

# REPORT OF THE 47<sup>th</sup> UCLA INTERNATIONAL KIR EXCHANGE

## NOVEMBER 13, 2018

KIR 185-188

For the 47<sup>th</sup> KIR Exchange, 4 DNA samples (KDNA#185 - 188) were shipped to 74 laboratories worldwide. KIR typing results were received from 69 of the laboratories.

The results for the 47<sup>th</sup> KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2 - 5. Subtyping results for 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. Overall, good agreement was achieved

among labs in the reporting of positive/negative assignments for all 4 DNA samples. Seven tested KIR loci (KIR2DL1, 2DL3, 2DL4, 3DL2, 3DL3, 2DP1, 3DP1) were reported without discrepancy. Discrepant results from consensus are italicized in Tables 1 - 5 and described in the summation for each sample. Discrepancies at the allele level are not italicized.

We would like to thank and acknowledge Arnold, Bottino, and Hurley & Hartzman for submitting predicted haplotypes for each of the samples examined in this study.

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### KIR Exchange Sample: KDNA # 185:

The consensus KIR type for this sample from an African American donor is KIR2DL1-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS1-2DS4FULL-2DS5-2DP1-3DP1DEL. A number of discrepancies were reported for this sample, including 2 labs reporting 3DL1 as negative, 2 labs reporting 2DS2 as positive, and 2 labs reporting 2DS4 as negative. One lab accounted for the remaining discrepancies, reporting 2DL2, 3DS1, and 2DS3 as positive instead of negative. Interestingly, Kusnierczyk noted this sample was positive for 2DL2 with Olerup, but negative for 2DL2 when tested with Inno-train SSP.

Several labs (Arnold, Bottino, Sortino, and Vilches) commented on the unusual haplotype present in this sample, noting it is uncommon for 2DL5B and 2DS5 and 2DS1 to be present in the absence of 2DS2, 2DL2, and 3DS1. Vilches suspects "this sample has a deletion of the central genes, affecting part of an uncommon centromeric B haplotype (2DL3-2DL5-2DS3/5-2DP1-2DL1), the central cluster (3DP1-2DL4), and part of a telomeric B segment (3DS1-2DL5-2DS3/5-2DS1). Bottino made similar observations, noting "the analysis of the telomeric regions revealed the presence of a TelA region and of a peculiar Tel B region lacking of 3DS1 and 2DL5A. "

### KIR Exchange Sample: KDNA # 186:

The consensus KIR type for this sample from a Hispanic donor is KIR2DL1-2DL2-2DL3-2DL4-3DL1-3DL2-3DL3-2DS2-2DS4FULL-2DP1-3DP1FULL&DEL. One lab accounted for the discrepancies reported in this sample, as 2DL2 and 2DS2 were reported as negative instead of positive, and 2DS1 and 2DS5 were reported as positive instead of negative. Predicted haplotypes for this sample were reported as cA01/cB02 and tA01/tA01.

**KIR Exchange Sample: KDNA # 187:**

The consensus KIR type for this sample from a Hispanic donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5B-3DL1-3DL2-3DL3-2DS4DEL-2DS5-2DP1-3DP1DEL. Two labs reported 2DS2 as positive instead of negative and 1 lab reported 2DL5 and 2DS5 as negative instead of positive. Arnold, Bottino, Sortino, and Vilches commented on the uncommon haplotype present in this sample, in which 2DL2 is present in the absence of 2DS2. In addition, Hurley and Hartzman detected the possible presence of a 2DL5 variant in this sample, noting "2DL5B\*00601 was detected by SBT as a new allele (Exon3 nucleotide 109 G to A, In Codons 16 GCT to ACT, Amino acid A to T)."

**KIR Exchange Sample: KDNA # 188:**

The consensus KIR type for this sample from a Caucasian donor is KIR2DL1-2DL2-2DL3-2DL4-2DL5A&B-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS5-2DP1-3DP1DEL. One lab accounted for the discrepancies observed in this sample, as 3DL1 and 2DS4 were reported as positive instead of negative and 3DS1, 2DS1, 2DS2, and 2DS3 were reported as negative instead of positive. Predicted haplotypes in this sample were reported as cA01/cB02 and tB01/tB01.



