HYL1 Controls the miR156-mediated Juvenile Phase of Vegetative Growth

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SUPPLEMENTARY DATA

Supplementary Table 1. 10 genes that are most deregulated (upregulated and downregulated) in *hyl1* seedlings relative to wild type and in *hyl1-2 p35S::miR156a* (*hyl1 156*) relative to *hyl1* seedlings.

Transcripts	**Genes**	***hyl1*/WT**	***hyl1 156/hyl1***
ENH1	At5g17170	0.35	1.52
Unknown	At1g26920	0.61	1.51
MYB59	At5g59780	0.36	1.08
PAP17	At3g17790	2.23	1.08
Unknown	At5g05250	5.51	0.32
ORG1	At5g53450	1.52	0.64
SPL3	At2g33810	1.83	0.28
FRO3	At1g23020	1.95	0.43
Unknown	At1g47400	2.21	0.58
SPL5	At3g15270	3.25	0.32

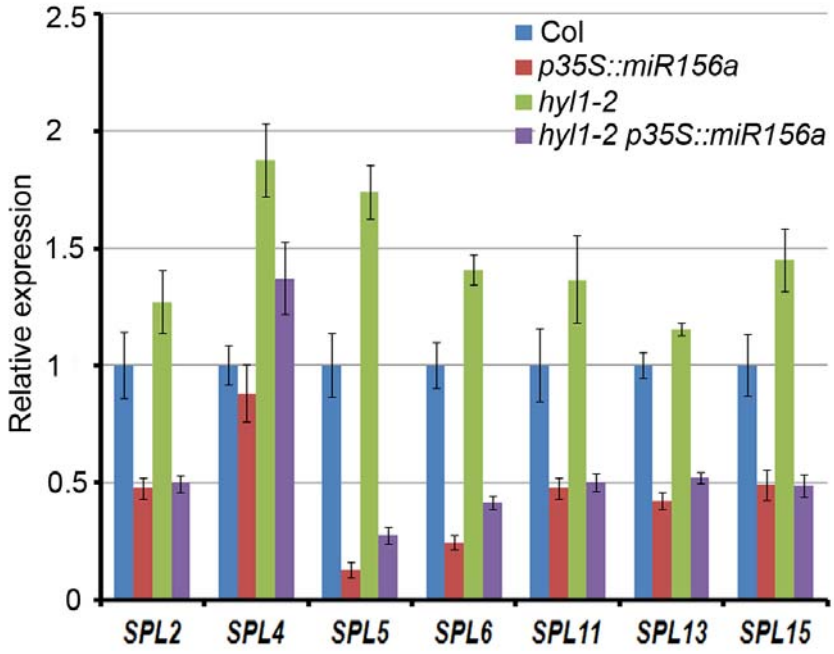
Supplementary Table 2. 10 genes that are most deregulated (upregulated and downregulated) in *se-1* seedlings relative to wild type and *se-1 p35S::miR156a* relative to *se-1* seedlings. The data are derived from GEO GSE16061.

Genes	**Transcripts**	***se-1*/WT**	***se-1 156/se-1***
At2g25510	At2g25510	0.23	3.32
PRP	At5g43580	0.25	2.00
GDSL-like Lipase	At1g54010	0.32	2.96
ECS1	At1g31580	0.33	3.12
SPL3	At2g33810	2.39	0.21
Cystatin	At1g20160	3.55	0.40
At5g52790	At5g52790	3.84	0.67
Chitinase	At2g43620	3.84	0.47
P450	At3g26200	4.16	0.15
ATSBT5.2	At1g20160	4.21	0.57

Supplementary Table 3. Oligonucleotide primer sequences.

Gene	**Sequence(5'-3')**	**Purpose**
SPL2-RT-S	AGATTTCCGATACCGAGCACA	Real-time PCR
SPL2-RT-A	TTGGAGGTTGCTTGAGGGATG	Real-time PCR
SPL3-RT-S	ACCGCGGATATGAGCAAAGCCA	Real-time PCR
SPL3-RT-A	GAGCGCGTGAAACCTGCTGC	Real-time PCR
SPL4-RT-S	TGGAGAAGGATCAGGTCGGAGAGG	Real-time PCR

SPL4-RT-A	CAGAGTGACCGTGGCTTTTGGT	Real-time PCR
SPL5-RT-S	GGTCAGAGAACACAACGCCGGG	Real-time PCR
SPL5-RT-A	CCTGGCACAGTCGCGATGGA	Real-time PCR
SPL6-RT-S	CCACGGAAGTATCCTCCATTT	Real-time PCR
SPL6-RT-A	TATTCCTGCTTCACATCACCA	Real-time PCR
SPL9-RT-S	CAAGGTTCAGTTGGTGGAGGA	Real-time PCR
SPL9-RT-A	TGAAGAAGCTCGCCATGTATTG	Real-time PCR
SPL10-RT-S	AGCACCCTCTCTTTCTCTGCGT	Real-time PCR
SPL10-RT-A	CGGCCACGGGAGTGTGTTTGAT	Real-time PCR
SPL11-RT-S	CACTTATGATACAAAGCCTAGACAA	Real-time PCR
SPL11-RT-A	GGGGATCCGAAGAGGTTGACA	Real-time PCR
SPL13-RT-S	GGGAAATAGTCTTGTAAGCGTTGC	Real-time PCR
SPL13-RT-A	TGGGACAAAGAAAGTGGTGGT	Real-time PCR
SPL15-RT-S	GTGGTCAACCGCAAGATCAGT	Real-time PCR
SPL15-RT-A	TGAGCCATTGTAACCTTATCG	Real-time PCR
pri-miR156a-RT-S	CTCAAGTTCATTGCCATTTTTAGG	Real-time PCR
pri-miR156a-RT-A	GAGAGATTGAGACATAGAGAACGAAGA	Real-time PCR
HYL1-RT-S	TCCAGTGAGCTAAGCCAATG	Real-time PCR
HYL1-RT-A	ACTGAGCCTTCCTGGCTTTA	Real-time PCR
REV-RT-S	AACTTCAAGGCTCCTACAGTCACG	Real-time PCR
REV-RT-A	GAATAGTCCTGCTGGATTGCTCTCA	Real-time PCR
CNA-RT-S	CAGCACCAATTGGCATCTCAA	Real-time PCR
CNA-RT-A	CAGCCAGAAATCGCGTGGT	Real-time PCR
PHV-RT-S	TCTTCTCTCGGGATTGCGGA	Real-time PCR
PHV-RT-A	CTGAGTGTTGACAAGCTCGA	Real-time PCR
PHB-RT-S	TTTCTATAGCAGAGGAGGCCC	Real-time PCR
PHB-RT-A	AGGAGCATACATCTGCGTGT	Real-time PCR
HB8-RT-S	GAAAAACAGCGAAAAGAGG	Real-time PCR
HB8-RT-A	GGACAATAATCCAGCAGGA	Real-time PCR
pri-miR156a-S	CGGAATTCCTTAACCCAATTGGTTTACTTGA	Genomic fragment
pri-miR156a-A	CGGGATCCATCAAATCTAGGGTTTTTGTC	Genomic fragment
anti-miR156	ATGCTCTCTATCTTCTGTCA	probe
anti-miR166	GGGGAATGAAGCCTGGTCCGA	probe
anti-U6	TCATCCTTGCGCAGGGGCCA	probe



Supplementary Figure S1. Expression of *SPL2*, *4*, *5*, *6*, *11*, *13* and *15* genes in *hyl1-2* and transgenic plants. Expression was normalized relative to that of wild-type. ± SD indicates standard deviation.