

**Table 2**  
**Examples of Protection Mediated by Other Viral Sequences**

| Type of sequence/gene                | Virus <sup>a</sup> | Ref.            |
|--------------------------------------|--------------------|-----------------|
| Antisense                            |                    |                 |
| Coat protein                         | CMV                | <b>6,39</b>     |
|                                      | PLRV               | <b>38</b>       |
|                                      | PVX                | <b>5</b>        |
|                                      | PVY                | <b>12</b>       |
|                                      | TEV                | <b>10</b>       |
|                                      | TSWV               | <b>18,34</b>    |
| Intercistronic region                | BMV                | <b>40</b>       |
| 5' or 3' Ends of RNAs                | CMV                | <b>35</b>       |
| 3' End of genome                     | TMV                | <b>36</b>       |
| 5' End of genome                     | TMV                | <b>41</b>       |
| Coding regions                       | TGMV               | <b>37</b>       |
| Satellite                            | CMV                | <b>39,42,43</b> |
|                                      | TRV                | <b>44</b>       |
| Defective-interfering (DI) sequences | ACMV               | <b>46</b>       |
|                                      | BMV <sup>b</sup>   | <b>47</b>       |
| Sense transcripts                    |                    |                 |
| Untranslatable CP gene               | PVY                | <b>12,32</b>    |
|                                      | TEV                | <b>10,11</b>    |
|                                      | TSWV               | <b>34</b>       |
| 3' end of genome                     | TYMV               | <b>45</b>       |
| Nonstructural genes                  |                    |                 |
| Replicase                            | AIMV               | <b>54</b>       |
|                                      | CMV                | <b>49</b>       |
|                                      | CyRSV              | <b>52</b>       |
|                                      | PEBV               | <b>51</b>       |
|                                      | PVX                | <b>50,87</b>    |
|                                      | PVY                | <b>53</b>       |
|                                      | TMV                | <b>48</b>       |
| Movement Proteins                    | TMV                | <b>58</b>       |
|                                      | WCIMV              | <b>57</b>       |
| Protease                             | PVY                | <b>56</b>       |
|                                      | TVMV               | <b>55</b>       |

<sup>a</sup>Abbreviations: ACMV, African cassava mosaic virus; BMV, brome mosaic virus; TGMV, tomato golden mosaic virus; TVMV, tobacco vein mottling virus; TYMV, turnip yellow mosaic virus; and WCIMV, white clover mosaic virus.

<sup>b</sup>Protection observed in protoplasts.

a cellular pathway that targets aberrant RNAs for elimination. Similar conclusions were made by Pang et al. (34) when transgenic tobacco expressing untranslatable or antisense TSWV NCP were protected against TSWV infection. Consequently, correlation, or lack thereof, between CP or transcript levels