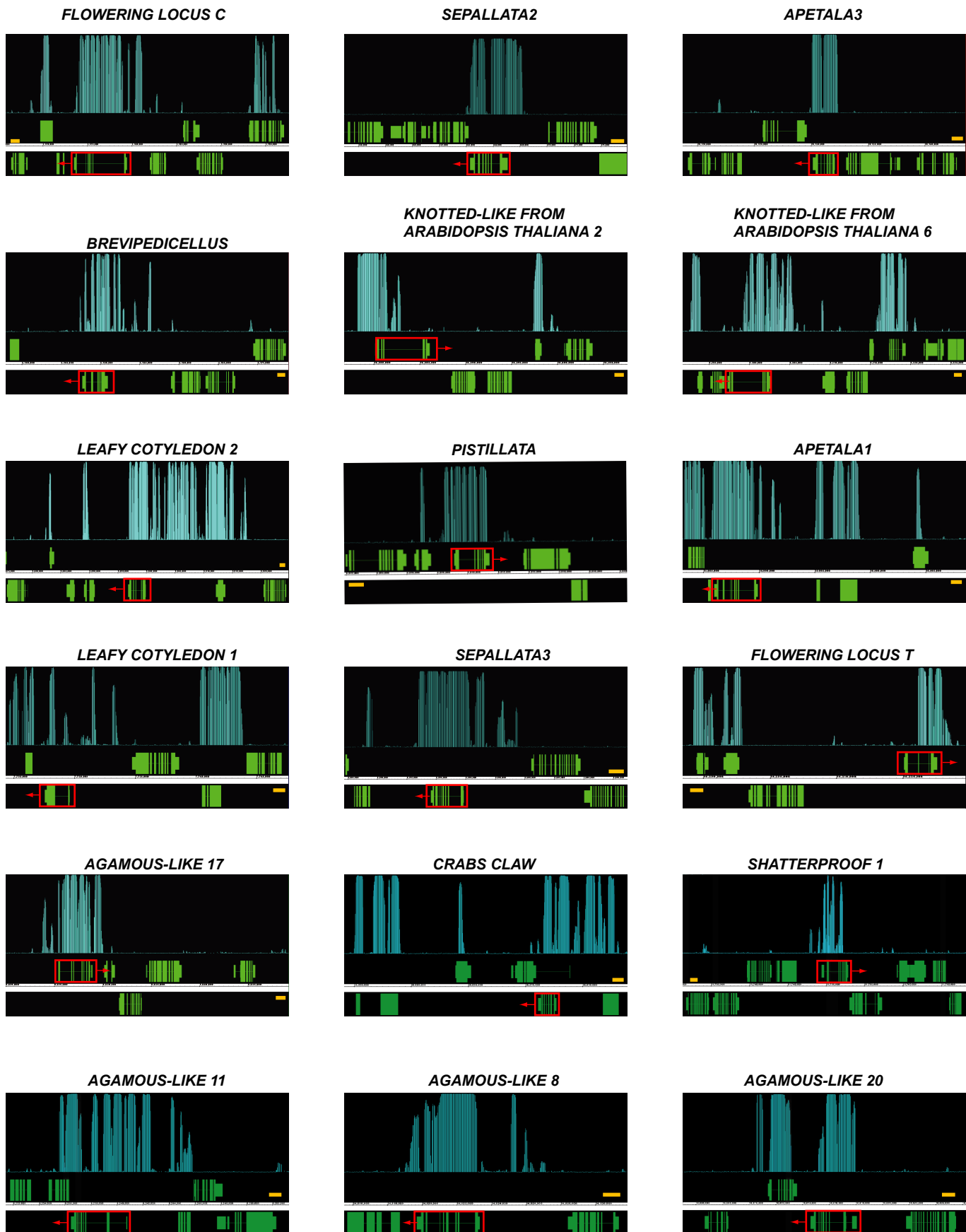
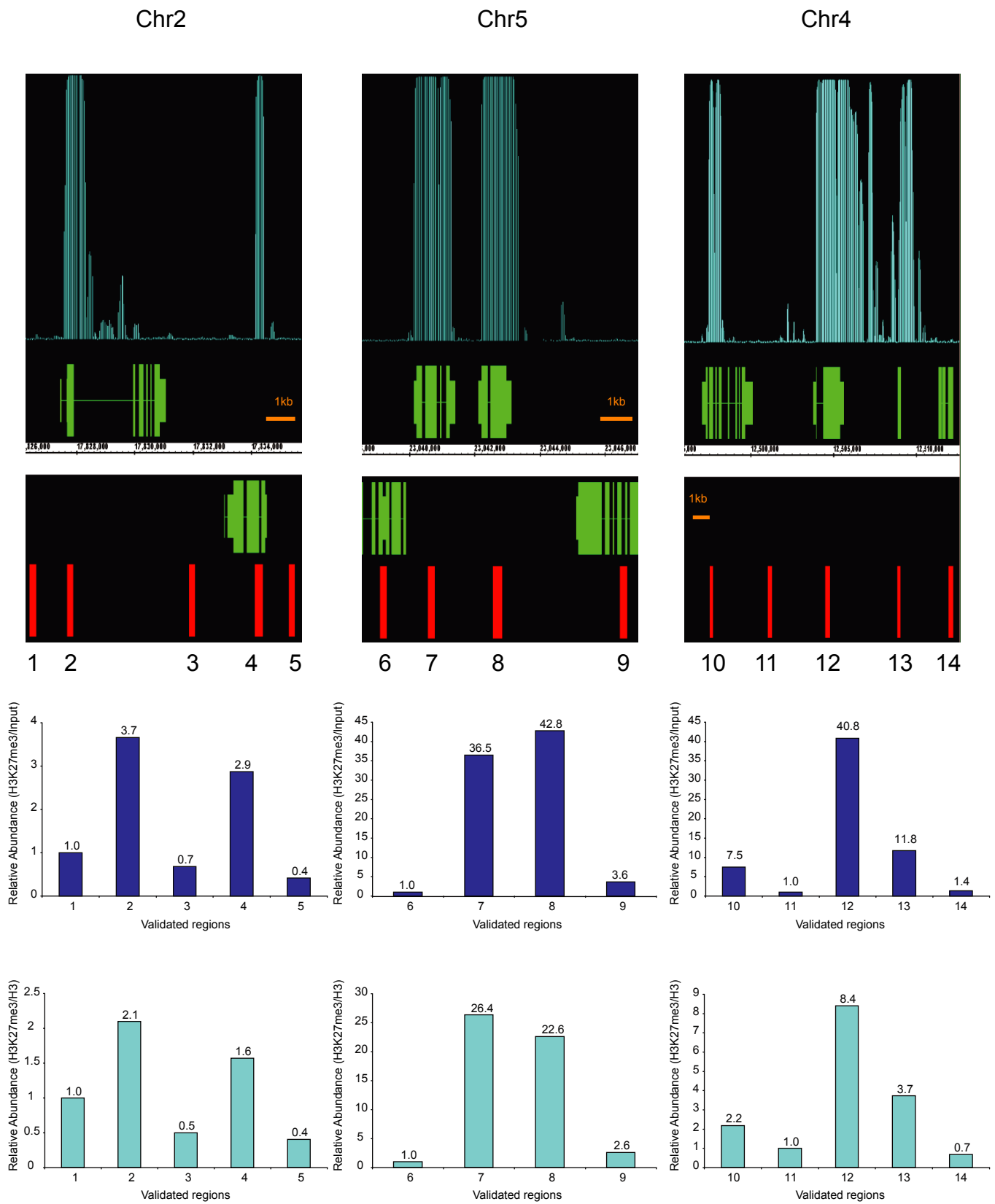
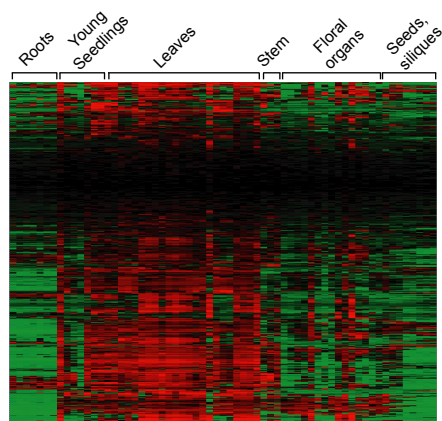




