

# REPORT OF THE 28TH UCLA INTERNATIONAL KIR EXCHANGE

AUGUST 1, 2012

KIR	109-112
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For the 28th KIR Exchange, 4 DNA samples (KDNA#109-112) were shipped to each laboratory on May 2, 2012. Sixty-five 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 28th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Subtyping results for KIR2DL2, 2DL3, 2DL5, 3DL1, 3DS1, 2DS3, 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, 2DS2, 2DS4, 2DS5, 2DP1 and 3DP1). Discrepant results from the consensus typing are italicized in tables 1-5, and described in the summation for each sample. Discrepancies at the allele level are not italicized. 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 # 0109:**

The ethnic origin of KDNA#109 is unknown. The consensus KIR type for the sample is: 2DL2-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4DEL-3DP1FULL. This sample was previously typed as KDNA #015 (2004). In the 2004 study, no discrepancies were reported for any of the loci. In this present retyping, 1 laboratory reported this DNA as negative for 2DL2 and 2 laboratories reported it as positive for 2DL3. The genotype for this sample occurs at relatively low frequencies across most populations. It has been observed among the Mollukurumba tribe in India at a frequency of 4.9% (1).

## **KIR Exchange Sample: KDNA # 0110:**

This sample was derived from an Asian donor. The consensus KIR type for this DNA is: 2DL2-2DL4-3DL1-3DL2-3DL3-3DS1-2DS2-2DS4DEL-3DP1FULL. This sample was previously typed as KDNA#022 (2005). In the 2005 study, KIR2DS4\*003 was assigned by 66% (n=29) and discrepant results were reported for 3 of the KIR loci, KIR2DL3, 3DS1, and 3DP1. In this present study, 1 laboratory reported 2DL2 as negative, 3 laboratories reported 2DL3 as positive, and 1 laboratory reported 2DS3 as positive. Twenty five laboratories (38%) assigned 2DS4DEL and 16 laboratories (25%) assigned 3DP1FULL.

## **KIR Exchange Sample: KDNA # 0111:**

This sample originated from a Black donor. The consensus KIR type for this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-3DS1-2DS2-2DS3-2DS4FULL&DEL-2DP1-3DP1FULL&DEL. One laboratory reported this sample as negative for 2DL3, 1 reported it as negative for 2DS1, and another reported it as negative for both 3DS1 and 2DS3. This genotype is observed mostly in Asian Indians at a frequency of 8.6%. It has not been found in Native American and Mexican populations.

## **KIR Exchange Sample: KDNA # 0112 (KIR54):**

The ethnic original of KDNA#112 is unknown. The consensus KIR type for this DNA is: 2DL1-2DL2-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4FULL&DEL-2DP1-3DP1FULL&DEL. This sample was previously typed as KDNA#054 (2008). In the 2008 typing, discrepancies were reported for KIR2DL3, 3DL3, 2DS1, and 2DP1. In this current study, discrepant results were reported for 3 loci, that is, 1 laboratory reported 2DL2 as negative, 2 laboratories reported 2DL3 as positive, and 2 laboratories reported 2DS3 as positive. This rare genotype occurs at frequencies of less than 1% in Iranian, Asian Indian, and Caucasian populations (2, 3).

## References

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2. 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.
3. 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.

