *008 [1]	NEG	NEG	POS FULL [18] *001 [6] *001/ *002 [5] *00101-*00103 [1] *0010101-0010103/ *00102/ *002 [1] DEL [1]	POS	POS NT [3]	POS DEL [13] *003 [8] *00301/ *00302 [1] *001-*006 [1] NT [3]
	#0106	60	POS	POS <i>*001- *003/ *005 [1]</i>	POS <i>*0010101-*006/ *008N/ *009/ *011+ [1]</i>	POS NT [2]	POS B [20] B*00201 [1] B*002/ *004/ *007 [1] B*002-*004/ *006/ *007 [1] B*002-*004/*006-*009 [1] B*009/ *016 [1]	POS *007, *01501 [1]	POS NT [1]	POS NT [2]	NEG	NEG	POS	POS	POS FULL, DEL [17] *001, *003/ *004/ *006/ *007/ *009 [2] *001, *003/ *004/ *006-*009 [2] FULL [2] *001, *004 [1] *001/ *002, *003/ *007 [1] *001/ *002, *003-*007 [1] *001 [1] *0010101-0010103/ *00102/ *002-*004/ *006/ *007 [1]	NEG	POS NT [3]	POS DEL [13] *003 [8] *00301/*00302 [1] *001-*006[1] NT [3]
	#0107	60	POS	POS <i>*001- *003/ *005 [1] NEG [1]</i>	POS <i>*0010101-*006/ *008N/ *009/ *011+ [1]</i>	POS NT [2]	POS B [19] B*006 [1] B*00601 [1] B*002-*004/ *006/ *007 [1] B*002-*004/*006-*009 [1] B*002/ *004/ *007 [1] A, B [1]	POS *007 [1]	POS NT [1]	POS NT [2]	NEG	POS *002- *004 [1] *002- *008 [1]	NEG	NEG	POS DEL [19] *003-*007 [4] *003/ *004/ *006/ *007 [2] *003/ *004/ *006/*007/ *009 [2] *004 [1] *003/ *004/ *006-*009 [1] *003/ *004/ *006-*010, *012/ *013 [1] *00103, *003/ *004/ *006-*009 [1]	POS	POS NT [3]	POS DEL [13] *003 [8] *00301/*00302 [1] *001-*006 [1] NT [3]
	#0108	60	POS	POS <i>*001- *003/ *005 [1]</i>	NEG <i>POS [2]</i>	POS NT [2]	POS B [20] B*00201, *00601 [1] B*002/ *004/ *007 [1] B*002-*004/ *006/ *007 [1] B*002-*004/*006-*009 [1] A, B [1]	POS *01501, *01502 [1]	POS NT [1]	POS NT [2]	NEG	NEG	POS <i>NEG [1]</i>	POS <i>NEG [1]</i>	POS FULL [18] *001 [5] *001/ *002 [5] *00101-*00103 [1] *0010101-0010103/ *00102/ *002 [1] DEL [1]	POS	POS NT [3]	POS DEL [13] *003 [8] *00301/*00302 [1] *001-*006 [1] NT [3]

**KEY for Table**

[ ] - 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 #105 (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	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
234	Amador, Alexandra	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
16	Askar, Medhat	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
1108	Clark, Traci	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	SSOP
3632	Colombe, Beth	POS	NEG	POS	POS	A	POS	POS	POS	POS	*002- *008	NEG	NEG	FULL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8039	Davidson, Maureen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8051	Endres, Robert	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
2549	Fagoaga, Omar	POS	NEG	*0010101- *006/ *008N/ *009/ *011+	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8038	Fernandez-Vina &	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
762	Fischer & Mayr	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8047	Fuessel, Monika	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
1694	Hesse & Kissel	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
1461	Hidajat, M.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	*003	SSP
3808	Hogan, Patrick	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
5000	Hsu, Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
2344	Hurley & Hartzman	POS	NEG	POS	POS	A*00101	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	NT	NT	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
791	Lacelle, Chantale	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
278	Lee, Jar-How	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8069	Maha, George	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8067	Marino, Susan R.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	SSP
8073	Mats, Bengtsson	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
733	Mytilineos, Joanni	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul & Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8030	Poulton, Kay V.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	POS	SSOP
8057	Ray & Balazs	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	
3753	Reed & Rajalingam	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8064	Roberts, Chrissy	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*001	POS	POS	*003	WGA-SSP

