

# REPORT OF THE 16th UCLA INTERNATIONAL KIR EXCHANGE

AUGUST 6, 2008

KIR

61-64

Dear Colleagues:

For the 16<sup>th</sup> KIR Exchange, 4 DNA samples (KDNA#61-64) were shipped to each laboratory on May 7, 2008. Fifty-nine laboratories submitted their KIR typing results. Forty-three laboratories used either commercial or in-house developed sequence-specific primer (SSP) based PCR typing systems, 8 laboratories used the sequence-specific oligonucleotide probing (SSOP) method, 4 laboratories used both SSP and SSOP methods, 3 laboratories used the multiplexed-SSP method, and one laboratory used the MALDI-TOF/ SNP assay. Most laboratories reported subtyping results for KIR2DL5, 2DS4, and 3DP1 loci. KIR3DL1 was subtyped by 3 laboratories, including Costeas using SSP, Tavoularis by SSOP, and Senitzer using multiplexed-SSP.

The results for the 16<sup>th</sup> KIR Exchange are summarized in Table 1 and results from individual laboratories for each DNA sample are provided in Tables 2-5. The participating laboratories were in complete accordance in the assignments, either positive or negative, for KIR2DL1, 2DL2, 2DL4, 2DL5, 3DL1, 3DL2, 3DL3, 2DS2, 2DS3, 2DS5, 2DP1, and 3DP1 loci for all 4 DNA samples.

However, discrepant results were reported for KIR2DL3, 3DS1, 2DS1, or 2DS4 by one or two laboratories for each sample.

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.

Please note that the web site, [www.allelefrequencies.net](http://www.allelefrequencies.net), has recently been expanded to include several novel features that can be useful to analyze KIR diversity in populations. These features include the user-friendly search for frequency analyses of KIR genes, alleles, and genotypes in worldwide populations. If you would like more information, please visit the web site or contact Derek Middleton, at [derek.middleton@belfasttrust.hscni.net](mailto:derek.middleton@belfasttrust.hscni.net).

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

**NEXT MAILING DATE: February 4, 2009**

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

#### **KIR Exchange Sample: KDNA # 0061:**

The DNA was isolated from an African American donor. The consensus KIR type of this sample is: 2DL1-2DL2-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4-2DS5-2DP1-3DP1. This is a unique genotype found to occur in African-Caribbeans and African Americans at a frequency of ~3% (1,2). One laboratory typed this DNA as positive for KIR2DL3 and another laboratory typed it as positive for KIR2DS1. One laboratory reported this DNA carrying both 2DL5A and 2DL5B genes.

#### **KIR Exchange Sample: KDNA # 0062:**

The ethnic origin of KDNA#62 was unknown. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS3-2DS4-2DP1-3DP1. This genotype was reported to occur only in Samoan, Thai, and Greek populations at frequency levels of <2% (3,4,5). One laboratory typed this DNA as negative for KIR2DS4, and 2 laboratories reported this DNA as carrying both 2DL5A and 2DL5B genes.

#### **KIR Exchange Sample: KDNA # 0063:**

KDNA#63 was obtained from a Pacific Islander individual. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS3-2DS4-2DP1-3DP1. This genotype occurs in most populations, with the highest frequency of 12% found in Samoans (5). Using the MALDI-TOF mass spectrometry assay (6), Trachtenberg reported that this DNA carried a novel KIR2DL5 allele. One laboratory typed this DNA as negative for KIR3DS1.

#### **KIR Exchange Sample: KDNA # 0064:**

This DNA sample was from an Asian Indian donor. The consensus KIR type of this sample is: 2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS1-2DS4-2DS5-2DP1-3DP1. This is one of the most frequently occurring KIR genotypes in most populations (7). One laboratory reported the sample as being negative for 2DL3 and another laboratory reported this DNA carrying both 2DL5A and 2DL5B genes.

