

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 5 Percent identity of nucleotide sequence in complete genome, ORFs (BV1 and BC1) and common region (CR) between DNA B of Mg-mungbean-1 (KU95031) and reference isolates

| Isolates | Accession No. | Full DNA B | BV1 | BC1 | CR |
|-----------------------------|---------------|------------|-------|-------|-------|
| MYMV:India:LBG623 | KF928962 | 96.21 | 97.15 | 96.79 | 98.35 |
| MYMV:India:LjKu02 | KP319017 | 96.50 | 96.76 | 96.66 | 98.95 |
| MYMV:India:LjKu01 | KP319016 | 96.49 | 96.50 | 96.66 | 97.73 |
| MYMV:India:LBG623-EcoRI | KF947526 | 96.72 | 96.76 | 96.88 | 99.17 |
| MYMV:India:clonePB1 | KC911731 | 94.08 | 96.23 | 95.54 | 72.63 |
| MYMV:India:cloneCB1 | KC911724 | 94.04 | 95.59 | 96.21 | 72.63 |
| MYMV:India: Namakkal | DQ865202 | 94.09 | 96.11 | 96.21 | 68.42 |
| MYMV:India:Vigna | AJ132574 | 93.70 | 95.85 | 95.99 | 51.26 |
| MYMV:India:VignaKA34 | AJ439057 | 93.71 | 95.98 | 95.99 | 50.00 |
| MYMV:India:sequence | DQ400849 | 93.97 | 96.24 | 95.54 | 68.42 |
| MYMV:India:cloneVB4 | KC911725 | 93.55 | 96.23 | 95.54 | 68.42 |
| MYMV:India: cloneCB2 | KC911730 | 93.12 | 96.10 | 96.21 | 68.42 |
| MYMV:India:cloneVB3 | KC911726 | 93.74 | 96.11 | 95.99 | 64.21 |
| MYMV:India:cloneVB2 | KC911727 | 93.76 | 96.11 | 95.83 | 47.06 |
| MYMV:India:cloneVB1 | KC911728 | 93.58 | 95.98 | 95.87 | 64.21 |
| MYMV:India:VignaKA28 | AJ439058 | 93.97 | 95.98 | 96.21 | 67.37 |
| MYMV:India:VignaKA21 | AJ439059 | 93.97 | 96.11 | 95.99 | 72.63 |
| MYMV:India:cloneCB3 | KC911729 | 92.20 | 96.24 | 95.98 | 68.42 |
| MYMIV:India:cloneMBB-B31 | AY937196 | 94.53 | 95.33 | 95.43 | 96.77 |
| MYMIV:Indonesia:Bogor | JN368440 | 94.00 | 94.94 | 94.09 | 96.77 |
| MYMIV:Indonesia:Purwakarta1 | JN368441 | 94.46 | 95.07 | 95.21 | 96.77 |
| MYMIV:Indonesia:Purwakarta2 | JN368442 | 94.46 | 95.07 | 95.21 | 96.77 |
| MYMIV:Indonesia:Brebes3 | JN368446 | 94.53 | 95.07 | 95.43 | 96.77 |
| MYMIV:Indonesia:Brebes4 | JN368447 | 94.34 | 94.94 | 95.09 | 96.77 |
| MYMIV:Indonesia:Brebes1 | JN368443 | 94.38 | 95.07 | 94.87 | 96.77 |
| MYMIV:Indonesia:Brebes2 | JN368444 | 94.39 | 95.07 | 95.21 | 96.34 |