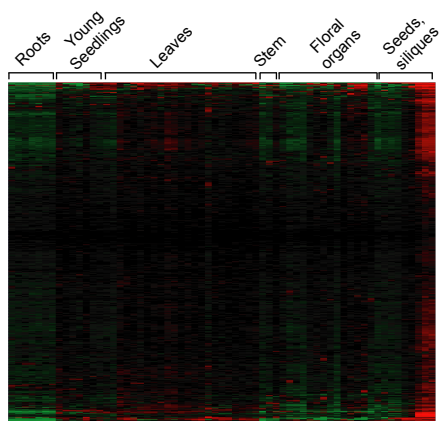
Supplemental Figure 1



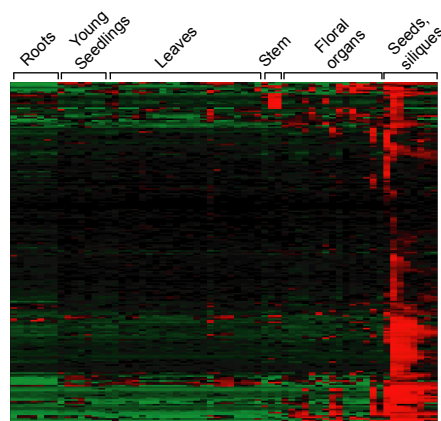
Supplemental Figure 2



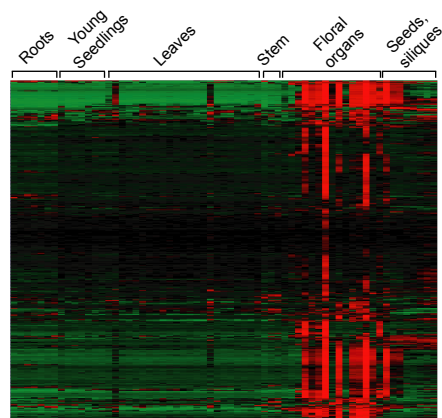
GO Term	% in Genome	% in Cluster	p-value	definition
GO:0006952	1.9%	8.9%	10^{-30}	defense response
GO:0016020	23.5%	38.3%	10^{-30}	membrane
GO:0012505	14.6%	25.6%	$10^{-10.9}$	endomembrane system
GO:0050896	8.9%	20.2%	$10^{-10.5}$	response to stimulus
GO:0004888	0.7%	3.7%	$10^{-8.6}$	transmembrane receptor activity
GO:0003700	6.3%	13.2%	$10^{-8.3}$	transcription factor activity



