A. KeyPoint NVS analysis - amplicon 1

Observed counts per position per pool, when more than 2 polymorphisms per position

Sums per pool

pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Total	error rate
			###	627	832	955	###	###	###	738	###	###	###	###	###	###	###	###	###	###	###	###		
26	C	T	1			1									1			1	1				5	0.00016
32	C	T						2	1							2						1	6	0.00019
40	G	A	2												1			1					4	0.00013
41	C	T	10	1	3	4	2	5	2	1	4	1		3	5	5	6	3	2	5	12	5	79	0.00249
43	G	A	2				1	2	3	1					1	1			1			1	13	0.00041
44	C	A					1										1					1	3	0.00009
45	T	C	3					2					1						1	1	2		10	0.00032
48	G	A					2	1														1	4	0.00013
48	G	T					1		1			1						1					4	0.00013
49	A	T	1		2										1				1				5	0.00016
51	G	A	1		2		1	1				1	2		1				1				10	0.00032
52	T	G	1		2										1				1				5	0.00016
53	T	A				1	1		2		3		1			2		2			2	1	15	0.00047
55	A	G			1				3									1			1		6	0.00019
56	A	C	3			1	1		3	1	1		1	1	1	1		2	2			1	19	0.00060
56	A	G	1	1	1	1		1	1		1				1		1						9	0.00028
56	A	T	1		1				2					1	1	1		1			3		11	0.00035
57	G	T					2	1												1	1		5	0.00016
58	G	A	2					1	1								1			1	1		7	0.00022
59	C	A					1	1	2		2	1	2		2	1				2			14	0.00044
59	C	T	6	1			4	1	6		1	2	2		2	1				1	2	1	30	0.00095
60	C	G					1								1		1				2		5	0.00016
61	G	A	1	3			1	2		2	3	1			1	3		2		1		1	21	0.00066
61	G	C			1												1				1		3	0.00009
61	G	T						2								1						1	4	0.00013
62	C	A	1						1	1						1		2					6	0.00019
62	C	T	2		1			1	3		1							1	1		1	2	13	0.00041
63	C	A	2			1			2														5	0.00016
63	C	G	1	1													1				2		5	0.00016
63	C	T						1	1						1								3	0.00009
64	G	A	1	1					1		2						1	1	1		1		9	0.00028
64	G	T													3		1	1					5	0.00016
65	A	G	2	1					1									1			1		6	0.00019
66	T	C							1	1		1	1		2	1				1	2		10	0.00032
67	G	T							1	1		1	1	1	2					1	1	1	10	0.00032
68	G	A							2			1					1		1				5	0.00016
69	A	G	1	1				2	1			1			1	1	1	1	1	3	2	1	17	0.00054
69	A	T	1					1			2				1	1		1			1		8	0.00025
70	G	A	1			1		1					2		3	1	1						10	0.00032
71	G	A	1									2					1		1			1	6	0.00019
73	G	A	1												2	1	2						6	0.00019
73	G	T										1				2							3	0.00009
74	G	A	2												1							2	5	0.00016
74	G	T	3							1										1			5	0.00016
75	A	G	1	1											1	2	1				1	1	8	0.00025
78	A	G	1						1						1								3	0.00009
79	G	T	2												1								3	0.00009
86	A	G													2						1		3	0.00009
88	G	A	1																			3	4	0.00013
91	G	A									2										1		3	0.00009
94	C	A	1							1	1										1		4	0.00013
94	C	T													1				1			1	3	0.00009
96	T	A	1								1			1		1					1		5	0.00016
100	G	A			1						1				1	1							4	0.00013
101	A	G			1										2								3	0.00009
104	G	T												2		1					1		4	0.00013
105	T	A												1		1					1		3	0.00009
105	T	C	1		1		1							1									4	0.00013
106	G	A						1							1		1					1	4	0.00013
107	A	T									1										1	1	3	0.00009
115	G	A																2			1		3	0.00009
118	G	A			1			1								1							3	0.00009
126	T	A					1				3												4	0.00013
127	G	A	1									2				2							5	0.00016
131	C	T										1					1				1		3	0.00009
133	G	A	16	4	3	5	5	10	9	3	4	4	4	2	8	9	6	15	3	8	6	10	134	0.00422
134	C	A	2														1			1			4	0.00013
137	C	T											1			1						4	6	0.00019
138	G	A								1				1				1					3	0.00009
144	A	G							1	1	1					1					1	1	6	0.00019
146	G	A							1								3						4	0.00013
147	G	A	2			1																	3	0.00009
148	A	G									1				1				1	3		1	7	0.00022
150	A	C											4										4	0.00013
150	A	G	2																		1		3	0.00009
156	C	A	2												1		1						4	0.00013
157	A	G	2									1			1					1		1	6	0.00019
158	C	T			1	1	1		1						2			1					7	0.00022
160	G	A										145	2					1		161			309	0.00974
161	T	A										145	2							161			308	0.00971
162	G	A										2			2	1							5	0.00016
164	A	G											3										3	0.00009
165	G	A						1				1				1						1	4	0.00013
166	C	T		1						1			1			1				1			5	0.00016
170	C	T	5			1	2	1	1		2	1					1						14	0.00044
172	T	G		211		108		1		93					2			202	122	150		192	1081	0.03408
174	G	A			3			1				2											6	0.00019
176	A	G	1		1						1							1				1	5	0.00016
177	G	A					1	2	1						1					1		2	8	0.00025
179	A	T	2												1								3	0.00009
185	G	A			1										1		1						3	0.00009
186	G	A	1					1							1								3	0.00009
188	C	A	2								1												3	0.00009
188	C	T						1							1						1	2	5	0.00016
193	T	C										1									1	1	3	0.00009
194	G	A			1			1							3	2					1		8	0.00025
194	G	T	9		1	1	3	2	8	2	2		3	3	3	1	3	5	1	4	1	6	58	0.00183
195	G	A							1	1						1							3	0.00009
195	G	T					1		1		2					2						1	7	0.00022
196	T	G	9	1	1	1	3		9	2	1		4	3	3	1	3	4	1	4	1	6	57	0.00180
198	T	G	3	1	3	1	2	3	17	1	5	2	5	5	12	5	6	5	1	3	2	16	98	0.00309
199	G	A	3	1	2	1	1	3	18	1	3	2	5	5	11	4	6	4		2	1	14	87	0.00274
199	G	T	1		1			2			2				3	2		1	1	1	1	4	19	0.00060
200	A	C	3	1	2	1	1		12	1	3	1	5	3	8	4	4	1		2	1	11	64	0.00202