## **References**

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3. Niokou, D., Spyropoulou-Vlachou, M., Darlamitsou, A., and Stavropoulos-Giokas, C. (2003). Distribution of killer cell immunoglobulin-like receptors in the Greek population. *Hum Immunol* 64, 1167-1176.
4. Norman, P. J., Stephens, H. A., Verity, D. H., Chandanayong, D., and Vaughan, R. W. (2001). Distribution of natural killer cell immunoglobulin-like receptor sequences in three ethnic groups. *Immunogenetics* 52, 195-205.
5. Velickovic, M., Velickovic, Z., and Dunckley, H. (2006). Diversity of killer cell immunoglobulin-like receptor genes in Pacific Islands populations. *Immunogenetics*.
6. 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.
7. 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 16th KIR Exchange (KDNA#61-64)**

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#16	#0061	59	<b>POS</b> *004, *0101/ *0102 [1]	<b>POS</b> *001-*003/ *005 [3] *001-*003, *005 [1]	<b>NEG</b>	<b>POS</b> *001/ *00202/ *003- *005/ *007/ *008/ *011 [1]	<b>POS</b> B [12] B*002/ *004/ *007 [4] B*002/ *004 [2] B*002-*004 [2] B**002, *006 [1] A, B [1]	<b>POS</b> *00501, *01502 [1] *001/ *007-*009/ *015- *018 [1] *00101- *002/ *00501- *009/ *01501- *044/ *056/ *057 [1]	<b>POS</b> NT [1]		<b>NEG</b>	<b>NEG</b> <i>POS</i> [1]	<b>POS</b> *001 [1]	<b>POS</b> *001/ *002 [20] *001 [10] FULL [3] *001, - [1] *0010101- *00103 [1] *0010101- *0010103/ *00102/ *002 [1]	<b>POS</b>	<b>POS</b> NT [2] *003 [22] *00301/ *00302 [3] *003/ *005/ *006 [3] *003, - [1] NT [2]		
	#0062	59	<b>POS</b>	<b>NEG</b>	<b>POS</b>	<b>POS</b> *001/ *00202/ *003- *005/ *007/ *008/ *011 [1]	<b>POS</b> B [9] B*003/ *006 [6] B*003 [5] B*002 [1] A*005, B*002 [1] A, B [1]	<b>POS</b> *00101, *017 [1] *001/ *007- *009/ *015 *018 [1] *00101- *002/ *00501- *008/ *01501- *020 [1]	<b>POS</b> NT [1]		<b>NEG</b>	<b>NEG</b> <i>POS</i> [1] NT [1]	<b>POS</b> *001 [1]	<b>POS</b> *003-*007 [11] *003/ *004/ *006/ *007 [7] *003- *006 [5] DEL [4] *003 [1] *003/ *006 [1] *003/ *007 [1] *003/ *004/ *006 [1] *003/ *004/ *006/ *007/ *009, - [1] *003/ *004/ *006/ *007/ *009 [1] *003- *009 [1] <i>NEG</i> [1]	<b>NEG</b>	<b>POS</b> NT [2] *003 [20] *00301/ *00302 [3] *003/ *005/ *006 [3] *003, - [1] *001/ *002/ *004 [1] NT [2]		
	#0063	59	<b>POS</b>	<b>NEG</b>	<b>POS</b>	<b>POS</b> *001/ *00202/ *003- *005/ *007/ *008/ *011 [1]	<b>POS</b> A [14] A*001/*005 [8] A*005 [1] *new [1]	<b>POS</b> *01502 [1] *001/ *007- *009/ *015 *018 [1] *00101- *002/ *00501- *009/ *01501- *044/ *056/ *057 [1]	<b>POS</b> NT [1]	<b>POS</b>	<b>POS</b> *010- *014 [2] <i>NEG</i> [1] NT [1]	<b>POS</b> *0020101- *004 [1]	<b>POS</b> *001 [1]	<b>POS</b> *001/ *002 [20] *001 [10] FULL [3] *001, - [1] *00101-00103 [1] *0010101- *0010103/ *00102/ *002 [1]	<b>NEG</b>	<b>POS</b> NT [2] *003 [21] *00301/ *00302 [3] *003/ *005/ *006 [3] *003, - [1] NT [2]		
	#0064	59	<b>POS</b>	<b>NEG</b>	<b>POS</b> <i>NEG</i> [1]	<b>POS</b> *001/ *00202/ *003- *005/ *007/ *008/ *011 [1]	<b>POS</b> A [15] A*001/*005 [8] A*001 [1] A*001/ *B*006 [1]	<b>POS</b> *00101 [1] *001/ *007- *009/ *015 *018 [1] *00101- *002/ *00501- *009/ *01501- *044/ *056/ *057 [1]	<b>POS</b> NT [1]	<b>POS</b> NT [1]	<b>POS</b> *0101- *014 [2] NT [1]	<b>POS</b> *0020101- *004 [1]	<b>NEG</b>	<b>NEG</b>	<b>POS</b> *003-*007 [12] *003/ *004/ *006/ *007 [6] DEL [4] *003- *006 [4] *003/ *004/ *006/ *007/ *009 [2] *003 [1] *003/ *006 [1] *003/ *007 [1] *003/ *004/ *006 [1] *003/ *004/ *006/ *007/ *009, - [1] *003-*009 [1]	<b>POS</b>	<b>POS</b> NT [2] *003 [21] *00301/ *00302 [3] *003/ *005/ *006 [3] *003, - [1] NT [2]	

