Figure S3  Richard et al.

Targeted by 24-nt sRNA
● Medium expression level
▲ Methylated in 3 contexts

Tree branches colors
- Pv01S
- Pv01L
- Pv02S
- Pv02L
- Pv03S
- Pv03L
- Pv04S
- Pv04L
- Pv05S
- Pv05L
- Pv06S
- Pv06L
- Pv07S
- Pv07L
- Pv08S
- Pv08L
- Pv09S
- Pv09L
- Pv10S
- Pv10L
- Pv11S
- Pv11L
- scaffold
Figure S4  Richard et al.

Number of (pseudo)genes

- C-methylated-Pseudogenes
- Unmethylated- Pseudogenes
- C-methylated-Full length
- Unmethylated-Full length
### The different categories of NL gene methylation

<table>
<thead>
<tr>
<th>Methylation on NL gene body (Met-GB)</th>
<th>Number of NL genes</th>
</tr>
</thead>
<tbody>
<tr>
<td>a/ Methylated NL gene (independent from repeated sequences) (Met-GBNLonly)</td>
<td>118</td>
</tr>
<tr>
<td>b/ Methylated NL gene associated to methylated Repeated Sequences (Met-GBaRS)</td>
<td>36 + 6</td>
</tr>
</tbody>
</table>

| Methylation on TE insertion in NL gene (Met-TE) | 34 |

**Diagram:***
- **a**/ Methylated NL gene (independent from repeated sequences) (Met-GBNLonly)
- **b**/ Methylated NL gene associated to methylated Repeated Sequences (Met-GBaRS)
Chromosome 2

Phvul.002G129200

CG met
CHG met
CHH met

24-nt sRNA

Phvul.002G129600

CG met
CHG met
CHH met

24-nt sRNA

Chromosome 3

Phvul.003G002400

CG met
CHG met
CHH met

24-nt sRNA

Phvul.003G002500

CG met
CHG met
CHH met

24-nt sRNA

Phvul.003G002700

CG met
CHG met
CHH met

24-nt sRNA

Transposable element
Chromosome 4

Phvul.004G008000 (in B4 cluster)

Phvul.004G008900 (in B4 cluster)

24-nt sRNA

JGI annotation

Manual reannotation

Chromosome 7

Phvul.007G254300

Phvul.007G254200

Transposable element
Figure S7  Richard et al.

Chromosome 4 (in B4 cluster)

Phospholipid-transporting ATPase 8-related
Phvul.004G012800 (NL)
Phvul.004G012900 (NL)

Transposable element
Khipus repeats

Phvul.004G013000 (NL)
Phvul.004G013100 (NL)

Transposable element
Khipus repeats

ATP-dependent Clp protease
ATP-binding subunit ClpB
Serin/threonine protein kinase
Phvul.004G044300 (NL)
Chromosome 8

Chromosome 11 (in Co-2 cluster)

NL genes methylated in the 3 sequence contexts (see Table S1)
364 NL genes
On pseudomolecules

197 C-methylated

121

76

80 Targeted by 24-nt sRNA

163

4