

REPORT OF THE 15TH UCLA INTERNATIONAL KIR EXCHANGE

MAY 7, 2008

KIR

57-60

Dear Colleagues:

For the 15th KIR Exchange, 4 DNA samples (KDNA#57-60) were shipped to each laboratory on February 6, 2008. Fifty-seven laboratories submitted their KIR typing results. The majority of the laboratories used commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, and the remaining laboratories used either a sequence-specific oligonucleotide probing (SSOP) method, a multiplexed SSP method, or the MALDI-TOF/SNP assay. The majority of the laboratories performed subtyping for 2DL5, 2DS4, and 3DP1.

The results for the 15th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Discrepant results were reported for at least 2 different genes for each sample. KDNA#57 had 6 genes showing differing results. KIR2DS2, the activating gene frequently reported to be associated with many autoimmune

diseases, was mistyped by 5 laboratories for 3 samples, including KDNA#57, 58, and 60. KIR2DL2, the gene showing the highest sequence homology with 2DS2 in their extracellular Ig-domains, was undetected by 2 laboratories. Only 6 genes (2DL3, 3DL2, 3DL3, 2DS5, 2DP1, 3DP1) attained complete consensus for presence or absence.

Using the MALDI-TOF mass spectrometry assay (1), Trachtenberg reported that DNA#57 and DNA#60 carry novel KIR2DL5 alleles.

Discrepant results from the consensus typing are italicized in the listing of results (Tables 2-5), and described in the summation for each sample. Discrepancies at the allele level are not italicized. We encourage the participating laboratories to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

NEXT MAILING DATE: August 6, 2008

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KIR Exchange Sample: KDNA # 0057:

The DNA was isolated from an Hispanic donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5-3DL2-3DL3-3DS1-2DS1-2DS2-2DS5-2DP1-3DP1. This is one of the most common genotypes identified in Warao and Bari, the Amerindian tribes of Venezuela (2). Furthermore, this genotype occurs at low frequency in Asian populations, including Chinese and southern Indians (3), and is totally absent in Africans. The reports from 10 laboratories were different from the consensus typing. Specifically, 3 laboratories reported this DNA to carry the KIR3DL1 gene.

KIR Exchange Sample: KDNA # 0058:

KDNA#58 was obtained from an African American individual. The consensus KIR type of this sample is: 2DL1-2DL2-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-2DS2-2DS4-2DS5-2DP1-3DP1. This genotype is specific to African populations occurring with a frequency of 3-5% (4). Four laboratories reported this DNA carrying the 2DS1 gene, and 2 reported the sample as negative for 2DS2, and one reported it as negative of 2DL2.

KIR Exchange Sample: KDNA # 0059:

KDNA#59 was obtained from an African American individual. The consensus KIR type of this sample is: 2DL1-2DL2-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DS5-2DP1-3DP1. This genotype carries all genes but 2DL3. This is a unique KIR genotype never identified in previous studies (3, 5). Two laboratories reported this DNA as negative for either 3DS1 or 2DS3.

KIR Exchange Sample: KDNA # 0060:

The ethnic origin of this donor is not known. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4-2DS5-2DP1-3DP1. This is the second most frequently occurring KIR genotype in most populations (5). One laboratory reported the DNA as positive for 2DS2 and another one reported it as negative for 2DL4.

References

1. Houtchens, K. A., Nichols, R. J., Ladner, M. B., Boal, H. E., Sollars, C., Geraghty, D. E., Davis, L. M., Parham, P., and Trachtenberg, E. A. (2007). High-throughput killer cell immunoglobulin-like receptor genotyping by MALDI-TOF mass spectrometry with discovery of novel alleles. *Immunogenetics* 59, 525-537.
2. Gendzekhadze, K., Norman, P. J., Abi-Rached, L., Layrisse, Z., and Parham, P. (2006). High KIR diversity in Amerindians is maintained using few gene-content haplotypes. *Immunogenetics*.
3. Rajalingam, R., Du, Z., Meenagh, A., Luo, L., Kavitha, V. J., Pavithra-Arulvani, R., Vidhyalakshmi, A., Sharma, S. K., Balazs, I., Reed, E. F., *et al.* (2008). Distinct diversity of KIR genes in three southern Indian populations: comparison with world populations revealed a link between KIR gene content and pre-historic human migrations. *Immunogenetics* (in press).
4. Denis, L., Sivula, J., Gourraud, P. A., Kerdudou, N., Chout, R., Ricard, C., Moisan, J. P., Gagne, K., Partanen, J., and Bignon, J. D. (2005). Genetic diversity of KIR natural killer cell markers in populations from France, Guadeloupe, Finland, Senegal and Reunion. *Tissue Antigens* 66, 267-276.
5. 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.