**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 #61**

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
8033	Balazs,Ivan	POS	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	
8050	Baxter-Lowe,Lee	POS	POS	NEG	POS	*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*003	SSP
8025	Carrington/Mar	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL	POS	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha																	SSP
5232	Charlton,Ronald																	SSP
3224	Chen,Dongfeng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP,SSOP
124	Christiansen/Witt	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	NT	NT	MULTIPLEX SSP
3632	Colombe,Beth	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
5130	Costeas,Paul A	POS	POS	NEG	POS	B	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	NEG	NEG	POS	POS	*0010101- *00103	POS	POS	*00301/ *00302	SSP
189	Crowe,Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	*001	*001	POS	POS	POS	SSOP
1108	Davis,Mary	POS	*001- *003, *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	SSOP
8031	Dinauer,David	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
3186	Dunkley,Heather	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8051	Endres/Wiltbank	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8038	Fernandez-Vina,M	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	SSOP
762	Fischer,Gottf	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
8026	Gardiner,Clair	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP
8036	Gillespie,Kath																	SSP
8040	Gladman/Pellet	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	*001/ *002	POS	POS	*003	
8041	Han,Hoon	*004, *0101/ *0102	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*00301/ *00302	SSP
1461	Hidajat,Melan	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
615	Holdsworth/Tait	POS	POS	NEG	POS	B*002- *004	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
5000	Hsu,Susan H.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*003	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP

**Table 2. KIR Exchange Sample: KDNA #61**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
8037	Kotsch,Katja	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP	
836	KuKuruga,Debr	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP	
8046	Kusnierszczyk,Piotr	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	FULL	POS	NT	NT	MULTIPLEX SSP	
731	Loewenthal,Ron																		
8002	MacCann,Eileen	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	POS	POS	POS	POS	SSP	
5142	Marsh,Steven	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001, -	POS	POS	*003, -	SSP	
3582	McCluskey,Jame																		
8027	Middleton,Der	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS	SSOP		
733	Mytilineos,Joan	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	*003	SSP		
2549	Nehlsen-Canna	POS	POS	NEG	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003		
8039	Noreen,Harriet	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSOP	
8022	Olerup,Olle																		
3966	Permpikul/Vejba	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
16	Pidwell,Diane J.	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSOP,SSP	
4141	Pollack,Marilyn	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
3753	Reed/Rajaling	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
3798	Reinsmoen,Nan	POS	POS	NEG	POS	B*002/ *004													
1694	Sauer/Gutwald	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
3410	Schroeder,M.L.	POS	POS	NEG	POS	B	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP		
1426	Senitzer,David	POS	POS	NEG	POS	B*002, *006	*01501, *01502	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	*003/ *005/ *006	MULTIPLEX SSP	
740	Snider,Denis	POS	POS	NEG	POS	B*002- *004		POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
702	Spannagl,Michael	POS	POS	NEG	POS	A, B	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP	
8032	Spyropoulou-Vla	POS	POS	NEG	POS	B*002/ *004/ *007		POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP,SSOP	
746	Stamm,Luz	POS	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	POS		
769	Tavoularis,Sofia	POS	*001- *003/ *005	NEG	POS	POS	*001/ *00202/ *003- *005/ *007/ *008/ *011	POS	*001/ *007- *009/ *015- *018	POS	POS	NEG	NEG	POS	POS	*001	POS	POS	SSOP
230	Thoni,Deborah	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	SSOP	
747	Tiercy,Jean-Marie	POS	POS	NEG	POS	*007	POS	POS	POS	NEG	NEG	POS	POS	*0010101- *0010103/ *00102/ *002	POS	POS	*00301/	SSP	
4021	Trachtenberg,Eliz	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	MALDI-TDF	

**Table 2. KIR Exchange Sample: KDNA #61**

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	NEG	NEG	POS	POS	FULL	POS	POS	POS	SSP	
5462	Turner,Victor																SSP	
8053	Tyan,Dolly	POS	POS	NEG	POS	B	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP	
8028	Uhrberg,Marku	POS	POS	NEG	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	*001/ *002	POS	POS	POS	SSP
3775	Vidan-Jeras,BI	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	*003	SSP	
8023	Vilches,Carlo	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	*003/ *005/ *006	SSP	
8047	Wassmuth,Ralf	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	SSP	
705	Watkins,David I.	POS	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP
4744	Yabe,Toshio	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	SSP	
1466	Yu,Neng	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	SSOP	
713	Zachary,Andre	POS	POS	NEG	POS	B*002/ *004	POS	POS	POS	NEG	NEG	POS	POS	*001/ *002	POS	POS	*003	SSP

**Table 3. KIR Exchange Sample: KDNA #62**

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	B	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
8033	Balazs,Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	
8050	Baxter-Lowe,Lee	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	*003	NEG	POS	*003	SSP
8025	Carrington/Mar	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	DEL	NEG	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha																SSP	
5232	Charlton,Ronald																SSP	
3224	Chen,Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP,SSOP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	NT	NT	MULTIPLEX SSP
3632	Colombe,Beth	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
5130	Costeas,Paul A	POS	NEG	POS	POS	B	*00101- *002/ *00501- *008/ *01501- 020	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*00301/ *00302	SSP
189	Crowe,Deborah	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	*003	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	*001	POS	NEG	POS	POS	SSOP
1108	Davis,Mary	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8031	Dinauer,David	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
3186	Dunkley,Heather	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8051	Endres/Wiltbank	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
8038	Fernandez-Vina,M	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	DEL	NEG	POS	POS	SSOP
762	Fischer,Gottf	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
8026	Gardiner,Clair	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8036	Gillespie,Kath																SSP	
8040	Gladman/Pellet	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	
8041	Han,Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006	NEG	POS	*00301/ *00302	SSP