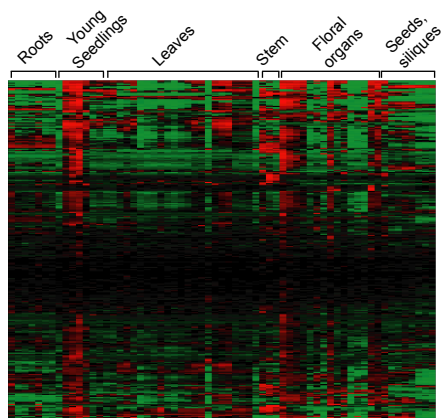
GO Term	% in Genome	% in Cluster	p-value	definition
GO:0006350	6.0%	11.6%	$10^{-6.6}$	transcription
GO:0045449	5.7%	10.9%	$10^{-6.1}$	regulation of transcription
GO:0019219	5.8%	10.9%	$10^{-6.0}$	regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolism
GO:0031323	5.9%	11.1%	$10^{-5.9}$	regulation of cellular metabolism
GO:0019222	6.0%	11.1%	$10^{-5.7}$	regulation of metabolism
GO:0006355	3.5%	7.5%	$10^{-5.6}$	regulation of transcription, DNA-dependent



GO Term	% in Genome	% in Cluster	p-value	definition
GO:0004126	0.0%	2.3%	$10^{-8.0}$	cytidine deaminase activity
GO:0019005	0.1%	2.8%	$10^{-7.5}$	SCF ubiquitin ligase complex
GO:0031461	0.1%	2.8%	$10^{-7.3}$	cullin-RING ubiquitin ligase complex
GO:0019239	0.1%	2.3%	$10^{-7.3}$	deaminase activity
GO:0030528	6.8%	17.6%	$10^{-7.2}$	transcription regulator activity
GO:0003700	6.3%	16.2%	$10^{-6.7}$	transcription factor activity

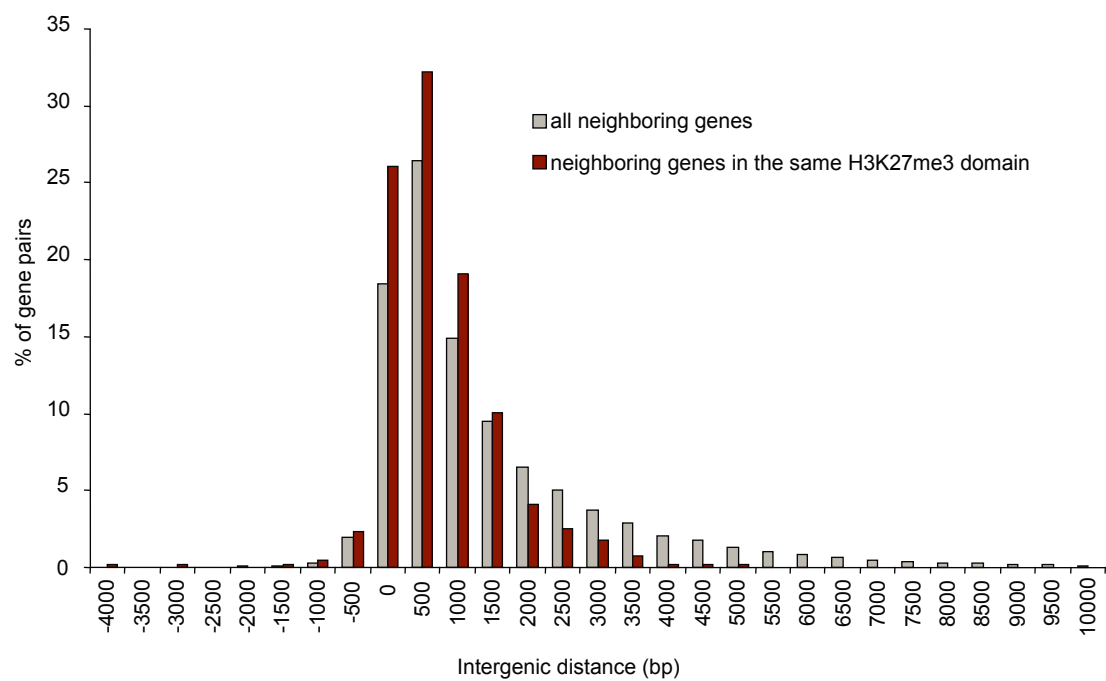


GO Term	% in Genome	% in Cluster	p-value	definition
GO:0012505	14.6%	26.8%	10^{-30}	endomembrane system
GO:0016020	23.5%	39.3%	10^{-30}	membrane
GO:0015385	0.1%	2.0%	$10^{-8.0}$	sodium:hydrogen antiporter activity
GO:0004650	0.3%	2.5%	$10^{-7.7}$	polygalacturonase activity
GO:0004553	1.4%	5.5%	$10^{-7.7}$	hydrolase activity, hydrolyzing O-glycosyl compounds
GO:0005451	0.2%	2.0%	$10^{-7.0}$	monovalent cation:proton antiporter activity

