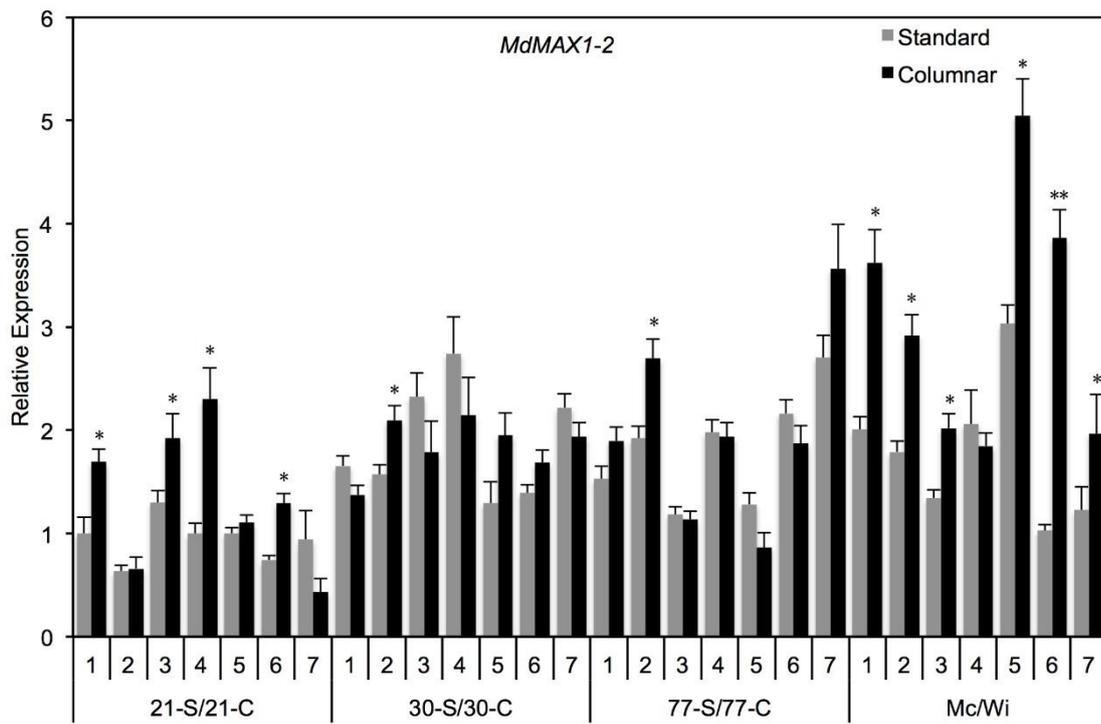
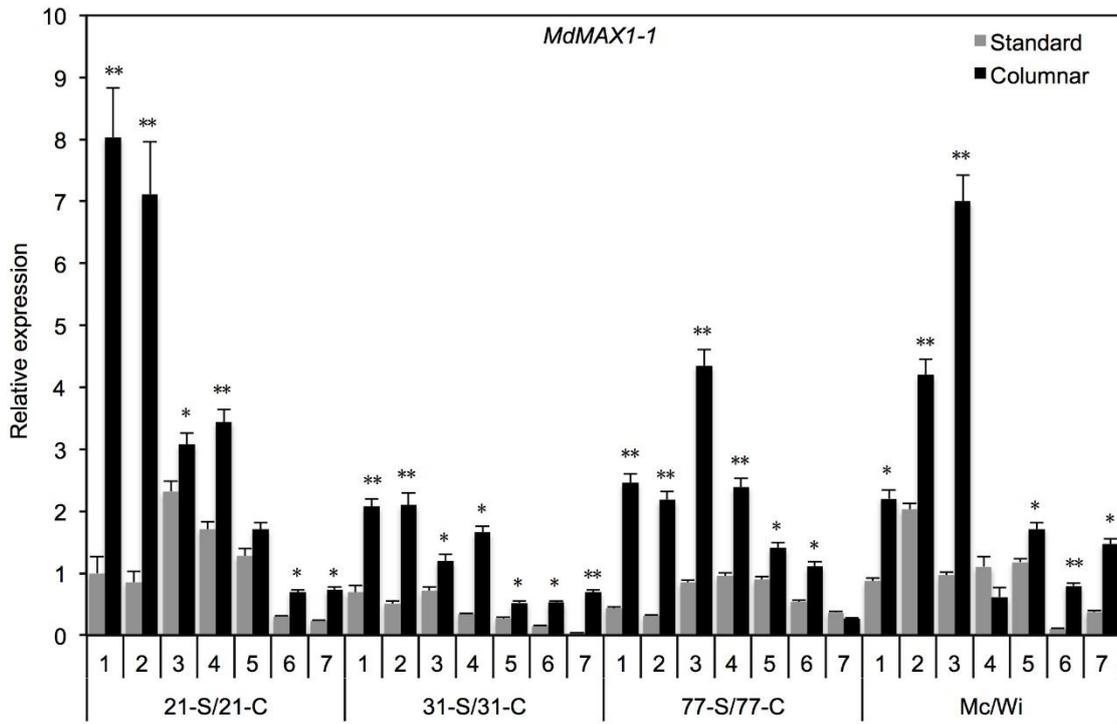
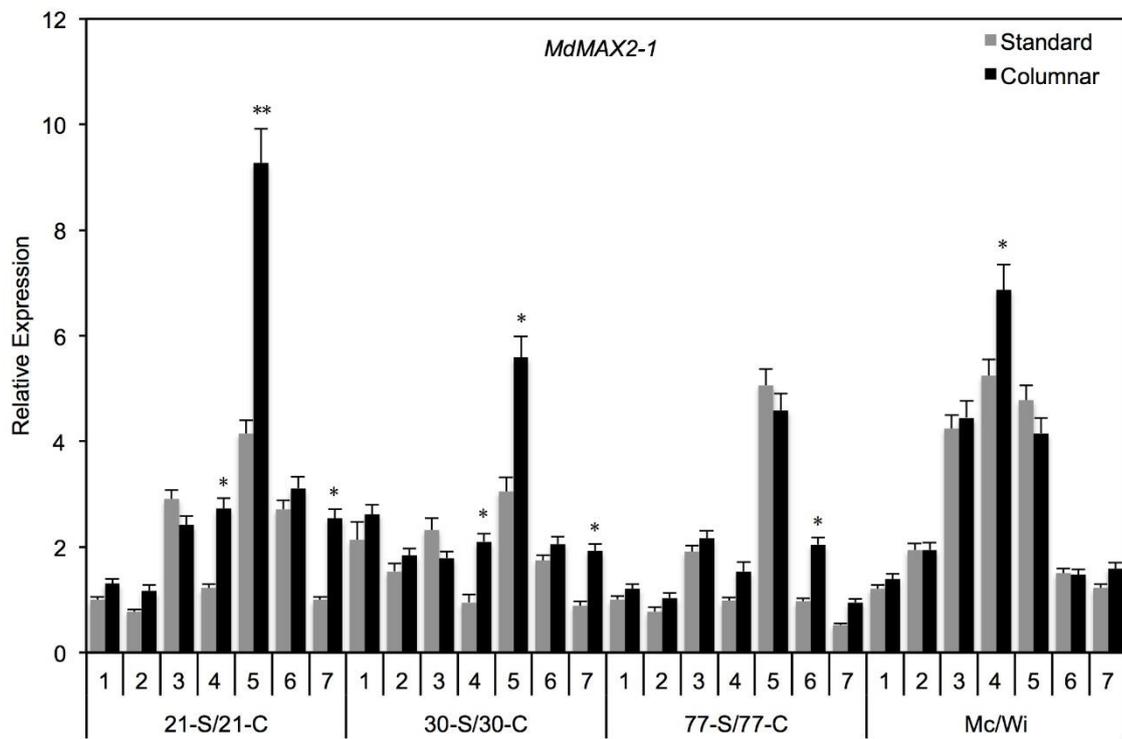
