

SUPPORTING INFORMATION

Supplemental Table S1. Oligomers used in this study	
Primers used to amplify gene-specific probe	
Name	Sequence
2PGK-Forward	AGCTCGCCTAGGATGTCTGA
2PGK-Reverse	CATGGGGCACCCAAGAGAAT
AT1G72230-Forward	GAATGGTTCGCTCGGGAAAGA
AT1G72230-Reverse	CCAAAGCATCCAACGGCTTC
COX5B-1-Forward	ACATTTGGGGAGTTTCTTCGC
COX5B-1-Reverse	GGGATAACGAAAGAAGATGCGG
CSD1-Forward	AGGCCAAGTAACAATGGCGA
CSD1-Reverse	CAGCTTTAGCCCTGGAGACC
CSD2-Forward	CCAAACGTCAAAACATAGCAGCA
CSD2-Reverse	GGGTTGAAATGTGGTCTGTG
LAC3-Forward	CCGTTTCGACAACACAACCAC
LAC3-Reverse	TTCTCTGGCGTGACAATGCT
NLA-Forward	GCCGTCGCCATTCGAAAAAT
NLA-Reverse	TGCTTCTGCGGTTTTCAAGC
PHO2-Forward	ACCGTTTCTCATCAAGGCGT
PHO2-Reverse	GGTGACAGAGACACGCTCAA
PLANTACYANIN-Forward	GTACACGGTCGGTGACTCTG
PLANTACYANIN-Reverse	GAGACCGCACCGGATACTTT
TUA2-Forward	CTGAGGTTTCGATGGTGCCCT
TUA2-Reverse	CTACCGCCACAAGCAAGAGA
TUA4-Forward	GCGTCTTCATAAACGCCCTTC
TUA4-Reverse	ACAGCGTTGAAGACGAGGAA
TUA6-Forward	ACAGCATCAAACACCTTCCTCA
TUA6-Reverse	TGTAATGACCACGGGCGAAA
Oligonucleotides used to detect sRNAs	
Name	Sequence
miR156a-g	GTGCTCACTCTTCTGTCA
miR157	GTGCTCTCTATCTTCTGTCAA
miR164	TGCACGTGCCCTGCTTCTCCA
miR398	AAGGGGTGACCTGAGAACACA
miR399	CAGGGCAAATCTCCTTTGGCA
miR408	GCCAGGGAAGAGGCAGTGCAT
miR447	CAACAAAACATCTCGTCCCAA
miR827	AGTTTGTGATGGTCATCTAA
sen-sRNA 1-2	TTTTCTCCAAGGTTCAAGAA
sen-sRNA 3-4	GATCCGTTCTTGAACCTTGCA
sen-sRNA5	AAACCCTTCACTTTGTGCAAT
Bridge oligonucleotides to detect miRNAs	
Name	Bridge oligo sequence
miR396a	GAATGTCATAAGCGCAGTTCAAGAAAGCTGTGGAA
miR396a*	GAATGTCATAAGCGCTTCCCACAGCTTTATTGAAC
Oligonucleotides used to make small RNA libraries	
Name	Bridge oligo sequence
5' RNA adapter	GUUCAGAGUUCUACAGUCCGACGAUC
3' RNA adapter *	UCGUAUGCCGUCUUCUGCUUG
RT primer	CAAGCAGAAGACGGCATAACGA
Forward PCR primer	AATGATACGGCGACCACCGACAGGTTTCAGAGTTCTACAGTCCGA
Reverse PCR primer	CAAGCAGAAGACGGCATAACGA

Supplemental Table S2. miRNA quantification from leaf and silique small RNA libraries.

Values represent the abundance of the miRNA sequence in the indicated library (abbreviations as in Table 1) normalized to TP2M (transcripts per two million) trimmed genome-matched reads.

