Table S2 List of viral resistant crops approved for commercial release and are generated with SRGE technology

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Common name** | **Latin name** | **Event name** | **Virus** | **Gene introduced** | **Function**  | **Developer** | **Country** |
| Bean  | [*Phaseolus vulgaris*](http://www.isaaa.org/gmapprovaldatabase/crop/default.asp?CropID=3) | EMBRAPA 5.1 | BGMV | ac1 (sense and antisense) | Silencing against BGMV | EMBRAPA | Brazil |
| Papaya  | [*Carica papaya*](http://www.isaaa.org/gmapprovaldatabase/crop/default.asp?CropID=11) | Jan-55 | PRSV | [prsv\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=73&Gene=prsv_cp) | "PDR"\* to PRSV | Cornell University and University of Hawaii | Canada, Japan, USA |
| Papaya  | [*Carica papaya*](http://www.isaaa.org/gmapprovaldatabase/crop/default.asp?CropID=11) |  63-1 | PRSV | [prsv\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=73&Gene=prsv_cp) | "PDR" to PRSV | USA |
| Papaya  | [*Carica papaya*](http://www.isaaa.org/gmapprovaldatabase/crop/default.asp?CropID=11) | Huanong No. 1 | PRSV | [prsv\_rep](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=92&Gene=prsv_rep) | Silencing against PRSV | South China Agricultural University | China |
| Papaya  | [*Carica papaya*](http://www.isaaa.org/gmapprovaldatabase/crop/default.asp?CropID=11) |  X17-2 | PRSV | [prsv\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=73&Gene=prsv_cp) | "PDR" to PRSV | University of Florida | USA |
| Plum  | *Prunus domestica* | C-5 | PPV | [ppv\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=74&Gene=ppv_cp) | "PDR" to PPV | USDA-ARS | USA |
| Potato | *Solanum tuberosum L.* | HLMT15-15 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | HLMT15-3 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | HLMT15-46 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | RBMT15-101 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | Australia, Canada, Japan, Mexico, New Zealand, Philippines, South Korea, USA |
| Potato | *Solanum tuberosum L.* | RBMT21-129 | PLRV | plrv\_orf1orf2 | Silencing against PLRV | Monsanto Company |
| Potato | *Solanum tuberosum L.* | RBMT21-152 | PLRV | plrv\_orf1orf3 | Silencing against PLRV | Monsanto Company | USA |
| Potato | *Solanum tuberosum L.* | RBMT21-350 | PLRV | plrv\_orf1orf4 | Silencing against PLRV | Monsanto  | Canada, Japan, Mexico, New Zealand, Philippines, South Korea, USA |
| Potato | *Solanum tuberosum L.* | RBMT22-082 | PLRV | plrv\_orf1orf5 | Silencing against PLRV | Monsanto Company  |
| Potato | *Solanum tuberosum L.* | RBMT22-186 | PLRV | plrv\_orf1orf6 | Silencing against PLRV | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | RBMT22-238 | PLRV | plrv\_orf1orf7 | Silencing against PLRV | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | RBMT22-262 | PLRV | plrv\_orf1orf8 | Silencing against PLRV | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | SEMT15-07 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | USA |
| Potato | *Solanum tuberosum L.* | SEMT15-02 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  | Canada, Japan, Mexico, New Zealand, Philippines, South Korea, USA |
| Potato | *Solanum tuberosum L.* | SEMT15-15 | PVY | [pvy\_cp](http://www.isaaa.org/gmapprovaldatabase/gene/default.asp?GeneID=67&Gene=pvy_cp) | "PDR" to PVY | Monsanto Company  |
| Squash | *Cucurbita pepo* | CZW3 | CMV | cmv/zymv/wmv cp | "PDR" to CMV | Seminis Vegetable Seeds (Canada) and Monsanto Company (Asgrow) | Canada, USA |
| Squash  | *Cucurbita pepo* | ZW20 | ZYMV | zymv\_cp/wmv cp | "PDR" to ZYMV | USA |
| Sweet pepper | *Capsicum annuum* | PK-SP01 | CMV | cmv\_cp | "PDR" to CMV | Beijing University | China |
| Tomato | *Lycopersicon esculentum* | PK-TM8805R | CMV) | cmv\_cp | "PDR" to CMV | Beijing University | China |
| Sources: | <http://www.isaaa.org/> |