

REPORT OF THE 49th UCLA INTERNATIONAL KIR EXCHANGE

OCTOBER 19, 2019

KIR 195-200

For the 49th KIR Exchange, 6 DNA samples (KDNA#195 - 200) were shipped to 71 laboratories worldwide. KIR typing results were received from 68 of the laboratories.

The results for the 49th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2 - 7. Subtyping results for 2DL2, 2DL4, 2DL5, 3DL1, 2DS1, 2DS4, and 3DP1 loci were reported by some laboratories. The subtypes for 2DS4 and 3DP1 are denoted as FULL or DEL. Good agreement was achieved

among labs in the reporting of positive/negative assignments for all 6 DNA samples, as 9 tested KIR loci (KIR2DL4, 2DL5, 3DL1, 3DL2, 3DL3, 2DS3, 2DS5, 2DP1, 3DP1) were reported without discrepancy. Discrepant results from consensus are italicized in Tables 1 - 7 and described in the summation for each sample. Discrepancies at the allele level are not italicized.

We would like to thank and acknowledge Arnold, Rombola, and Falco for sharing their predicted haplotypes for each of the samples examined in this study.

KDNA # 195:

The consensus KIR type for this sample from a Caucasian donor is KIR2DL2-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4FULL-3DP1FULL. A number of discrepancies were observed in this sample, as 3 labs reported 3DS1 as positive, 2 labs reported 2DL3 as positive, and 1 lab reported 2DL1 as positive instead of negative. Arnold predicted this sample to have 2 "BA1" haplotypes. Falco and Rombola each reported CenB2/CenB2 + TelA/TelA as the genotype present.

KDNA # 196:

The consensus KIR type for this sample from a donor of unknown ethnicity is KIR2DL1-2DL2-2DL3-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4DEL-2DP1-3DP1FULL/DEL. Only a single discrepancy was observed in this sample, a 1 lab reported 2DS4 as negative instead of positive. Arnold predicted this sample to have "A" and "BA1" haplotypes. Falco and Rombola genotypes as reported CenA/CenB + TelA/TelA.

KDNA # 197:

The consensus KIR type for this sample from an African American donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS2-2DS4FULL-2DS5-2DP1-3DP1DEL. A number of discrepancies were reported for this sample as 3 labs reported this sample as negative for 2DL2 and 2

labs reported it as negative for 2DS1. A number of labs (Arnold, Falco, Sortino, Vilches) commented on the unusual haplotypes present in this sample in which 2DS1 was present in the absence of 3DS1. Vilches noted this sample "possibly carries a deletion of the central genes on one chromosome (2DS3-2DP1-2DL1-3DP1-2DL4-3DS1-2DL5A), yielding the contracted haplotype 3DL3-2DS2-2DL2-2DL5B-2DS5-2DS1-3DL2." Falco shared similar observations noting the contracted A/B genotypes consisted of "one A haplotype + one B haplotype lacking the KIR genes included between 2DL5B and telomeric 2DS5."

KDNA # 198:

The consensus KIR type for this sample from a Hispanic donor is KIR2DL1-2DL3-2DL4-2DL5A-3DL1-3DL2-3DL3-3DS1-2DS3-2DS4DEL-2DP1-3DP1DEL. Several discrepancies were observed in this sample, as 1 lab reported 2DL2 as positive and 2 labs reported 2DS1 as positive. A number of labs (Arnold, Falco, Sortino, Vilches) observed the presence of the unusual haplotypes present in this sample as 3DS1 and 2DL5A are present despite the absence of 2DS1. Vilches shared the following observation: "Sample: #198 possibly carries a duplication of the central genes on one chromosome, yielding an extended haplotype similar to one described by us (Ordonez et al. Genes & Immunity 2008, Fig. 5): 3DL3-2DL3-2DP1-2DL1-3DP1-2DL4-3DS1-2DL5A-2DS3-2DP1-2DL1-3DP1-2DL4-3DL1-2DS4-3DL2."