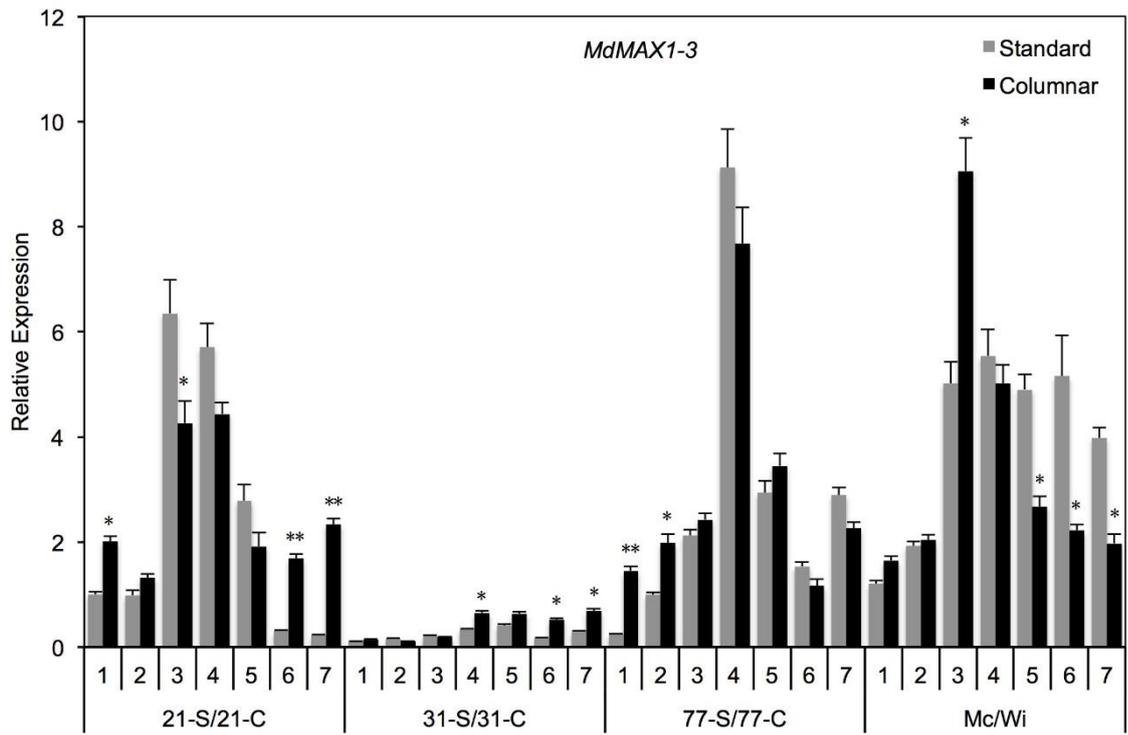
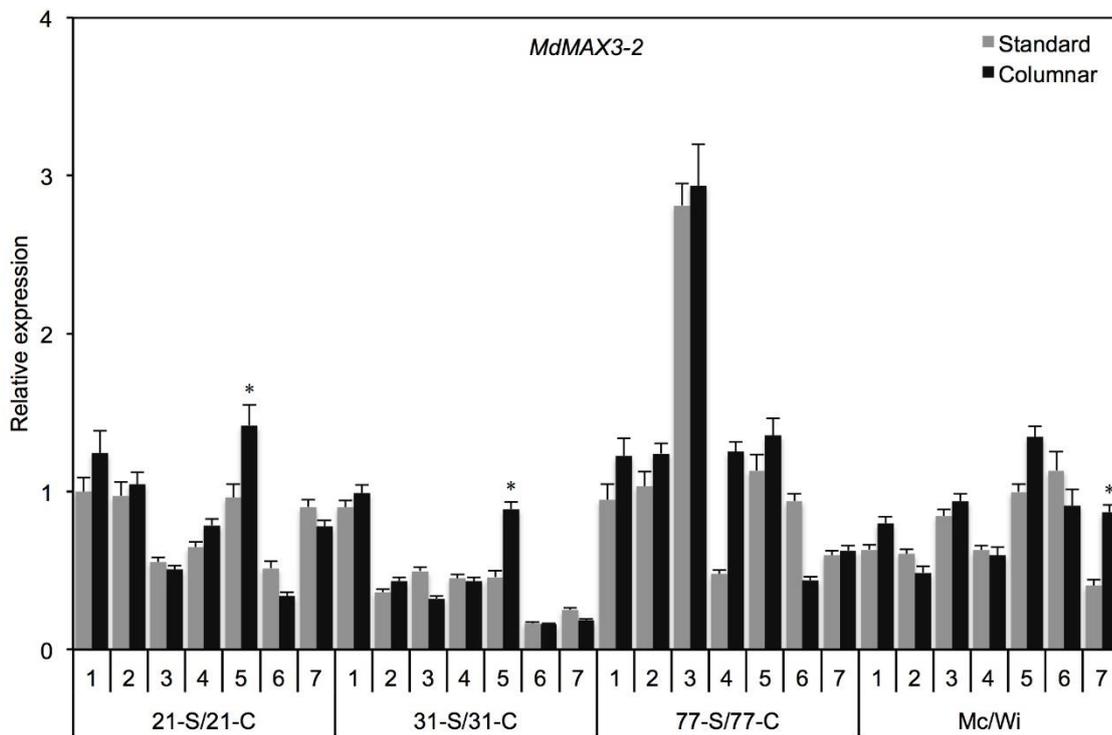
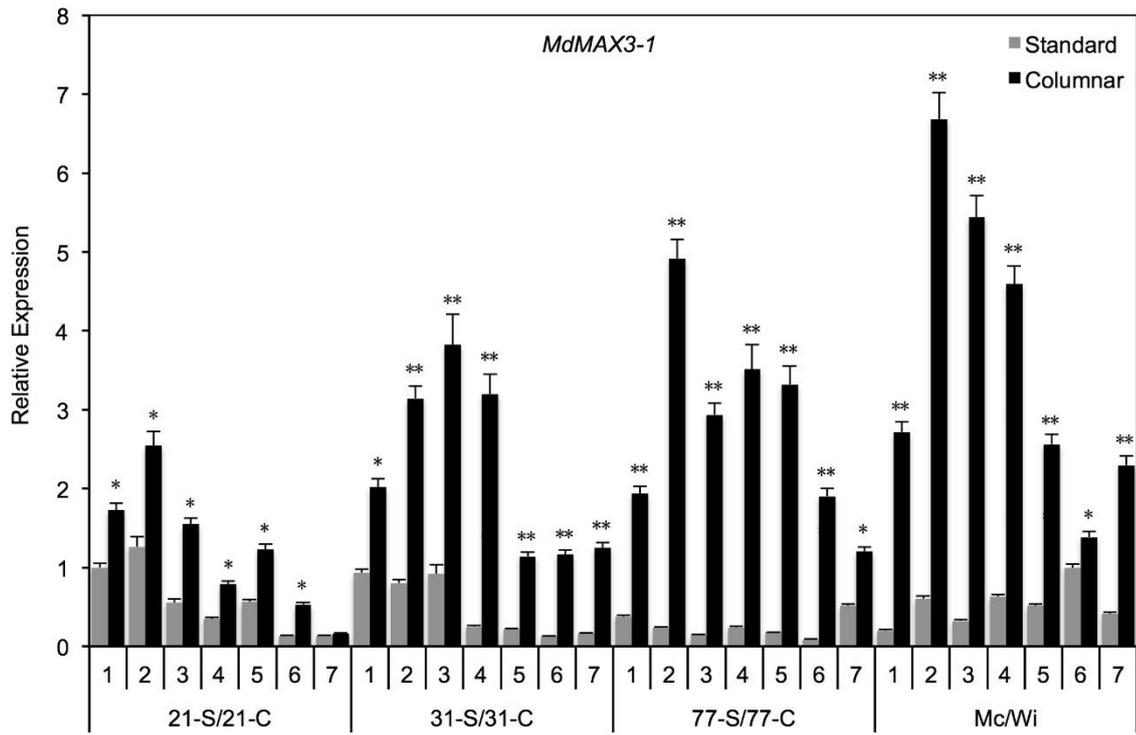


