

Table S1. Counts and description of the in silico mutated genome community used for COVGAP validation. Each observation consists of the genome position multiplied by the number of samples in which it appears.

Position	Type	Bp length	Mock input	Covg ap output	Genome length	Mock positive	Covg ap positive	True positive (tp)	False positive (fp)	Mock negative	Covgap negative	True negative (tn)	False negative (fn)
241	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
2247	del	3	4	4	29903	12	12	12	0	119600	119600	119600	0
3022	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
4710	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
5845	del	1	3	0	29903	3	0	0	0	89706	89709	89706	3
9082	snp	1	2	2	29903	2	2	2	0	59804	59804	59804	0
9504	snp	1	3	3	29903	3	3	3	0	89706	89706	89706	0
11661	del	3	4	4	29903	12	12	12	0	119600	119600	119600	0
12113	del	1	1	1	29903	1	1	1	0	29902	29902	29902	0
14392	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
14408	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
14850	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
14872	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
15095	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
15265	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
15272	snp	1	2	2	29903	2	2	2	0	59804	59804	59804	0
15283	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
15907	snp	1	2	2	29903	2	2	2	0	59804	59804	59804	0
16145	ins	3	1	0	29903	3	0	0	0	29900	29903	29900	3
16281	del	1	5	0	29903	5	0	0	0	149510	149515	149510	5
16600	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
17258	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
18315	snp	1	5	5	29903	5	5	5	0	149510	149510	149510	0
18837	ins	3	4	4	29903	12	12	12	0	119600	119600	119600	0
19653	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
21795	snp	1	5	5	29903	5	5	5	0	149510	149510	149510	0
21812	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
23388	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
23682	snp	1	4	4	29903	4	4	4	0	119608	119608	119608	0
26852	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
26907	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
27405	del	81	1	1	29903	81	81	81	0	29822	29822	29822	0
27528	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
28341	snp	1	2	2	29903	2	2	2	0	59804	59804	59804	0
28881	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0

Position	Type	Bp length	Mock input	Covg ap output	Genome length	Mock positive	Covg ap positive	True positive (tp)	False positive (fp)	Mock negative	Covgap negative	True negative (tn)	False negative (fn)
28882	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
28883	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0
29165	snp	1	1	1	29903	1	1	1	0	29902	29902	29902	0