

Supplementary Table 1. Reference strains from GenBank, used for bioinformatic analysis of IBV vaccine strains, selected using NCBI, used in the BBDuk tool

No.	Name of reference strain	GenBank accession No.
1.	IBV/M41/Y83, complete genome	MW419300.1
2.	IBV/M41/Y164, complete genome	MW429059.1
3.	IBV/M41/Y28, complete genome	MW429061.1
4.	IBV/M41/N56, complete genome	MW429062.1
5.	IBV/M41/Y27, complete genome	MW446888.1
6.	M41, complete genome	MK937830.1
7.	ck/CH/LHLJ/091205, complete genome	KJ425504.1
8.	ck/CH/LSD/1112150, complete genome	KJ435286.1
9.	ck/CH/LHLJ/100902, complete genome	JF828980.1
10.	IBV/M41/Y192, complete genome	MW446887.1
11.	IBV/M41/Y25, complete genome	MW436705.1
12.	M41, complete genome	DQ834384.1
13.	I1124/16, complete genome	MK937828.1
14.	Massachusetts, complete genome	GQ504724.1
15.	Mass 41, complete genome	AY851295.1
16.	IBV/Ck/Can/17-038913, complete genome	MT665806.1
17.	IBV_SES_15AB-01, complete genome	MH539771.1
18.	IBV_SES_15SK-02, complete genome	MH539772.1
19.	Mass41 1965, complete genome	FJ904720.1
20.	Mass41 1972, complete genome	FJ904721.1
21.	Mass41 1985, complete genome	FJ904723.1
22.	ck/CH/LJL/130906, complete genome	MK937832.1
23.	VFAR-047, complete genome	MH878976.1
24.	Ind-TN92-03, complete genome	NC_048213.
25.	Ind-TN92-03, complete genome	KR902510.1
26.	IBV/M41/Y195, complete genome	MW429060.1
27.	M41-CK, complete genome	MK728875.1
28.	ck/CH/LHLJ/111043, complete genome	KP868572.1
29.	Mass41 Vaccine, complete genome	GQ504725.1
30.	Peafowl/GD/KQ6/2003, complete genome	AY641576.1
31.	gammaCoV/Ck/Poland/195/2012, complete genome	MK581206.1
32.	gammaCoV/Ck/Poland/74/2009, complete genome	KT886454.1
33.	gammaCoV/Ck/Italy/I2022/13, complete genome	KP780179.1
34.	ck/ZA/3665/11, complete genome	KP662631.1
35.	CK/CH/GD/GDTS13, complete genome	MN197549.1
36.	isolate Pakistan/Mass/1003/2A/2015, partial genome	KY588134.1
37.	strain gammaCoV/Ck/Poland/78/1989, complete genome	MK581200.1
38.	serotype Holte, complete genome	GU393336.1
39.	isolate 3575/08, complete genome	KX266757.1
40.	strain CK/DE/IB80/2016, complete genome	MT591566.1
41.	isolate Jordan/Mass/15/2004, partial genome	KY273667.1
42.	isolate Ck/Aus/N1/88, partial genome	KU556804.1
43.	isolate K046-12, partial genome	MK618758.1