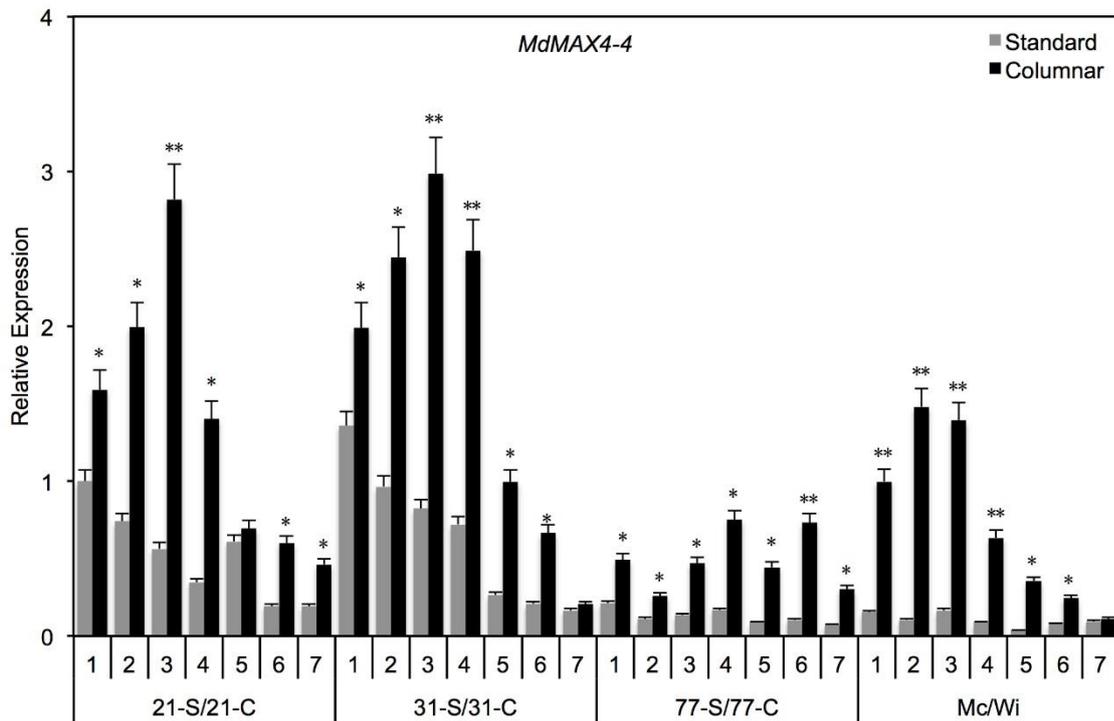
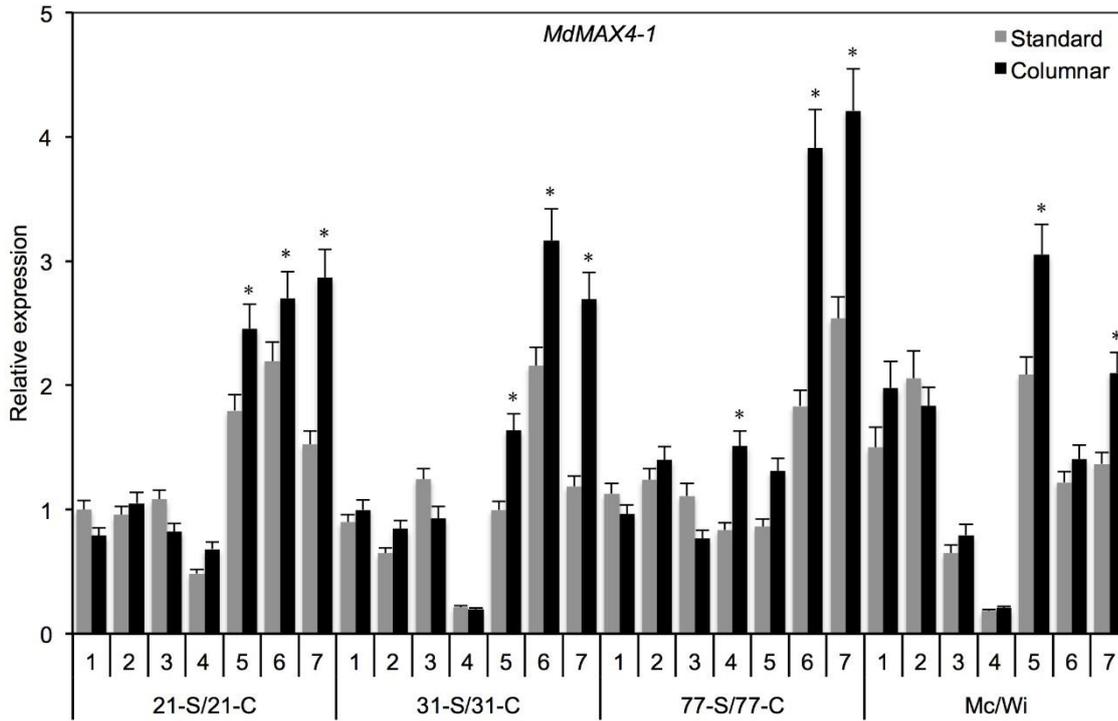
Table 1 Suppl. Primers used in the present study.