KDNA # 199:

The consensus KIR type for this sample from a Filipino donor is KIR2DL1-2DL3-2DL4-3DL1-3DL2-3DL3-2DS4FULL-2DP1-3DP1DEL. Good agreement was achieved among labs for this sample, as only a single discrepancy was observed in which 1 lab reported 2DS2 as positive instead of negative. Arnold predicted this sample to have 2 "A" haplotypes. Genotypes reported by Falco and Rombola were CenA/CenA + TelA/TelA.

KDNA # 200:

The consensus KIR type for this sample from Hispanic donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4FULL/DEL-2DP1-3DP1DEL. A single discrepancy was reported for this sample, as 1 lab reported 2DS1 as positive instead of negative. Arnold observed this sample as being "positive for the intracellular allele variant of 3DL1 and appears to contain 'A' and 'BA2' haplotypes." Genotypes reported by Falco and Rombola were CenA/CenB1 + TelA/TelA.

NEXT MAILING DATE: February 5, 2020

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Table 1. Summary of the 49th KIR Exchange (KDNA #195-200)

KIR Ex.	DNA	# Labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
49	195	68	NEG[66] <i>POS[1]</i> NT[1]	POS[68]	NEG[64] <i>POS[2]</i> NT[2]	POS[66] NT[2]	NEG[66] NULL[1] NT[1]	POS[67] *001[1]	POS[67] NT[1]	POS[66] NT[2]	NEG[64] <i>POS[3]</i> NT[1]	NEG[67] NT[1]	POS[68]	NEG[67] NT[1]	POS[43] FULL[24] *001[1]	NEG[67] NT[1]	NEG[65] NT[3]	POS[46] FULL[15] *001[1] VAR[2] DEL[1] NT[3]
	196	68	POS[68]	POS[67] *001/*002/ *003/ *005[1]	POS[68]	POS[64] *007[1] DEL[1] NT[2]	NEG[66] NULL[1] NT[1]	POS[67] *001[1]	POS[67] NT[1]	POS[66] NT[2]	NEG[67] NT[1]	NEG[67] NT[1]	POS[68]	NEG[67] NT[1]	POS[42] DEL[24] *003[1] <i>NEG[1]</i>	NEG[67] NT[1]	POS[66] NT[2]	POS[50] FULL, DEL[15] NT[3]
	197	68	POS[68]	POS[64] *004[1] <i>NEG[3]</i>	POS[68]	POS[66] NT[2]	POS[52] B[16]	POS[67] *001[1]	POS[67] NT[1]	POS[66] NT[2]	NEG[67] NT[1]	POS[64] *002- *009[1] *002[1] <i>NEG[2]</i>	POS[68]	NEG[67] NT[1]	POS[43] FULL[24] *001[1]	POS[68]	POS[66] NT[2]	POS[46] DEL[15] *003[1] FULL[2] FULL, DEL[1] NT[3]
	198	68	POS[68]	NEG[66] <i>POS[1]</i> NT[1]	POS[68]	POS[65] NORMAL/ DEL[1] NT[2]	POS[55] A[12] A/B?[1]	POS[67] *001[1]	POS[67] NT[1]	POS[66] NT[2]	POS[68]	NEG[65] <i>POS[2]</i> NT[1]	NEG[67] NT[1]	POS[68]	POS[43] DEL[24] *003[1]	NEG[67] NT[1]	POS[66] NT[2]	POS[46] DEL[16] FULL[2] *003[1] NT[3]
	199	68	POS[68]	NEG[67] NT[1]	POS[68]	POS[66] NT[2]	NEG[67] NT[1]	POS[67] *001[1]	POS[67] NT[1]	POS[66] NT[2]	NEG[67] NT[1]	NEG[67] NT[1]	NEG[66] <i>POS[1]</i> NT[1]	NEG[67] NT[1]	POS[43] FULL[24] *001[1]	NEG[67] NT[1]	POS[66] NT[2]	POS[46] DEL[16] FULL[2] *003[1] NT[3]
	200	68	POS[68]	POS[67] *001/*002/ *003/ *005[1]	POS[68]	POS[66] NT[2]	POS[53] B[15]	POS[68]	POS[67] NT[1]	POS[66] NT[2]	NEG[67] NT[1]	NEG[66] <i>POS[1]</i> NT[1]	POS[68]	POS[68]	POS[48] FULL, DEL[19] FULL[1]	NEG[67] NT[1]	POS[66] NT[2]	POS[46] DEL[16] *003[1] FULL[2] 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
 Subtypes of 2DS4 and 3DP1 are designated as FULL and/or DEL