Table 1. Summary of the 15th KIR Exchange (KDNA#57-60)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#15	#0057	57	POS <i>NEG [1]</i>	POS *001-*003/ *005 [2] *001-*003, *005 [1] <i>NEG [1]</i>	POS	POS 001-*006, *010, *012 [1] NT [2]	POS A [15] A*001/*005 [9] A*001 [1] A*001/ *B*006/ *008, NEW [1] *002/ *005/ *009 [1] <i>NEG [1]</i>	NEG <i>POS [3]</i>	POS	POS NT [1]	POS *010- *014 [1]	POS *002-*004 [1]	POS <i>NEG [2]</i>	NEG	NEG <i>POS [2]</i> NT [1]	POS	POS NT [3]	POS *001/ *002/ *004, *003 [4] *001/ *002/ *004, *003/ *005/ *006 [3] *001/ *002, *003/ *004 [2] *001-*004 [2] *001, *003 [1] *003 [1] *002/ *004 [1] *001/ *002/ *004 [1] NT [3]
	#0058	57	POS	POS *001-*003, *005 [2] *001-*003/ *005 [1] <i>NEG [1]</i>	POS	POS *007-*009, *011 [1] NT [2]	POS B [14] B*002 *004/ *007 [5] B*002/ *004 [3] B*002-*004 [1] B*006 [1] B*002- *004/ *006/ *007 [1] A*001, B*006/ *008 [1]	POS *005, - [1] *001/ *002/ *005-*008/ *015-*020 [1]	POS	POS NT [1]	NEG	NEG <i>POS [4]</i>	POS <i>NEG [2]</i>	NEG	POS *003-*007 [15] *003/ *004/ *006/ *007 [6] DEL [3] *003/ *004/ *006 [3] *003 [2] *003/ *006 [2] *003-*006 [1] *003/ *004/ *006/ *007/ *009, - [1] *003/ *004/ *006/ *007/ *009 [1] NT [1]	POS	POS NT [3]	POS *003 [20] *00301/ *00302 [3] *003/ *005/ *006 [2] *003, - [1] NT [3]
	#0059	57	POS *0040101 / *0040102 [1]	POS *001-*003, *005 [3]	NEG	POS *001-*006, *010, *012 [1] NT [2]	POS A,B [11] A [2] A*001, B*002 [1] A*001, B*006/ *008 [1] B*006, - [1] A*001/ *005 [1] *001-*005 [1]	POS *009 [1] *01501 [1]	POS	POS NT [1]	POS *010- *014 [1] <i>NEG [1]</i> NT [1]	POS *002-*004 [1]	POS	POS <i>NEG [1]</i>	POS *001/ *002 [20] *001 [8] FULL [3] *001, - [1] *00101-00103 [1] *0010101-0010103/ *00102/ *002 [1] NT [1]	POS	POS NT [3]	POS *001/ *002/ *004, *003 [3] *001/ *002, *003/ *004 [2] *001-*004 [2] *001, *003 [1] *00301/ *00302, *004 [1] *001/ *002/ *004, *003/ *005/ *006 [1] *003 [1] *002/ *004 [1] *001/ *002/ *004 [1] *001/ *002, *004, *003 [1] *003/ *005/ *006 [1] NT [3]
	#0060	56	POS	NEG	POS	POS *007-*009, *011 [1] <i>NEG [1]</i> NT [2]	POS A [16] A*001/*005 [8] A*001 [1] A*001/ *B*006/ *008, NEW [1] *001-*005 [1]	POS *004 [1] *00401 [1]	POS	POS NT [1]	POS *0101- *014 [1] NT [1]	POS *002-*004 [1]	NEG <i>POS [1]</i>	NEG	POS *003-*007 [14] *003/ *004/ *006/ *007 [6] DEL [3] *003/ *004/ *006 [3] *003 [2] *003-*006 [2] *003/ *006 [1] *003/ *004/ *006/ *007/ *009, - [1] *003/ *004/ *006/ *007/ *009 [1] *003-*009 [1] NT [1]	POS	POS NT [3]	POS *001/ *002/ *004, *003 [4] *001/ *002/ *004, *003/ *005/ *006 [2] *001/ *002, *003/ *004 [2] *001-*004 [2] *001, *003 [1] *00301/ *00302, *004 [1] *003 [1] *002/ *004 [1] *001/ *002/ *004 [1] *001/ *002/ *004 [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 #57