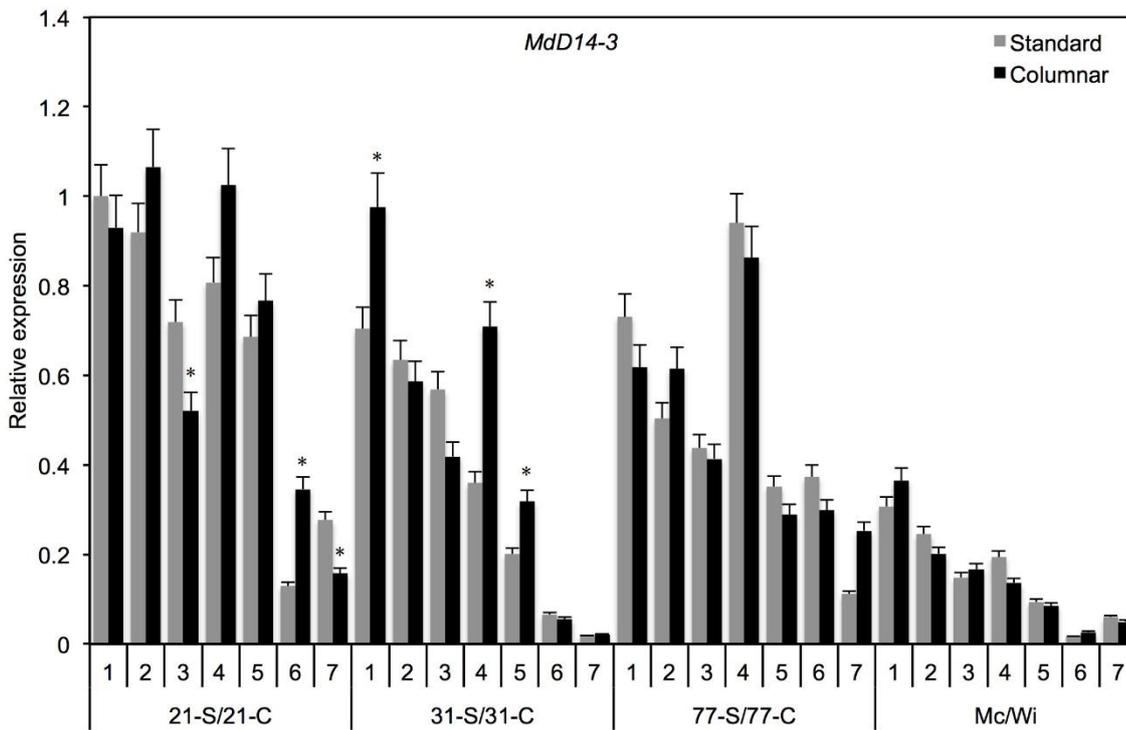
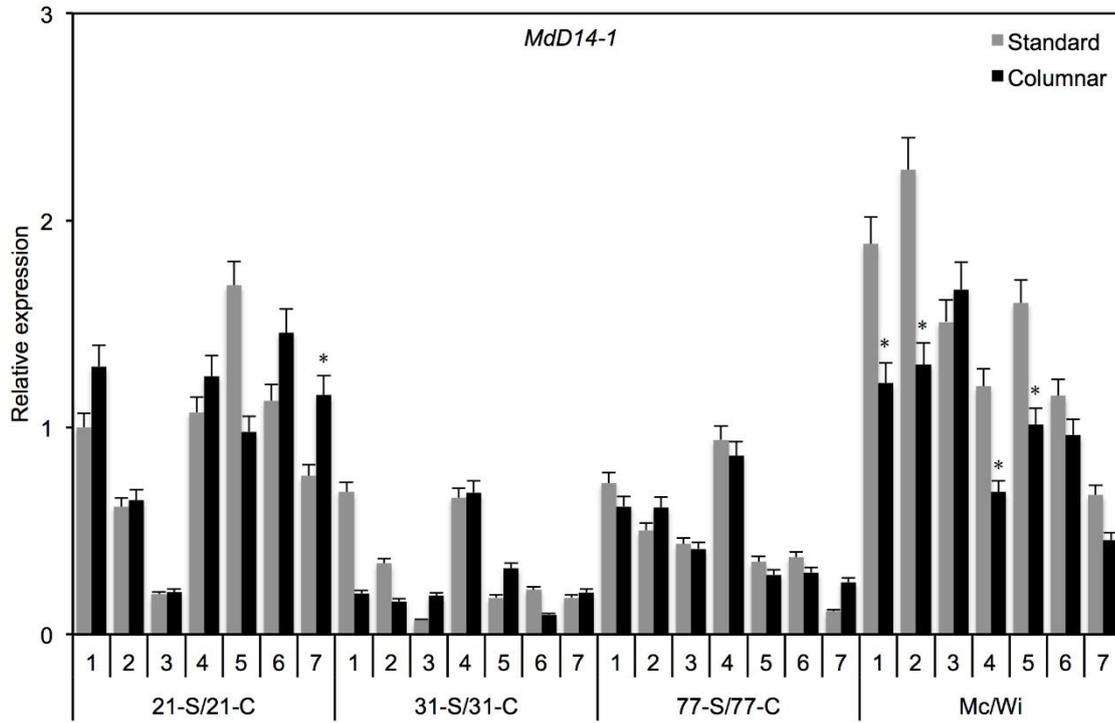
Gene names	Primer	Sequence 5'-3'
<i>MdMAX1-1</i>	sense primer	GATCAGCCACCACAGCATTC
	antisense primer	CCGGATGTTTCTCTCGCAAC
<i>MdMAX1-2</i>	sense primer	ATTGGGATTGTGGGTTGCTT
	antisense primer	GCCACCACAATCTCACAAA
<i>MdMAX1-3</i>	sense primer	CCCTGACGCCCTTCAATTCA
	antisense primer	TATGCCGGGGAGAGTGAGAA
<i>MdMAX1-4</i>	sense primer	CTGCAATGGAACCTCGTCACC
	antisense primer	GCCACGACAATGATTCTCTCC
<i>MdMAX1-5</i>	sense primer	GCCTCCTCTCAAACCCTTCC
	antisense primer	GGCCATTACCTTCGAGCTGT
<i>MdMAX2</i>	sense primer	ATGGTGACGGCAATGGAAGT
	antisense primer	ATTCTCGCTGTGTGGGTCTG
<i>MdMAX3-1</i>	sense primer	GACTGACAGGTGGCGATTCA