***NEXT MAILING DATE: February 6, 2019***

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**Table 1. Summary of the 47<sup>th</sup> KIR Exchange (KDNA #185-188)**

KIR Ex.	DNA	# Labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
47	185	69	<b>POS[69]</b>	<b>NEG[68]</b> <i>POS[1]</i>	<b>POS[69]</b>	<b>POS[67]</b> NT[2]	<b>POS[50]</b> B*01301[1] B*00801[1] B[17] A, B [1]	<b>POS[66]</b> *001[1] <i>NEG[2]</i>	<b>POS[68]</b> NT[1]	<b>POS[67]</b> NT[2]	<b>NEG[68]</b> <i>POS[1]</i>	<b>POS[67]</b> *002[1] *002-*009[1]	<b>NEG[67]</b> <i>POS[2]</i>	<b>NEG[68]</b> <i>POS[1]</i>	<b>POS[42]</b> FULL[23] *001[1] WT[1] <i>NEG[2]</i>	<b>POS[69]</b>	<b>POS[67]</b> NT[2]	<b>POS[48]</b> DEL[19] NT[2]
	186	69	<b>POS[68]</b> NT[1]	<b>POS[67]</b> <i>NEG[1]</i> NT[1]	<b>POS[68]</b> NT[1]	<b>POS[66]</b> NT[3]	<b>NEG[67]</b> B[1] NT[1]	<b>POS[67]</b> *001[1] NT[1]	<b>POS[67]</b> NT[2]	<b>POS[66]</b> NT[3]	<b>NEG[68]</b> NT[1]	<b>NEG[67]</b> <i>POS[1]</i> NT[1]	<b>POS[67]</b> <i>NEG[1]</i> NT[1]	<b>NEG[68]</b> NT[1]	<b>POS[42]</b> FULL[24] *001[1] WT[1] NT[1]	<b>NEG[67]</b> <i>POS[1]</i> NT[1]	<b>POS[66]</b> NT[3]	<b>POS[52]</b> FULL, DEL[13] DEL[1] NT[3]
	187	69	<b>POS[69]</b>	<b>POS[69]</b>	<b>POS[69]</b>	<b>POS[66]</b> *007[1] NT[2]	<b>POS[51]</b> B [15] B*011[1] B*00601VAR[1] <i>NEG[1]</i>	<b>POS[69]</b>	<b>POS[68]</b> NT[1]	<b>POS[67]</b> NT[2]	<b>NEG[69]</b>	<b>NEG[69]</b>	<b>NEG[66]</b> <i>POS[2]</i> NT[1]	<b>NEG[69]</b>	<b>POS[44]</b> DEL[23] *003[1] FULL[1]	<b>POS[68]</b> <i>NEG[1]</i>	<b>POS[67]</b> NT[2]	<b>POS[47]</b> DEL[19] *003[1] NT[2]
	188	69	<b>POS[69]</b>	<b>POS[69]</b>	<b>POS[69]</b>	<b>POS[67]</b> NT[2]	<b>POS[58]</b> A, B[7] A*001/ *0050101, B*00201[1] A*00101+ A*00501[1] B[2] FULL, DEL[1]	<b>NEG[68]</b> <i>POS[1]</i>	<b>POS[68]</b> NT[1]	<b>POS[67]</b> NT[2]	<b>POS[68]</b> <i>NEG[1]</i>	<b>POS[66]</b> *002-*009[1] *002[1] <i>NEG[1]</i>	<b>POS[68]</b> <i>NEG[1]</i>	<b>POS[68]</b> <i>NEG[1]</i>	<b>NEG[68]</b> DEL[1]	<b>POS[69]</b>	<b>POS[67]</b> NT[2]	<b>POS[48]</b> DEL[19] 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  
 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 #185 (Black)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[69]	NEG[68]	POS[69]	POS[67]	POS[50]+ B[19]	POS[67]	POS[68]	POS[67]	NEG[68]	POS[69]	NEG[67]	NEG[68]	POS[42]+ FULL[25]	POS[69]	POS[67]	POS[48]+ DEL[19]	
124	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	NT	NT	SSO
189	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
234	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
278	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	NEG	POS	POS	POS	SSO
705	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
713	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
725	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
733	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP NGS
762	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
1108	POS	NEG	POS	POS	POS	NEG	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	
1426	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP RT-PCR
1466	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
1694	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
1778	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
2344	POS	NEG	POS	POS	B*01301	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	SSP SSO SBT
2549	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
3224	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
3410	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
3632	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
3753	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
3798	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
3808	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
3966	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
4021	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
4251	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO RT-PCR
4337	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
4985	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
5000	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
5133	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	RT-PCR
5142	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
5282	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
5451	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
5462	POS	NEG	POS	POS	B	POS	POS	POS	NEG	*002-*009	NEG	NEG	FULL	POS	POS	DEL	SSP RT-PCR
5488	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP SSO
8022	POS	POS	POS	POS	A,B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8023	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8024	POS	NEG	POS	NT	POS	POS	NT	NT	NEG	POS	POS	NEG	WT	POS	POS	DEL	SSP
8028	POS	NEG	POS	NT	POS	POS	POS	NT	NEG	POS	NEG	NEG	POS	POS	NT	NT	SSP
8030	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8035	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8038	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	SSO
8046	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	SSP
8047	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP

**Table 2. KIR Exchange Sample: KDNA #185 (Black)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8050	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	
8053	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSO RT-PCR
8060	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8069	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8071	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8073	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	RT-PCR
8074	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	SSP SSO
8076	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8079	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8080	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	RT-PCR
8083	POS	NEG	POS	POS	POS	*001	POS	POS	NEG	*002	NEG	NEG	*001	POS	POS	POS	SSP
8084	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	RT-PCR
8085	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	NGS
8086	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8088	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8090	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP SSO
8091	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8092	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8095	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSO
8097	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	SSP
8101	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8102	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	POS	SSP
8104	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8105	POS	NEG	POS	POS	B*00801	POS	POS	POS	NEG	POS	NEG	NEG	POS	POS	POS	POS	NGS
8106	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8110	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	RT-PCR

**Table 3. KIR Exchange Sample: KDNA #186 (Hispanic)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[68]	POS[67]	POS[68]	POS[66]	NEG[67]	POS[68]	POS[67]	POS[66]	NEG[68]	NEG[67]	POS[67]	NEG[68]	POS[42]+ FULL[26]	NEG[67]	POS[66]	POS[52]+ FULL, DEL[13]	
124	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	NT	NT	SSO
189	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
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	
705	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	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	FULL	NEG	POS	POS	SSP
1108	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	
1426	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	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
2344	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP SSO SBT
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	FULL	NEG	POS	POS	SSP
3632	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	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	SSO
3808	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	FULL, DEL	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
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	FULL	NEG	POS	FULL, DEL	RT-PCR
5142	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
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	FULL	NEG	POS	FULL, DEL	SSP RT-PCR
5488	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP SSO
8022	POS	NEG	POS	POS	B	POS	POS	POS	NEG	POS	NEG	NEG	FULL	POS	POS	DEL	SSP
8023	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	FULL, DEL	SSP
8024	POS	POS	POS	NT	NEG	POS	NT	NT	NEG	NEG	POS	NEG	WT	NEG	POS	FULL, DEL	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	SSP
8038	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSO
8046	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP
8047	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP

**Table 3. KIR Exchange Sample: KDNA #186 (Hispanic)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8050	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	FULL, DEL	
8053	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	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	FULL	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	FULL	NEG	POS	FULL, DEL	RT-PCR
8074	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP SSO
8076	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP
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	POS	NEG	*001	POS	POS	NEG	NEG	POS	NEG	*001	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
8090	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	POS	NEG	POS	POS	SSP SSO
8091	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
8095	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
8101	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP
8102	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	POS	SSP
8104	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	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	FULL	NEG	POS	FULL, DEL	SSP
8110	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	FULL, DEL	RT-PCR