miRNA	miRNA sequence	COLY	COLM	COLSeE	COLSeL	COSiY	COSiM	COSiES	COSiLS
ath-miR156a-f	UGACAGAAGAGAGUGAGCAC	247,907	307,892	117,878	362,175	2,704	10,728	4,000	4,865
ath-miR156g	CGACAGAAGAGAGUGAGCAC	143	301	96	298	1	5	1	1
ath-miR156h	UGACAGAAGAAAGAGAGCAC	76	170	54	121	107	81	9	2
ath-miR156i	UGACAGAAGAGAGAGAGCAG	0	0	0	0	0	0	0	0
ath-miR156j	UGACAGAAGAGAGAGAGCAC	264	222	219	340	2	7	2	4
ath-miR157a-c	UUGACAGAAGAUAGAGAGCAC	582,372	770,809	398,060	187,224	154	76	18	12
ath-miR157d	UGACAGAAGAUAGAGAGCAC	47,761	68,392	25,909	24,151	9	6	1	1
ath-miR158a	UCCCAAUGUAGACAAAGCA	9,240	9,345	3,420	5,016	23,727	21,819	10,342	9,868
ath-miR158b	CCCAAUGUAGACAAAGCA	4	7	1	3	44	22	5	4
ath-miR159a	UUUGGAUUGAAGGGAGCUCUA	370	267	123	458	8,856	8,803	4,064	12,020
ath-miR159b	UUUGGAUUGAAGGGAGCUCUU	69	41	22	64	9,345	11,766	1,547	1,678
ath-miR159c	UUUGGAUUGAAGGGAGCUCCU	0	0	0	0	10	6	2	2
ath-miR160a-c	UGCCUGGCUCCUGUAUGCCA	86	81	215	70	4	3	2	3
ath-miR161.1	UGAAAGUGACUACAUCGGGGU	301	377	335	228	1,021	884	282	302
ath-miR161.2	UCA AUGCAUUGAAAGUGACUA	970	497	1,248	988	155	219	89	113
ath-miR162a-d	UCGAUAAACCUCUGCAUCCAG	643	402	111	178	960	743	560	891
ath-miR163	UUGAAGAGGACUUGGAACUUCGAU	123	24	126	475	587	519	233	373
ath-miR164a-b	UGGAGAAGCAGGGCAGUGCA	5,680	5,485	2,149	1,049	2	1	0	0
ath-miR164c	UGGAGAAGCAGGGCAGUGCG	631	1,009	1,123	1,047	0	0	0	0
ath-miR165a-g	UCGGACCAGGCUUAUCCCCC	1,019	315	238	530	48,667	30,592	23,711	11,641
ath-miR167a-b	UGAAGCUGCCAGCAUGAUCUA	102,116	124,412	226,822	151,561	560	394	91	135
ath-miR167c	UAAGCUGCCAGCAUGAUCUUG	1	2	0	0	0	1	0	0
ath-miR167d	UGAAGCUGCCAGCAUGAUCUGG	3,912	2,604	2,917	3,815	315	343	125	490
ath-miR168a-b	UCGCUUGGUGCAGGUCGGGAA	32,540	65,832	21,598	20,144	2,448	805	420	292
ath-miR169a	CAGCCAAGGAUGACUUGCCGA	43	40	38	6	3	2	0	0
ath-miR169b-f	CAGCCAAGGAUGACUUGCCGG	1	2	6	7	0	0	0	0
ath-miR169g-3p	UCCGGCAAGUUGACCUUGGCU	1	0	0	0	0	0	0	0
ath-miR169g-5p	UGAGCCAAGGAUGACUUGCCG	41	46	66	116	3	2	0	0
ath-miR169h-n	UAGCCAAGGAUGACUUGCCUG	26	6	7	3	22	18	2	2
ath-miR170	UGAUUGAGCCGUGUCAUAUC	3	0	0	5	36	27	9	16
ath-miR171a	UGAUUGAGCCGCGCAUAUC	31	20	18	17	126	59	27	60
ath-miR171b-c	UUGAGCCGUGCAUAUCACG	7	7	2	3	30	20	4	4
ath-miR172a-b	AGAAUCUUGAUGAUGCUGCAU	22,101	19,377	38,208	37,530	24	8	2	2
ath-miR172b-5p	GCAGCACCAUUAAGAUUCAC	7	7	15	9	0	0	0	0
ath-miR172c-d	AGAAUCUUGAUGAUGCUGCAG	3	4	8	43	162	58	8	5
ath-miR172e	GGAAUCUUGAUGAUGCUGCAU	43	19	49	71	3	1	0	0
ath-miR173-3p	UGAUUCUCUGUGUAAGCGAAA	18	14	48	38	2	1	1	1