	antisense primer	TCCACTCTCTGTCCCCGAAT
<i>MdMAX3-2</i>	sense primer	GCTGCATCTAAATCTGTGCTCA
	antisense primer	GGCCCAGAAACCATGAAAACC
<i>MdMAX4-1</i>	sense primer	AGAAATGGTCCAGGGCTGTG
	antisense primer	AATTGGCTGGCTTAGGGACC
<i>MdMAX4-2</i>	sense primer	CAGCTGGGGTCCACAATGAT
	antisense primer	TCTCCGAGCTTGAACACGAC
<i>MdMAX4-3</i>	sense primer	CACTAAACGAGCCACCCCAT
	antisense primer	CAGTACGTGCTCTGCTGACA
<i>MdD14-1</i>	sense primer	GCTTCCCCGAGGTTTCTGAA
	antisense primer	CTGAATTCTCGGACCGCTGT
<i>MdD14-2</i>	sense primer	ACATGGACTCAGTGGCGATC
	antisense primer	CTTGCCACCGAGATTCTGGT
<i>MdD14-3</i>	sense primer	CAACTTCGCCACACTTGCTG
	antisense primer	CTGACGATGGTGCATGGAGT
<i>MdD14-4</i>	sense primer	ACCGCACAGTTTGGCATTTC