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**Table 1. Summary of the 28th KIR Exchange (KDNA#109-112)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#28	#0109	65	NEG	POS <i>*001- *003/ *005 [2] NEG [1]</i>	NEG <i>POS [2]</i>	POS NT [2]	NEG	POS <i>*005, *008 [1]</i>	POS NT [1]	POS NT [2]	NEG	NEG	POS	NEG	POS DEL [24] <i>*003- *007 [3] *003/ *004/ *006/ *007/ *009, - [1] *003/ *004/ *006- *009, - [1] *003/ *004/ *006/ *007/ *009 [1] *003/ *006- *010/ *012 [1] *003/ *004/ *006- *010/ *012/ *013 [1] *00103/ *003/ *004/ *006- *009 [1]</i>	NEG	NEG NT [2]	POS FULL [14] <i>*001/ *002/ *004 [3] *001/ *002/ *004, - [2] *001- *006 [1] DEL [1] NT [2]</i>
	#0110	65	NEG	POS <i>*001- *003/ *005 [2] NEG [1]</i>	NEG <i>POS [3] *010 [1]</i>	POS NT [2]	NEG	POS <i>*00401, *009 [1] *00401- *00403/ *021/ *036+ [1]</i>	POS NT [1]	POS NT [2]	POS *01301 [1]	NEG	POS	NEG <i>POS [1]</i>	POS DEL [25] <i>*003- *007 [2] *003/ *004/ *006/ *007/ *009, - [1] *003/ *004/ *006- *009, - [1] *003/ *004/ *006/ *007/ *009 [1] *003/ *006- *010/ *012 [1] *003/ *004/ *006- *010/ *012/ *013 [1] *00103/ *003/ *004/ *006- *009 [1]</i>	NEG	NEG NT [2]	POS FULL [16] <i>*001/ *002/ *004, - [2] *001/ *002/ *004 [2] *001- *006 [1] NT [2]</i>
	#0111	65	POS	POS <i>*001- *003/ *005 [2]</i>	POS <i>*010 [1] *0010101- *006/ *008N/ *009/ *011/ *013- *017 [1] NEG [1]</i>	POS NT [2]	POS B [20] <i>B*002 [1] B*00201 [1] B*002/ *004- *006 [1] B*002- *004/ *006- *009 [1] B*009/ *016 [1] B*0020101- *00202/ *003/ *004- *00601/ *00602- *01303 [1] B*0020101- *00202/ *004- *00601/ *00603- *01303 [1]</i>	POS <i>*001, *002 [1]</i>	POS NT [1]	POS NT [2]	POS *01301 [1] <i>NEG [1]</i>	NEG <i>POS [1]</i>	POS	POS <i>*00103 [1] NEG [1]</i>	POS FULL, DEL [23] <i>*001, *003/ *004/ *006/ *007/ *009 [2] *001, *003/ *004/ *006- *009 [1] *0010101- *0010103, *003/ *004/ *006- *009 [1] *001/ *002, *003- *007 [1] *001/ *011/ *014/ *015, *003/ *006- *010/ *012 [1]</i>	NEG	POS NT [2]	POS FULL, DEL [13] <i>*001/ *002/ *004, *003 [3] *001- *006 [1] FULL [2] NT [2]</i>
	#0112	65	POS	POS <i>*001- *003/ *005 [2] NEG [1]</i>	NEG <i>POS [2]</i>	POS NT [2]	NEG	POS <i>*001, *002 [1]</i>	POS NT [1]	POS NT [2]	NEG <i>POS [1] NT [1]</i>	NEG <i>POS [1]</i>	POS	NEG <i>POS [2]</i>	POS FULL, DEL [23] <i>*001, *003/ *004/ *006/ *007/ *009 [2] *001, *003/ *004/ *006- *009 [1] *0010101- *0010103, *003/ *004/ *006- *009 [1] *001/ *002, *003- *007 [1] *001/ *011/ *014/ *015, *003/ *006- *010/ *012 [1]</i>	NEG	POS NT [2]	POS FULL, DEL [13] <i>*001/ *002/ *004, *003 [3] *001- *006 [1] FULL [2] NT [2]</i>