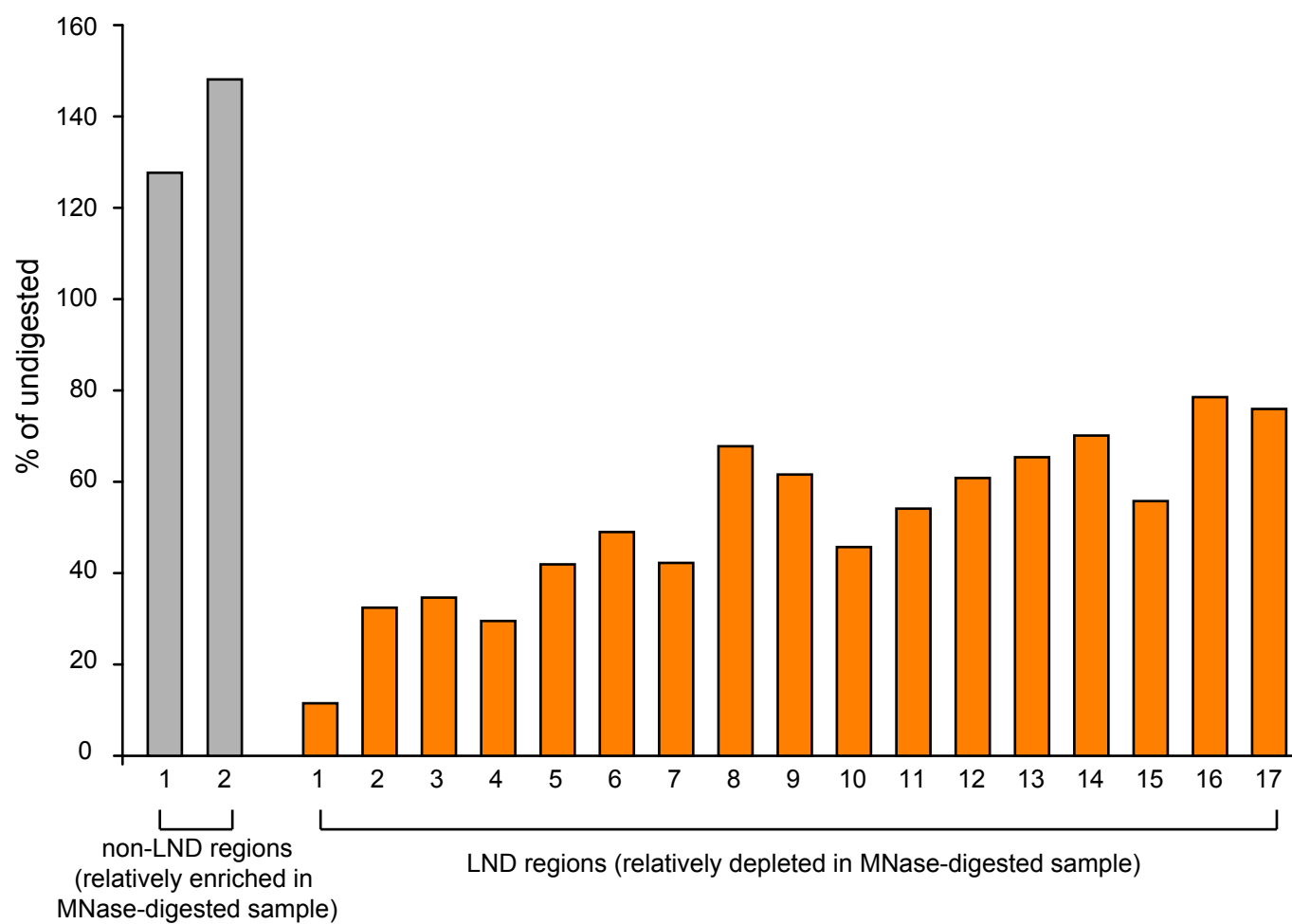


GO Term	% in Genome	% in Cluster	p-value	definition
GO:0003677	8.1%	23.5%	10^{-30}	DNA binding
GO:0003700	6.3%	21.9%	10^{-30}	transcription factor activity
GO:0006350	6.0%	16.8%	10^{-30}	transcription
GO:0007389	0.2%	3.9%	10^{-30}	pattern specification
GO:0003676	10.8%	25.8%	$10^{-10.9}$	nucleic acid binding
GO:0030528	6.8%	23.2%	$10^{-10.8}$	transcription regulator activity