**Table 3. KIR Exchange Sample: KDNA #62**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
1461	Hidajat,Melan	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	POS	*003- *007	NEG	POS	*003	SSP
615	Holdsworth/Tait	POS	NEG	POS	POS	B*003	POS	POS	POS	NEG	NEG	NEG	POS	*003- *006	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSOP,SSP
4337	Kim,Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
836	KuKuruga,Debr	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
8046	Kusnierszyk,Piotr	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	DEL	NEG	NT	NT	MULTIPLEX SSP
731	Loewenthal,Ron																	
8002	MacCann,Eileen	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
														*003/ *004/ *006/ *007/				
5142	Marsh,Steven	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*009,-	NEG	POS	*003,-	SSP
3582	McCluskey,Jame																	
8027	Middleton,Der	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003- *009	NEG	POS	POS	SSOP
733	Mytilineos,Joan	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	NEG	NEG	POS	*003	SSP
2549	Nehlsen-Canna	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*001/ *002/ *004	
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSOP
8022	Olerup,Olle																	
3966	Permpikul/Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSOP,SSP
4141	Pollack,Maril	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NT	NEG	POS	POS	NEG	POS	POS	SSP
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
3798	Reinsmoen,Nan	POS	NEG	POS	POS	B*003	POS	POS	POS	NEG	NEG	NEG	POS	*003- *006	NEG	POS	*003	SSP
1694	Sauer/Gutwald	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	NEG	POS	POS	B*003	POS	POS	POS	NEG	NEG	NEG	POS	*003- *006	NEG	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	B*002	*00101, *017	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007/ *009	NEG	POS	*003/ *005/ *006	MULTIPLEX SSP
740	Snider,Denis	POS	NEG	POS	POS	B*003	POS	POS	POS	NEG	NEG	NEG	POS	*003- *006	NEG	POS	*003	SSP
702	Spannagl,Michae	POS	NEG	POS	POS	A, B	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	*003	SSP

**Table 3. KIR Exchange Sample: KDNA #62**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8032	Spyropoulou-Vla	POS	NEG	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *007	NEG	POS	*003	SSP,SSOP
746	Stamm,Luz	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	
769	Tavoularis,Sofia	POS	NEG	POS	*001/ *00202/ *003- *005/ *007/ *008/ *011	POS	*001/ *007- *009/ *015- *018	POS	POS	NEG	NEG	NEG	POS	*003/ *006	NEG	POS	POS	SSOP
230	Thoni,Deborah	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSOP
747	Tiercy,Jean-Marie	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*00301/ *00302	SSP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	A*005, B*002	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	POS	MALDI-TDF
8024	Trowsdale,Joh	POS	NEG	POS	NT	POS	POS	POS	POS	NEG	NEG	NEG	POS	DEL	NEG	POS	POS	SSP
5462	Turner,Victor																	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	*003- *007	NEG	POS	*003	SSP
8028	Uhrberg,Marku	POS	NEG	POS	NT	POS	POS	POS	NT	NEG	NEG	NEG	POS	*003- *007	NEG	POS	POS	SSP
3775	Vidan-Jeras,BI	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlo	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
705	Watkins,David I.	POS	NEG	POS	POS	B*003/ *006	POS	POS	POS	NEG	NEG	NEG	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
4744	Yabe,Toshio	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSP
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	POS	NEG	POS	POS	SSOP
713	Zachary,Andre	POS	NEG	POS	POS	B*003	POS	POS	POS	NEG	NEG	NEG	POS	*003- *006	NEG	POS	*003	SSP

