

Molecular evidence of an isolate of mungbean yellow mosaic India virus with a recombinant DNA B component occurring on mungbean from mid-hills of Meghalaya, India

VirusDisease

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Supplementary Table 4 Percent identity of nucleotide sequence in complete genome, ORFs (AV1, AV2, AC1, AC2, AC3, AC4, AC5) and common region (CR) between DNA A of Mg-mungbean-1 (KU95030) and reference isolates

Isolates	Accession No.	Full DNA A	AV1	AV2	AC1	AC2	AC3	AC4	AC5	CR
MYMIV:India:Bengal	HF922628	97.59	98.19	97.66	96.60	99.12	99.26	97.99	97.62	97.96
MYMIV:India:clonePPst1	KP313758	97.04	97.80	97.66	95.87	97.79	98.27	96.67	96.83	97.96
MYMIV:India:SoybeanTN	AJ416349	96.13	96.51	96.78	96.88	95.14	94.07	96.67	96.03	94.90
Legume yellow mosaic virus:Pakistan:14	AJ512495	96.17	96.25	97.08	96.05	95.81	95.56	95.33	96.03	96.94
Legume yellow mosaic virus:Pakistan:130/12	AJ512497	96.02	95.74	96.49	96.05	96.03	96.05	95.00	96.43	94.90
MYMIV:Pakistan:cloneMI2	FM208846	96.17	96.25	96.78	95.96	96.03	96.05	95.33	96.03	96.94
MYMIV:Pakistan:cloneMI9	FM208842	96.17	96.38	96.78	96.14	95.81	95.56	95.33	96.43	96.94
MYMIV:Pakistan:cloneMI7	FM208843	96.13	96.12	96.20	96.24	95.81	95.80	95.33	96.03	96.94
MYMIV:Pakistan:cloneMI12	FM208844	96.21	96.38	97.37	96.05	95.59	95.56	95.33	96.43	96.94
MYMIV:Pakistan:cloneMI13	FM208845	96.17	96.25	97.37	95.96	95.81	95.80	95.00	96.43	96.94
MYMIV:Pakistan:cloneMI15	AM950268	96.10	96.12	96.78	96.14	95.14	95.06	95.33	96.03	98.98

MYMIV:Pakistan:Mungbean	AY269992	96.21	96.38	97.08	96.24	95.59	95.31	95.67	96.43	96.94
MYMIV:Pakistan	AM992618	96.35	96.51	98.83	95.96	95.81	95.56	96.33	94.84	96.94
MYMIV:Pakistan:cloneMI72	FM955599	96.32	96.12	97.08	96.14	95.81	95.80	96.67	95.24	97.96
MYMIV:Pakistan:cloneA1	FM208833	96.32	95.48	96.20	96.14	96.47	96.05	97.00	95.24	98.98
MYMIV:Pakistan:cloneA1E	FM208834	96.28	95.48	96.20	96.14	96.47	96.05	97.00	95.24	98.98
Legume yellow mosaic virus:Pakistan:106	AJ512498	96.06	95.99	96.78	95.96	94.48	95.31	95.67	94.44	95.92
MYMIV:Nepal	AY271895	96.17	95.99	97.08	96.24	94.92	95.80	95.33	94.05	94.90
MYMIV:Pakistan:Cowpea	AY269990	96.21	95.74	96.78	96.05	94.92	96.05	95.33	94.44	96.94
MYMIV:Pakistan:cloneA2	FM208835	96.13	95.87	96.49	96.05	95.14	96.05	95.00	94.84	96.94
MYMIV:Pakistan:cloneA6G	FM208838	96.06	95.74	96.49	95.96	94.92	96.05	95.00	94.44	96.94
MYMIV:Pakistan:cloneA14	FM208839	96.13	95.61	96.78	95.96	95.36	95.80	95.33	94.84	95.92
MYMIV:India	DQ389154	96.32	95.48	96.78	96.42	95.14	95.56	97.00	94.84	97.96
MYMIV:Pakistan:cloneA6	FM208837	96.24	95.87	97.37	96.24	94.70	95.06	97.00	94.84	98.98
MYMIV:Pakistan:cloneA17	FM208840	96.28	95.48	95.91	96.51	94.92	95.56	96.67	94.84	98.98
MYMIV:Pakistan:cloneA20	FM208841	95.88	95.35	95.91	95.68	94.48	95.80	95.67	94.44	98.98
MYMIV:Pakistan:MV11	FR837935	96.35	95.87	96.78	96.23	94.48	95.56	96.67	94.84	98.98
MYMIV:Pakistan:cloneMI75	FM955598	96.10	95.35	96.20	96.42	95.14	94.81	97.00	94.44	98.98
MYMIV:Pakistan:cloneA4	FM208836	96.32	95.61	96.49	96.33	95.14	95.56	96.33	94.44	98.98
MYMIV:India:Varanasi:Dolichos	AY547317	96.27	95.99	96.78	96.51	95.14	95.06	97.00	94.84	98.98
MYMIV:Nepal:clone13P	JN543395	96.11	95.87	96.78	95.62	94.70	95.31	97.00	95.24	98.98
MYMIV:Nepal:cloneMA2	JQ327845	96.11	95.87	96.78	95.62	94.70	95.31	97.00	95.24	98.98
MYMIV:Nepal:cloneMA3	JQ327846	96.11	95.87	96.78	95.62	94.70	95.31	97.00	95.24	98.98
MYMIV:India:Varanasi:Frenchbean	KC019303	96.27	95.87	97.08	96.33	94.92	94.81	97.00	95.63	98.98
MYMIV:India:Varanasi:Frenchbean	KC019304	96.28	95.87	97.08	96.33	94.92	94.81	97.00	95.63	98.98
MYMIV:Bangladesh	AF314145	96.79	98.19	99.42	95.87	98.01	98.27	94.67	96.43	88.78
Cowpea golden mosaic virus:India	AY618902	96.06	95.74	95.91	95.50	97.57	97.76	94.00	93.25	96.94