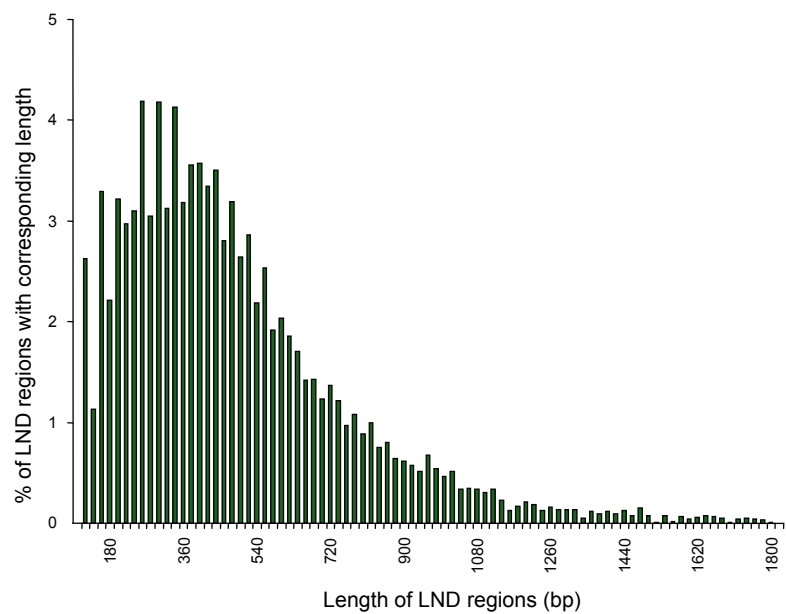
Supplemental Figure 3



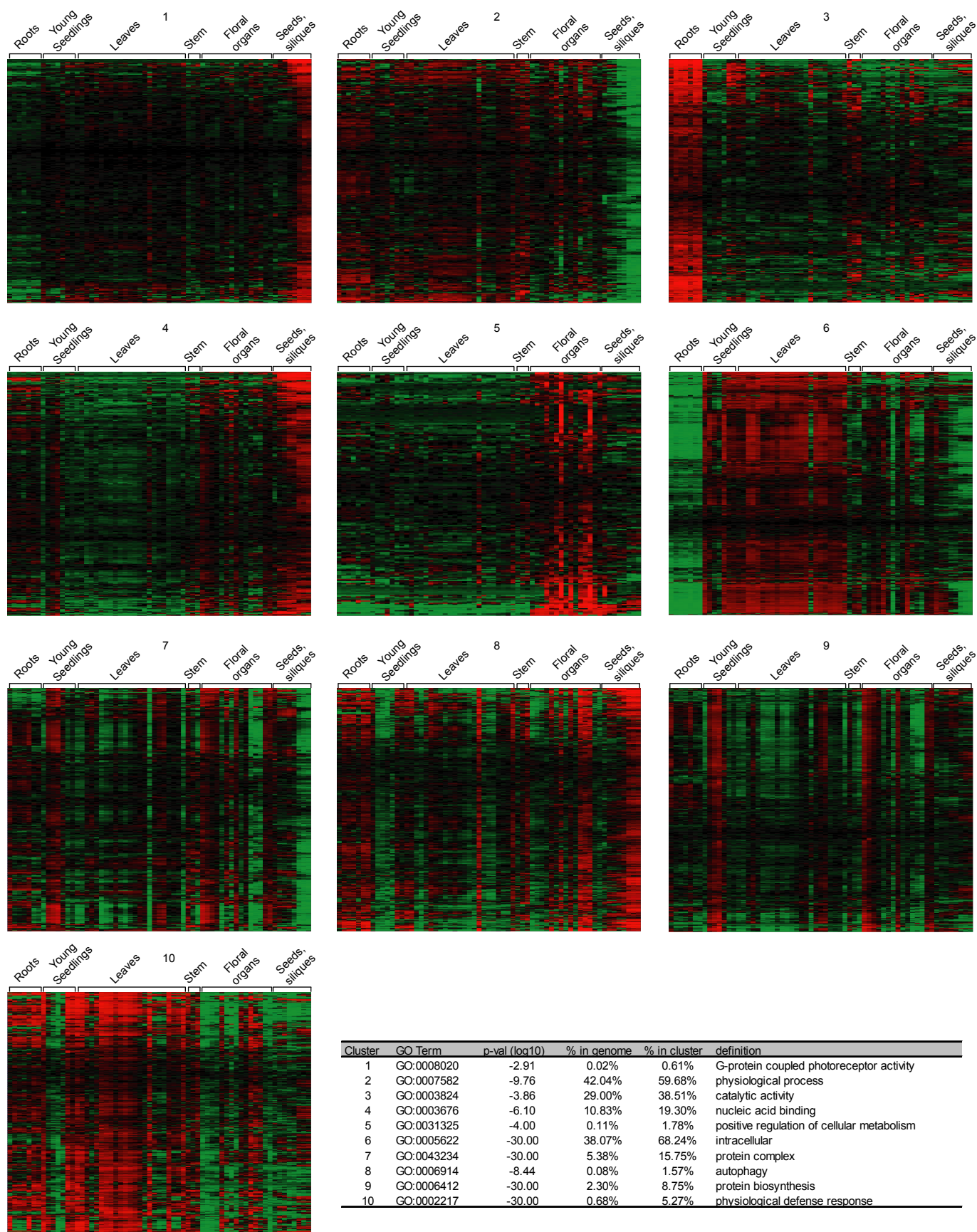
Supplemental Figure 4