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	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003, *005	POS	*001- *006, *010, *012	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, *003	SSP
8025	Carrington/Mar	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003/ *005/ *006, *001/ *002/ *004	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP, SSP
124	Christiansen/Witt	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	NT	NT	
3632	Colombe, Beth	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5130	Costeas, Paul A	POS	POS	POS	POS	A	NEG	POS	POS	POS	*002- *004	POS	NEG	NEG	POS	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*002/ *004	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	NEG	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSOP
1108	Davis, Mary	POS	*001- *003/ *005	POS	POS	POS	NEG	POS	POS	*010- *014	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NT	POS	POS	POS	
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP, SSP
762	Fischer, Gottf	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002 / *004, *003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*00301/ *00302, *001/ *002/ *004	SSP
1461	Hidajat, Melan	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP

Table 2. KIR Exchange Sample: KDNA #57

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
615	Holdsworth/Tait	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5000	Hsu,Susan H.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002, *003/ *004	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8037	Kotsch,Katja	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
836	KuKuruga,Debr	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	NT	NT	MULTIPLEX SSP
8002	MacCann,Eileen	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5142	Marsh,Steven	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
8027	Middleton,Der	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
733	Mytilineos,Joan	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
2549	Nehlsen-Canna	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
8039	Noreen,Harriet	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	
3966	Permpikul/Vejba	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	
16	Pidwell,Diane J.	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	RSSOP,SSP
4141	Pollack,Maril	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	SSP
3753	Reed/Rajaling	NEG	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
3798	Reinsmoen,Nan	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001- *004	SSP
1694	Sauer/Guttwald	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
3410	Schroeder,M.L.	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
1426	Senitzer,David	POS	POS	POS	POS	A*001	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003/ *005/ *006	MULTIPLEX SSP
740	Snider,Denis	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
702	Spannagl,Michae	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
746	Stamm,Luz	POS	*001- *003/ *005	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP
8032	Stavropoulos-Gio	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
230	Thoni,Deborah	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP

Table 2. KIR Exchange Sample: KDNA #57

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
747	Tiercy, Jean-Marie	POS	POS	POS	POS	A*001/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	A*001/ B*006/ *008, NEW	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001- *004	SSP
8053	Tyan, Dolly	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	NEG	NEG	POS	NT	NT	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	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	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004	SSP
8051	Wiltbank/Endres	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002/ *004, *003	SSP
1466	Yu, Neng	POS	POS	POS	POS	*002/ *005/ *009	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSOP, SSP
713	Zachary, Andre	POS	POS	POS	POS	A	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #58

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	NEG	*003- *007	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003, *005	POS	*007- *009, *011	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	NEG	*003	POS	POS	*003	SSP
8025	Carrington/Mar	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	*003/ *005/ *006	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSOP, SSP
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	NT	NT	
3632	Colombe, Beth	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
5130	Costeas, Paul A	POS	POS	POS	POS	B	*001/ *002/ *005- *008/ *015- 020	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	*003	SSOP
1108	Davis, Mary	POS	*001- *003, *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
3186	Dunkley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	NT	POS	POS	POS	
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *006	POS	POS	POS	SSOP, SSP
762	Fischer, Gottf	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003- *007	POS	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006	POS	POS	*00301/ *00302	SSP