**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 #109**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams,Sharon	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP
234	Amador,Alexandra	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
16	Askar,Medhat	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSOP,SSP
8038	Cao&Cano	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *006-*010/ *012	NEG	NEG	POS	SSOP
3224	Chen,Dong-Feng	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP,SSOP
1108	Clark,Traci	NEG	*001-*003/ *005	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	SSOP
3632	Colombe,Beth	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8050	Cook,Daniel J.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	DEL	SSP
189	Crowe,Deborah	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP,SSOP
8039	Davidson,Maureen	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8031	Dinauer,David	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
705	Ellis,Thomas	NEG	*001-*003/ *005	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*00103/ *003/ *004/ *006-*009	NEG	NEG	POS	SSOP
8051	Endres,Robert	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
2549	Fagoaga,Omar	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
762	Fischer&Mayr	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8047	Fuessel,Monika	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8026	Gardiner,Clair M.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8040	Gladman/Pellett/P	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4985	Graff,Ralph J.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8022	Hedlund, Anna	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1694	Hesse&Kissel	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1461	Hidajat,M.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003-*007	NEG	NEG	*001/ *002/ *004	SSP
3808	Hogan,Patrick	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
5000	Hsu,Susan H.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP,SSP
2344	Hurley&Hartzman	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki,Yui	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
794	Jaatinen,Taina	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8076	Jaramillo&Gaitonde	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP,SSOP
8035	Kanangat,Siva	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
4337	Kim,Tai-Gyu	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8046	Kusnierczyk,Piot	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	MULTIPLEX SSP, SSP
8071	Kwok,Janette	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
791	Lacelle,Chantale	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003-*007	NEG	NEG	*001/ *002/ *004	SSP
278	Lee,Jar-How	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8069	Maha,George	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8067	Marino,Susan R.	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP,SSOP
5142	Marsh,Steven	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009, -	NEG	NEG	*001/ *002/ *004, -	SSP
8073	Mats,Bengtsson	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
733	Mytilineos,Joanni	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
3966	Permpikul&Veijba	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8030	Poulton,Kay V.	NEG	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8057	Ray&Balazs	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	NEG	POS	SSOP



**Table 3. KIR Exchange Sample: KDNA #110 (Asian)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP
234	Amador, Alexandra	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
16	Askar, Medhat	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSOP, SSP
8038	Cao&Cano	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003/ *006-010/ *012	NEG	NEG	POS	SSOP
3224	Chen, Dong-Feng	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP, SSOP
1108	Clark, Traci	NEG	*001-*003/ *005	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSOP
3632	Colombe, Beth	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8050	Cook, Daniel J.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
189	Crowe, Deborah	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP, SSOP
8039	Davidson, Maureen	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8031	Dinauer, David	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
705	Ellis, Thomas	NEG	*001-*003/ *005	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*00103/ *003/ *004/ *006-*009	NEG	NEG	POS	SSOP
8051	Endres, Robert	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
2549	Fagoaga, Omar	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
762	Fischer&Mayr	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8047	Fuessel, Monika	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8026	Gardiner, Clair M.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8040	Gladman/Pellet/P	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4985	Graff, Ralph J.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8022	Hedlund, Anna	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1694	Hesse&Kissel	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1461	Hidajat, M.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003-*007	NEG	NEG	*001/ *002/ *004	SSP
3808	Hogan, Patrick	NEG	POS	NEG	POS	NEG	*00401-00403/ *021/ *036+	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
5000	Hsu, Susan H.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP, SSP
2344	Hurley&Hartzman	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP, SSOP, SBT-2DL5
3261	Iwaki, Yui	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
794	Jaatinen, Taina	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8076	Jaramillo&Gaitonde	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSP, SSOP
8035	Kanangat, Siva	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
4337	Kim, Tai-Gyu	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8046	Kusnierczyk, Piot	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
791	Lacelle, Chantale	NEG	POS	*010	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
278	Lee, Jar-How	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8069	Maha, George	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
8067	Marino, Susan R.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP, SSOP