	antisense primer	AGAAGCGATGCATCCAACCA
<i>MdD14-5</i>	sense primer	CCGACAATGGCTATTCTGGC
	antisense primer	GGACATACGGAGGGAGATGG
<i>MdD27-1</i>	sense primer	GGGTACGAAAGCTTGGTGGA
	antisense primer	TGCGAAGTATTCCCTGGCAA
<i>MdD27-2</i>	sense primer	GGCGTGGTGGGAATAGACT
	antisense primer	TGAACTCAGCTGCCACTTTT
<i>MdD27-3</i>	sense primer	ATCTCAGCTGCTCCGAAACC
	antisense primer	GCCGATTCCGCACATCAAT
<i>MdD53-1</i>	sense primer	AGACAAGGCTGATGTGGTGA
	antisense primer	CTCGGAATAGTGGGAGGGTC
<i>MdD53-2</i>	sense primer	GGGGAGGGATCTTGCTCAA
	antisense primer	GTCCGTCAAGCATTGCCTC
<i>MdD53-3</i>	sense primer	CAGCGGTCAAGATAGTTTGCC
	antisense primer	GAGGCCCTGCTTGATAAACG
<i>MdD53-4</i>	sense primer	TGTTTATGGGCCTGGACAGT
	antisense primer	CCACCACTGTTTTACCACGG
<i>MdActin</i>	sense primer	CTGAACCCAAAGGCTAATCG
	antisense primer	ACTGGCGTAGAGGGAAAGAA
<i>NbActin</i>	sense primer	AGGAGAAGTTGGCTTACATTGC
	antisense primer	CCGATCATTGATGGTTGGAACA
<i>NbMAX1</i>	sense primer	CAAATACCCACTGCCAATGAT
	antisense primer	AACTCCAAGAGCCAACCAAAC
<i>NbMAX3</i>	sense primer	TGGCTACGATTGGCAAAGTG
	antisense primer	TGGCGAGAACCAGAAGAAGT
<i>NbD53</i>	sense primer	GCCAGCGTCTTCATCACATAC
	antisense primer	GCTTGGGAATCAGAATCACCT

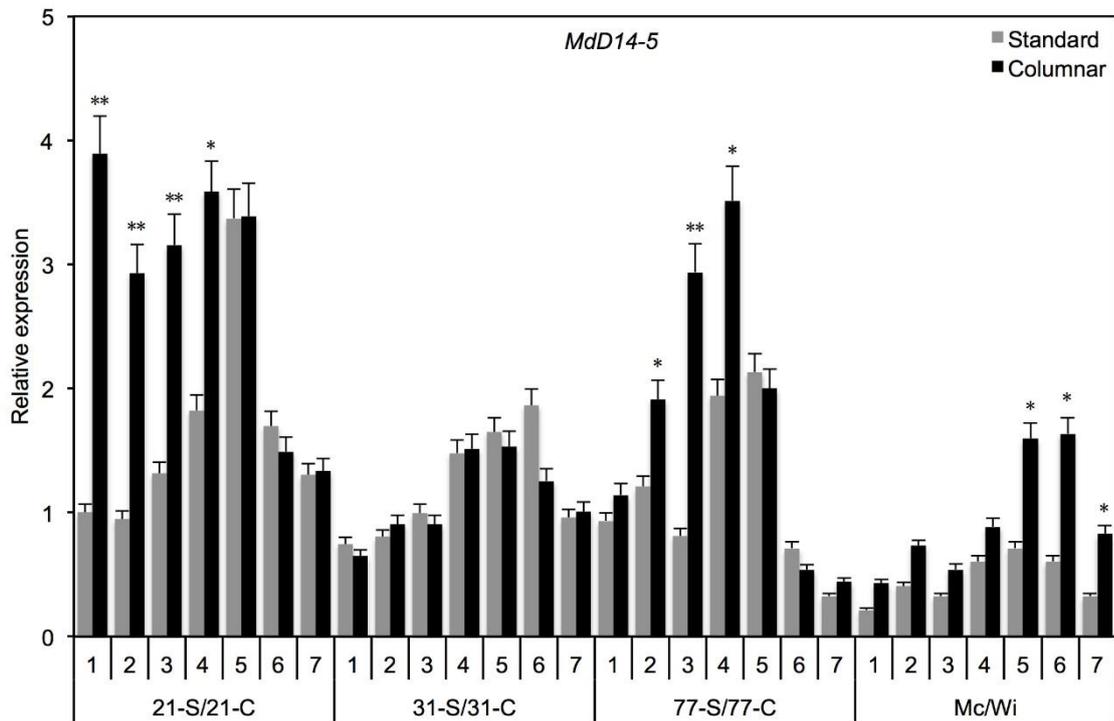
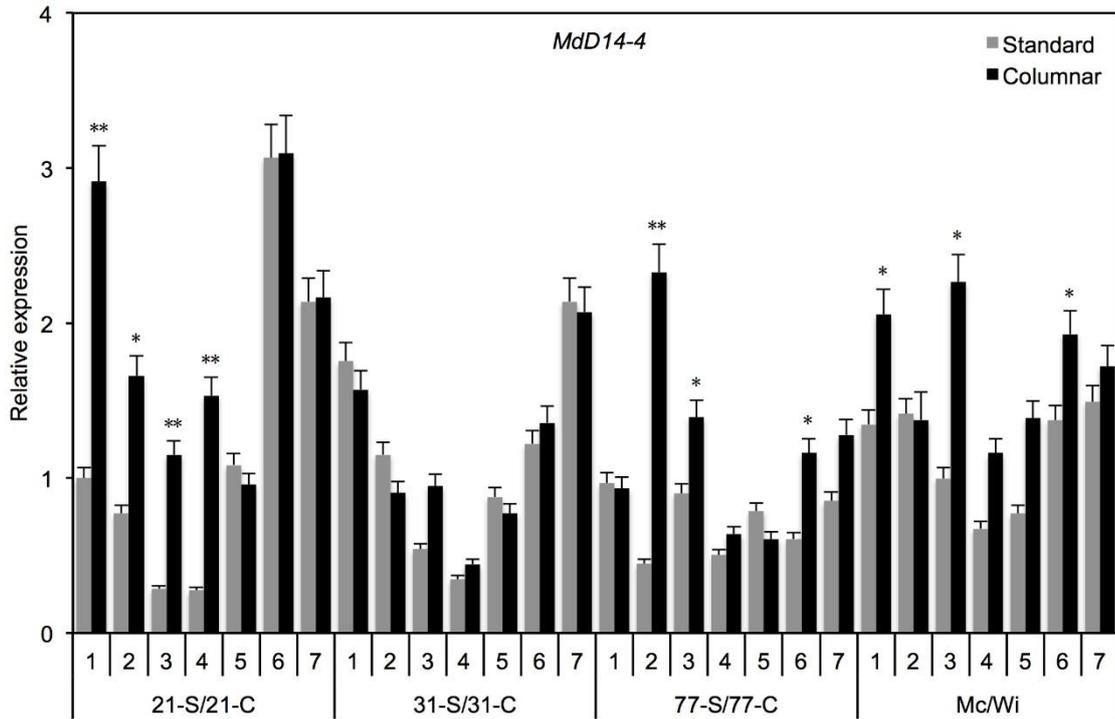


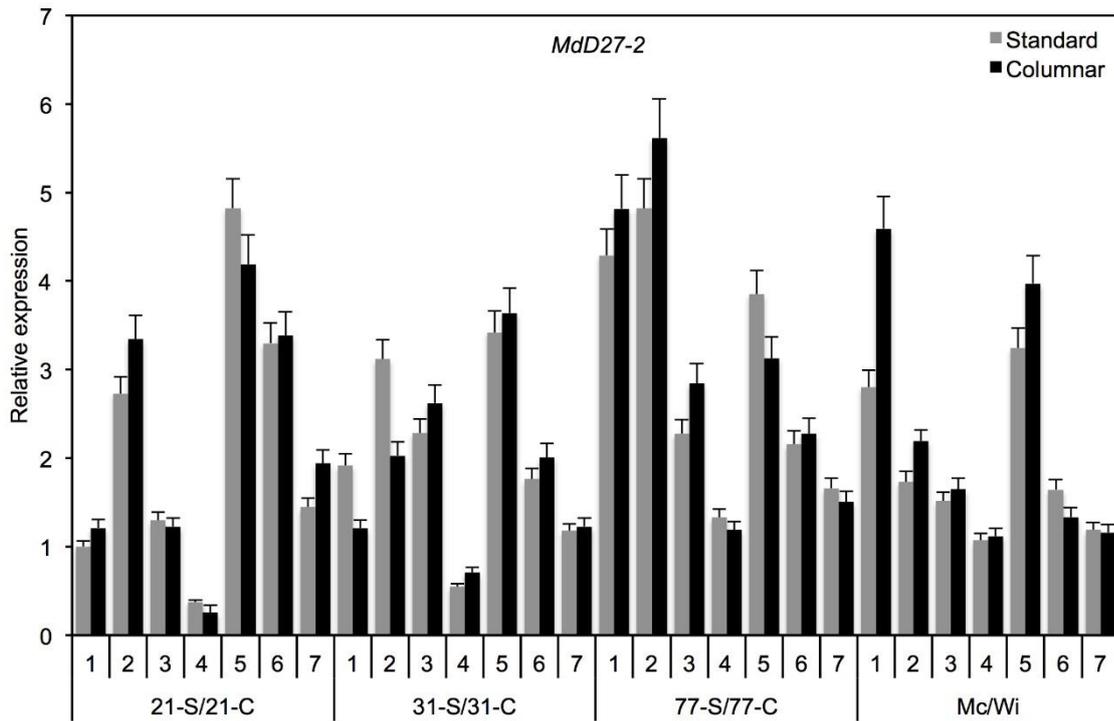
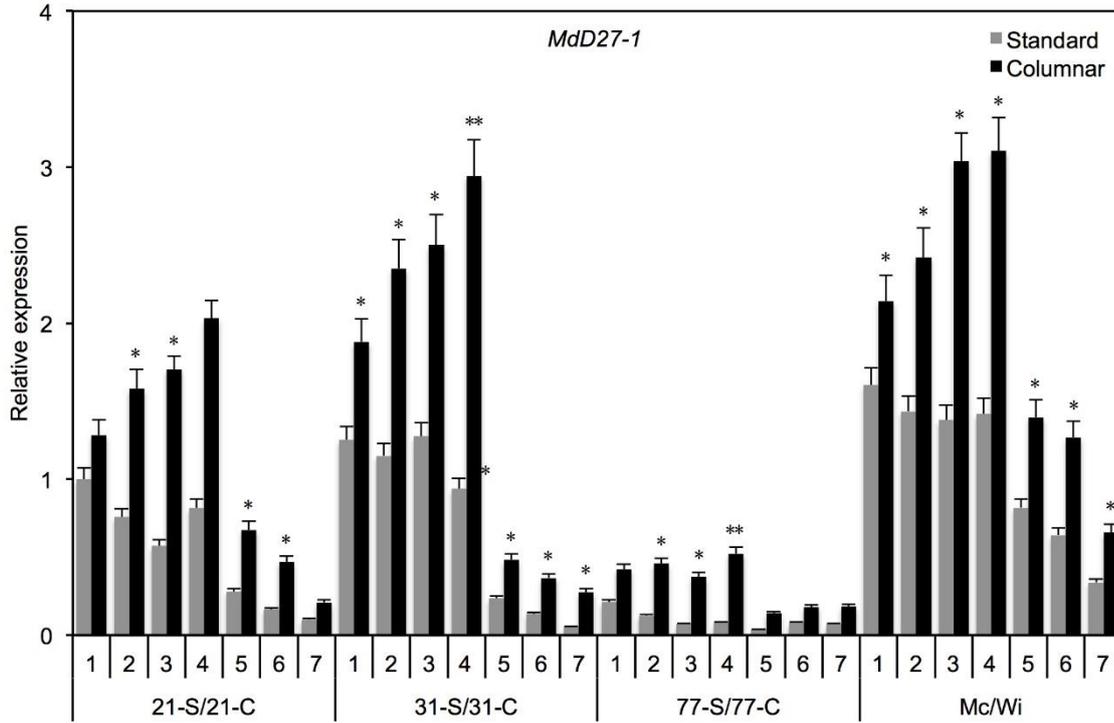


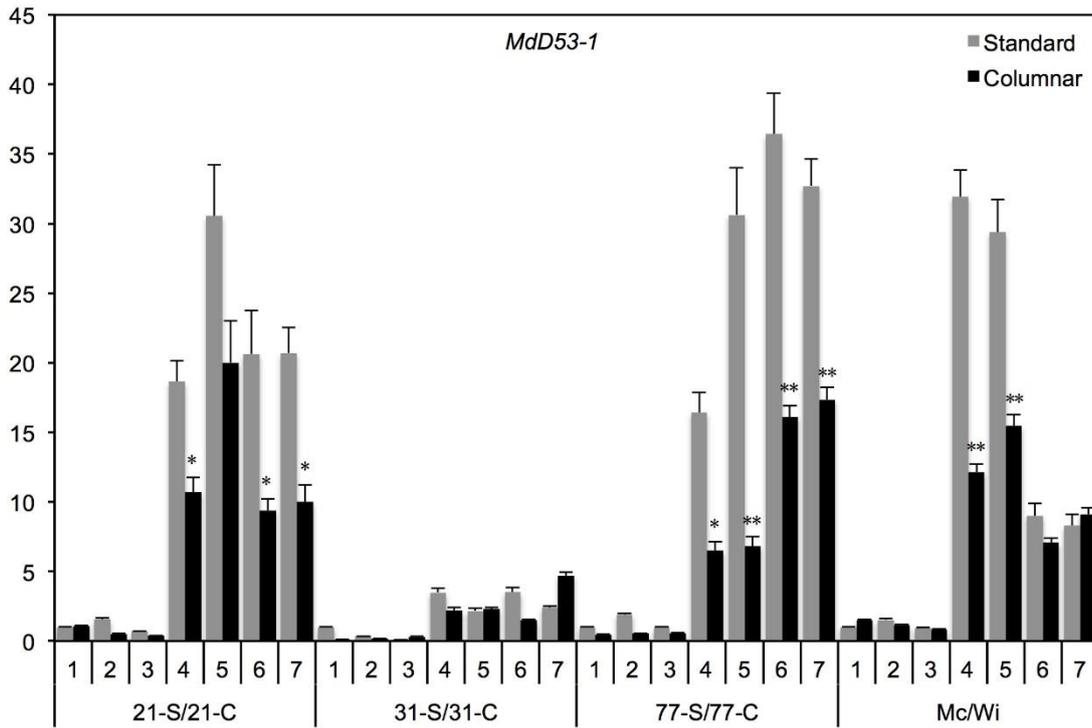