Table 3. KIR Exchange Sample: KDNA #58

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

Table 3. KIR Exchange Sample: KDNA #58

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
702	Spannagl, Michae	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	*003	POS	POS	*003	SSP
746	Stamm, Luz	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8032	Stavropoulos-Gio	POS	POS	POS	POS	B*002/ *004/	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *006/	POS	POS	*003	SSP
230	Thoni, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSOP
747	Tiercy, Jean-Marie	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	NEG	*003/ *004/ *006/ *007	POS	POS	*00301/ *00302	SSP
4021	Trachtenberg, Eliz	POS	POS	POS	POS	A*001/ B*006/ *008	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	POS	POS	NEG	NEG	POS	NEG	DEL	POS	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	*003- *007	POS	POS	*003	SSP
8053	Tyan, Dolly	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	NEG	*003- *007	POS	NT	NT	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	*003	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSP
705	Watkins, David I.	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
8051	Wiltbank/Endres	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	NEG	*003- *007	POS	POS	*003	SSP
1466	Yu, Neng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSOP, SSP
713	Zachary, Andre	POS	POS	POS	POS	B*002/ *004/	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	*003	SSP

Table 4. KIR Exchange Sample: KDNA #59

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	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	*001- *003, *005	NEG	*001- *006, *010, *012	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	POS	NEG	POS	A*001/ B*002	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	*001, *003	
8025	Carrington/Mar	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	*003/ *005/ *006, *001/ *002/ *004	SSP
785	Chan, Soh Ha	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3224	Chen, Dongfeng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
124	Christiansen/Witt	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	NT	NT	
3632	Colombe, Beth	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
5130	Costeas, Paul A	POS	POS	NEG	POS	A,B	*009	POS	POS	NEG	*002- *004	POS	POS	*001	POS	POS	*003	SSP
189	Crowe, Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*002/ *004	SSP
8030	Davidson/Poult	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	*001	*001	POS	POS	POS	SSOP
1108	Davis, Mary	POS	*001- *003, *005	NEG	POS	POS	POS	POS	POS	*010- *014	POS	POS	POS	*001	POS	POS	POS	SSOP
8031	Dinauer, David	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002/ *004, *003	SSP
3186	Dunkley, Heather	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	NT	POS	POS	POS	
8038	Fernandez-Vina, M	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
762	Fischer, Gottf	POS	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP
8026	Gardiner, Clair	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8040	Gladman/Pellet	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002/ *004/ *003	SSP
8041	Han, Hoon	*0040101/ *0040102	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*00301/ *00302, *004	SSP
1461	Hidajat, Melan	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP
615	Holdsworth/Tait	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #59

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
5000	Hsu,Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002, *003/ *004	SSOP,SSP	
4337	Kim,Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
8037	Kotsch,Katja	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
836	KuKuruga,Debr	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
8046	Kusnierczyk,Piotr	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	NT	NT	MULTIPLEX SSP	
8002	MacCann,Eileen	POS	POS	NEG	POS	POS	POS	POS	POS	NT	POS	POS	POS	POS	POS	POS	POS	SSP	
5142	Marsh,Steven	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001, -	POS	POS	*001/ *002/ *004, *003	SSP	
8027	Middleton,Der	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	POS	SSOP	
733	Mytilineos,Joan	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP	
2549	Nehlsen-Canna	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
8039	Noreen,Harriet	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS		
3966	Permpikul/Vejba	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS		
16	Pidwell,Diane J.	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP,SSP	
4141	Pollack,Maril	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS		
3753	Reed/Rajaling	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
3798	Reinsmoen,Nan	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001-*004	SSP	
1694	Sauer/Guttwald	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
3410	Schroeder,M.L.	POS	POS	NEG	POS	A	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
1426	Senitzer,David	POS	POS	NEG	POS	*006, -	*01501	POS	POS	POS	POS	POS	POS	*001	POS	POS	*003/ *005/ *006	MULTIPLEX SSP	
740	Snider,Denis	POS	POS	NEG	POS	*001- *005	POS	POS	POS	POS	POS	POS	POS	*00101- *00103, *002	POS	POS	POS	SSP	
702	Spannagl,Michae	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
746	Stamm,Luz	POS	*001- *003, *005	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*001	POS	POS	POS	SSOP	
8032	Stavropoulos-Gio	POS	POS	NEG	POS	A*001/ *005	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
230	Thoni,Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP	
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	*0010101- *0010103/ *00102/ *002	POS	POS	POS	SSP	
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	A*001/ B*006/ *008	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	MALDI-TDF

