

## SUPPLEMENTAL MATERIAL

**Supplemental Table S1:** Summary of SNPs present in the intact AprV2/B2 genes found in the 103 isolates in the study.

Base in the VCS1703A genome		Alternate	Base in protein coding region of	Amino acid in protein coding region of	Amino acid in mature AprV2/B2 protein	Position of SNP in codon	Difference in encoded amino acid	Summary of the distribution of the alternate sequence*
sequence	VCS1703A		DNO_1167	DNO_1167				
1216759	C	T	144	48	-	3	synonymous	15 isolates, All AprB2-type
1216525	T	C	378	126	-	3	synonymous	17 isolates, All AprB2-type
1216495	C	T	408	136	7	3	synonymous	2 isolates, All AprV2-type
1216490	G	A	413	138	9	2	R→H	2 isolates, All AprB2-type
1216373	G	A	530	177	48	2	R→Q	1 isolate, AprB2-type
1216356	G	A	547	183	54	1	V→I	3 isolates, 2 AprB2-type, 1 AprV2-type
1216303	T	C	600	200	71	3	synonymous	12 isolates, All AprB2-type
1216242	T	C	661	221	92	1	Y→R	37 isolates, All AprB2-type
1216241	A	G	662	221	92	2	Y→R	37 isolates, All AprB2-type
1216165	C	T	738	246	117	3	synonymous	6 isolates, All AprB2-type
1216159	C	T	744	248	119	3	synonymous	6 isolates, All AprB2-type
1215922	T	C	981	327	198	3	synonymous	36 isolates, All AprB2-type
1215916	G	A	987	329	200	3	synonymous	36 isolates, All AprB2-type
1215751	G	A	1152	384	255	3	synonymous	25 isolates, All AprB2-type
1215670	C	T	1233	411	282	3	synonymous	3 isolates, All AprB2-type
1215456	A	G	1447	483	354	1	N→D	36 isolates, All AprB2-type
1215421	T	C	1482	494	365	3	synonymous	36 isolates, All AprB2-type
1215391	T	C	1512	504	375	3	synonymous	34 isolates, All AprB2-type
1215389	G	A	1514	505	376	2	R→H	10 isolates, All AprB2-type
1215346	A	C	1557	519	390	3	synonymous	34 isolates, All AprB2-type
1215340	C	T	1563	521	392	3	synonymous	1 isolate, AprB2-type
1215333	A	G	1570	524	395	1	I→V	36 isolates, All AprB2-type
1215316	C	T	1587	529	400	3	synonymous	36 isolates, All AprB2-type
1215303	A	G	1600	534	405	1	N→D	36 isolates, All AprB2-type
1215235	C	T	1668	556	427	3	synonymous	3 isolates, All AprB2-type
1215175	C	T	1728	576	447	3	synonymous	2 isolates, All AprB2-type
1215124	T	C	1779	593	464	3	synonymous	7 isolates, All AprB2-type
1215100	G	A	1803	601	472	3	synonymous	7 isolates, All AprB2-type

\*100 isolates included in the alignment. Isolates JIR1204 (full deletion of DNO\_1167), 09-5148-1a (20 base tandem repeat at base 125 of the protein coding region, GAAGTGTGCGCTTTATCGTC, frameshift) and 11BKT068051 (insertion of a single base after base 414 of the protein coding region, frameshift) were excluded from the SNP analysis. 37 isolates were AprB2-type, 63 isolates were AprV2-type.