**Table 3. KIR Exchange Sample: KDNA #110 (Asian)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh, Steven	NEG	POS	NEG	POS	NEG	POS	POS	POS	*01301	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009, -	NEG	NEG	*001/ *002/ *004, -	SSP
8073	Mats, Bengtsson	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
733	Mytilineos, Joanni	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
3966	Permpikul&Vejba	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8030	Poulton, Kay V.	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
8057	Ray&Balazs	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSOP
3753	Reed&Rajalingam	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP, SSP
8064	Roberts, Chrissy	NEG	NEG	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003/ *004/ *006- *009, -	NEG	NEG	*001/ *002/ *004, -	WGA-SSP
8060	Rost&Klein	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
4251	Schiller, Jennifer	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
3410	Schroeder, M.L.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	POS	DEL	NEG	NEG	POS	SSP
1426	Senitzer, David	NEG	POS	NEG	POS	NEG	*00401, *009	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	MULTIPLEX SSP
8077	Shanahan, Thomas	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
2518	Tambur, Anat	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
769	Tavoularis, Sofia	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	POS	SSOP, SSP
747	Tiercy, Jean-Marie	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
5451	Tilanus, Marcel	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
4021	Trachtenberg, Eliz	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8024	Trowsdale, John	NEG	POS	NEG	NT	NEG	POS	NT	NT	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
5462	Turner, E.V.	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003/ *004/ *006/ *007/ *009	NEG	NEG	*001-*006	SSP
8053	Tyan, Dolly	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003-*007	NEG	NEG	*001/ *002/ *004	SSP, SSOP
8028	Uhrberg, Markus	NEG	POS	NEG	NT	NEG	POS	POS	NT	POS	NEG	POS	NEG	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras, Blan	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8023	Vilches, Carlos	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
3186	Watson, Narelle	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
124	Witt, Campbell	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	*003/ *004/ *006- *010/ *012/ *013	NEG	NT	NT	MULTIPLEX SSP
1466	Yu, Neng	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSOP
5282	Yu, Neng	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP
713	Zachary, Andrea	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	DEL	NEG	NEG	FULL	SSP

**Table 4. KIR Exchange Sample: KDNA #111 (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	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
234	Amador,Alexandra	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
16	Askar,Medhat	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSOP,SSP
8038	Cao&Cano	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*001/ *011/ *014/ *015, *003/ *006- *010/ *012	NEG	POS	POS	SSOP
3224	Chen,Dong-Feng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP,SSOP
1108	Clark,Traci	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSOP
3632	Colombe,Beth	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
8050	Cook,Daniel J.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
189	Crowe,Deborah	POS	POS	POS	POS	B*002/ *004- *006	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP,SSOP
8039	Davidson,Maureen	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8031	Dinauer,David	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
705	Ellis,Thomas	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	*00101-*00103/ *003/ *004/ *006- *009	NEG	POS	POS	SSOP
8051	Endres,Robert	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
2549	Fagoaga,Omar	POS	POS	*0010101- *006/ *008N/ *009/ *011/ *013*017	POS	B*0020101- *00202/ *004- *00601/ *00603- *01303	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL	SSP
762	Fischer&Mayr	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	FULL	SSP
8047	Fuessel,Monika	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8026	Gardiner,Clair M.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	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	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
1694	Hesse&Kissel	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
1461	Hidajat,M.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
3808	Hogan,Patrick	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	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	B*00201	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki,Yui	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
794	Jaatinen,Taina	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP,SSOP
8035	Kanangat,Siva	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4337	Kim,Tai-Gyu	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	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok,Janette	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
791	Lacelle,Chantale	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP

**Table 4. KIR Exchange Sample: KDNA #111 (Black)**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
278	Lee, Jar-How	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
8067	Marino, Susan R.	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	POS	POS	POS	POS	POS	POS	*01301	NEG	POS	*00103	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001/ *002/ *004, *003	SSP
8073	Mats, Bengtsson	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
733	Mytilineos, Joanni	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
8030	Poulton, Kay V.	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
8057	Ray & Balazs	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSOP
3753	Reed & Rajalingam	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP, SSP
8064	Roberts, Chrissy	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001, *003/ *004/ *006-009	NEG	POS	*001/ *002/ *004, *003	WGA-SSP
8060	Rost & Klein	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4251	Schiller, Jennifer	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
3410	Schroeder, M.L.	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP
1426	Senitzer, David	POS	POS	POS	POS	B*009/ *016	*001, *002	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
8077	Shanahan, Thomas	POS	POS	*010	POS	B*002	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
2518	Tambur, Anat	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
769	Tavoularis, Sofia	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSOP, SSP
747	Tiercy, Jean-Marie	POS	POS	POS	POS	B*0020101- *00202/ *003/ *004-00601/ *00602-01303	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
5451	Tilanus, Marcel	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8024	Trowsdale, John	POS	POS	POS	NT	POS	POS	NT	NT	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
5462	Turner, E.V.	POS	POS	POS	POS	B*002-004, *006-009	POS	POS	POS	POS	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	POS	NEG	POS	POS	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP, SSOP
8028	Uhrberg, Markus	POS	POS	POS	NT	POS	POS	POS	NT	POS	NEG	POS	POS	POS	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
8023	Vilches, Carlos	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
3186	Watson, Narelle	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
124	Witt, Campbell	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSOP
5282	Yu, Neng	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	FULL, DEL	NEG	POS	FULL, DEL	SSP
713	Zachary, Andrea	POS	POS	POS	POS	B	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #112**