Table 4. KIR Exchange Sample: KDNA #59

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8024	Trowsdale, Joh	POS	POS	NEG	NT	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	SSP
5462	Turner, Victor	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001-*004	SSP
8053	Tyan, Dolly	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg, Marku	POS	POS	NEG	NT	POS	POS	POS	NT	POS	POS	POS	POS	*001/ *002	POS	NT	NT	SSP
8023	Vilches, Carlo	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*003, *004	SSP
8047	Wassmuth, Ralf	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
705	Watkins, David I.	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002/ *004	SSP
8051	Wiltbank/Endres	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*001/ *002/ *004, *003	SSP
1466	Yu, Neng	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
713	Zachary, Andre	POS	POS	NEG	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #60

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	*003- *007	POS	POS	POS	SSP
8033	Balazs, Ivan	POS	NEG	POS	*007- *009, *011	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8050	Baxter-Lowe, Lee	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003	POS	POS	*001, *003	
8025	Carrington/Mar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	*003/ *005/ *006, *001/ *002/ *004	SSP
785	Chan, Soh Ha	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3224	Chen, Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NT	NT	
3632	Colombe, Beth	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
5130	Costeas, Paul A	POS	NEG	POS	POS	A	*004	POS	POS	POS	*002- *004	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	*003	SSP
189	Crowe, Deborah	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*002/ *004	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
1108	Davis, Mary	POS	NEG	POS	POS	POS	POS	POS	POS	*010- *014	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8031	Dinauer, David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP
3186	Dunckley, Heather	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NT	POS	POS	POS	
8038	Fernandez-Vina, M	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/ *006	POS	POS	POS	SSOP, SSP
762	Fischer, Gottf	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	POS	SSP
8026	Gardiner, Clair	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8040	Gladman/Pellet	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	NEG	POS	NEG	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001/ *002/ *004/ *003	SSP

Table 5. KIR Exchange Sample: KDNA #60

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

Table 5. KIR Exchange Sample: KDNA #60

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
1426	Senitzer, David	POS	NEG	POS	POS	*001	*00401	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007/ *009	POS	POS	*001/ *002/ *004, *003/ *005/ *006	MULTIPLEX SSP
740	Snider, Denis	POS	NEG	POS	POS	A*001- *005	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006	POS	POS	POS	SSP
702	Spannagl, Michae	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003	POS	POS	POS	SSP
746	Stamm, Luz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSOP
8032	Stavropoulos-Gio	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *006	POS	POS	POS	SSP
230	Thoni, Deborah	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
747	Tiercy, Jean-Marie	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS	SSP
4021	Trachtenberg, Eliz	POS	NEG	POS	POS	A*001/ B*006/ *008, NEW	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	MALDI-TDF
8024	Trowsdale, Joh	POS	NEG	POS	NT	POS	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	POS	SSP
5462	Turner, Victor	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001- *004	SSP
8053	Tyan, Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP
8028	Uhrberg, Marku	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	NEG	*003- *007	POS	NT	NT	SSP
8023	Vilches, Carlo	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003, *004	SSP
8047	Wassmuth, Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
705	Watkins, David I.	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001/ *002/ *004	SSP
8051	Wiltbank/Endres	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*001/ *002/ *004, *003	SSP
1466	Yu, Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP, SSP

Table 5. KIR Exchange Sample: KDNA #60																		
CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
713	Zachary,Andre	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP

PARTICIPATING CENTERS

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