P-values per position per pool

															A	B	C	D	E	F	G	H		Count	
pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	P<0.001	P<0.01	P<0.05
26	C	T	0.5	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	0.3	0.1	1.0	1.0	1.0	0	0	0
32	C	T	1.0	1.0	1.0	1.0	1.0	0.1	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.4	0	0	1
40	G	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0	0	0
41	C	T	0.6	0.8	0.3	0.2	0.9	0.7	1.0	0.8	0.4	0.9	1.0	0.5	0.7	0.4	0.1	0.9	0.7	0.4	0.0	0.7	1	1	1
43	G	A	0.5	1.0	1.0	1.0	0.5	0.2	0.1	0.3	1.0	1.0	1.0	1.0	0.6	0.5	1.0	1.0	0.3	1.0	1.0	0.6	0	0	0
44	C	A	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.2	0	0	0
45	T	C	0.1	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.3	0.4	0.1	1.0	0	0	0
48	G	A	1.0	1.0	1.0	1.0	0.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	0	0	1
48	G	T	1.0	1.0	1.0	1.0	0.2	1.0	0.3	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0	0	0
49	A	T	0.5	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0	1	1
51	G	A	0.7	1.0	0.0	1.0	0.4	0.5	1.0	1.0	1.0	0.3	0.0	1.0	0.5	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0	0	2
52	T	G	0.5	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0	1	1
53	T	A	1.0	1.0	1.0	0.4	0.5	1.0	0.3	1.0	0.0	1.0	0.4	1.0	1.0	0.2	1.0	0.3	1.0	1.0	0.1	0.7	0	0	1
55	A	G	1.0	1.0	0.1	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	0.2	1.0	0	0	1
56	A	C	0.4	1.0	1.0	0.4	0.6	1.0	0.2	0.4	0.6	1.0	0.5	0.5	0.8	0.6	1.0	0.4	0.1	1.0	1.0	0.8	0	0	0
56	A	G	0.7	0.2	0.2	0.2	1.0	0.5	0.5	1.0	0.3	1.0	1.0	1.0	0.5	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0	0	0
56	A	T	0.8	1.0	0.3	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.3	0.6	0.4	1.0	0.5	1.0	1.0	0.0	1.0	0	0	1
57	G	T	1.0	1.0	1.0	1.0	0.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.2	1.0	0	0	1
58	G	A	0.2	1.0	1.0	1.0	1.0	0.4	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0.3	0.2	1.0	0	0	0
59	C	A	1.0	1.0	1.0	1.0	0.5	0.6	0.3	1.0	0.1	0.4	0.1	1.0	0.3	0.5	1.0	1.0	1.0	0.2	1.0	1.0	0	0	0
59	C	T	0.2	0.4	1.0	1.0	0.1	0.9	0.0	1.0	0.7	0.3	0.3	1.0	0.7	0.8	1.0	1.0	1.0	0.8	0.3	0.9	0	0	1
60	C	G	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.2	1.0	1.0	1.0	0.0	1.0	0	0	1
61	G	A	0.9	0.0	1.0	1.0	0.7	0.4	1.0	0.1	0.1	0.5	1.0	1.0	0.8	0.1	1.0	0.4	1.0	0.7	1.0	0.8	0	1	1
61	G	C	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1	1.0	0	0	0
61	G	T	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.3	0	0	1
62	C	A	0.5	1.0	1.0	1.0	1.0	1.0	0.4	0.1	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.1	1.0	1.0	1.0	1.0	0	0	0
62	C	T	0.5	1.0	0.3	1.0	1.0	0.6	0.1	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.3	1.0	0.4	0.2	0	0	0
63	C	A	0.1	1.0	1.0	0.1	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
63	C	G	0.5	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.0	1.0	0	0	1
63	C	T	1.0	1.0	1.0	1.0	1.0	0.2	0.2	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
64	G	A	0.7	0.2	1.0	1.0	1.0	1.0	0.5	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.3	0.5	0.3	1.0	0.3	1.0	0	0	0
64	G	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.2	0.3	1.0	1.0	1.0	1.0	0	1	1
65	A	G	0.2	0.1	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	0.2	1.0	0	0	0
66	T	C	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.2	1.0	0.3	0.3	1.0	0.2	0.4	1.0	1.0	1.0	0.4	0.1	1.0	0	0	0
67	G	T	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.2	1.0	0.3	0.3	0.3	0.2	1.0	1.0	1.0	1.0	0.4	0.3	0.5	0	0	0
68	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.2	1.0	0.1	1.0	1.0	1.0	0	0	0
69	A	G	0.9	0.3	1.0	1.0	1.0	0.3	0.7	1.0	1.0	0.5	1.0	1.0	0.7	0.6	0.5	0.7	0.4	0.1	0.2	0.7	0	0	0
69	A	T	0.6	1.0	1.0	1.0	1.0	0.4	1.0	1.0	0.0	1.0	1.0	1.0	0.4	0.3	1.0	0.4	1.0	1.0	0.3	1.0	0	0	1
70	G	A	0.7	1.0	1.0	0.3	1.0	0.5	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.4	0.3	1.0	1.0	1.0	1.0	1.0	0	0	2
71	G	A	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.2	1.0	0.2	1.0	1.0	0.4	0	0	1
73	G	A	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.3	0.0	1.0	1.0	1.0	1.0	1.0	0	0	1
73	G	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0	1	1
74	G	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0	0	0
74	G	T	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0	0	1
75	A	G	0.6	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.1	0.3	1.0	1.0	1.0	0.3	0.4	0	0	0
78	A	G	0.3	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
79	G	T	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
86	A	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	1
88	G	A	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0	1	1