**Table 2. KIR Exchange Sample: KDNA #105 (Hispanic)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8060	Rost&Klein	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4251	Schiller, Jennifer	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder, M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
1426	Senitzer, David	POS	NEG	POS	POS	POS	*020	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	MULTIPLEX-SSP
769	Tavoularis, Sofia	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	POS	SSOP, SSP
747	Tiercy, Jean-Marie	POS	NEG	POS	POS	A*001/ *005, B*002-*004/ *006/ *007	POS	POS	POS	POS	POS	NEG	NEG	*0010101- 0010103/ *00102/ *002	POS	POS	*00301/ *00302	SSP
5451	Tilanus, Marcel	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg, Eliz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale, John	POS	NEG	POS	NT	POS	POS	NT	NT	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
5462	Turner, E.V.	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	*002- *004	NEG	NEG	*001	POS	POS	*001-*006	SSP
8053	Tyan, Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*001/ *002	POS	POS	*003	SSP
8028	Uhrberg, Markus	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras, Blan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8023	Vilches, Carlos	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
705	Watkins, David I.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*00101- *00103	POS	POS	POS	SSOP
3186	Watson, Narelle	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
124	Witt, Campbell	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NT	NT	MULTIPLEX-SSP
1466	Yu, Neng	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSOP, SSP
5282	Yu, Neng	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
713	Zachary, Andrea	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	DEL	SSP

**Table 3. KIR Exchange Sample: KDNA #106 (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
234	Amador, Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
16	Askar, Medhat	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
1108	Clark, Traci	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSOP
3632	Colombe, Beth	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8039	Davidson, Maureen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	NEG	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	*0010101- *006/ *008N/ *009/ *011+	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8038	Fernandez-Vina &	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *004	NEG	POS	POS	SSOP
762	Fischer & Mayr	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	NEG	POS	POS	SSP
8040	Gladman/Pellett/P	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	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1694	Hesse & Kissel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	NEG	POS	*003	SSP
3808	Hogan, Patrick	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	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	B*00201	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki, Yui	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4337	Kim, Tai-Gyu	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	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003/ *007	NEG	POS	*003	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8067	Marino, Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
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
8073	Mats, Bengtsson	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
733	Mytilineos, Joanni	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP

**Table 3. KIR Exchange Sample: KDNA #106 (Black)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
3966	Permpikul&Vejba	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8057	Ray&Balazs	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8064	Roberts,Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003/ *004/ *006- *009	NEG	POS	*003	WGA-SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*009/ *016	*007, *01501	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
769	Tavoularis,Sofia	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002-*004/ *006/ *007	POS	POS	POS	NEG	NEG	POS	POS	*0010101- *0010103/ *00102/ *002-*004/ *006/ *007	NEG	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	NT	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B*002-*004, *006-*009	POS	POS	POS	NEG	NEG	POS	POS	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001-*006	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	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
705	Watkins,David I.	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*00101- *00103, *003/ *004/ *006-*009	NEG	POS	POS	SSOP
3186	Watson,Narelle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSOP,SSP
5282	Yu,Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP

