

Supplemental Table 9. Validation of array calls by PCR.

Cutoffs imposed: AIC <325, FLDAB >3
268/271 (99.0%) calls were the same by pcr and arrays

INDEL # 134099

PCR verification data from PDR panel of 24 diverse humans (Coriell)

AIC average = 261

FLDAB average = 6.2

Yoruban	PCR Call	call on 10K array
NA15029	2	2
NA15036	2	2
NA15215	2	2
NA15223	0	-1
NA15213	1	1
NA15224	1	1
NA15236	1	1
NA15510	2	2
NA15221	-1	2
NA15227	0	-1
NA15385	2	2
NA15056	2	2
NA15590	2	2
NA15038	1	1
NA15245	2	2
NA15072	2	2
NA15144	1	1
NA15216	2	2
NA15226	2	2
NA15242	2	2
NA15268	2	2
NA15324	2	2
NA15386	1	1
NA15594	2	2

21/21 correct (100%)

(1 no call-pcr)

(2 no calls-array)

INDEL # 130570**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 160

FLDAB average = 7.7

Yoruban	PCR Call	call on 10K array
NA15029	2	2
NA15036	2	2
NA15215	2	2
NA15223	0	-1
NA15213	2	2
NA15224	2	2
NA15236	1	1
NA15510	2	2
NA15221	2	2
NA15227	2	2
NA15385	2	2
NA15056	2	2
NA15590	2	2
NA15038	2	2
NA15245	2	2
NA15072	2	2
NA15144	1	1
NA15216	1	1
NA15226	2	2
NA15242	2	2
NA15268	2	2
NA15324	2	2
NA15386	2	2
NA15594	2	2

23/23 correct (100%)

(0 no calls-pcr)

(1 no call-array)

INDEL # 465000**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 250

FLDAB average = 9.7

Yoruban	PCR Call	<u>call on 10K array</u>
NA15029	2	2
NA15036	1	1
NA15215	1	1
NA15223	2	2
NA15213	1	1
NA15224	2	2
NA15236	2	2
NA15510	1	1
NA15221	2	2
NA15227	1	1
NA15385	2	2
NA15056	1	1
NA15590	2	2
NA15038	1	1
NA15245	2	2
NA15072	1	1
NA15144	2	2
NA15216	1	1
NA15226	2	2
NA15242	2	2
NA15268	2	2
NA15324	2	2
NA15386	1	1
NA15594	1	1

24/24 correct (100%)

(0 no calls-pcr)

(0 no callS-array)

INDEL # 250797**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 289

FLDAB average = 4.9

Yoruban	PCR Call	call on 10K array
NA15029	0	0
NA15036	1	-1
NA15215	1	1
NA15223	1	1
NA15213	0	0
NA15224	0	0
NA15236	0	0
NA15510	1	1
NA15221	0	0
NA15227	1	1
NA15385	1	2
NA15056	1	1
NA15590	1	1
NA15038	1	1
NA15245	0	0
NA15072	1	-1
NA15144	1	1
NA15216	0	0
NA15226	1	1
NA15242	1	1
NA15268	-1	2
NA15324	0	0
NA15386	0	0
NA15594	1	-1

19/20 correct (95%)

(1 no call-pcr)

(3 no calls-array)

INDEL # 246302**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 32

FLDAB average = 6.8

Yoruban	PCR Call	call on 10K array
NA15029	0	0
NA15036	0	0
NA15215	0	0
NA15223	0	0
NA15213	0	0
NA15224	0	0
NA15236	0	0
NA15510	0	0
NA15221	0	0
NA15227	0	0
NA15385	0	0
NA15056	0	0
NA15590	0	0
NA15038	0	0
NA15245	0	0
NA15072	0	0
NA15144	0	0
NA15216	1	1
NA15226	0	0
NA15242	1	1
NA15268	0	0
NA15324	0	0
NA15386	1	1
NA15594	0	0

24/24 correct (100%)

(0 no calls-pcr)

(0 no calls-array)

INDEL # 210592**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 212

FLDAB average = 10.0

Yoruban	PCR Call	<u>call on 10K array</u>
NA15029	2	2
NA15036	2	2
NA15215	1	1
NA15223	2	2
NA15213	1	1
NA15224	-1	1
NA15236	1	1
NA15510	2	2
NA15221	1	1
NA15227	2	2
NA15385	1	1
NA15056	1	1
NA15590	2	2
NA15038	1	1
NA15245	1	0
NA15072	2	2
NA15144	1	1
NA15216	2	2
NA15226	2	2
NA15242	2	2
NA15268	1	1
NA15324	2	2
NA15386	2	2
NA15594	2	2

23/24 correct (95.8%)

(1 no call-pcr)

(0 no calls-array)

INDEL # 46214**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 180

FLDAB average = 9.5

Yoruban	PCR Call	call on 10K array
NA15029	2	2
NA15036	2	2
NA15215	0	0
NA15223	2	2
NA15213	2	2
NA15224	2	2
NA15236	2	2
NA15510	2	2
NA15221	2	2
NA15227	2	2
NA15385	1	1
NA15056	2	2
NA15590	2	2
NA15038	2	2
NA15245	2	2
NA15072	2	2
NA15144	2	2
NA15216	2	2
NA15226	2	2
NA15242	2	2
NA15268	1	1
NA15324	2	2
NA15386	2	2
NA15594	2	2