KEY for Tables 2-5

italics - assignment different from consensus
 NGS - Next-generation sequencing
 RT-PCR - Real-time PCR
 SSO - Sequence-specific oligonucleotide probe based typing
 SSP - Sequence-specific primer-based typing
 SBT - Sequencing-based typing

Table 2. KIR Exchange Sample: KDNA #195 (Caucasian)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	NEG[66]	POS[68]	NEG[64]	POS[66]	NEG[67]	POS[68]	POS[67]	POS[66]	NEG[64]	NEG[67]	POS[68]	NEG[67]	POS[43]+ FULL[25]	NEG[67]	NEG[65]	POS[49]+ FULL[16]	
124	POS	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	
234	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
278	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
713	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
725	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
733	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP NGS
762	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
792	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1108	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	POS	SSO
1426	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP RT-PCR
1466	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1694	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
1778	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
2549	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
3224	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
3410	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	POS	SSP
3632	NEG	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
3753	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
3798	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
3966	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4021	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4251	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO RT-PCR
4337	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
4345	NEG	POS	NEG	NORM	NULL	POS	POS	POS	NEG	NEG	POS	NEG	NORM	NEG	NEG	VAR	SSP
4985	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
5000	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP SSO
5133	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	RT-PCR
5142	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	DEL	
5282	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
5451	NEG	POS	NT	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
5462	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP RT-PCR
5488	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP SSO
8022	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8023	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8024	NEG	POS	NEG	NT	NEG	POS	NT	NT	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8025	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	NT	SSP
8028	NEG	POS	NEG	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
8030	NEG	POS	NEG	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8035	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8038	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	POS	SSO
8046	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	VAR	SSP
8047	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8050	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP

Table 2. KIR Exchange Sample: KDNA #195 (Caucasian)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8053	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO RT-PCR
8060	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8069	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8071	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8073	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	RT-PCR
8074	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	POS	SSP SSO
8079	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8080	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	RT-PCR
8083	NEG	POS	NEG	POS	NEG	*001	POS	POS	NEG	NEG	POS	NEG	*001	NEG	NEG	*001	SSP
8084	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	RT-PCR
8085	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	NGS
8086	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8088	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8092	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8094	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSO
8097	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8098	NT	*001/ *002/ *003/ *005	NT	POS	NT	POS	POS	POS	NT	NT	POS	NT	ALL EX.4,FULL EX.5	NT	NT	POS	
8101	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8102	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	
8104	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8105	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	NGS
8106	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	SSP
8110	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	NEG	FULL	
8113	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP
8116	NEG	POS	NEG	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NEG	POS	SSP

Table 3. KIR Exchange Sample: KDNA #196 (Unknown)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[68]	POS[68]	POS[66]	NEG[67]	POS[68]	POS[67]	POS[66]	NEG[67]	NEG[67]	POS[68]	NEG[67]	POS[42]+ DEL[25]	NEG[67]	POS[66]	POS[50]+ FULL, DEL[15]	
124	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	
234	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
278	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
713	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
725	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
733	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP NGS
762	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP
792	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1108	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSO
1426	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP RT-PCR
1466	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1694	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
1778	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
2549	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3224	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
3410	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP
3632	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
3753	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
3798	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
3966	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4021	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4251	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO RT-PCR
4337	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
4345	POS	POS	POS	DEL	NULL	POS	POS	POS	NEG	NEG	POS	NEG	DEL-22BP	NEG	POS	NORM/ VARIANT	SSP
4985	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
5000	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
5133	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	RT-PCR
5142	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	
5282	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
5451	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
5462	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP RT-PCR
5488	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP SSO
8022	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8023	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8024	POS	POS	POS	NT	NEG	POS	NT	NT	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8025	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	NT	SSP
8028	POS	POS	POS	NT	NEG	POS	POS	NT	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSP
8030	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8035	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8038	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSO
8046	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP

Table 3. KIR Exchange Sample: KDNA #196 (Unknown)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8047	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	NEG	NEG	POS	POS	SSP
8050	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8053	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO RT-PCR
8060	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8069	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8071	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8073	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	RT-PCR
8074	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	POS	SSP SSO
8079	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8080	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RT-PCR
8083	POS	POS	POS	*007	NEG	*001	POS	POS	NEG	NEG	POS	NEG	*003	NEG	POS	POS	SSP
8084	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	RT-PCR
8085	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	NGS
8086	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8088	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8092	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8094	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8097	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8098	POS	*001/ *002/ *003/ *005	POS	POS	NT	POS	POS	POS	NT	NT	POS	NT	DEL	NT	POS	POS	
8101	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8102	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	
8104	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8105	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	NGS
8106	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	SSP
8110	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	DEL	NEG	POS	FULL, DEL	
8113	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
8116	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #197 (Black)

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[65]	POS[68]	POS[66]	POS[52] +B[16]	POS[68]	POS[67]	POS[66]	NEG[67]	POS[66]	POS[68]	NEG[67]	POS[43]+ FULL[25]	POS[68]	POS[66]	POS[49]+ DEL[16]	
124	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	NT	NT	
234	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
278	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
713	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
725	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
733	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP NGS
762	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
792	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
1108	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSO
1426	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP RT-PCR
1466	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
1694	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
1778	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP SSO
2549	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3224	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP SSO
3410	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
3632	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
3753	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP SSO
3798	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
3966	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4021	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4251	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO RT-PCR
4337	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
4345	POS	NEG	POS	NORM	B	POS	POS	POS	NEG	NEG	POS	NEG	NORM	POS	POS	NORM	SSP
4985	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
5000	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP SSO
5133	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	RT-PCR
5142	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	FULL	
5282	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
5451	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
5462	POS	POS	POS	POS	B	POS	POS	POS	NEG	*002- *009	POS	NEG	FULL	POS	POS	DEL	SSP RT-PCR
5488	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP SSO
8022	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	FULL, DEL	SSP
8023	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8024	POS	POS	POS	NT	POS	POS	NT	NT	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8025	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	NT	SSP
8028	POS	POS	POS	NT	POS	POS	POS	NT	NEG	POS	POS	NEG	POS	POS	NT	NT	SSP
8030	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8035	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8038	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSO
8046	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	FULL	POS	POS	POS	SSP
8047	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP

Table 4. KIR Exchange Sample: KDNA #197 (Black)