91	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	1	1
94	C	A	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	0
94	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.1	1.0	1.0	0.2	0	0	0
96	T	A	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0.1	1.0	0.2	1.0	1.0	1.0	1.0	0.2	1.0	0	0	0
100	G	A	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.3	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
101	A	G	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	1
104	G	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.2	1.0	1.0	1.0	1.0	0.1	1.0	0	1	1
105	T	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.1	1.0	1.0	1.0	1.0	0.1	1.0	0	0	0
105	T	C	0.4	1.0	0.1	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
106	G	A	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.1	1.0	1.0	1.0	1.0	0.3	0	0	0
107	A	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.2	0	0	0
115	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.1	1.0	0	0	1
118	G	A	1.0	1.0	0.1	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
126	T	A	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1	1	1
127	G	A	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	2
131	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1	1.0	0	0	0
133	G	A	0.7	0.3	0.7	0.4	0.8	0.5	0.6	0.6	0.8	0.7	0.7	0.9	0.8	0.2	0.4	0.0	0.8	0.5	0.5	0.5	0	0	1
134	C	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.2	1.0	1.0	0	0	0
137	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.0	0	1	1
138	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0	0	0
144	A	G	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.1	0.2	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	0.2	0.4	0	0	0
146	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1	1	1
147	G	A	0.1	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
148	A	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.4	1.0	1.0	1.0	0.2	0.0	1.0	0.4	0	1	1
150	A	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1	1	1
150	A	G	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	0
156	C	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0	0	0
157	A	G	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0.4	1.0	1.0	1.0	1.0	0.3	1.0	0.4	0	0	0
158	C	T	1.0	1.0	0.2	0.2	0.3	1.0	0.4	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.4	1.0	1.0	1.0	1.0	0	0	0
160	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	2	2	2
161	T	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	2	2	2
162	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.1	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0	0	1
164	A	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1	1	1
165	G	A	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.3	0	0	0
166	C	T	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.2	1.0	1.0	0.2	1.0	1.0	1.0	0.2	1.0	1.0	0	0	0
170	C	T	0.0	1.0	1.0	0.3	0.2	0.6	0.6	1.0	0.1	0.4	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0	1.0	0	0	1
172	T	G	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	7	7	7
174	G	A	1.0	1.0	0.0	1.0	1.0	0.3	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1	1	2
176	A	G	0.5	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.3	0	0	0
177	G	A	1.0	1.0	1.0	1.0	0.3	0.1	0.4	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0	0.4	1.0	0.1	0	0	0
179	A	T	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
185	G	A	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0	0	0
186	G	A	0.3	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
188	C	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
188	C	T	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.2	0.1	0	0	0
193	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.2	0	0	0
194	G	A	1.0	1.0	0.2	1.0	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.1	1.0	1.0	1.0	1.0	0.3	1.0	0	0	1
194	G	T	0.3	1.0	0.8	0.8	0.6	0.9	0.1	0.4	0.7	1.0	0.3	0.3	0.8	0.9	0.4	0.4	0.8	0.4	0.9	0.3	0	0	0
195	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.1	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
195	G	T	1.0	1.0	1.0	1.0	0.3	1.0	0.4	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.4	0	0	2
196	T	G	0.3	0.7	0.8	0.8	0.6	1.0	0.0	0.4	0.9	1.0	0.1	0.3	0.8	0.9	0.4	0.5	0.8	0.4	0.9	0.2	0	0	1
198	T	G	1.0	0.9	0.5	0.9	1.0	1.0	0.0	0.9	0.4	0.9	0.3	0.2	0.1	0.5	0.2	0.8	1.0	0.9	0.9	0.0	0	2	2
199	G	A	1.0	0.8	0.7	0.9	1.0	0.9	0.0	0.9	0.7	0.8	0.2	0.1	0.1	0.6	0.1	0.8	1.0	1.0	1.0	0.0	1	2	2
199	G	T	0.9	1.0	0.4	1.0	1.0	0.4	1.0	1.0	0.2	1.0	1.0	1.0	0.2	0.2	1.0	0.7	0.5	0.7	0.5	0.1	0	0	0
200	A	C	1.0	0.7	0.5	0.9	1.0	1.0	0.0	0.8	0.5	0.9	0.1	0.3	0.1	0.4	0.2	1.0	1.0	0.9	0.9	0.0	0	2	2