ath-miR5019	UGUUGGGAAGAAAAACUCUU	0	0	0	0	0	0	0	0
ath-miR5020a	UGGAAGAAGGUGAGACUUGCA	3	1	0	0	0	0	0	0
ath-miR5020b	AUGGCAUGAAAGAAGGUGAGA	152	393	218	75	1	1	0	0
ath-miR5020c	UGGCAUGGAAGAAGGUGAGAC	1	2	2	0	0	0	0	0
ath-miR5021	UGAGAAGAAGAAGAAGAAAA	0	0	0	0	0	0	0	0
ath-miR5022	GUCAUGGGUAUGAUCGAAUG	0	0	0	0	0	0	0	0
ath-miR5023	AUUGGUAGUGGAUAAGGGGGC	0	1	0	0	0	0	0	0
ath-miR5024-3p	CCGUAUUCUUGCCUUGUCAUU	0	0	0	0	2	1	1	1
ath-miR5024-5p	AUGACAAGGCCAAGAUUAACA	0	0	0	1	0	0	0	0
ath-miR5025	ACUGUAUAUAUGUAAGUGACA	0	0	0	0	0	0	0	0
ath-miR5026	ACUCAUAAGAUCGUGACACGU	5,934	7,542	2,899	3,863	4	5	2	4
ath-miR5027	ACCGGUUGGAACUUGCCUAAA	0	0	0	0	0	0	0	0
ath-miR5028	AAUUGGGUUUAUGCUAGAGUU	0	0	0	0	1	1	0	0
ath-miR5029	AAUGAGAGAGAACACUGCAAA	0	0	0	0	1	2	0	0
ath-miR5595a-b	ACAUUGAUCUGCAUCUUUGC	0	1	0	0	19	12	0	0
ath-miR5628	GAAAUAGCGAAGAUUAUGAUUA	0	0	0	0	0	0	0	0
ath-miR5629	UUAGGGUAGUUAACGGAAGUUA	2	1	0	0	0	0	0	0
ath-miR5630a-b	GCUAAGAGCGGUUCUGAUGGA	0	0	0	0	0	0	0	0
ath-miR5631	UGGCAGGAAAGACAUAUUUUU	0	0	0	0	0	0	0	0
ath-miR5632	UUGGAUUUAUAGUUGGAUAAG	0	0	0	0	0	0	0	0
ath-miR5633	UAUGAUCACAGAAAACAGUG	1	1	0	0	0	0	0	0
ath-miR5634	AGGGACUUUGUGAAUUUAGGG	1	0	0	6	0	0	0	0
ath-miR5635a-d	UGUUAAGGAGUGUUAACGGUG	2	2	0	0	0	0	0	0
ath-miR5636	CGUAGUUGCAGAGCUUGACGG	2	1	0	0	0	0	0	0
ath-miR5637	AAUGCGCAACUCUAUAUUUCC	0	0	0	0	1	1	0	0
ath-miR5638a	AUACCAAAACUCUCACUUU	0	0	0	0	0	0	0	0
ath-miR5638b	ACAGUGGUCAUCUGGUGGGCU	0	0	0	0	3	5	1	1
ath-miR5639	UAGUCCACUGUGUCUAAGGC	2	1	2	3	2	1	0	1
ath-miR5640	UGAGAGAAGGAAUAGAUUCA	1	1	2	0	2	2	0	0
ath-miR5641	UGGAAGAAGAUGAUAGAAUUA	0	0	0	7	0	0	0	0
ath-miR5642a-b	UCUCGCGCUUGUACGGCUUU	16	19	3	1	1	1	0	0
ath-miR5643a-b	AGGCUUUUAAGAUUGGUUGC	4	4	9	0	1	0	0	0
ath-miR5644	GUGGGUUGCGGAUAACGGUA	1	2	1	0	0	0	0	0
ath-miR5645a-b	AUUUGAGUCAUGUCGUUAAG	0	0	0	0	0	0	0	0
ath-miR5645c	AACCUAUUUACGACAUGACU	0	0	0	0	0	0	0	0
ath-miR5646	GUUCGAGGCACGUUGGGAGG	0	0	0	0	0	0	0	0
ath-miR5647	UCAAGUUUGAUGACGAUCCA	1	1	0	0	0	0	0	0
ath-miR5648-3p	AUCUGAAGAAAUAAGCGGCAU	22	30	52	0	0	0	0	0
ath-miR5648-5p	UUUGGAAAUUUUGGCUUGACU	9	3	9	8	1	0	0	0
ath-miR5649a-b	AUUGAAUAUGUUGGUUACUUA	0	0	0	0	0	0	0	0
ath-miR5650	UUGUUUUGGAUCUUAGAUACA	0	0	0	0	1	7	4	1

