

SUPPLEMENTARY DATA

Table S1. Genome sequence databases used for identification of putative OVATEs

<i>Arabidopsis thaliana</i>	TAIR http://www.arabidopsis.org/index.jsp
<i>Oryza sativa</i>	Rice Genome Annotation http://rice.plantbiology.msu.edu/blast.shtml
<i>Solanum lycopersicum</i>	SGN http://solgenomics.net/tools/blast/
<i>Solanum tuberosum</i>	SGN http://solgenomics.net/tools/blast/
<i>Zea mays</i>	Phytozome http://www.phytozome.net/ The TIGR Maize Database http://maize.jcvi.org/
<i>Populus trichocarpa</i>	Phytozome http://www.phytozome.net/
<i>Mimulus guttatus</i>	Phytozome http://www.phytozome.net/
<i>Vitis vinifera</i>	Phytozome http://www.phytozome.net/ Genoscope http://www.genoscope.cns.fr/externe/GenomeBrowser/Vitis/
<i>Prunus persica</i>	Phytozome http://www.phytozome.net/
<i>Carica papaya</i>	Phytozome http://www.phytozome.net/
<i>Aquilegia coerulea</i>	Phytozome http://www.phytozome.net/
<i>Selaginella moellendorffii</i>	Phytozome http://www.phytozome.net/
<i>Physcomitrella patens</i>	Phytozome http://www.phytozome.net/

Table S3. Primers used in quantitative real-time PCR

Primer name	Sequences
ACTIN-F	5'- TTCCGTTGCCAGAGGTCCT-3'
ACTIN-R	5'- GGGAGCCAAGGCAGTGATTTC-3'
QOV1-F	5'- CTCTCCCCAAAATCCTAAT-3'
QOV1-R	5'- TCTGATCTACAACACCCAAC-3'
QOV2-F	5'- TCCTCGTCGTCCTCATCACCATCTT-3'
QOV2-R	5'- TCGTGAATCAGTTCTACAGTCGCA-3'
QOV3-F	5'- GGAGGAGAGAATAGCGGAAA-3'
QOV3-R	5'- CGGACTGGAATCATTGTAAG-3'
QOV4-F	5'- GGGTCGTTGTTATTCTGAG-3'
QOV4-R	5'-ACTAGTTCCACCTGTTTCC-3'
QOV5-F	5'-CCTCAACCCCACATCACCTT-3'
QOV5-R	5'- GAACCAGCCACTATCAACAGA-3'
QOV6-F	5'-AAAAGACTCCGACGACCC-3'
QOV6-R	5'-TCAGTAAAAGCCCTAACG-3'
QOV7-F	5'- TCAAAATCCACTTTCGACCA-3'
QOV7-R	5'- CATCACTACTAAAATACCT-3'
QOV8-F	5'- CAGTGTTCTTTGACCCCTTTG-3'
QOV8-R	5'- CTTTCTGATCTAGCCCTTTT-3'
QOV9-F	5'- CCTCCAATATTAACCAAGCC-3'
QOV9-R	5'- TGTTCTCAATTTACCCAG-3'
QOV10-F	5'- AACCATCACAAAACCCCA-3'
QOV10-R	5'-TACCGAATCCTTGAACAGC-3'
QOV11-F	5'- TTATCAGAAATCATTAGCCC-3'
QOV11-R	5'- AATCCTTACCACCGCCACAC-3'
QOV12-F	5'- TTCTGTTACCAACTACGTCTCAGTC-3'
QOV12-R	5'- GGAAATCTAATTCAGGGAATTTATC-3'
QOV13-F	5'- CTTTTTAGACCCTTCAAACACTG-3'
QOV13-R	5'- GAACCCCTTAATGATTAECTCC-3'
QOV14-F	5'- AGACAAGTGGCAACATTTATCAAGAC-3'
QOV14-R	5'- AAGGAGTAAGAGATTTTCTACGAGGT-3'
QOV15-F	5'- CAACATTTACAACCTCACTT-3'
QOV15-R	5'- TCTTTCTCTAATCTCAACCC-3'
QOV16-F	5'- CTCAATCTTTGTTTCACTA-3'
QOV16-R	5'- AAAATGCATACTATGATGTT-3'
QOV17-F	5'- TTTGAAGAAACAGAGGAAGAA-3'

QOV17-R	5'- GCGGAATCAGAGCTGGGAATG-3'
QOV18-F	5'- CTCCTATGCTATGTAGATTGC-3'
QOV18-R	5'- ACTTGTTTTTTCACCTGACTC-3'
QOV19-F	5'- TCACAACATTTTCAACTCTCA-3'
QOV19-R	5'- GGTAGAAACTCGAGCCTCTTA-3'
QOV20-F	5'- AATAGTAGTCACGGGTTTGT-3'
QOV20-R	5'- CCTCATAAGGATCCCTCGAT-3'
QOV21-F	5'- ATTGCCACGTTGTGGTAACCT-3'
QOV21-R	5'- GCCTCGAAATAGAACCTCTTT-3'
QOV22-F	5'- TCCTCTTTTTCTCCATTTTTA-3'
QOV22-R	5'- ACTAGTTTTTTCACCTGCCTC-3'
QOV23-F	5'-ATGTTTGGTCCATTCCCAGA-3'
QOV23-R	5'-TTCGAACGATAACCTCCTTG-3'
QOV24-F	5'- TGATGATAATGAAGCGGAAAT-3'
QOV24-R	5'-TGCAATGAAAAAACGACGAGA-3'
QOV25-F	5'- TTCCTTCACCAATTACTCCA-3'
QOV25-R	5'- TATATCCCTCATTTTCCCTT-3'
QOV26-F	5'- AAAGCACCATTTCATCACC-3'
QOV26-R	5'- CCACAATCGTTTCCACCAGA-3'

Table S4. Average ω ratios of each subgroup

Subgroup	ω (one ratio model)
1	0.23
2	0.14
3	0.13
4	0.12
5	0.15
6	0.13
7	0.13
8	0.13
9	0.07
10	0.08