A. KeyPoint NVS analysis - amplicon 1

Observed counts per position per pool, when more than 2 polymorphisms per position

			Sums per pool																				
			###	627	832	955	###	###	###	738	###	###	###	###	###	###	###	###	###	###	###	###		
pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Total	error rate
200	A	G							1					1	1			1			1	1	6	0.00019
200	A	T					1		6					2	2		2	3				2	18	0.00057
201	T	C				1			1				1		2						2		7	0.00022
202	A	T				1			1				1		2			2			2	1	10	0.00032
203	A	G					1		1									1				3	6	0.00019
204	C	A			1				1			1		2	4	1		2			2		14	0.00044
204	C	T					1							1								1	3	0.00009
205	C	T																		3			3	0.00009
206	C	A	2								1												3	0.00009
206	C	T	1					1			1	1			2	1	1				1		9	0.00028
207	T	A						1			1	1			3	1	1			1			9	0.00028
207	T	C	2	1	1		4	1	4	3					2		2	2		2		1	25	0.00079
208	A	T	2	1	1		4	1	4	4					2		2	1		2		1	25	0.00079
209	C	A	2	1	1		4	1	4	4					2		2	1		2		1	25	0.00079
210	C	A	1			1	1		2				1		1							1	8	0.00025
210	C	T				87										123		1					211	0.00665
211	A	C					1		1									1				1	4	0.00013
212	C	A									2				1						1		4	0.00013
212	C	T						1	1					1	1								4	0.00013
213	T	C	1																		1	2	4	0.00013
216	A	T			1							1		1	2	1		2			1		9	0.00028
217	T	A	1		2							1		1	2	1		2			1		11	0.00035
220	C	A												1	1							2	4	0.00013
220	C	T													2							1	3	0.00009
221	G	A	2		1		1				2	5	2		1	1		1		1		1	18	0.00057
221	G	T	1							1								1					3	0.00009
222	A	G							1									3				1	5	0.00016
223	C	A	2				1		2			1											6	0.00019
223	C	T							1										1			1	3	0.00009
224	A	C	2				1		2	1		1											7	0.00022
224	A	G			1				2						1						1		5	0.00016
226	A	C	1				1						1			1		1					5	0.00016
227	C	T	1				1						1					1		1			5	0.00016
228	T	A	1				1						1					1					4	0.00013
229	G	A				1	1			1		1			1								5	0.00016
230	C	T	1		1		1				2		1							1			7	0.00022
231	T	G	1					1			2					1		1		1			7	0.00022
233	G	A	1					1	5	2		1			4		1	1				2	18	0.00057
233	G	C	2		1		2		1							1		1					8	0.00025
233	G	T	1			1		1			1			1	1	1	1	1		1			10	0.00032
236	G	A					1											1		1			3	0.00009
236	G	T	8		1	1		5			3	4	1	3	1	6	1	6	3	6	2	5	56	0.00177
239	G	A		1													1	1		1			4	0.00013
241	T	C									1		2										3	0.00009
Total			192	240	57	233	89	87	178	144	86	348	72	57	175	224	76	316	158	559	97	344	3732	