ath-miR5651	UUGUGCGGUUCAAUAGUAAC	3	6	4	6	12	18	7	5
ath-miR5652	UUGAAUGUGAAUGAACGGGC	7	6	6	0	0	0	0	1
ath-miR5653	UGGGUUGAGUUGAGUUGGUUGGC	4	1	5	1	0	1	2	1
ath-miR5654-3p	UGGAAGAUGC UUUGGGAUUUAAU	11	5	25	15	0	0	0	0
ath-miR5654-5p	AUAAAUCCCAACAUCUCCA	0	1	1	0	0	0	0	0
ath-miR5655	AAGUAGACACAUAAGAAGGAG	1	2	5	8	0	0	0	0
ath-miR5656	ACUGAAGUAGAUUGGGUUU	4	4	15	6	0	0	0	0
ath-miR5657	UGGACAAGGUAGAUUUGGUG	0	1	0	0	0	0	0	0
ath-miR5658	AUGAUGAUGAUGAUGAUGAAA	0	0	0	0	0	0	0	0
ath-miR5659	CGAUGAAGGUCUUUGAACGGUA	22	7	16	37	0	0	1	0
ath-miR5660	CAGGUGGUUAGUGCAAUGGAA	0	0	0	0	0	0	0	0
ath-miR5661	AGAGGUACAUCAUGUAGUCUG	5	5	0	7	0	0	0	0
ath-miR5662	AGAGGUGACCAUUGGAGAUG	0	0	0	0	0	0	0	0
ath-miR5663	AGCUAAGGAUUUGCAUUCUCA	13	11	17	7	1	1	0	0
ath-miR5664	AUAGUCAAUUUUAUCGGUCUG	1	1	3	0	0	0	0	0
ath-miR5665	UUGGUGGACAAGAUCUGGGAU	0	0	0	0	0	0	0	0
ath-miR5666	AUGGGACAUCGAGCAUUUAAU	0	0	0	0	0	1	0	0
ath-miR5996	UGACAUCCAGAUAGAAGCUUUG	112	81	71	71	0	0	0	0
ath-miR5997	UGAAACCAAGUAGCUAAAUAG	2	1	11	7	0	0	0	0
ath-miR5998a-b	ACAGUUUGUUUUUGUUUUGU	0	0	4	0	0	0	0	0
ath-miR5999	UCUUCACUAUUAGACGGACAA	5	4	0	10	0	0	0	0
ath-miR771	UGAGCCUCUGUGGUAGCCUCA	0	0	0	0	11	2	0	0
ath-miR773a	UUUGCUUCCAGCUUUUGUCUC	0	0	0	0	0	0	0	0
ath-miR773b-3p	UUUGAUUCCAGCUUUUGUCUC	0	0	0	0	0	0	0	0
ath-miR773b-5p	GGCAAUAACUUGAGCAAACA	0	0	0	0	0	0	0	0
ath-miR774a	UUGGUUACCCAUAUGGCCAUC	0	0	0	0	5	1	0	0
ath-miR774b-3p	CAUCCAUAUUUUAUCUCGAA	0	0	0	0	0	0	0	0
ath-miR774b-5p	UGAGAUGAAGAUUUGGGUGAU	0	0	0	0	0	0	0	0
ath-miR775	UUCGAUGUCUAGCAGUGCCA	8	16	10	7	34	25	4	3
ath-miR776	UCUAAGUCUUCUAUUGAUGUU	0	0	0	0	0	0	0	0
ath-miR777	UACGCAUUGAGUUUCGUUGCUU	3	1	5	14	60	26	3	3
ath-miR778	UGGCUUGGUUUUGUACACCG	0	0	0	0	0	0	0	0
ath-miR779.1	UUCUGCUAUGUUGCUGCUCAU	0	0	0	0	0	0	0	0
ath-miR779.2	UGAUUGGAAUUUCGUUGACU	0	1	0	6	31	40	19	17
ath-miR780.1	UCUAGCAGCUGUUGAGCAGGU	0	0	0	0	2	1	0	0
ath-miR780.2	UUCUUCGUGAAUAUCUGGCAU	0	0	0	0	17	31	1	2
ath-miR781a-b	UUAGAGUUUUCUGGAUACUUA	2	1	0	0	46	56	12	14
ath-miR782	ACAAACACCUUGGAUGUUCUU	0	0	0	0	0	0	0	0
ath-miR822	UGCGGAAGCAUUUGCACAUG	492	396	456	189	12	8	1	0
ath-miR823	UGGGUGGUGAUCAUAUAGAU	11	16	32	30	4	4	2	2
ath-miR824	UAGACCAUUUGUGAGAAGGGA	342	484	926	483	33	52	30	99

