

**DISTRIBUTION OF *INFECTIOUS BRONCHITIS VIRUS* STRAINS IN DIFFERENT  
ORGANS AND EVIDENCE OF VERTICAL TRANSMISSION IN NATURAL  
INFECTION**

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**Table (Online Resource 1).** Genotyping of IBV strains and associated data. A database of the S1 gene was created and contemplated 6 sequences obtained in this study (green) together with 14 sequences of previously described Brazilian isolates (pink) and the 199 sequences (blue) described by Valastro et al. [46].

GenBank acc. number	Strain	Origin	Year	Lineage
M95169	Beaudette	USA	1937	GI-1
AY561711	M41	USA	1941	
FJ888351	H120	Netherlands	1960	
KF411040	CK/CH/LLN/111169	China	2011	
KJ200289	ckZA/6743b/11	South Africa	2011	
KF809793	IBV438	India	2012	
GU393336	Holte	USA	1954	GI-2
GU361608	Iowa609	USA	1956	
GU393337	Iowa97	USA	1956	
DQ070840	SDW	China	2004-2006	
GQ844988	Guangzhou-06	China	2006	
L14069	Gray	USA	1960	GI-3
L14070	JMK	USA	1964	
AF352831	BL-56	Mexico	1996	
AY789947	PA/5344/98	USA	1998	
AF520606	IA/10623/99	USA	1999	
GQ229245	3381/06	Taiwan	2006	
L18988	Holte	USA	1962	GI-4
KC577394	56GX-98I	China	1998	
AY251816	GX2-98	China	nd	
U29453	N3/62	Australia	1962	GI-5
U29522	N1/62	Australia	1962	
AY775551	HN99	China	1999	
DQ490215	V2-02	Australia	2002	
AY839140	JAAS-vaccinestrain	China	nd	
DQ490205	Armidale-vaccinestrain	Australia	nd	
U29519	VicS	Australia	1962	GI-6
U29523	N2/75	Australia	1975	
AF151953	A	New Zealand	1970s	
U29520	V5/90	Australia	1990	
JQ250818	QS	China	2010	

DQ515802	J9-vaccinestrain	China	nd	
AY606320	TP/64	Taiwan	1964	GI-7
JQ764816	GX-G	China	1988	
AY606322	T07/02	Taiwan	2002	
GQ229232	3382/06	Taiwan	2006	
JQ739299	ck/CH/LHLJ/110664	China	2011	
KC478591	SC1203	China	2012	
JQ964061	L165	USA	1965	GI-8
JQ964066	L613	USA	1965	
JQ964067	L718	USA	1966	
JQ964070	L905	USA	1966	
JQ964071	L919	USA	1966	
M99484	SE17	USA	1967	
M99482	ARK99	USA	1973	GI-9
AF006624	ArkDPI	USA	1981	
KC577392	54HaN-95I	China	1995	
AF519573	IA/3589/98	USA	1998	
DQ912831	CAL99	USA	1999	
JQ739363	ck/CH/LSD/110712	China	2011	
AF151954	B	New Zealand	1970s	GI-10
AF151955	C	New Zealand	1970s	
AF151956	D	New Zealand	1970s	
AF151958	K43	New Zealand	2000s	
AF151959	K87	New Zealand	2000s	
AF151960	T6	New Zealand	2000s	
JX182775	UFMG/G	Brazil	1975	GI-11
JX182785	UFMG/297	Brazil	1983	
JX182787	UFMG/283	Brazil	1983	
GU393339	IBV/Brasil/351/1984	Brazil	1984	
JX182777	UFMG/12.2	Brazil	2008	
JX182783	UFMG/1141	Brazil	2009	
X52084	D3896	Netherlands	1978	GI-12
M21969	D207	Netherlands	1979	
X15832	D274	Netherlands	1979	
X04723	6/82	U. Kingdom	1982	
AJ441314	RF/01/02	Russia	2002	
FN182276	NGA/295/2006	Nigeria	2006	
EU914938	Moroccan-G/83	Morocco	1983	GI-13
AJ618985	FR-85131-85	France	1985	