MYMIV:India:MBK-A25	AY937195	96.13	96.12	95.91	95.78	97.35	97.28	95.00	96.03	96.94
MYMIV:Indonesia:Bogor	JN368432	96.10	96.51	95.03	95.50	97.13	96.79	95.33	96.03	95.92
MYMIV:Indonesia:Purwakarta1	JN368433	96.06	96.25	95.32	95.50	97.57	97.28	95.67	94.84	95.92
MYMIV:Indonesia:Purwakarta2	JN368434	96.13	96.38	95.32	95.59	97.79	97.28	95.67	94.84	95.92
MYMIV:Indonesia:Brebes4	JN368439	96.10	96.38	95.32	95.59	97.57	97.04	95.67	94.84	95.92
MYMIV:Indonesia:Brebes2	JN368436	96.13	96.25	95.32	95.59	97.79	97.53	95.67	94.84	95.92
MYMIV:Indonesia:Brebes1	JN368435	96.02	95.99	95.32	95.41	97.35	97.53	95.67	94.84	95.92
MYMIV:Indonesia:Brebes3	JN368438	96.24	96.38	95.32	95.59	97.57	97.78	95.67	95.24	95.92
MYMIV:Indonesia:Rembang	JN368437	96.28	96.64	95.03	95.59	97.57	97.78	95.67	96.03	95.92
MYMIV:India:Palampur	FN794200	95.70	96.12	97.08	95.59	95.59	94.07	95.33	96.43	96.94
MYMIV:India:cloneCA4	KC911719	95.80	96.38	96.78	95.68	94.70	93.83	95.33	96.43	97.96
MYMIV:India:cloneCA3	KC911720	95.77	96.38	96.78	95.59	94.70	93.83	95.33	96.43	97.96
MYMIV:India	DQ389153	95.79	96.12	96.78	95.96	95.36	95.06	96.00	96.83	94.44
MYMIV:India:MJS1	KR052025	95.69	95.73	96.49	96.14	95.36	95.06	96.33	96.02	94.90
MYMIV:India	EU523045	95.95	95.99	96.49	96.42	95.36	95.06	96.67	96.43	94.90
MYMIV:India	KC852204	95.80	95.61	95.61	96.14	95.81	95.56	96.67	96.03	94.90
MYMIV:India:Akola	AY271893	95.62	95.09	96.78	95.68	95.59	95.31	96.00	92.86	96.94
MYMIV:Pakistan:cloneMI76	FM955600	95.95	95.22	96.78	95.87	95.36	95.56	96.00	94.05	98.98
MYMIV:India	DQ400847	95.80	95.61	95.32	95.86	95.81	95.06	95.67	94.84	96.91
MYMV:India:VignaMaharashtra	AF314530	82.59	80.36	80.41	85.77	84.33	84.69	86.67	82.14	47.97
MYMV:India:SoybeanMadurai	AJ421642	82.64	80.36	80.70	85.67	84.77	84.94	86.33	82.14	67.35
MYMV:India	DQ400848	83.03	80.49	79.53	85.95	84.77	86.17	87.33	81.35	71.13
MYMV:India:cloneCA1	KC911721	82.81	80.62	80.41	85.57	84.77	85.93	87.33	82.14	67.35
MYMV:India:Urdbean:cloneMF2	JQ398669	86.89	94.19	87.72	85.31	85.21	86.67	87.67	94.84	48.39
HgYMV:India	AM932427	82.87	80.88	83.04	83.56	84.33	85.93	83.00	78.17	76.04
DoYMV:India	AY309241	64.80	70.54	58.19	62.28	69.32	65.84	56.71	73.81	44.26

ToLCNDV:India:New Delhi	U15015	64.08	68.35	58.41	66.51	61.75	56.19	68.33	71.83	52.85
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