ath-miR825	UUCUCAAGAAGGUGCAUGAAC	203	276	193	97	1	2	1	1
ath-miR826	UAGUCCGGUUUUGGAUACGUG	0	2	1	16	2	2	5	11
ath-miR827	UUAGAUGACCAUCAACAAACU	165	187	520	470	197	334	62	15
ath-miR828	UCUUGCUUAAAUGAGUAUUGCA	0	0	0	0	1	1	0	0
ath-miR829.1	AGCUCUGAUACCAAAUGAUGGAAU	1	0	1	9	6	2	4	6
ath-miR829.2	CAAAUUAAGCUUCAAGGUAG	0	0	0	0	0	0	0	0
ath-miR830-3p	UAACUAUUUUGAGAAGAAGUG	0	2	17	0	1	0	0	1
ath-miR830-5p	UCUUCUCCAAUAGUUUAGGUU	0	0	1	0	2	1	0	1
ath-miR831	UGAUCUCUUCGUACUCUUCUUG	0	0	0	0	1	1	0	0
ath-miR832-3p	UUGAUUCCCAAUCAAGCAAG	0	0	0	0	3	1	0	0
ath-miR832-5p	UGCUGGGAUCGGAAUCGAAA	0	0	0	0	4	1	1	0
ath-miR833a-3p	UAGACCGAUGUCAACAAACAAG	4	1	3	0	1	0	0	0
ath-miR833a-5p	UGUUUGUUGUACUCGGUCUAGU	0	0	0	5	2	1	1	1
ath-miR833b	UGUUUGUUGACAUCGGUCUAG	6	4	1	0	0	0	0	0
ath-miR834	UGGUAGCAGUAGCGGUGGUAA	1	2	2	0	0	0	0	0
ath-miR835-3p	UGGAGAAGAUACGCAAGAAAG	1	1	0	0	0	0	0	0
ath-miR835-5p	UUCUUGCAUAUGUUCUUUAUC	0	0	0	0	0	0	0	0
ath-miR836	UCCUGUGUUCCUUUGAUGCGUGG	0	0	0	0	0	0	0	0
ath-miR837-3p	AAACGAACAAAAACUGAUGG	2	3	3	0	0	0	0	0
ath-miR837-5p	AUCAGUUUCUUGUUCGUUUCA	0	0	0	0	0	0	0	0
ath-miR838	UUUCUUCUACUUCUUGCACA	0	0	0	0	0	0	0	0
ath-miR839	UACCAACCUUCAUCGUUCCC	0	0	0	0	2	1	1	0
ath-miR840	ACACUGAAGGACCUAAACU AAC	2	2	3	28	20	13	2	1
ath-miR841a	UACGAGCCACUUGAAACUGAA	102	62	21	28	6	24	11	10
ath-miR841b-3p	CAAUUUCUAGUGGGUCGUAAU	4	2	3	0	0	0	0	0
ath-miR841b-5p	UACGAGCCACUGGAAACUGAA	15	14	5	6	7	13	4	2
ath-miR842	UCAUGGUCAGAUCGCUAUCC	7	7	0	13	56	39	3	3
ath-miR843	UUUAGGUCGAGCUUCAUUGGA	124	177	215	177	10	17	3	7
ath-miR844-3p	UUUAAGCCAUCUACUAGUU	1	1	0	0	3	2	1	1
ath-miR844-5p	UGGUAAGAUUGCUUUAAGCU	0	1	3	0	0	0	0	0
ath-miR845a	CGGCUCUGAUACCAAUUGAUG	0	1	1	0	174	117	39	71
ath-miR845b	UCGCUCUGAUACCAAAUUGAUG	0	0	0	0	64	34	8	12
ath-miR846	UUGAAUUGAAGUGCUUGAAU	5	3	5	6	136	496	170	217
ath-miR847	UCACUCCUCUUCUUCUUGAUG	0	0	0	0	1	1	0	0
ath-miR848	UGACAUGGGACUGCCUAAGCUA	24	18	21	14	9	8	2	1
ath-miR849	UAACUAAACAUUGGUGUAGUA	3	1	3	3	0	0	0	0
ath-miR850	UAAGAUCGGACUACAACAAG	6	7	5	8	4	6	3	1
ath-miR851-3p	UGGGUGGCAAACAAGACGAC	2	1	5	0	0	0	0	0
ath-miR851-5p	UCUCGGUUCGCGAUCCACAAG	0	0	0	0	4	1	0	0
ath-miR852	AAGAUAAAGCGCCUUAGUUCUG	1	0	0	0	0	0	0	1
ath-miR853	UCCCCUUUAGCUUGGAGAAG	0	0	0	3	11	5	1	0

ath-miR854a-e	GAUGAGGAUAGGGAGGAGGAG	0	0	0	0	0	0	0	0
ath-miR855	AGCAAAAGCUAAGGAAAAGGAA	0	0	0	0	0	0	0	0
ath-miR856	UAAUCCUACCAUAACUUCAGC	0	0	0	0	0	0	0	0
ath-miR857	UUUUGUAUGUUGAAGGUGUAU	2	2	0	0	0	0	0	0
ath-miR858a	UUUCGUUGUCUGUUCGACCUU	0	0	0	0	104	98	32	62
ath-miR858b	UUCGUUGUCUGUUCGACCUUG	0	0	0	0	64	64	20	29
ath-miR859	UCUCUCUGUUGUGAAGUCAAA	0	0	0	0	7	3	0	0
ath-miR860	UCAAUAGAUUGGACUAUGUAU	5	4	0	11	11	13	4	6
ath-miR861-3p	GAUGGAUUGUCUCAAGGAC	7	8	7	8	3	3	4	6
ath-miR861-5p	CCUUGGAGAAAUAUGCGUCA	1	0	0	0	0	0	0	0
ath-miR862-3p	AUAUGCUGAUCUACUUGAAG	0	0	0	0	0	0	0	0
ath-miR862-5p	UCCAUAAGGUCGAGCAUGUGC	1	1	0	0	0	0	0	0
ath-miR863-3p	UUGAGAGCAACAAGACAUAAU	197	160	157	62	2	3	1	1
ath-miR863-5p	UUAUGUCUUGUUGAUCUCAAU	1	0	0	0	0	0	0	0
ath-miR864-3p	UAAAGUCAAAUAUACCUUGAAG	0	0	0	0	1	0	0	0
ath-miR864-5p	UCAGGUAUGAUUGACUUCAAA	24	16	30	0	0	0	0	0
ath-miR865-3p	UUUUUCCUCAAAUUUAUCCAA	0	0	0	0	0	0	0	0
ath-miR865-5p	AUGAAUUUGGAUCUAAUUGAG	0	0	0	0	1	0	0	0
ath-miR866-3p	ACAAAUCCGUCUUGAAGA	2	3	3	9	4	5	9	9
ath-miR866-5p	UCAAGGAACGGAUUUUGUAAA	1	2	0	7	0	0	0	0
ath-miR867	UUGAACAUUGUUUAUUAGGAA	0	0	0	0	0	0	0	0
ath-miR868-3p	CUUCUUAAGUGCUGAUAAUGC	0	0	0	0	0	0	0	0
ath-miR868-5p	UCAUGUCGUAUAGUAGUCAC	0	0	0	0	0	0	0	0
ath-miR869.1	AUUGGUCAAUUCUGGUGUUG	0	0	0	0	0	0	0	0
ath-miR869.2	UCUGGUGUUGAGAUAGUUGAC	10	12	7	0	107	113	12	3
ath-miR870	UAAUUUGGUGUUUCUUCGAUC	1	0	0	0	0	0	0	0
	Sum of miRNA Abundance:	1,076,444	1,400,822	864,391	816,957	123,689	108,373	50,384	48,219