**Table 4. KIR Exchange Sample: KDNA #63**

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	POS	*001/ *002	NEG	POS	*003	SSP
8033	Balazs,Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	*010- *014	POS	NEG	POS	*001	NEG	POS	POS	
8050	Baxter-Lowe,Lee	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	*003	SSP
8025	Carrington/Mar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	FULL	NEG	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha																	SSP
5232	Charlton,Ronald																	SSP
3224	Chen,Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP,SSOP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	NT	NT	MULTIPLEX SSP
3632	Colombe,Beth	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
5130	Costeas,Paul A	POS	NEG	POS	POS	A	*00101- *002/ *00501- *009/ *01501- *044/ *056/ *057	POS	POS	POS	*0020101- *004	NEG	POS	*0010101- *00103	NEG	POS	*00301/ *00302	SSP
189	Crowe,Deborah	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	*001	*001	NEG	POS	POS	SSOP
1108	Davis,Mary	POS	NEG	POS	POS	POS	POS	POS	POS	*010- *014	POS	NEG	POS	*001	NEG	POS	POS	SSOP
8031	Dinauer,David	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
3186	Dunkley,Heather	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8051	Endres/Wiltbank	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8038	Fernandez-Vina,M	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	POS	SSOP
762	Fischer,Gottf	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8026	Gardiner,Clair	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8036	Gillespie,Kath																	SSP
8040	Gladman/Pellet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
4985	Graff,Ralph J.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	
8041	Han,Hoon	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*00301/ *00302	SSP
1461	Hidajat,Melan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP

**Table 4. KIR Exchange Sample: KDNA #63**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
615	Holdsworth/Tait	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
5000	Hsu,Susan H.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	*003	SSOP,SSP
4337	Kim,Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
836	KuKuruga,Debra	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8046	Kusnierszyk,Piotr	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	FULL	NEG	NT	NT	MULTIPLEX SSP
731	Loewenthal,Ron																	
8002	MacCann,Eileen	POS	NEG	POS	POS	POS	POS	POS	POS	NT	POS	NEG	POS	POS	NEG	POS	POS	SSP
5142	Marsh,Steven	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001, -	NEG	POS	*003, -	SSP
3582	McCluskey,Jame																	
8027	Middleton,Der	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	POS	SSOP
733	Mytilineos,Joan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	*003	SSP
2549	Nehlsen-Canna	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
8022	Olerup,Olle																	
3966	Permpikul/Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
16	Pidwell,Diane J.	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP,SSP
4141	Pollack,Maril	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
3798	Reinsmoen,Nan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
1694	Sauer/Guttwald	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
1426	Senitzer,David	POS	NEG	POS	POS	A*005	*01502	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	*003/ *005/ *006	MULTIPLEX SSP
740	Snider,Denis	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
702	Spannagl,Michael	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8032	Spyropoulou-Vla	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP,SSOP
746	Stamm,Luz	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	POS	
769	Tavoularis,Sofia	POS	NEG	POS	*011	POS	*018	POS	POS	POS	POS	NEG	POS	*001	NEG	POS	POS	SSOP
230	Thoni,Deborah	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP

**Table 4. KIR Exchange Sample: KDNA #63**

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	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*0010101- *0010103/ *00102/ *002	NEG	POS	*00301/ *00302	SSP
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	*new	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	MALDI-TDF
8024	Trowsdale,Joh	POS	NEG	POS	NT	POS	POS	POS	POS	POS	POS	NEG	POS	FULL	NEG	POS	POS	SSP
5462	Turner,Victor																	SSP
8053	Tyan,Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
8028	Uhrberg,Marku	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	POS	*001/ *002	NEG	POS	POS	SSP
3775	Vidan-Jeras,BI	POS	NEG	POS	POS	A	POS	POS	POS	NEG	POS	NEG	POS	POS	NEG	POS	POS	SSP
8023	Vilches,Carlo	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	*003/ *005/ *006	SSP
8047	Wassmuth,Ralf	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
705	Watkins,David I.	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP
4744	Yabe,Toshio	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSP
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	SSOP
713	Zachary,Andre	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	POS	*001/ *002	NEG	POS	*003	SSP