**Table 4. KIR Exchange Sample: KDNA #107**

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	NEG	NEG	*003- *007	POS	POS	*003	SSP
234	Amador, Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
16	Askar, Medhat	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
1108	Clark, Traci	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	POS	SSOP
3632	Colombe, Beth	POS	POS	POS	POS	B	POS	POS	POS	NEG	*002- *008	NEG	NEG	DEL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
8039	Davidson, Maureen	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8051	Endres, Robert	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	*0010101- *006/ *008N/ *009/ *011+	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
8038	Fernandez-Vina&	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*004	POS	POS	POS	SSOP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP
8047	Fuessel, Monika	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellet/P	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
1694	Hesse&Kissel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
1461	Hidajat, M.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	*003	SSP
3808	Hogan, Patrick	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	POS	POS	B*00601	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki, Yui	POS	POS	POS	POS	A, B	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	NT	NT	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8069	Maha, George	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
8067	Marino, Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*003	SSP
8073	Mats, Bengtsson	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
733	Mytilineos, Joanni	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul&Vejsa	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8030	Poulton, Kay V.	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP



**Table 4. KIR Exchange Sample: KDNA #107**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8057	Ray&Balazs	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	POS	
3753	Reed&Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8064	Roberts,Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*003/ *004/ *006-*009	POS	POS	*003	WGA-SSP
8060	Rost&Klein	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
1426	Senitzer,David	POS	POS	POS	POS	B*006	*007	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	POS	MULTIPLEX SSP
769	Tavoularis,Sofia	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	POS	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	POS	POS	B*002-*004/ *006/ *007	POS	POS	POS	NEG	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	POS	NT	POS	POS	NT	NT	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	POS	POS	B*002-*004, *006-*009	POS	POS	POS	NEG	*002- *004	NEG	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*001-*006	SSP
8053	Tyan,Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	*003-*007	POS	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	POS	NT	POS	POS	POS	NT	NEG	POS	NEG	NEG	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
705	Watkins,David I.	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*00103, *003/ *004/ *006-*009	POS	POS	POS	SSOP
3186	Watson,Narelle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
124	Witt,Campbell	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	*003/ *004/ *006-*010, *012/ *013	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSOP,SSP
5282	Yu,Neng	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	DEL	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	DEL	SSP

**Table 5. KIR Exchange Sample: KDNA #108 (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	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
16	Askar, Medhat	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSOP, SSP
8050	Baxter-Lowe, Lee	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
3224	Chen, Dong-Feng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP, SSOP
1108	Clark, Traci	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	POS	SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8039	Davidson, Maureen	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
2549	Fagoaga, Omar	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
8038	Fernandez-Vina & 762 Fischer & Mayr	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	SSOP
8047	Fuessel, Monika	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8026	Gardiner, Clair M.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
1694	Hesse & Kissel	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	POS	POS	*003	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP, SSP
2344	Hurley & Hartzman	POS	POS	NEG	POS	B*00201, *00601	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	POS	NEG	POS	A, B	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8035	Kanangat, Siva	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	NT	NT	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
8069	Maha, George	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
8067	Marino, Susan R.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*003	SSP
8073	Mats, Bengtsson	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
733	Mytilineos, Joanni	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
3966	Permpikul & Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8030	Poulton, Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
8057	Ray & Balazs	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	POS	
3753	Reed & Rajalingam	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
8064	Roberts, Chrissy	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*003	WGA-SSP
8060	Rost & Klein	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
4251	Schiller, Jennifer	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
3410	Schroeder, M.L.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP

**Table 5. KIR Exchange Sample: KDNA #108 (Black)**

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	NEG	POS	POS	*01501, *01502	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	POS	MULTIPLEX SSP
769	Tavoularis,Sofia	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	POS	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	B*002-*004/ *006/ *007	POS	POS	POS	NEG	NEG	POS	POS	*0010101- *0010103/ *00102/ *002	POS	POS	*00301/ *00302	SSP
5451	Tilanus,Marcel	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	POS	POS	NT	NT	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	B*002-*004, *006-*009	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*001-*006	SSP
8053	Tyan,Dolly	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8028	Uhrberg,Markus	POS	POS	NEG	NT	POS	POS	NT	NEG	NEG	POS	POS	POS	POS	POS	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
705	Watkins,David I.	POS	*001-*003/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*00101- *00103	POS	POS	POS	SSOP
3186	Watson,Narelle	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
124	Witt,Campbell	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSOP,SSP
5282	Yu,Neng	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	DEL	SSP