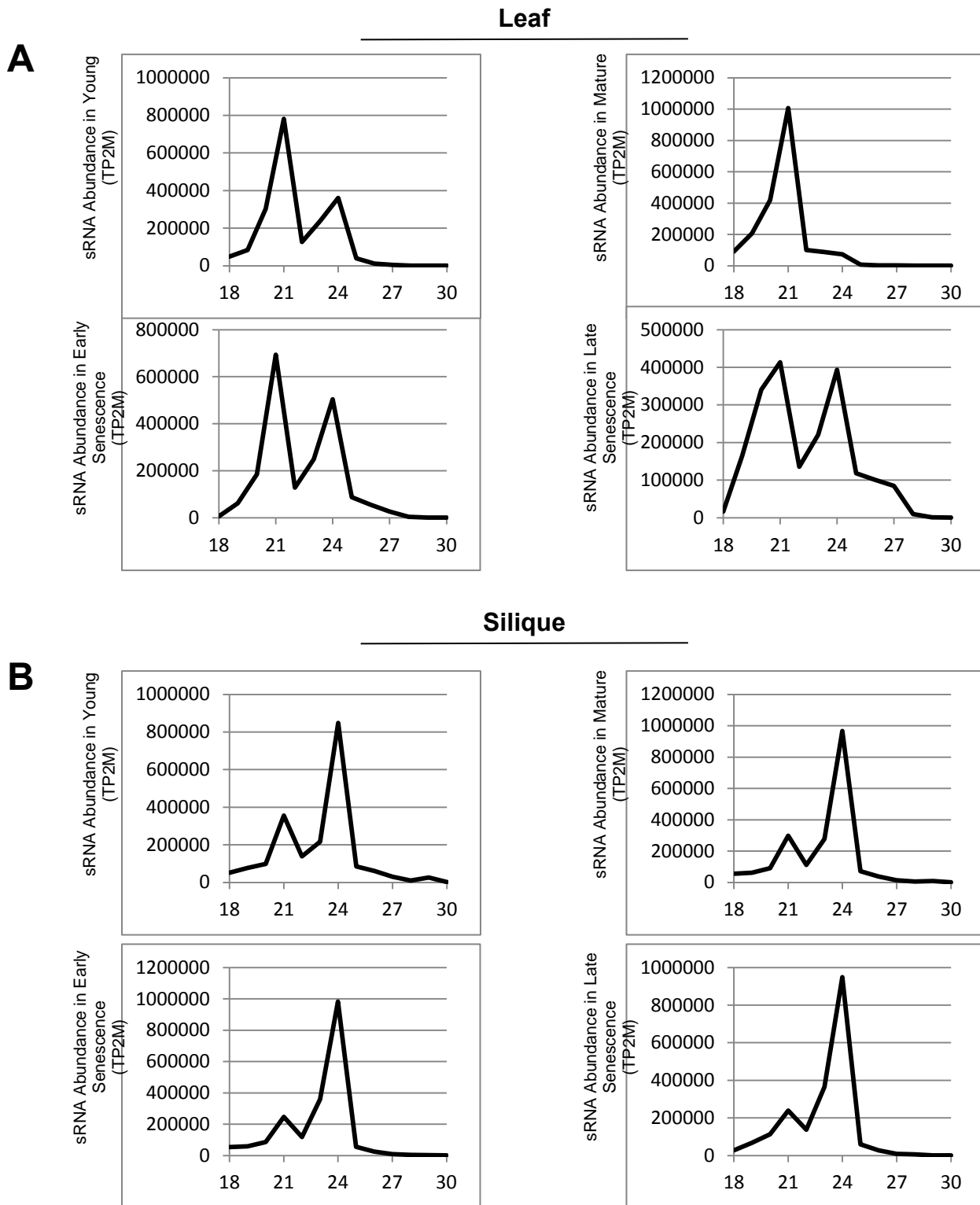


Figure S1. Small RNA size distribution plots.

Genome-matched small RNA data were normalized to transcripts per two million (TP2M) and the total abundance of each size class of small RNA was plotted. (A) Size distributions in young, mature, early senescing and late senescing leaf. (B) Size distributions in young, mature, early senescing and late senescing silique.