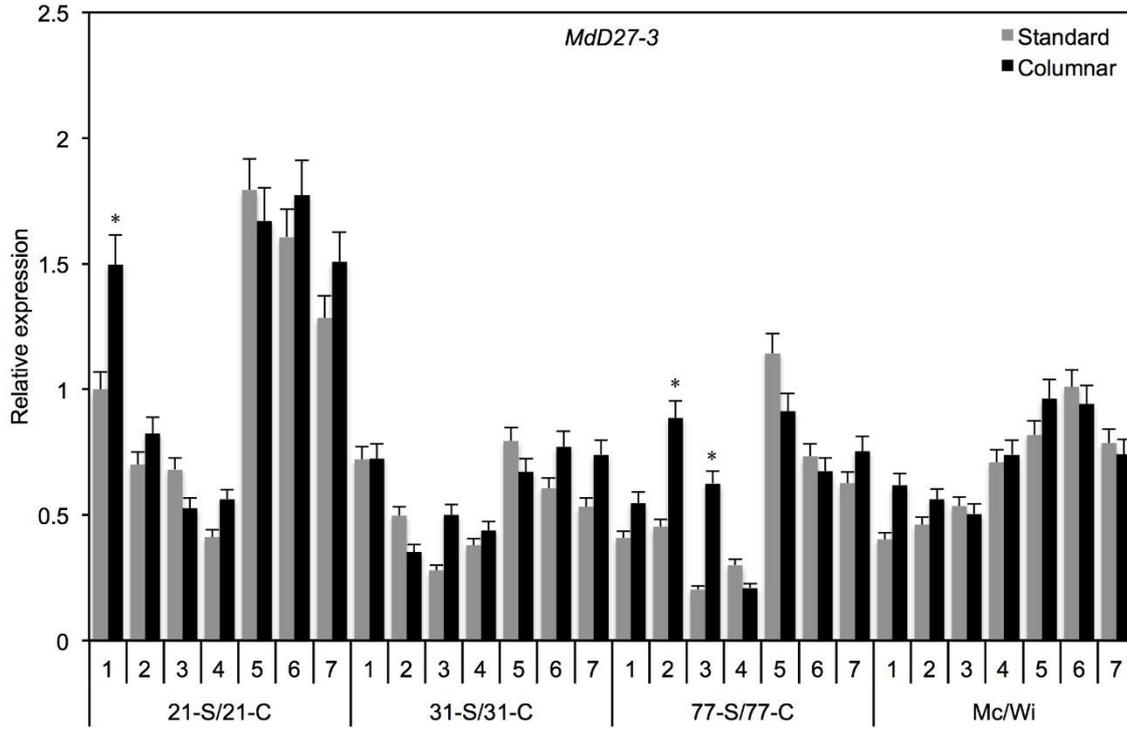












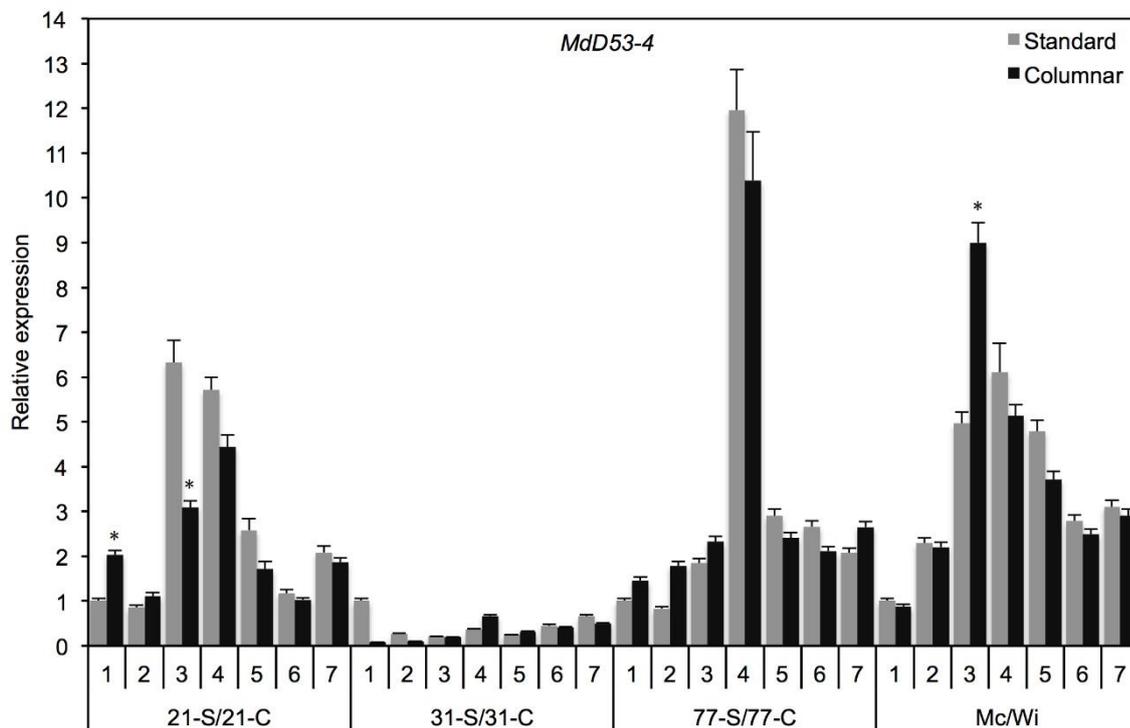
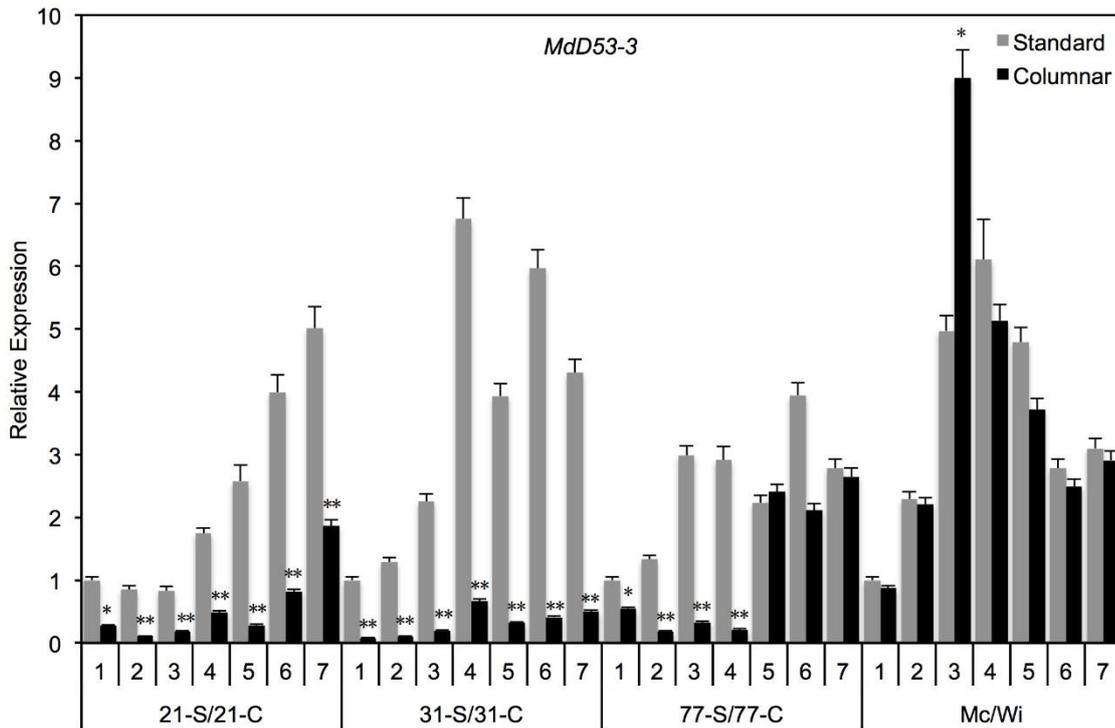


Fig. 1 Suppl. Expression analysis of genes related to biosynthesis of strigolactones in standard (S) and columnar (C) apple genotypes 21, 31, and 77. Standard apple 'McIntosh' (Mc), columnar apple 'Wijcik' (Wi); 0, 1-, 2-, 3-, 4-, 5-, 6-, 7-d-old buds, 30-d-old buds, 60-d-old buds, 30-d-old shoots, 60-d-old shoots, 90-d-old shoots, and 120-d-old shoots. Means \pm SEs of three independent experiments with three replicates each. Differences among samples were analyzed by one-way ANOVA combined with the Duncan's multiple range test (* - $P < 0.01$; ** - $P < 0.001$).