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[65]	POS[68]	POS[66]	POS[52] +B[16]	POS[68]	POS[67]	POS[66]	NEG[67]	POS[66]	POS[68]	NEG[67]	POS[43]+ FULL[25]	POS[68]	POS[66]	POS[49]+ DEL[16]	
8050	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8053	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO RT-PCR
8060	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8069	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8071	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8073	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	RT-PCR
8074	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	POS	SSP SSO
8079	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8080	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	RT-PCR
8083	POS	POS	POS	POS	B	*001	POS	POS	NEG	*002	POS	NEG	*001	POS	POS	*003	SSP
8084	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	RT-PCR
8085	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	NGS
8086	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8088	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8092	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8094	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSO
8097	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8098	POS	*004	POS	POS	POS	POS	POS	POS	NT	POS	POS	NT	ALL EX.4,FULL EX.5	POS	POS	POS	
8101	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8102	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	
8104	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8105	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	NGS
8106	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	SSP
8110	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	NEG	FULL	POS	POS	DEL	
8113	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP
8116	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #198 (Hispanic)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	NEG[66]	POS[68]	POS[66]	POS[56]+ A[12]	POS[68]	POS[67]	POS[66]	POS[68]	NEG[65]	NEG[67]	POS[68]	POS[43]+ DEL[25]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
124	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	NEG	NT	NT	
234	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
278	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
713	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
725	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
733	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP NGS
762	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
792	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
1108	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	POS	SSO
1426	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP RT-PCR
1466	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
1694	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
1778	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP SSO
2549	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
3224	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP SSO
3410	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
3632	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
3753	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP SSO
3798	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
3966	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
4021	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
4251	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO RT-PCR
4337	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
4345	POS	NEG	POS	NORM/ DEL	A	POS	POS	POS	POS	NEG	NEG	POS	DEL-22BP	NEG	POS	NORM	SSP
4985	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
5000	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP SSO
5133	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	RT-PCR
5142	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	FULL	
5282	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
5451	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
5462	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP RT-PCR
5488	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP SSO
8022	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8023	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8024	POS	NEG	POS	NT	POS	POS	NT	NT	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8025	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	DEL	NEG	POS	NT	SSP
8028	POS	NEG	POS	NT	POS	POS	POS	NT	POS	NEG	NEG	POS	POS	NEG	NT	NT	SSP
8030	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8035	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8038	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	POS	SSO
8046	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	POS	SSP
8047	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #198 (Hispanic)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	NEG[66]	POS[68]	POS[66]	POS[56]+ A[12]	POS[68]	POS[67]	POS[66]	POS[68]	NEG[65]	NEG[67]	POS[68]	POS[43]+ DEL[25]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
8050	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8053	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO RT-PCR
8060	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8069	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8071	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8073	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	RT-PCR
8074	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	POS	SSP SSO
8079	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8080	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	RT-PCR
8083	POS	NEG	POS	POS	A	*001	POS	POS	POS	NEG	NEG	POS	*003	NEG	POS	*003	SSP
8084	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	RT-PCR
8085	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	NGS
8086	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8088	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8092	POS	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8094	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSO
8097	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8098	POS	NT	POS	POS	POS	POS	POS	POS	POS	NT	NT	POS	ALL EX.4,DEL EX.5	NT	POS	POS	
8101	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8102	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	
8104	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8105	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	NGS
8106	POS	NEG	POS	POS	A	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	SSP
8110	POS	NEG	POS	POS	A,B?	POS	POS	POS	POS	NEG	NEG	POS	DEL	NEG	POS	DEL	
8113	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP
8116	POS	NEG	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	NEG	POS	POS	SSP

Table 6. KIR Exchange Sample: KDNA #199 (Filipino)

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	NEG[67]	POS[68]	POS[66]	NEG[67]	POS[68]	POS[67]	POS[66]	NEG[67]	NEG[67]	NEG[66]	NEG[67]	POS[43]+ FULL[25]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
124	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	NT	NT	
234	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
278	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
713	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
725	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
733	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP NGS
762	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
792	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
1108	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	POS	SSO
1426	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP RT-PCR
1466	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
1694	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
1778	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP SSO
2549	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
3224	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP SSO
3410	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
3632	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
3753	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP SSO
3798	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
3966	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4021	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4251	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO RT-PCR
4337	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
4345	POS	NEG	POS	NORM	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NORM	NEG	POS	NORM	SSP
4985	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
5000	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP SSO
5133	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	RT-PCR
5142	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	FULL	
5282	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
5451	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
5462	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP RT-PCR
5488	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP SSO
8022	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8023	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8024	POS	NEG	POS	NT	NEG	POS	NT	NT	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8025	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	NT	SSP
8028	POS	NEG	POS	NT	NEG	POS	POS	NT	NEG	NEG	NEG	NEG	POS	NEG	NT	NT	SSP
8030	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSO
8035	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8038	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	POS	SSO
8046	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	POS	SSP
8047	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8050	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP

Table 6. KIR Exchange Sample: KDNA #199 (Filipino)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	NEG[67]	POS[68]	POS[66]	NEG[67]	POS[68]	POS[67]	POS[66]	NEG[67]	NEG[67]	NEG[66]	NEG[67]	POS[43]+ FULL[25]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
8053	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO RT-PCR
8060	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8069	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8071	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8073	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	RT-PCR
8074	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	POS	SSP SSO
8079	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8080	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RT-PCR
8083	POS	NEG	POS	POS	NEG	*001	POS	POS	NEG	NEG	NEG	NEG	*001	NEG	POS	*003	SSP
8084	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	RT-PCR
8085	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	NGS
8086	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8088	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8092	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8094	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSO
8097	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8098	POS	NT	POS	POS	NT	POS	POS	POS	NT	NT	NT	NT	ALL EX.4, FULL EX.5	NT	POS	POS	
8101	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8102	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	
8104	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8105	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	NGS
8106	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	SSP
8110	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	FULL	NEG	POS	DEL	
8113	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP
8116	POS	NEG	POS	POS	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	POS	SSP

Table 7. KIR Exchange Sample: KDNA #200 (Hispanic)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[68]	POS[68]	POS[66]	POS[53]+ B[15]	POS[68]	POS[67]	POS[66]	NEG[67]	NEG[66]	POS[68]	POS[68]	POS[49]+ FULL, DEL[19]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
124	POS	POS	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NT	NT	
234	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
278	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
713	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
725	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
733	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP NGS
762	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
792	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1108	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSO
1426	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP RT-PCR
1466	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1694	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1778	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
2549	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3224	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
3410	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP
3632	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
3753	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
3798	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3966	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4021	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4251	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO RT-PCR
4337	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4345	POS	POS	POS	NORM/ DEL	B	POS	POS	POS	NEG	NEG	POS	POS	NORM/ (DEL- 22BP)	NEG	POS	NORM	SSP
4985	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5000	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP SSO
5133	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	RT-PCR
5142	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	FULL	
5282	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5451	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
5462	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP RT-PCR
5488	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	DEL	SSP SSO
8022	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8023	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8024	POS	POS	POS	NT	POS	POS	NT	NT	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8025	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	NT	SSP
8028	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	POS	NEG	NT	NT	SSP
8030	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8035	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8038	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSO
8046	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP

Table 7. KIR Exchange Sample: KDNA #200 (Hispanic)																	
CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[68]	POS[68]	POS[66]	POS[53]+ B[15]	POS[68]	POS[67]	POS[66]	NEG[67]	NEG[66]	POS[68]	POS[68]	POS[49]+ FULL, DEL[19]	NEG[67]	POS[66]	POS[48]+ DEL[17]	
8047	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8050	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	NT	NEG	POS	DEL	SSP
8053	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO RT-PCR
8060	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8069	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8071	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8073	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	RT-PCR
8074	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	POS	SSP SSO
8079	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8080	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RT-PCR
8083	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP
8084	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RT-PCR
8085	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	NGS
8086	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8088	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8092	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8094	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
8097	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8098	POS	*001/ *002/ *003/ *005	POS	POS	POS	POS	POS	POS	NT	NT	POS	POS	POS	NT	POS	POS	
8101	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8102	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
8104	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8105	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	NGS
8106	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	SSP
8110	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	FULL, DEL	NEG	POS	DEL	
8113	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8116	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP

Table 8. Participating Centers												
Name			City	State	Country		Name			City	State	Country
Abu Amin	Noryati	Dr	Kuala Lumpur		Malaysia		Kwok	Janette	Dr	Hong Kong		
Adams	Sharon		Bethesda	MD			Lardy	N.M.	Dr	Amsterdam		Netherlands
Arnold	Paula	PhD	Memphis	TN			Lee	Jar-How	Dr	Woodland Hills	CA	
Askar	Medhat	Dr	Dallas	TX			Liu	Cong	PhD	Grand Rapids	MI	
Barber	Kathryn		Waukesha	WI			Maha	George	PhD	Burlington	NC	
Bengtsson	Mats	MD	Uppsala		Sweden		Marsh	Steven	Prof	London		United Kingdom
Bettinotti	Maria	PhD	Baltimore	MD			Mayne	Elizabeth	Dr	Johannesburg, Gauteng		
Blasczyk	Rainer	Prof	Hannover		Germany		Meunier	Marie-Christine	PhD	Montreal, Quebec		Canada
Cao	Kai	Dr	Houston	TX			Monos	Dimitrios	PhD	Philadelphia	PA	
Carrington	Martin &	Drs	Frederick	MD			Morris	Gerald	MD, PhD	San Diego		
Cereb	Nezih	Dr	Ossining	NY			Moussa	Omar	Dr	Detroit	MI	
Charlton	Ronald	PhD	Winnipeg	MB	Canada		Mytilineos	Joannis	MD	Ulm		Germany
Chen	Dong-Feng	PhD	Durham	NC			Nikaein	Afzal	PhD	Dallas	TX	
Colombe	Beth W.	PhD	Philadelphia	PA			Pereira	Shalini		Seattle	WA	
D'Orsogna	Lloyd	Dr	Murdoch		Australia		Permpikul	Vejbaesya &	Drs	Bangkok		Thailand
Du	Keming		Shanghai		China		Pollack	Marilyn S.	PhD	Oakland	CA	
du Plessis	Cathy	Dr	Centurion, Gauteng		S. Africa		Poulton	Kay	Dr	Manchester		United Kingdom
Fernandez-Vina	Marcelo	Dr	Palo Alto	CA			Raja	Rajalingam	PhD	San Francisco	CA	
Fischer	Gottfried	Dr	Vienna		Austria		Reed	Elaine F.	PhD	Los Angeles	CA	
Freed	Brian	PhD	Aurora	CO			Rossi	Angela	Dr	Piacenza		Italy
Fuessel	Monika	PhD	Dresden		Germany		Rost	Klein &	Drs	Martinsried		Germany
Gandhi	Manish	MD	Rochester	MN			Ruiz	Phillip	MD, PhD	Miami	FL	
Gendzekhadze	Keteven	Dr	Duarte	CA			Sacchi	Nicoletta		Genova		Italy
Graff	Ralph J	Dr	St Louis	MO			Sayer	David		Fremantle		Australia
He	Jun		Suzhou, Jiangsu	China			Schiller	Jennifer	PhD	Milwaukee	WI	
Hedlund	Anna		Stockholm		Sweden		Schlenke	Peter	Prof	Graz		Austria
Hesse	Nicole		Lich		Germany		Seidl	Christian	Prof Dr	Frankfurt		Germany
Hsu	Susan H.	PhD	Dedham	MA			Shanmugam	Hemalatha	Dr	Kuala Lumpur		Malaysia
Hsu	Susan H.	PhD	Philadelphia	PA			Sortino	Grazia	Dr	Catania	Italy	
Hurley	Hartzman &	Drs	Rockville	MD			Traherne	James	Dr	Cambridge		United Kingdom
Kanangat	Siva	PhD	Chicago	IL			Uhrberg	Markus	Dr	Dusseldorf		Germany
Kashi	Zahra M.	Dr	Portland	OR			Vilches	Carlos	Dr	Majadahonda		Spain
Kim	Tai-Gyu	Prof	Seoul		S. Korea		Wieten	Lotte	Dr	Maastricht		Netherlands
Kimball	Pam	Dr	Richmond	VA			Yu	Neng	Dr	Worcester	MA	
Klohe	Ellen	Dr	Spokane	WA			Zhang	Xiaohai	PhD	Los Angeles	CA	
Kusnierczyk	Piotr	PhD	Wroclaw		Poland							