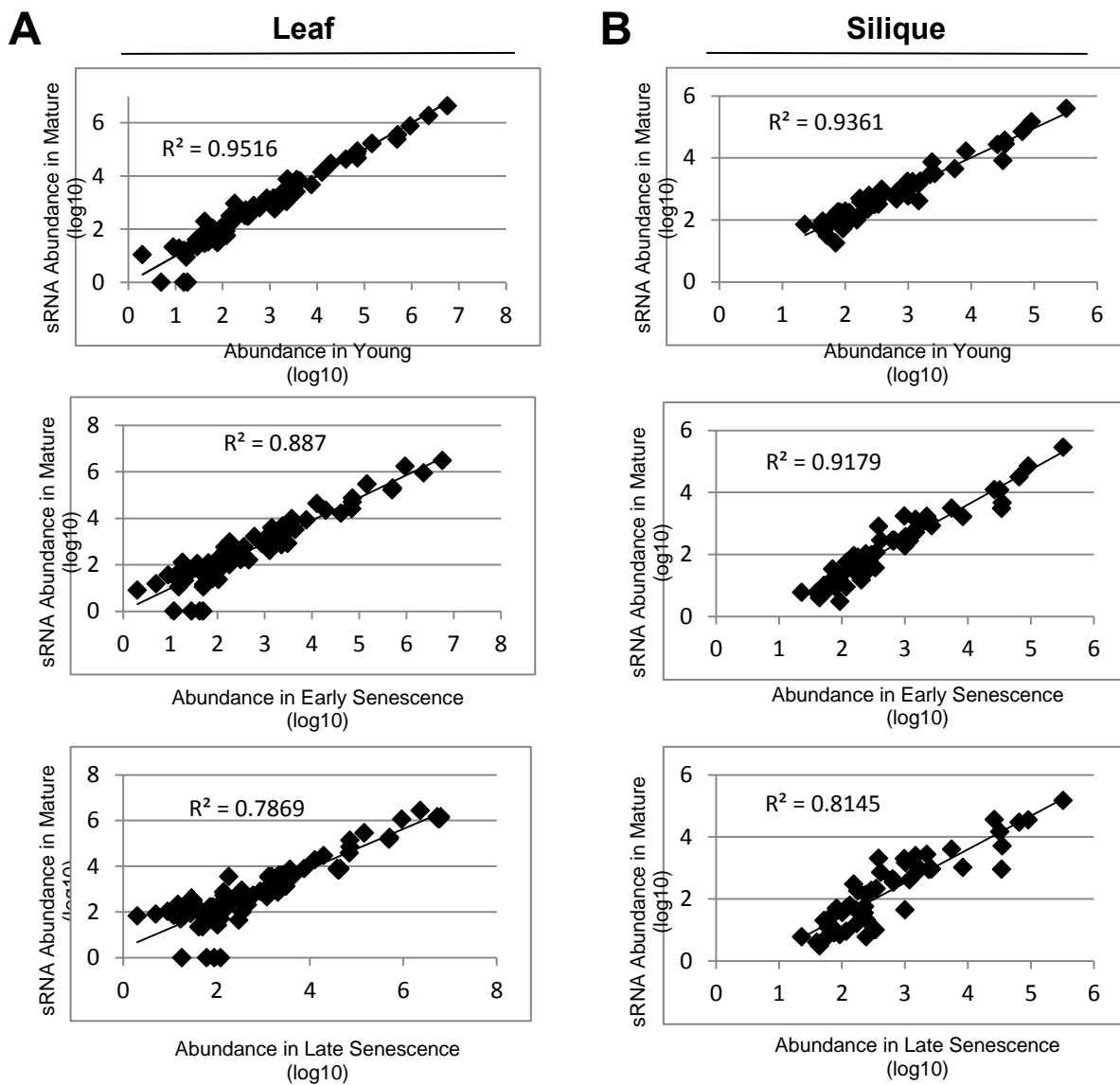


Figure S2. Comparison of miRNA abundance between mature and other stages

miRNA abundance comparison between mature and other stages. Correlation coefficients for each comparison are also shown. (A) Mature leaves compared to young leaves, early senescing leaves and late senescing leaves. (B) Mature siliques compared to young siliques, early senescing siliques and late senescing siliques.