24/24 correct (100%)

(0 no calls-pcr)

(0 no calls-array)

INDEL # 210917**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 175

FLDAB average = 8.6

Yoruban	PCR Call	call on 10K array
NA15029	1	1
NA15036	1	1
NA15215	1	1
NA15223	2	2
NA15213	1	1
NA15224	1	1
NA15236	2	2
NA15510	1	1
NA15221	2	2
NA15227	1	1
NA15385	2	2
NA15056	2	2
NA15590	1	1
NA15038	0	0
NA15245	0	0
NA15072	2	2
NA15144	1	1
NA15216	2	2
NA15226	2	2
NA15242	1	1
NA15268	2	2
NA15324	2	2
NA15386	2	2
NA15594	1	1

24/24 correct (100%)

(0 no calls-pcr)

(0 no calls-array)

INDEL # 66225**PCR verification data from PDR panel of 24 diverse humans (Coriell)**

AIC average = 324

FLDAB average = 5.8

Yoruban	PCR Call	<u>call on affy array</u>
NA15029	1	-1
NA15036	1	1
NA15215	1	-1
NA15223	1	-1
NA15213	0	0
NA15224	0	0
NA15236	0	0
NA15510	1	1
NA15221	1	1
NA15227	1	-1
NA15385	0	0
NA15056	1	1
NA15590	1	-1
NA15038	0	0
NA15245	1	1
NA15072	0	0
NA15144	1	1
NA15216	1	1
NA15226	1	1
NA15242	1	-1
NA15268	0	0
NA15324	1	1
NA15386	1	-1
NA15594	1	1

17/17 correct (100%)

(0 no calls-pcr)

(7 no calls-array)

INDEL #1377838**PCR verification data from 24 Yorubans**

AIC average = 143.8

FLDAB average = 7.5

Yoruban	PCR Call	call on affy array
NA18502	2	2
NA19145	2	2
NA18505	2	2
NA18856	1	1
NA19152	2	-1
NA19139	2	2
NA18912	2	2
NA19160	2	2
NA18521	1	1
NA18858	1	1
NA19141	2	2
NA19093	2	2
NA19153	2	2
NA19137	2	2
NA19202	1	1
NA19239	2	2
NA18515	2	2
NA19222	2	2
NA18508	2	2
NA19129	2	2
NA18912	2	2
NA19099	2	2
NA18854	2	2
NA19132	1	0

22/23 correct (95.7%)

(0 no calls-pcr)

(1 no call-array)

INDEL #2585448**Re-sequencing from 24 yorubans**

AIC average = 11.5

FLDAB average = 6.2

Yoruban	ABI reads	Call	call on affy array	
NA18502	46A: 0B		0	0
NA19145	39A: 0B		0	0
NA18505	48A: 0B		0	0
NA18856	15A: 0B		0	0
NA19152	73A: 0B		0	0
NA19139	72A: 0B		0	0
NA18912	27A: 0B		0	0
NA19160	86A: 0B		0	0
NA18521	49A: 0B		0	0
NA18858	74A: 0B		0	0
NA19141	0A: 0B	-1	0	
NA19093	91A: 0B		0	0
NA19153	58A: 0B		0	0
NA19137	22A: 0B		0	0
NA19202	64A: 0B		0	0
NA19239	113A: 0B	0	0	
NA18515	85A: 0B		0	0
NA19222	68A: 0B		0	0
NA18508	74A: 0B		0	0
NA19129	105A: 0B	0	0	
NA18912	65A: 0B		0	0
NA19099	62A: 0B		0	0
NA18854	59A: 0B		0	0
NA19132	83A: 0B		0	0

23/23 correct (100%)

(1 no call-pcr/sequencing)

(0 no calls-array)

INDEL #2049185**Re-sequencing from 24 yorubans**

AIC average = 11.5

FLDAB average = 7.0

Yoruban	ABI reads	Call	<u>call on affy array</u>	
NA18502	137A: 0B	0	0	
NA19145	152A: 0B	0	0	
NA18505	144A: 0B	0	0	
NA18856	145A: 0B	0	0	
NA19152	29A: 0B		0	0
NA19139	93A: 0B		0	0
NA18912	74A: 0B		0	0
NA19160	86A: 0B		0	0
NA18521	99A: 0B		0	0
NA18858	91A: 0B		0	0
NA19141	62A: 0B		0	0
NA19093	40A: 0B		0	0
NA19153	107A: 0B	0	0	
NA19137	129A: 0B	0	0	
NA19202	106A: 0B	0	0	
NA19239	84A: 0B		0	0
NA18515	81A: 0B		0	0
NA19222	73A: 0B		0	0
NA18508	96A: 0B		0	0
NA19129	85A: 0B		0	0
NA18912	97A: 0B		0	0
NA19099	65A: 0B		0	0
NA18854	87A: 0B		0	0
NA19132	102A: 0B	0	0	

24/24 correct (100%)

(0 no calls-pcr/sequencing)

(0 no calls-array)