

Supplementary Table 1. Nucleotide sequence homology of the partial gene (6,952–7,498 nt) of CVB-CN-Y with other isolates/strains

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
1	MZ514908	GS1	Russia	2018	86.90
2	AM765839	Tamil Nadu	India	2007	85.00
3	AB245142	S	Japan	2005	84.80
4	MW269553	HZ-V2	China	2019	84.80
5	MW269552	HZ-V1	China	2019	84.30
6	MZ514910	FY	Russia	2018	84.10
7	AM765837	Uttar Pradesh	India	2007	83.90
8	MW691876	CN2	China	2017	83.90
9	MW691877	CN5	China	2018	83.90
10	AM493895	Punjab	India	2007	83.70
11	MZ514909	GS2	Russia	2018	83.70
12	NC_009087	Punjab	India	2007	83.70
13	AM765838	Uttarakhand	India	2007	83.50

CVB, chrysanthemum virus B.

Supplementary Table 2. Nucleotide sequence homology of the CP gene of TAV-CN-Y with other isolates/strains

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
1	NC_003836	V	Australia	2018	100.00
2	L15335	P	Hungary	1995	100.00
3	LC634033	ChJ	Japan	2021	100.00
4	HQ424165	BJ	China	2010	99.80
5	LC380671	G1	Japan	2018	99.80
6	LC380674	H9	Japan	2018	99.80
7	LC380677	Go34	Japan	2018	99.80
8	MW080949	DSMV PV-0220	Bulgaria	2021	99.80
9	OL472071	SKO20ST2	Slovenia	2022	99.50
10	EF153735	Kolkata	India	2009	99.20

CP, coat protein; TAV, tomato aspermy virus.

Supplementary Table 3. Nucleotide sequence homology of the complete genome of CChMVd-CN-Y with other isolates/strains

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
1	NC_003540	Horst	Spain	1997	99.50
2	FJ647515	CM20, plant 5, clone 53	Spain	2009	98.50
3	AJ247123	non symptomatic strain F	Spain	1999	97.70
4	FJ647553	CM20, plant 6, clone 38	Spain	2009	97.70
5	LC089752	K5pop	South Korea	2015	97.70
6	FJ647462	CM20, plant 4, clone 47	Spain	2009	97.40
7	KP262531	CChMVd-1	India	2010	97.20
8	AB181860	Ak1-38	Japan	2004	96.90
9	LC089753	K6pop	South Korea	2015	96.90
10	HQ891017	H5-10	China	2010	96.70
11	KP262532	CChMVd-2	India	2010	96.70
12	LC017918	JpnCCh	Japan	2015	96.70
13	FN646404	Palampur	India	2009	96.40
14	GQ221776	Beijing	China	2009	96.40
15	HQ891015	W2-7	China	2010	96.40
16	ON381941	Pot-1	Thailand	2021	96.40
17	MZ328184	CR30	Thailand	2019	96.20
18	MZ328187	CM70	Thailand	2019	96.20
19	DQ450682	SSHA 6	South Korea	2006	95.70
20	KP262533	CChMVd-3	India	2010	95.70
21	KT033032	Ford-30	South Korea	2012	95.70
22	MF173440	CChMVd-BRM3	South Korea	2017	95.60
23	FN669541	Yellow Star	India	2009	95.20
24	DQ402041	Sinma	South Korea	2006	94.40

CChMVd, chrysanthemum chlorotic mottle viroid.

Supplementary Table 4. Nucleotide sequence homology of the complete genome of CSVd-CN-Y with other isolates/strains

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
1	AB006737	Tochigi	Japan	1997	99.70
2	D88895	Sagae	Japan	1996	99.70
3	JQ809252	AU1.1	Australia	2012	99.70
4	LC088323	K4pop	South Korea	2015	99.70
5	KU535579	2215-BR	Brazil	2012	99.40
6	LC088322	K3pop	South Korea	2015	99.40
7	LC090814	CSV-Pot	Japan	2008	99.40
8	LC093169	P-1	Japan	2015	99.40
9	MZ328197	CR28	Thailand	2019	99.40
10	HQ891018	H5-1	China	2010	99.20
11	JQ809256	US1.1	USA	2012	99.20
12	KX096367	D.pacificum-3	South Korea	2015	99.20
13	KX096512	Vatican-1	South Korea	2015	99.20
14	MN103226	RCS1	Thailand	2019	99.20
15	MN718667	CS13-1	Thailand	2019	99.20
16	AF394452	K1	South Korea	2001	99.10
17	HG739077	VI.12	Belgium	2013	99.10
18	HQ891019	H5-2	China	2010	99.10
19	JQ685734	CSVd1	Italy	2012	99.10
20	KC345440	YC201110	South Korea	2011	99.10
21	KX084709	GBVdC_CSVd03	Belgium	2016	99.10
22	KX096429	froggy1	South Korea	2015	99.10
23	KX096555	yessong 1	South Korea	2015	99.10
24	LC430901	Potato	Russia	2018	99.10
25	LC433633	Kochi	Japan	2015	99.10
26	AB055974	Prelude coral	Japan	2001	98.90
27	AB679214	SK22	South Korea	2011	98.90
28	AB689031	P4-16	Japan	2011	98.90
29	AF394453	K2	South Korea	2001	98.90
30	AJ001849	Blanka	USA	1997	98.90
31	AJ001850	Diplomat pink	USA	1997	98.90
32	KX096347	Borami-1	South Korea	2015	98.90
33	KX096472	Shinma-China-1	South Korea	2015	98.90
34	KX096533	Yellowcap 1	South Korea	2015	98.90
35	LC192455	US2.2	USA	2016	98.90