**Table 5. KIR Exchange Sample: KDNA #64**

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	*003	SSP
8033	Balazs,Ivan	POS	NEG	POS	POS	POS	POS	POS	POS	*010- *014	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS	
8050	Baxter-Lowe,Lee	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003	POS	POS	*003	SSP
8025	Carrington/Mar	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	*003/ *005/ *006	SSP
785	Chan,Soh Ha																	SSP
5232	Charlton,Ronald																	SSP
3224	Chen,Dongfeng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP,SSOP
124	Christiansen/Witt	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NT	NT	MULTIPLEX SSP
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	*00101- *002,/											
189	Crowe,Deborah	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003	SSP	
8030	Davidson/Poult	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	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	*003	SSP
3186	Dunkley,Heather	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	POS	SSP
8051	Endres/Wiltbank	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP
8038	Fernandez-Vina,M	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	POS	POS	SSOP
762	Fischer,Gottf	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP
8026	Gardiner,Clair	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
8036	Gillespie,Kath																	SSP
8040	Gladman/Pellet	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	*003- *007	POS	POS	*003	

**Table 5. KIR Exchange Sample: KDNA #64**

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	SSP
1461	Hidajat,Melan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP
615	Holdsworth/Tait	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *006	POS	POS	*003	SSP
5000	Hsu,Susan H.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSOP,SSP
4337	Kim,Tai-Gyu	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	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	*003- *007	POS	POS	*003	SSP
8046	Kusnierszyk,Piotr	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	DEL	POS	NT	NT	MULTIPLEX SSP
731	Loewenthal,Ron																	
8002	MacCann,Eileen	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NT	POS	NEG	NEG	POS	POS	POS	SSP
														*003/ *004/ *006/ *007/ *009, -				
5142	Marsh,Steven	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003, -	SSP	
3582	McCluskey,Jame																	
8027	Middleton,Der	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003- *009	POS	POS	POS	SSOP
733	Mytilineos,Joan	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003	SSP	
2549	Nehlsen-Canna	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	
8039	Noreen,Harriet	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP
8022	Olerup,Olle																	
3966	Permpikul/Vejba	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
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	POS	POS	NT	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
3753	Reed/Rajaling	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
														*003-				
3798	Reinsmoen,Nan	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*006	POS	POS	*003	SSP
1694	Sauer/Gutwald	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP
														*003-				
3410	Schroeder,M.L.	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*006	POS	POS	*003	SSP
														*003/ *004/ *006/ *007/ *009				
1426	Senitzer,David	POS	NEG	POS	POS	*001	*00101	POS	POS	POS	POS	NEG	NEG	*003- *005/ *006	POS	POS	MULTIPLEX SSP	
740	Snider,Denis	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP

**Table 5. KIR Exchange Sample: KDNA #64**

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
702	Spannagl,Michae	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003	SSP	
8032	Spyropoulou-Vla	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003/ *007	POS	POS	*003	SSP,SSOP	
746	Stamm,Luz	POS	NEG	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	POS	POS	POS		
769	Tavoularis,Sofia	POS	NEG	POS	POS	*001/ *00202/ *003- *005/ *007/ *008/ *011	POS	*001/ *007- *009/ *015- *018	POS	POS	POS	POS	NEG	NEG	*003/ *006	POS	POS	POS	SSOP
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	*00301/ *00302	SSP	
4021	Trachtenberg,Eliz	POS	NEG	POS	POS	A*001/ B*006	POS	POS	POS	POS	POS	NEG	NEG	*003/ *004/ *006/ *007	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																	SSP	
8053	Tyan,Dolly	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	*003- *007	POS	POS	*003	SSP	
8028	Uhrberg,Marku	POS	NEG	POS	NT	POS	POS	POS	NT	POS	POS	NEG	NEG	*003- *007	POS	POS	POS	SSP	
3775	Vidan-Jeras,BI	POS	NEG	POS	POS	A	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP	
8023	Vilches,Carlo	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	*003/ *005/ *006	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/ *004/ *006/ *007	POS	POS	*003	SSP	
4744	Yabe,Toshio	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSP	
1466	Yu,Neng	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	POS	SSOP	
713	Zachary,Andre	POS	NEG	POS	POS	A*001/ *005	POS	POS	POS	POS	POS	NEG	NEG	*003- *006	POS	POS	*003	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
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MacCann	Eileen		Providence RI		Wiltbank/Endres		Drs	Tempe AZ	
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