Z83975	UK/7/91	U. Kingdom	1991	
AF093795	Variant 1	Israel	1996	
DQ386098	Spain/00/336	Spain	2000	
JQ739375	ck/CH/LSD/110857	China	2011	
X87238	B1648	Belgium	1984	GI-14
FN182277	NGA/324/2006	Nigeria	2006	
FJ807932	B4	Korea	1986	GI-15
FJ807933	EJ95	Korea	1995	
AY257062	K281-01	Korea	2001	
AY257068	K210-02	Korea	2002	
FJ807944	K620/02	Korea	2002	
JQ977697	SNU8067	Korea	2008	
KJ941019	IZO 28/86	Italy	1986	GI-16
EF030995	CK/CH/LDL/97I	China	1997	
AF227438	T3	China	1996-1998	
AF286302	Q1	China	1996-1998	
AY606323	2992/02	Taiwan	2002	
GU938413	CK/CH/Chongqing/0908	China	2009	
AF419315	CA/Machado/88	USA	1988	GI-17
AF027509	CV-56b	USA	1991	
FJ904714	Cal1995	USA	1995	
AF305595	PA/Wolgemuth/98	USA	1998	
AF510656	AL/6609/98	USA	1998	
AF419314	PA/171/99	USA	1999	
AY296744	JP8127	Japan	1993	GI-18
AY296745	JP8443	Japan	1994	
AY296746	JP9758	Japan	1995	
KC577388	48SD-96VI	China	1996	
KC577391	53XJ-99II	China	1999	GI-19
KC577395	58HeN-93II	China	1993	
AY043312	A2	China	1996	
AF193423	QXIBV	China	1999	
DQ400359	IS/1201	Israel	2004	
EF079115	NL/L-1449K/04	Netherlands	2004	
GQ258308	CK/CH/LDL/08III	China	2008	GI-20
AF349621	Qu_mv	Canada	1996	
AF349620	Qu16	Canada	1996-1999	
DQ064806	Spain/97/314	Spain	1997	GI-21
DQ064808	Spain/98/313	Spain	1998	

AJ457137	Italy02	Italy	1999	
DQ901377	It/497/02	Italy	2002	
DQ386105	Spain/04/5438	Spain	2004	
DQ901376	UK/L-633/04	U. Kingdom	2004	
KC577382	40GDGZ-97I	China	1997	GI-22
KC577397	66GD-98VI	China	1998	
DQ167147	CK/CH/LSC/99I	China	1999	
DQ288927	SAIBK	China	2007	
GQ265940	HN08	China	2008	
HQ018890	CK/CH/JX/JA09-1	China	2009	
AF093796	Variant 2	Israel	1998	GI-23
AY091552	Israel/720/99	Israel	1999	
EU780077	IS/1494/06	Israel	2006	
KC533682	Eg/1265B/2012	Egypt	2012	
JX173488	Eg/CLEVB-2/IBV/012	Egypt	2012	
JX027070	IBVAR2-06	Israel	nd	
KF757447	V13	India	1998	GI-24
KF757451	V25	India	2004	
KF757450	V24	India	2007	
KF809791	IBV422	India	2012	
KF809795	IBV470	India	2013	
KF809796	IBV506	India	2013	
EU925393	CA/1737/04	USA	2004	GI-25
EU694402	DMV/5642/06	USA	2006	
JN160805	GA/60173/2007	USA	2007	
KM660636	GA/10216/2010	USA	2010	
KP085595	GA/12274/2012	USA	2012	
KP085597	GA/13485/2013	USA	2013	
FN182243	NGA/B401/2006	Nigeria	2006	GI-26
FN182269	NGA/N544/2006	Nigeria	2006	
FN182270	NGA/N545/2006	Nigeria	2006	
FN182266	NGA/BB91/2007	Nigeria	2007	
FN182268	NGA/BP61/2007	Nigeria	2007	
FN182272	NER/28/2007	Niger	2007	
GU301925	GA08	USA	2008	GI-27
GU437858	GPL8225	USA	2008	
GU437864	GPL8264	USA	2009	
KM660631	GA/10231/2010	USA	2010	
KM660634	GA/12341/2012	USA	2012	