Supplementary Table 4. Continued

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
36	LC523683	VC5-1	Russia	2018	98.90
37	LC523684	NC11	Russia	2018	98.90
38	LC523685	NC40	Russia	2020	98.90
39	LC523687	FC13	Russia	2020	98.90
40	MF359692	2222-BR	Brazil	2015	98.90
41	MF359718	2248-BR	Brazil	2013	98.90
42	MT995845	B4	Malaysia	2020	98.90
43	AJ001852	Diplomat red	USA	1997	98.60
44	AJ001853	Diplomat majenta	USA	1997	98.60
45	FN673553	Discovery c1	India	2009	98.60
46	JF938538	AF164	France	2011	98.60
47	JQ809255	CN3	China	2012	98.60
48	JX909290	2214-BR	Brazil	2010	98.60
49	KT005803	Diskclub-2	South Korea	2015	98.60
50	KX096408	Ford-1	South Korea	2015	98.60
51	KX096450	PinkThisPlus-1	South Korea	2015	98.60
52	LC062712	CSV-T	Japan	2015	98.60
53	LC090813	CSV-t	Japan	2008	98.60
54	LC433628	Hokkaido	Japan	2018	98.60
55	LC433631	Nara	Japan	2015	98.60
56	MF359712	2242-CL	Colombia	2016	98.60
57	MT995842	B2	Malaysia	2020	98.60
58	MT995843	K5	Malaysia	2020	98.60
59	AB255879	Dahlia type 1	Japan	2006	98.30
60	AJ000046	Misletoe	Japan	2011	98.30
61	DQ406591	S. jasminoides	Netherlands	2006	98.30
62	FN673554	Discovery c2	India	2009	98.30
63	JF414238	CSVd37	Austria	2011	98.30
64	KX096388	FirePink-1	South Korea	2015	98.30
65	KX096492	Shinma-Jeju-6	South Korea	2015	98.30
66	LC433630	Fukuoka	Japan	2016	98.30
67	AB255880	Dahlia type 2	Japan	2006	98.00
68	AJ585258	Indian	India	2003	98.00
69	FN669530	Poornima	India	2009	98.00
70	FN669533	Yellow Spider	India	2009	98.00

Supplementary Table 4. Continued

No.	GenBank accession no.	Isolate/Strain	Country	Year	Homology (%)
71	FN669534	Stallion	India	2009	98.00
72	FN669535	Shyamal	India	2009	98.00
73	FN669536	Majesthic Daisy	India	2009	98.00
74	FN669537	Yellow Anemone	India	2009	98.00
75	FN669538	Mundiyal	India	2009	98.00
76	FN669539	Chandma	India	2009	98.00
77	FN669540	White Daisy	India	2009	98.00
78	LC062713	CSV-H	Japan	2015	98.00
79	LC523680	NC21-1	Russia	2018	98.00
80	MZ328188	HL4	Thailand	2019	98.00
81	MZ328189	CM83	Thailand	2019	98.00
82	U82445	Petunia	USA	1998	98.00
83	DQ094298	CSVd-Vm	Canada	2005	97.70
84	LC433629	Nagano	Japan	2015	97.70
85	MW013136	AdChr1	Turkey	2019	97.70
86	OK340214	DSMZ PV-0735 clone 1	Germany	2001	97.50
87	LC523679	VC28	Russia	2020	97.40
88	M19506	Cineraria	Germany	1982	97.20
89	NC_002015	Charm type	Australia	2018	97.20
90	KP262534	CSVd-1	India	2010	96.90
91	LC523689	VCS8	Russia	2020	96.90
92	OK340215	DSMV PV-0735 clone 2	Germany	2001	96.30
93	AJ969017	Maharashtra	India	2005	95.70

CSVd, chrysanthemum stunt viroid.