

Table S1. Amino acid substitutions at the VP5

[illegible]

Table S2. Amino acid substitutions at the VP2, VP4 and VP3

[illegible]

Table S3. Amino acid substitutions at the VP1

STRAIN	PHENOTYPE	VP1																
		990	4	23	119	141	145	146	147	150	158	163	219	242	269	390	391	
AYA57922.1 UK661	Very virulent	V	V	T	E	V	T	D	N	D	N	A	D	E	E	M	A	
Plateau 8426-5/2017 Nigeria	ND	A	.	S	D	I	Q	E	G	E	S	V	E	D	D	L	T	
Cross River 8426-6/2018 Nigeria	ND	A	.	S	D	I	Q	E	G	.	.	V	E	D	D	L	T	
Nasarawa 8426-8/2018 Nigeria	ND	A	I	.	D	I	Q	E	G	E	.	V	E	D	D	L	T	
Akwa Ibom 8426-10/2019 Nigeria	ND	A	.	S	D	I	Q	E	G	E	.	V	E	D	D	L	T	
AAM45384.1 T09 Nigeria	Very virulent	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
AFU10478.1 NIGERIA	Very virulent	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.	
AFU10443.1 NIGERIA	Very virulent	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.	
AMQ81722.1 MB11 India	Attenuated	A	I	.	.	.	N	E	G	.	.	.	.	D	.	L	.
AFX62899.1 HN04 China	Reassortant	A	I	.	.	.	N	.	.	.	.	.	.	.	.	.	.
AFP86286.1 GX-NNZ-11 China	Reassortant	A	I	.	.	I	S	E	D	.	.	V	.	D	.	L	.	
ACZ62645.1 HLJ-0504 China	Reassortant	A	.	.	.	L	.	E	G	.	.	.	.	D	.	L	.
ANY95160.1 TH14/ABT/MVC/India	Reassortant	A	I	.	.	.	N	E	G	.	.	.	.	D	.	.	.
ANY95157.1 VCN14/ABT/MVC/India	Reassortant	A	I	.	.	.	N	E	G	.	.	.	.	D	.	L	.
AMQ24274.1 BGE14/ABT2/MVC/2015 INDIA	Reassortant	A	I	.	.	.	N	E	G	.	.	.	.	D	.	L	.
AAO15768.1 D78	Attenuated	A	I	.	.	.	N	E	G	.	.	.	.	D	.	L	.
AAD32617.1 VARIANT E	Variant		.	.	.	.	N	E	G	.	.	.	.		.	L	.
AYA57922.1 D6948	Very virulent	.	.	.	.	.	.	.	.	.	.	.	.		.		.
AVH80604.1 IBDV/ITALY/1829/2011		A	I	.	.	.	.	E	G	.	.	.	.	D	.	L	.
AUS90754.1 16002 EGYPT		A	I	.	.	I	.	.	.	.	.	.	.	.	.	.	.

STRAIN	PHENOTYPE	VP1				
		393	562	695	697	761
AYA57922.1 UK661	Very virulent	D	P	R	V	K