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	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
234	Amador, Alexandra	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
16	Askar, Medhat	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSOP, SSP
8038	Cao&Cano	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *011/ *014/ *015, *003/ *006- *010/ *012	NEG	POS	POS	SSOP
3224	Chen, Dong-Feng	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP, SSOP
1108	Clark, Traci	POS	*001- *003/ *005	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSOP
3632	Colombe, Beth	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
8050	Cook, Daniel J.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP, SSOP
8039	Davidson, Maureen	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
8031	Dinauer, David	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
705	Ellis, Thomas	POS	*001- *003/ *005	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*00101- *00103, *003/ *004/ *006- *009	NEG	POS	POS	SSOP
8051	Endres, Robert	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
2549	Fagoaga, Omar	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL	SSP
762	Fischer&Mayr	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	FULL	SSP
8047	Fuessel, Monika	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8026	Gardiner, Clair M.	POS	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	SSP
8040	Gladman/Pellett/P	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8022	Hedlund, Anna	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1694	Hesse&Kissel	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1461	Hidajat, M.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3808	Hogan, Patrick	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
5000	Hsu, Susan H.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP, SSP
2344	Hurley&Hartzman	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSP, SSOP, SBT- 2DL5
3261	Iwaki, Yui	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
794	Jaatinen, Taina	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8076	Jaramillo&Gaitonde	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSP, SSOP
8035	Kanangat, Siva	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8046	Kusnierczyk, Piot	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP, SSP
8071	Kwok, Janette	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
791	Lacelle, Chantale	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
278	Lee, Jar-How	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
8069	Maha, George	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
8067	Marino, Susan R.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP, SSOP
5142	Marsh, Steven	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001/ *002/ *004, *003	SSP
8073	Mats, Bengtsson	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
733	Mytilineos, Joanni	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #112**

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	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8030	Poulton,Kay V.	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
8057	Ray&Balazs	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSOP
3753	Reed&Rajalingam	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP,SSP
8064	Roberts,Chrissy	POS	NEG	NEG	POS	NEG	POS	POS	POS	NEG	POS	POS	NEG	*001, *003/ *004/ *006-*009	NEG	POS	*001/ *002/ *004, *003	WGA-SSP
8060	Rost&Klein	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
4251	Schiller,Jennifer	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
3410	Schroeder,M.L.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSP
1426	Senitzer,David	POS	POS	NEG	POS	NEG	*001, *002	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	MULTIPLEX SSP
8077	Shanahan,Thomas	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
2518	Tambur,Anat	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
769	Tavoularis,Sofia	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	POS	SSOP,SSP
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
5451	Tilanus,Marcel	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8024	Trowsdale,John	POS	POS	NEG	NT	NEG	POS	NT	NT	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
5462	Turner,E.V.	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001, *003/ *004/ *006/ *007/ *009	NEG	POS	*001-*006	SSP
8053	Tyan,Dolly	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	*001/ *002, *003- *007	NEG	POS	*001/ *002/ *004, *003	SSP,SSOP
8028	Uhrberg,Markus	POS	POS	NEG	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
3775	Vidan-Jeras,Blan	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8023	Vilches,Carlos	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
3186	Watson,Narelle	POS	POS	POS	POS	NEG	POS	POS	POS	NT	NEG	POS	POS	POS	NEG	POS	POS	SSP
124	Witt,Campbell	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	NT	NT	MULTIPLEX SSP
1466	Yu,Neng	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSOP
5282	Yu,Neng	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL, DEL	NEG	POS	FULL, DEL	SSP
713	Zachary,Andrea	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP