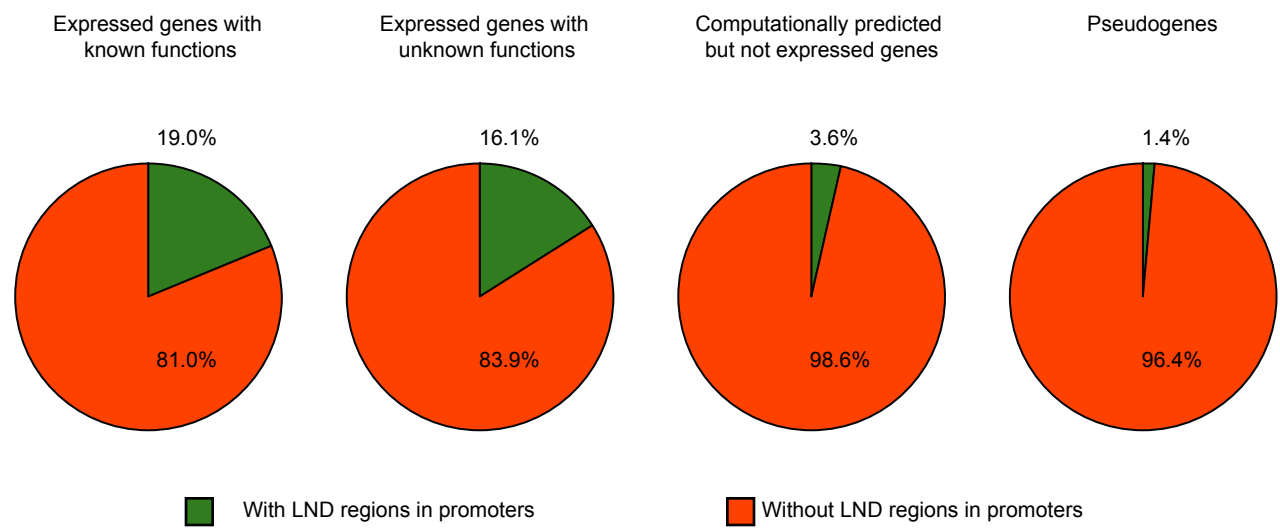
Supplemental Figure 5



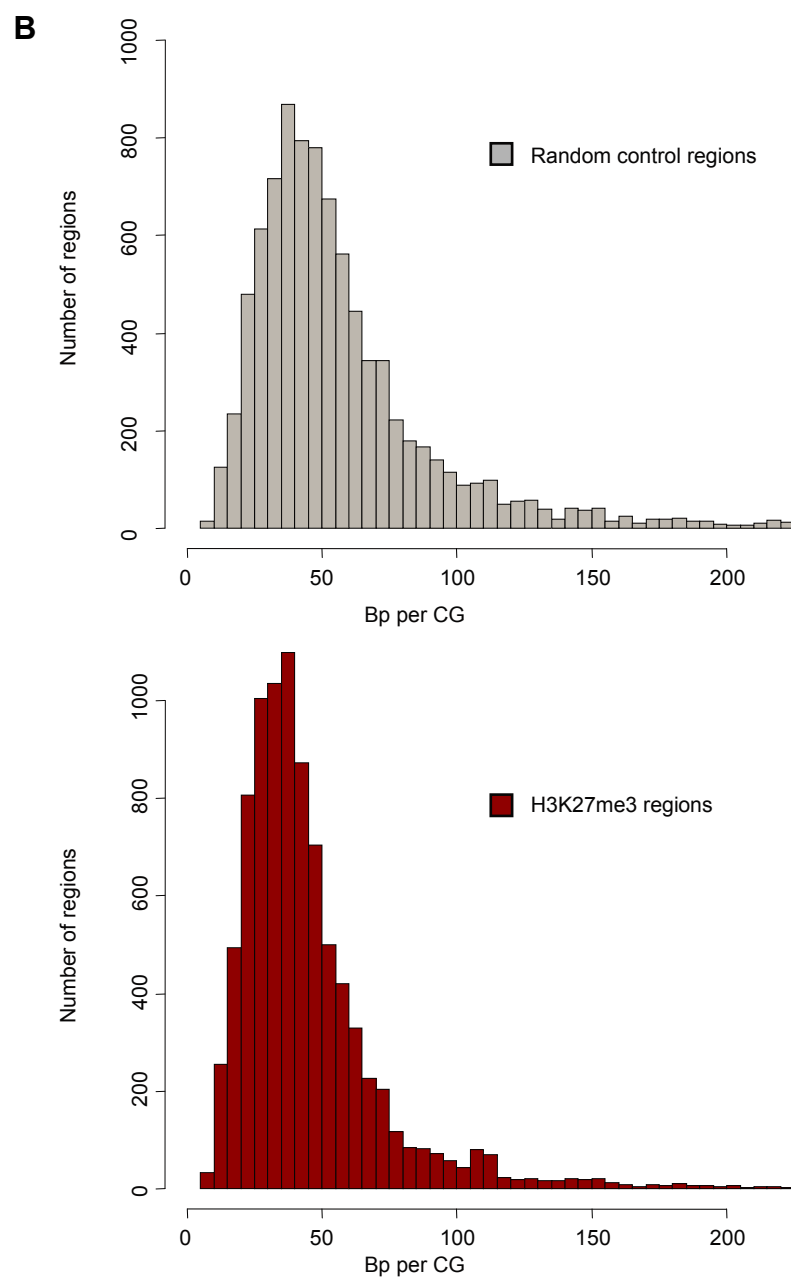
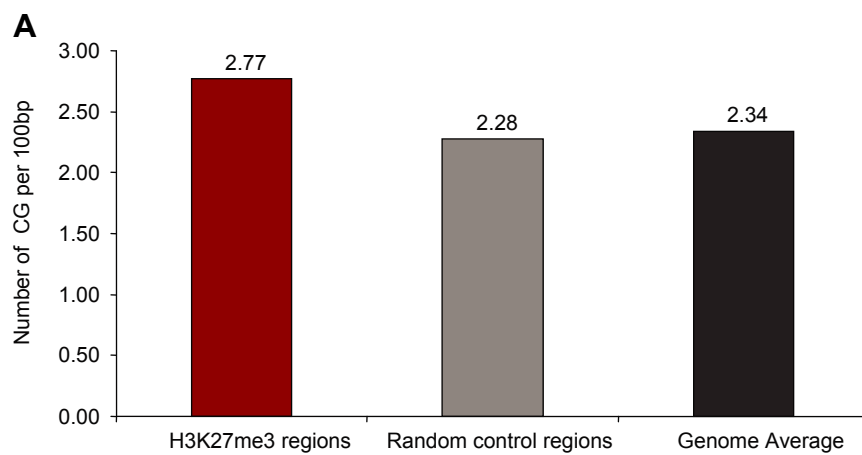
Supplemental Figure 6