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|-----------------------------|----------|-------|-------|-------|-------|
| MYMIV:Indonesia:Rembang | JN368445 | 94.57 | 95.07 | 95.32 | 96.77 |
| MYMIV:India:cloneMBB-B31 | AY937196 | 94.53 | 95.33 | 95.43 | 96.77 |
| MYMIV:Indonesia:Bogor | JN368440 | 94.00 | 94.94 | 94.09 | 96.77 |
| MYMIV:Indonesia:Purwakarta1 | JN368441 | 94.46 | 95.07 | 95.21 | 96.77 |
| MYMIV:Indonesia:Purwakarta2 | JN368442 | 94.46 | 95.07 | 95.21 | 96.77 |
| MYMIV:Indonesia:Brebes3 | JN368446 | 94.53 | 95.07 | 95.43 | 96.77 |
| MYMIV:Indonesia:Brebes4 | JN368447 | 94.34 | 94.94 | 95.09 | 96.77 |
| MYMIV:Indonesia:Brebes1 | JN368443 | 94.38 | 95.07 | 94.87 | 96.77 |
| MYMIV:Indonesia:Brebes2 | JN368444 | 94.39 | 95.07 | 95.21 | 96.34 |
| MYMIV:Indonesia:Rembang | JN368445 | 94.57 | 95.07 | 95.32 | 96.77 |
| MYMIV:India:Palampur | FR714861 | 92.03 | 93.90 | 92.64 | 86.32 |
| MYMIV:India:SoybeanTN | AJ420331 | 91.43 | 93.13 | 92.98 | 89.25 |
| MYMIV:India:Akola | AY271894 | 91.96 | 94.29 | 93.20 | 88.17 |
| MYMIV:Pakistan | AM992617 | 91.66 | 93.64 | 92.87 | 86.32 |
| MYMIV :Pakistan:cloneMI5 | FM202442 | 91.39 | 93.00 | 92.75 | 86.32 |
| MYMIV:Pakistan:cloneMI10 | FM955609 | 91.32 | 92.48 | 92.98 | 86.32 |
| MYMIV:Pakistan:cloneMI6 | FM202443 | 91.36 | 92.87 | 92.87 | 86.32 |
| MYMIV:Pakistan:cloneMI20 | FM202447 | 91.05 | 92.48 | 92.53 | 85.26 |
| MYMIV:Pakistan:cloneMI3 | FM202441 | 91.17 | 92.61 | 92.64 | 86.32 |
| MYMIV:Pakistan:cloneMI8 | FM202444 | 91.01 | 93.39 | 92.42 | 86.32 |
| MYMIV:Pakistan:cloneMI17 | FM161881 | 91.74 | 93.26 | 93.31 | 90.32 |
| MYMIV:Pakistan:cloneMI16 | FM202445 | 91.81 | 93.51 | 93.09 | 89.25 |
| MYMIV:Pakistan:cloneMI71 | FM955603 | 91.13 | 91.83 | 93.42 | 89.25 |
| MYMIV:Pakistan:cloneMI73 | FM955604 | 91.62 | 92.74 | 93.53 | 90.32 |
| MYMIV:Pakistan:cloneMI77 | FM955605 | 91.02 | 91.96 | 93.53 | 89.25 |
| MYMIV:India | AF142440 | 90.19 | 92.16 | 92.31 | 94.07 |
| MYMIV:India:Mungbean | AF416741 | 91.82 | 92.87 | 93.20 | 94.07 |
| MYMIV:India | EU523046 | 91.58 | 94.29 | 92.53 | 88.42 |
| MYMIV:India:DSR-YMV | KP828155 | 91.01 | 94.29 | 92.53 | 85.26 |
| MYMIV:India:Varanasi | DQ061273 | 91.83 | 94.42 | 92.64 | 85.26 |
| MYMIV:Pakistan:cloneMI74 | FM955606 | 91.54 | 94.16 | 92.53 | 88.17 |
| MYMIV:Pakistan:cloneMI30 | FM958506 | 91.58 | 93.90 | 93.20 | 89.25 |
| MYMIV:Pakistan:cloneB4 | FM202439 | 91.35 | 94.03 | 92.20 | 89.25 |
| MYMIV:Pakistan:cloneB13 | FM202440 | 91.54 | 94.16 | 92.42 | 88.17 |
| MYMIV:Nepal:cloneS31 | JN543396 | 91.42 | 93.90 | 92.64 | 89.25 |
| MYMIV:Nepal:cloneRA46 | JQ327849 | 91.39 | 93.90 | 92.53 | 89.25 |
| MYMIV:India:Soybean | AY049771 | 91.78 | 94.03 | 92.64 | 92.37 |
| MYMIV:India:Varanasi | KC019305 | 91.58 | 93.64 | 92.64 | 91.40 |
| MYMIV:India | AY939925 | 91.54 | 93.90 | 92.42 | 89.25 |

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|-------------------------|----------|-------|-------|-------|-------|
| HgYMV:India:Lima bean | AM932430 | 71.40 | 73.80 | 79.15 | 62.50 |
| DoYMV:India:DC | KJ481206 | 61.49 | 60.16 | 69.80 | 49.58 |
| ToLCNDV:India:New Delhi | U15017 | 48.78 | 47.42 | 52.02 | 53.33 |