P-values per position per pool

															A	B	C	D	E	F	G	H		Count	
pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	P<0.001	P<0.01	P<0.05
200	A	G	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0	0.2	0.4	1.0	1.0	0.3	1.0	1.0	0.2	0.4	0	0	0
200	A	T	1.0	1.0	1.0	1.0	0.6	1.0	0.0	1.0	1.0	1.0	1.0	0.1	0.4	1.0	0.1	0.1	1.0	1.0	1.0	0.4	0	1	1
201	T	C	1.0	1.0	1.0	0.2	1.0	1.0	0.4	1.0	1.0	1.0	0.2	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0	0	1
202	A	T	1.0	1.0	1.0	0.3	1.0	1.0	0.5	1.0	1.0	1.0	0.3	1.0	0.2	1.0	1.0	0.1	1.0	1.0	0.1	0.5	0	0	0
203	A	G	1.0	1.0	1.0	1.0	0.3	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.0	0	0	1
204	C	A	1.0	1.0	0.3	1.0	1.0	1.0	0.6	1.0	1.0	0.4	1.0	0.1	0.0	0.5	1.0	0.2	1.0	1.0	0.1	1.0	0	0	1
204	C	T	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0	0	0
205	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1	1	1
206	C	A	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
206	C	T	0.7	1.0	1.0	1.0	1.0	0.5	1.0	1.0	0.3	0.3	1.0	1.0	0.1	0.4	0.3	1.0	1.0	1.0	0.3	1.0	0	0	0
207	T	A	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0	0.3	0.3	1.0	1.0	0.0	0.4	0.3	1.0	1.0	0.4	1.0	1.0	0	0	1
207	T	C	0.8	0.4	0.5	1.0	0.0	0.8	0.1	0.0	1.0	1.0	1.0	1.0	0.6	1.0	0.2	0.5	1.0	0.4	1.0	0.8	0	0	2
208	A	T	0.8	0.4	0.5	1.0	0.0	0.8	0.1	0.0	1.0	1.0	1.0	1.0	0.6	1.0	0.2	0.8	1.0	0.4	1.0	0.8	0	1	2
209	C	A	0.8	0.4	0.5	1.0	0.0	0.8	0.1	0.0	1.0	1.0	1.0	1.0	0.6	1.0	0.2	0.8	1.0	0.4	1.0	0.8	0	1	2
210	C	A	0.6	1.0	1.0	0.2	0.3	1.0	0.1	1.0	1.0	1.0	0.2	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0	0	0
210	C	T	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2	2	2
211	A	C	1.0	1.0	1.0	1.0	0.2	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.3	0	0	0
212	C	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	1
212	C	T	1.0	1.0	1.0	1.0	1.0	0.2	0.3	1.0	1.0	1.0	1.0	0.1	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
213	T	C	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.0	0	0	1
216	A	T	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.2	0.1	0.4	1.0	0.1	1.0	1.0	0.3	1.0	0	0	0
217	T	A	0.8	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.3	0.2	0.4	1.0	0.2	1.0	1.0	0.4	1.0	0	0	1
220	C	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0	0	1
220	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0	0	1
221	G	A	0.7	1.0	0.4	1.0	0.6	1.0	1.0	1.0	0.2	0.0	0.1	1.0	0.7	0.6	1.0	0.7	1.0	0.6	1.0	0.7	1	1	1
221	G	T	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0	0	0
222	A	G	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.3	0	1	1
223	C	A	0.2	1.0	1.0	1.0	0.3	1.0	0.1	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
223	C	T	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.2	0	0	0
224	A	C	0.2	1.0	1.0	1.0	0.3	1.0	0.1	0.2	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
224	A	G	1.0	1.0	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0	0	0
226	A	C	0.5	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0.2	1.0	0.3	1.0	1.0	1.0	1.0	0	0	0
227	C	T	0.5	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.3	1.0	0.2	1.0	1.0	0	0	0
228	T	A	0.4	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0	0	0
229	G	A	1.0	1.0	1.0	0.1	0.2	1.0	1.0	0.1	1.0	0.2	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
230	C	T	0.6	1.0	0.2	1.0	0.3	1.0	1.0	1.0	0.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	0	0	1
231	T	G	0.6	1.0	1.0	1.0	1.0	0.4	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.3	1.0	0.4	1.0	0.3	1.0	1.0	0	0	1
233	G	A	0.9	1.0	1.0	1.0	1.0	0.7	0.0	0.1	1.0	0.5	1.0	1.0	0.0	1.0	0.5	0.7	1.0	1.0	1.0	0.4	0	0	2
233	G	C	0.3	1.0	0.2	1.0	0.1	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.4	1.0	1.0	1.0	1.0	0	0	0
233	G	T	0.7	1.0	1.0	0.3	1.0	0.5	1.0	1.0	0.3	1.0	1.0	0.3	0.5	0.4	0.3	0.5	1.0	0.4	1.0	1.0	0	0	0
236	G	A	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0.2	1.0	1.0	0	0	0
236	G	T	0.4	1.0	0.8	0.8	1.0	0.4	1.0	1.0	0.4	0.2	0.9	0.3	1.0	0.1	0.9	0.2	0.3	0.1	0.7	0.4	0	0	0
239	G	A	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.2	1.0	0.2	1.0	1.0	0	0	0
241	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	1	1

B. KeyPoint NVS analysis - amplicon 2

Observed counts per position per pool, when more than 2 polymorphisms per position

			Sums per pool																				
			342	283	652	175	270	890	373	###	933	495	658	692	341	274	636	412	832	864	###	57		
pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Total	error rate
44	G	A												1	1					1			3	0.00026
47	G	A			1				43		26		67		35			10		41			223	0.01940
65	C	T								1									1	1			3	0.00026
76	G	A																		2	2		4	0.00035
77	C	T			1			1										1		2	1		6	0.00052
101	G	A					1	2			2	1						3			2		11	0.00096
102	C	T			2		1		1								1		1	1	3		10	0.00087
125	A	G											1						2				3	0.00026
153	G	A					1	1					1	1				1	1				6	0.00052
157	G	A						1										1		1			3	0.00026
158	C	T			2			1				1									2		6	0.00052
165	C	T				1				2		1	1	1			2		2		1		11	0.00096
171	T	G				15										25							40	0.00348
174	G	A																1			2		3	0.00026
183	T	C										1								1	1		3	0.00026
185	C	T	1		1							1							1		1		5	0.00043
191	G	A	3				1						1			2				1			8	0.00070
192	C	T					2				1												3	0.00026
193	C	T				15		1								25							41	0.00357
203	A	C	1									75								69			145	0.01261
206	T	C													1			1		1			3	0.00026
209	T	C				15										25							40	0.00348
216	A	T						1					1								1		3	0.00026
223	T	C				1				3				4	1				1		2		12	0.00104
226	T	C	1	1					3	2	1	1	1	2	3		1				1		17	0.00148
227	C	T				1				3				4	1				1	1	2		13	0.00113
230	C	T	1				1	2	1	3	1		1	4	2		1			2	1		20	0.00174
233	T	C					1		1	2					1					1	1		7	0.00061
245	C	A				15										25	1						41	0.00357
245	C	T					2			2					1					1	1		7	0.00061
252	G	T						1						2									3	0.00026
253	T	G						1						2									3	0.00026
256	T	C									1		1				1						3	0.00026
266	A	G				7								1		12							20	0.00174
269	T	A		37		17				63								15	44	29		11	216	0.01879
283	G	A	2		1			1					1						1				6	0.00052
284	C	T			1						1								1				3	0.00026
329	C	A										2		1									3	0.00026
331	G	A					2				1												3	0.00026
343	C	T						2	1														3	0.00026
346	G	A											1							2			3	0.00026
Total			13	41	18	90	20	28	54	104	49	89	89	33	47	116	19	42	74	174	45	13	1158	

P-values per position per pool

															A	B	C	D	E	F	G	H		Count	
pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	P<0.001	P<0.01	P<0.05
44	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.1	1.0	1.0	1.0	1.0	0.2	1.0	1.0	0	0	0
47	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	0.3	1.0	0.0	1.0	1.0	4	4	5
65	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.2	1.0	1.0	0	0	0
76	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.1	1.0	0	0	1
77	C	T	1.0	1.0	0.3	1.0	1.0	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0.1	0.5	1.0	0	0	0
101	G	A	1.0	1.0	1.0	1.0	0.2	0.2	1.0	1.0	0.2	0.4	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.3	1.0	0	1	1
102	C	T	1.0	1.0	0.1	1.0	0.2	1.0	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	0.5	0.5	0.1	1.0	0	0	0
125	A	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0	0	1
153	G	A	1.0	1.0	1.0	1.0	0.1	0.4	1.0	1.0	1.0	1.0	0.3	0.3	1.0	1.0	1.0	0.2	0.4	1.0	1.0	1.0	0	0	0
157	G	A	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.2	1.0	1.0	0	0	0
158	C	T	1.0	1.0	0.0	1.0	1.0	0.4	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	1
165	C	T	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.3	1.0	0.4	0.5	0.5	1.0	1.0	0.1	1.0	0.2	1.0	0.7	1.0	0	0	0
171	T	G	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2	2	2
174	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.0	1.0	0	0	1
183	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.3	1.0	0	0	0
185	C	T	0.1	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0.4	1.0	0	0	0
191	G	A	0.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	0.0	1.0	1.0	1.0	0.5	1.0	1.0	0	1	2
192	C	T	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	1	1
193	C	T	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2	2	2
203	A	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	2	2	2
206	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.1	1.0	0.2	1.0	1.0	0	0	0
209	T	C	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2	2	2
216	A	T	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	1.0	0	0	0
223	T	C	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.0	0.3	1.0	1.0	1.0	0.6	1.0	0.4	1.0	0	1	1
226	T	C	0.4	0.3	1.0	1.0	1.0	1.0	0.0	0.5	0.7	0.5	0.6	0.3	0.0	1.0	0.6	1.0	1.0	1.0	0.8	1.0	0	0	2
227	C	T	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.0	0.3	1.0	1.0	1.0	0.6	0.6	0.4	1.0	0	1	1
230	C	T	0.4	1.0	1.0	1.0	0.4	0.5	0.5	0.3	0.8	1.0	0.7	0.0	0.1	1.0	0.7	1.0	1.0	0.4	0.9	1.0	0	0	1
233	T	C	1.0	1.0	1.0	1.0	0.2	1.0	0.2	0.2	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.4	0.5	1.0	0	0	0
245	C	A	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.9	1.0	1.0	1.0	1.0	1.0	2	2	2
245	C	T	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	0.4	0.5	1.0	0	0	1
252	G	T	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	1
253	T	G	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	1
256	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0.2	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0	0	0
266	A	G	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2	2	2
269	T	A	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	5	6	7
283	G	A	0.0	1.0	0.3	1.0	1.0	0.4	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	0	0	1
284	C	T	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0	0	0
329	C	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	1	1
331	G	A	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	1	1
343	C	T	1.0	1.0	1.0	1.0	1.0	0.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	1
346	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0	0	1

C. KeyPoint NVS analysis - amplicon 3

Observed counts per position per pool, when more than 2 polymorphisms per position

Sums per pool

pos	WT	SNP	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Total	error rate
30	C	T	1														1		1				3	0.00008
32	A	G								1	1		1							1			4	0.00011
33	G	A		1	1													1				1	4	0.00011
38	C	T									1	1									1		3	0.00008
40	G	A		1							1	1											3	0.00008
41	T	C			1	105										105							211	0.00564
42	G	A								1					1							1	3	0.00008
45	T	C				1					1				1								3	0.00008
46	C	A		1																		2	3	0.00008
46	C	T	1		1					3		1						2			2	1	12	0.00032
47	G	A									1				1			1				1	4	0.00011
48	G	A					2	1		1					1								5	0.00013
51	G	A								2			1										3	0.00008
51	G	T								1		1						1					3	0.00008
52	G	A	1	4	2				1	4	3	2	2		3	5	3	2	2			2	36	0.00096
54	T	A		1	1	1				6	1	1	1	1	2							2	17	0.00045
54	T	C	1		2					2	1	1	1	1				1					11	0.00029
54	T	G		1		1		2		2		2	2			1	3	1				2	17	0.00045
55	T	A	1			1				1						1						1	5	0.00013
55	T	C	3	1	3		2		1	8	1		1	2	3	2		5			1	2	35	0.00094
56	C	T			1		1			1			1	1	1								6	0.00016
63	C	T	1							2								1					4	0.00011
64	A	G		1						1		1						1	1			3	7	0.00019
65	C	T			1	1				1													3	0.00008
66	G	A								2			1	1		2						1	7	0.00019
67	T	C																1		1	1	2	5	0.00008
70	G	T	1											2									3	0.00008
78	G	A								3	2			1	1								7	0.00019
79	G	A		1												1				1			3	0.00008
84	C	T			108					1				111		1		1				1	222	0.00593
85	A	G		505	2	244	112		361	879	133	277	260	1	541	228		296	132	151		198	4320	0.11546
86	T	C								3													3	0.00008
87	A	G		1				1		1								1					4	0.00011
88	C	T	2			2	1			5			1	1									12	0.00032
89	G	A	1	3		1			2	4		1	1									1	14	0.00037
89	G	T	1							2													3	0.00008
90	C	T			1			1							1							1	4	0.00011
91	C	A	1	1																		1	3	0.00008
91	C	T		1		1								2									4	0.00011
92	T	C								2							1						3	0.00008
92	T	G									2		1									1	4	0.00011
98	T	C								2								1					3	0.00008
99	C	T				2				1								1					4	0.00011
101	G	A												1			1	1					3	0.00008
105	C	T			2				1	2	1												6	0.00016
107	C	A								1								1	1				3	0.00008
107	C	T								3													3	0.00008
108	T	C									1		2										3	0.00008
109	T	C	1							3				1	1								6	0.00016
110	C	A						4		1												1	6	0.00016
116	G	A	1							2				1			1					2	7	0.00019
120	G	A								2			1									1	4	0.00011
121	A	G				1				1				1								1	4	0.00011
122	C	T		1	1	1				1												2	5	0.00016
126	T	C							1	1								2			1		5	0.00013
130	G	T																			3		3	0.00008
131	A	G								4													4	0.00011
134	C	A									2							1					3	0.00008
134	C	T								1		1									1		3	0.00008
140	C	A								2												1	3	0.00008
145	G	A		1						2								1			1		5	0.00013
146	C	T	5	8	5		4	1	3	20	9	6	5	4	1	2	1	7	1	2	4		97	0.00259
147	A	C				1				1		1											3	0.00008
147	A	G	1		1	2	1	1	1	7	1		1	3				3		3		3	28	0.00075
147	A	T		2					1	3	2	1	3		1								13	0.00035
148	G	A	2	1						3													6	0.00016
148	G	T			1	1				1		3									2		8	0.00021
149	G	A			1															1		1	3	0.00008
150	A	G			3		1			4	1	2	1	2				1	1			1	17	0.00045
151	C	A	2												1								3	0.00008
151	C	T								2		2	1					3		1			9	0.00024
152	G	A			1		1			1	1			1				1				1	7	0.00019
155	G	A	1	4	1			1	1	14	4	1	1	2	2			1	1		2	2	39	0.00104
156	C	T	1		2					1				1						1			6	0.00016
159	A	T												1								1	3	0.00008
160	G	A								3													3	0.00008
162	G	A	1	1						2				2									6	0.00016
163	G	A			1											2							3	0.00008
164	C	T				1				2		3	1	2	1			1					11	0.00029
166	C	T		1	3	2																	6	0.00016
167	G	A									1							1			1	1	4	0.00011
169	C	T									1										2		3	0.00008
171	G	A															2					1	3	0.00008
171	G	T								3							3						6	0.00016
176	G	A	2			1				2		2		1								2	10	0.00027
176	G	T								1						2							3	0.00008
177	C	T	2	7	1	2			2	12	6	4	2	1	3	1		1	3		3	2	52	0.00139
185	C	A								1	1	1											3	0.00008
189	A	C																4					4	0.00011
Total			41	556	47	485	130	12	381	####	193	334	302	32	588	467	10	340	167	183	45	255	####	