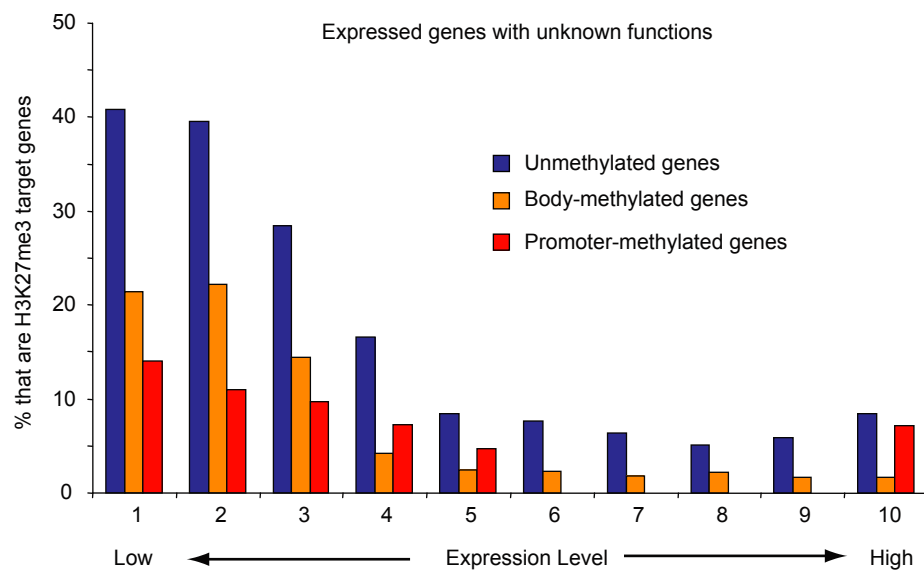
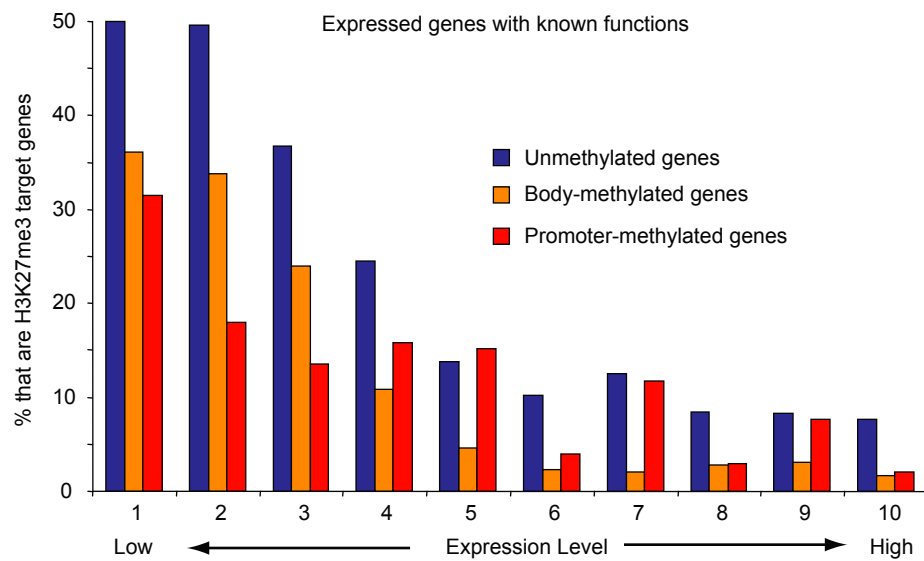
Supplemental Figure 7



Supplemental Figure 8



Supplemental Figure 9



Supplemental Figure 10

Table S1. PCR primers used for validation of H3K27me3 results

Region in Figure S2	Chromosome	From	To	Forward Primer	Reverse Primer
1	2	17826400	17826638	GGCTCTCTGCTTTCATTTACTTT	ATTTGGTTGTGTTTCAGAAATGG
2	2	17827684	17827888	GGGTGGTGCGAGTAATGAAG	GTAGAGACGGCCTCGAGTGG
3	2	17831870	17832091	CCTCAATTCCATTGTCAGCA	TGCCAGAACACATGTAGCAG
4	2	17834158	17834425	TGTGTGATGGAGTGGAAGGA	TCCGTAAGGTTTGAGGATGC
5	2	17835312	17835518	TTGCTATTTGATCTGGTATTACAC	TCTCTAAGCAAAAAGTTTGATCTCATC
6	5	23039110	23039321	GGAATCAGAAATTCCAACAGG	TTGATGCTCTTCGTGCACTT
7	5	23040576	23040783	ACGAACCAATGCTGATGTGA	ACGCCAAAGTTCGACTTGAT
8	5	23042577	23042857	AAGCAATGCCGTATTGATCC	GCTGCACTTCAACAGCTTCA
9	5	23046464	23046679	TTTCACGCCAAGGGCTATAC	GATCCTGGAACCTCCATCAA
10	4	12497529	12497728	GAGAGTTCTGGCGAAACGAG	TGAGAAGGTTAAGAGGAAGATCAAG
11	4	12501040	12501280	GCTGCTTATTGGTTGGTCGT	GGTGGGTTCAATGTTTCGAT
12	4	12504534	12504817	AGGCCAGAAAAGGATCAAGC	CTCATGAGGTGGTGGTGATG
13	4	12508868	12509070	ACTTCACGATCCAGGAAACC	CAACCACCGCCTTCTTAAAC
14	4	12512014	12512289	TTGATGGGATGGATTGTGTG	AAGCGTTGACCTCATCAACC