KM660635	GA/13384/2013	USA	2013	
M21971	D1466	Netherlands	1979	GII-1
M21968	V1397	Netherlands	1984	
U29450	N1/88	Australia	1988	GIII-1
U29521	V18/91	Australia	1991	
DQ490219	V6-92	Australia	1992	
JN176213	N1/08	Australia	2008	
U77298	DE/072/92	USA	1992	GIV-1
AF274436	AR/6386/97	USA	1997	
AF274439	GA/5381/99	USA	1999	
AF317212	CU82616	USA	2000	
AF338719	GA/13055/00	USA	2000	
EU283066	GA/Avial1/vaccinestrain	USA	nd	
DQ059618	N4/02	Australia	2002	GV-1
DQ059619	N5/03	Australia	2003	
DQ059620	N4/03	Australia	2003	
FJ235194	N1/03	Australia	2003	
FJ235191	V1/07	Australia	2007	
JX018208	018	Australia	2008	
GQ265948	TC07-2	China	2007	GVI-1
JF804680	K119/09	Korea	2009	
JF804687	K273/09	Korea	2009	
JX292013	GX-NN09032	China	2009	
JF804677	K23/10	Korea	2010	
KF007209	SDIB781/2012	China	2012	
AF391154	N-M24	USA	1940s	UV
AF391157	N-M39	USA	1940s	UV
AF218851	JF24	USA	1940s	UV
AF218852	JF39	USA	1940s	UV
X64737	UK/918/67	U. Kingdom	1967	UV
JQ764815	GX-C	China	1985	UV
U29451	Q3/88	Australia	1988	UV
EU086600	MH5365/95	Malaysia	1995	UV
AF509583	AL/7052/97	USA	1997	UV
AF520605	WI/5340/98	USA	1998	UV
AY789942	PA/1220/98	USA	1998	UV
GQ906705	THA001	Thailand	1998	UV
AJ440783	RF/01/99	Russia	1999	UV
AJ458942	RF/19/99	Russia	1999	UV

AF512342	AL/5361/00	USA	2000	UV
AY257066	K161-02	Korea	2002	UV
FJ904715	Cal557	USA	2003	UV
EU637854	CK/CH/LSD/05I	China	2005	UV
GQ258302	CK/CH/LAH/08I	China	2008	UV
KM213963	XDC-2	China	2013	UV
AF288467	98-07484	Mexico	nd	UV
AF391158	CU83148	USA	nd	UV
AY007235	CU82866	nd	nd	UV
AY027541	CU83074	USA	nd	UV
AY427819	AvianIBV-X	China	nd	UV
EU589323	DLD	Thailand	nd	UV
JX182790	UFMG/29-78	Brazil	1978	GI-1
JX182789	UFMG/200	Brazil	1981	GI-1
JX182788	UFMG/208	Brazil	1972	GI-1
JX182786	UFMG/290	Brazil	1983	GI-11
JX182784	UFMG/351	Brazil	1984	GI-11
JX559802	SB-A0458	Brazil	2011	GI-11
JX559803	SB-A0473	Brazil	2011	GI-11
JX559804	SB-A0498	Brazil	2010	GI-11
JX559817	SB-A2398	Brazil	2010	GI-11
JX559819	SB-A2401	Brazil	2010	GI-11
JX559821	SB-A2960	Brazil	2010	GI-11
GU383095	USP58	Brazil	2007	GI-11
GU383105	USP68	Brazil	2009	GI-11
GU383109	USP72	Brazil	2009	GI-11
KU736752	UFV/bursafabricius/BR/2013	Brazil	2013	GI-1
KU736753	UFV/intestine/BR/2013	Brazil	2013	GI-1
KU736755	UFV/kidney/BR/2013	Brazil	2013	GI-1
KU736759	UFV/lung/BR/2013	Brazil	2013	GI-1
KU736762	UFV/cecaltonsils/BR/2014	Brazil	2014	GI-11
KU736747	Ma5/commercialvaccine/2013	Brazil	2013	GI-1