P-values per position per pool

pos	WT	SNP	A Y1	B Y2	C Y3	D Y4	E Y5	F Y6	G Y7	H Y8	Count P<0.001	Count P<0.01	Count P<0.05
30	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
32	A	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
33	G	A	1.0	0.1	0.2	1.0	1.0	1.0	1.0	0.2	0	0	0
38	C	T	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	0
40	G	A	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0	0	0
41	T	C	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	2	2	2
42	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0	0	0
45	T	C	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0	0	0
46	C	A	1.0	0.1	1.0	1.0	1.0	1.0	1.0	0.0	1	0	1
46	C	T	0.5	1.0	0.4	1.0	1.0	1.0	0.4	1.0	0	0	0
47	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0	0	0
48	G	A	1.0	1.0	1.0	0.0	0.1	1.0	1.0	0.6	1	1	1
51	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0	0	0
51	G	T	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	0	0	0
52	G	A	0.9	0.1	0.5	1.0	1.0	1.0	0.8	0.9	0	0	2
54	T	A	1.0	0.5	0.6	0.4	1.0	1.0	1.0	0.1	0	0	0
54	T	C	0.4	1.0	0.1	1.0	1.0	1.0	0.6	0.5	0	0	0
54	T	G	1.0	0.5	1.0	0.4	1.0	0.0	1.0	0.2	0	0	1
55	T	A	0.2	1.0	1.0	0.1	1.0	1.0	1.0	0.6	0	0	0
55	T	C	0.3	0.8	0.2	1.0	0.2	1.0	0.7	0.4	0	0	0
56	C	T	1.0	1.0	1.0	0.2	1.0	1.0	0.2	0.7	1.0	1.0	0.2
63	C	T	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0
64	A	G	1.0	0.3	1.0	1.0	1.0	1.0	1.0	0.8	1.0	0.3	1.0
65	C	T	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.4	1.0	1.0	1.0
66	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	0.3	0.3	1.0
67	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70	G	T	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
78	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.1	1.0	1.0	0.2
79	G	A	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
84	C	T	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
85	A	G	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0
86	T	C	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
87	A	G	1.0	0.1	1.0	1.0	0.1	1.0	0.5	1.0	1.0	1.0	1.0
88	C	T	0.1	1.0	1.0	0.0	0.3	1.0	1.0	0.1	1.0	1.0	0.4
89	G	A	0.5	0.0	1.0	0.3	1.0	1.0	0.1	0.3	1.0	0.5	0.5
89	G	T	0.1	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
90	C	T	1.0	1.0	0.2	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.2
91	C	A	0.1	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
91	C	T	1.0	0.1	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.0
92	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
92	T	G	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.2
98	T	C	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
99	C	T	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
101	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.2
105	C	T	1.0	1.0	0.0	1.0	1.0	1.0	0.2	0.3	0.3	1.0	1.0
107	C	A	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0
107	C	T	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.0	1.0	1.0	1.0
108	T	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	0.0	1.0
109	T	C	0.3	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.2
110	C	A	1.0	1.0	1.0	1.0	0.0	1.0	0.7	1.0	1.0	1.0	0.3
116	G	A	0.3	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	0.4
120	G	A	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.2
121	A	G	1.0	1.0	0.2	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.2
122	C	T	1.0	0.2	0.2	0.2	1.0	1.0	0.7	1.0	1.0	1.0	1.0
126	T	C	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.6	1.0	1.0	1.0
130	G	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
131	A	G	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0
134	C	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0
134	C	T	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	0.1
140	C	A	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.2
145	G	A	1.0	0.2	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0	0.3
146	C	T	0.4	0.0	0.5	1.0	0.2	0.7	0.7	0.4	0.2	0.1	0.3
147	A	C	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.4	1.0	0.1	1.0
147	A	G	0.8	1.0	0.7	0.2	0.5	0.3	0.7	0.3	0.9	1.0	0.7
147	A	T	1.0	0.1	1.0	1.0	1.0	1.0	0.4	0.5	0.2	0.5	0.0
148	G	A	0.0	0.2	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
148	G	T	1.0	1.0	0.3	1.0	0.2	1.0	1.0	0.8	1.0	0.0	1.0
149	G	A	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150	A	G	1.0	1.0	0.0	1.0	0.3	1.0	1.0	0.4	0.7	0.2	0.6
151	C	A	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
151	C	T	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	0.1	0.3	1.0
152	G	A	1.0	1.0	0.3	1.0	0.2	1.0	1.0	0.7	0.4	1.0	1.0
155	G	A	0.9	0.1	0.8	1.0	1.0	0.4	0.8	0.0	0.3	0.9	0.8
156	C	T	0.3	1.0	0.0	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0
159	A	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0
162	G	A	0.3	0.2	1.0	1.0	1.0	1.0	1.0	0.3	1.0	1.0	1.0
163	G	A	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
164	C	T	1.0	1.0	1.0	0.3	1.0	1.0	1.0	0.6	1.0	0.0	0.4
166	C	T	0.2	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0
169	C	T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	1.0	1.0	1.0
171	G	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
171	G	T	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
176	G	A	0.1	1.0	1.0	0.3	1.0	1.0	0.6	1.0	0.1	1.0	1.0
176	G	T	1.0	1.0	1.0	1.0	1.0	1.0	0.4	1.0	1.0	1.0	1.0
177	C	T	0.2	0.0	0.9	0.4	1.0	1.0	0.6	0.3	0.2	0.3	0.7
185	C	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.2	0.1
189	A	C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0