**Table 4. KIR Exchange Sample: KDNA #187 (Hispanic)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[69]	POS[69]	POS[69]	POS[67]	POS[51]+ B [17]	POS[69]	POS[68]	POS[67]	NEG[69]	NEG[69]	NEG[66]	NEG[69]	POS[44]+ DEL[24]	POS[68]	POS[67]	POS[47] DEL[20]	
124	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	NT	NT	SSO
189	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
234	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
278	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	
705	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
713	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
725	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
733	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP NGS
762	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
1108	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	POS	
1426	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP RT-PCR
1466	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
1694	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
1778	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
2344	POS	POS	POS	POS	B*00601V	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	POS	SSP SSO SBT
2549	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
3224	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
3410	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
3632	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
3753	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
3798	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
3808	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
3966	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
4021	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
4251	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO RT-PCR
4337	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
4985	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
5000	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
5133	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	RT-PCR
5142	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
5282	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
5451	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	NEG	POS	POS	POS	POS	SSO
5462	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP RT-PCR
5488	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP SSO
8022	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	NEG	POS	NEG	FULL	NEG	POS	DEL	SSP
8023	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8024	POS	POS	POS	NT	POS	POS	NT	NT	NEG	NEG	NT	NEG	DEL	POS	POS	DEL	SSP
8028	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	NEG	NEG	POS	POS	NT	NT	SSP
8030	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8035	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8038	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	POS	SSO
8046	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	POS	SSP
8047	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP



**Table 4. KIR Exchange Sample: KDNA #187 (Hispanic)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8050	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	
8053	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSO RT-PCR
8060	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8069	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8071	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8073	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	RT-PCR
8074	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
8076	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8079	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8080	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	RT-PCR
8083	POS	POS	POS	*007	POS	POS	POS	POS	NEG	NEG	NEG	NEG	*003	POS	POS	*003	SSP
8084	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	RT-PCR
8085	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	NGS
8086	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8088	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8090	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP SSO
8091	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8092	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8095	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSO
8097	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	SSP
8101	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8102	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	POS	SSP
8104	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8105	POS	POS	POS	POS	B*011	POS	POS	POS	NEG	NEG	NEG	NEG	POS	POS	POS	POS	NGS
8106	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8110	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	RT-PCR

**Table 5. KIR Exchange Sample: KDNA #188 (Caucasian)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
	POS[69]	POS[69]	POS[69]	POS[67]	POS[61]+ A, B[8]	NEG[68]	POS[68]	POS[67]	POS[68]	POS[68]	POS[68]	POS[68]	NEG[68]	POS[69]	POS[67]	POS[48]+ DEL[19]	
124	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	NT	NT	SSO
189	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
234	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
278	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
705	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
713	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
725	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
733	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP NGS
762	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
1108	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	
1426	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP RT-PCR
1466	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
1694	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
1778	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
2344	POS	POS	POS	POS	A*00101, A*00501	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO SBT
2549	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
3224	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
3410	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
3632	POS	POS	POS	POS	FULL, DEL	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
3753	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
3798	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
3808	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
3966	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
4021	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
4251	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO RT-PCR
4337	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
4985	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
5000	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
5133	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	RT-PCR
5142	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
5282	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
5451	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
5462	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	*002-*009	POS	POS	NEG	POS	POS	DEL	SSP RT-PCR
5488	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP SSO
8022	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	NEG	NEG	DEL	POS	POS	DEL	SSP
8023	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8024	POS	POS	POS	NT	POS	NEG	NT	NT	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8028	POS	POS	POS	NT	POS	NEG	POS	NT	POS	POS	POS	POS	NEG	POS	NT	NT	SSP
8030	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8035	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP

**Table 5. KIR Exchange Sample: KDNA #188 (Caucasian)**

CTR	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	Method
8038	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8046	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8047	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8050	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	
8053	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSO RT-PCR
8060	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8069	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8071	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8073	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	RT-PCR
8074	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
8076	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8079	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8080	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	RT-PCR
8083	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*002	POS	POS	NEG	POS	POS	POS	SSP
8084	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	RT-PCR
8085	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NGS
8086	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8088	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8090	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP SSO
8091	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8092	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8095	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSO
8097	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8101	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8102	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	SSP
8104	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8105	POS	POS	POS	POS	A*001/ *0050101, B*00201	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NGS
8106	POS	POS	POS	POS	A, B	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	SSP
8110	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	POS	POS	DEL	RT-PCR