Table S2. PCR primers used for validation of low nucleosome density regions

Region in Figure S5	In the promoter of	Forward Primer	Reverse Primer
1	At5g13100	CCTTTTGTGAGATTCGGATGG	TGTGATCAGAGTAAAGATGGGTTT
2	At5g13230	CAAGTGTTTGGCTTTGGTCA	CAGGATAAACTGTTGGTGTG
3	At4g27260	TTGTTATGGACGGACACACC	AATACGCAAATCATTCTCCA
4	At5g14210	GCCCTCTTTATGCCACAAGT	CCCAACCATATAATAGCATTTCTAA
5	At2g15520	AAAGACAACTGTCACCGTAAGAA	TCGACGTCAACTGCTAACGA
6	At5g10460	TGTCGTCTGCAAAGGAAAAA	AAAAATTCCTTCTGGACTCACG
7	At4g01330	CGCCCAAACCTTATCCTTTT	AAACCGGTGAACTAATGAATGA
8	At4g00640	TGGAATAATGACTTGGTCACG	ACTCGTACTCGCATGTGGTG
9	At3g07190	CACGCAGTTCCAAATTCCTT	TTCTCTACGGTCTACATGCTAACAA
10	At3g07390	GAGGTAGACGGGCATTGGTA	TTGGTTATGAGCCAAAATTCA
11	At2g24560	ACTCAGAGCCGACATTTGGT	CACGGGTCTGTCTAGTTCTCG
12	At5g14130	TTCATGGCGATCAGTCAAAA	AGTGTCGTAAACACAAAATGGA
13	At1g24120	CCTCGATAAAGCCCAAGAAA	CAACGACGAGGACACTTCAA
14	At1g09780	TGACCATTTGAGATTTAAAAGAACT	TTTCAACTTTCAATATGACGAACC
15	At1g09860	TTCGATTCACACGAGTTTGC	CCGTAAAACCGACTTCAACC
16	At1g09940	GCATATTTTCTTGGCTAAATTGG	GAAAAAGCCCATCAAAGCTG
17	At4g27320	TCCCGTACGTTGAGTTTGACT	GGAATTGACGATGTCGTGTG

Supplemental Data 1. List of H3K27me3 target genes in *Arabidopsis*.

At1g01030, At1g01183, At1g01190, At1g01250, At1g01390, At1g01410, At1g01420, At1g01580, At1g01690, At1g02040, At1g02065, At1g02070, At1g02190, At1g02205, At1g02310, At1g02335, At1g02340, At1g02360, At1g02390, At1g02460, At1g02580, At1g02620, At1g02770, At1g02790, At1g02810, At1g02813, At1g02940, At1g02950, At1g02980, At1g03020, At1g03106, At1g03400, At1g03410, At1g03445, At1g03490, At1g03495, At1g03710, At1g03720, At1g03790, At1g03800, At1g03810, At1g03820, At1g03840, At1g03880, At1g03890, At1g04150, At1g04180, At1g04220, At1g04250, At1g04330, At1g04370, At1g04445, At1g04450, At1g04500, At1g04540, At1g04600, At1g04660, At1g04670, At1g05070, At1g05080, At1g05230, At1g05280, At1g05290, At1g05310, At1g05420, At1g05450, At1g05580, At1g05660, At1g05800, At1g06080, At1g06090, At1g06100, At1g06135, At1g06270, At1g06280, At1g06320, At1g06330, At1g06340, At1g06350, At1g06360, At1g06800, At1g06810, At1g06980, At1g06990, At1g07000, At1g07320, At1g07430, At1g07640, At1g07645, At1g07720, At1g07725, At1g08080, At1g08090, At1g08100, At1g08135, At1g08140, At1g08150, At1g08160, At1g08290, At1g08320, At1g08430, At1g08440, At1g08465, At1g08670, At1g08860, At1g08990, At1g09030, At1g09090, At1g09240, At1g09280, At1g09350, At1g09360, At1g09380, At1g09480, At1g09483, At1g09486, At1g09500, At1g09550, At1g09665, At1g09890, At1g09930, At1g09932, At1g09935, At1g09960, At1g10010, At1g10220, At1g10240, At1g10250, At1g10260, At1g10380, At1g10385, At1g10480, At1g10490, At1g10585, At1g10590, At1g10620, At1g10670, At1g10880, At1g11080, At1g11150, At1g11230, At1g11250, At1g11370, At1g11460, At1g11470, At1g11545, At1g11580, At1g11600, At1g11610, At1g11670, At1g11700, At1g11740, At1g11765, At1g11770, At1g11806, At1g11850, At1g11920, At1g11980, At1g12010, At1g12030, At1g12064, At1g12070, At1g12100, At1g12110, At1g12170, At1g12180, At1g12190, At1g12200, At1g12260, At1g12560, At1g12570, At1g12630, At1g12660, At1g12805, At1g12810, At1g12950, At1g12960, At1g12980, At1g13200, At1g13290, At1g13300, At1g13400, At1g13420, At1g13430, At1g13605, At1g13609, At1g13610, At1g13620, At1g13670, At1g13710, At1g13810, At1g13820, At1g14040, At1g14110, At1g14120, At1g14220, At1g14240, At1g14250, At1g14450, At1g14540, At1g14550, At1g14580, At1g14600, At1g14700, At1g14760, At1g14880, At1g14930, At1g14940, At1g14950, At1g14960, At1g15140, At1g15310, At1g15320, At1g15330, At1g15360, At1g15540, At1g15590, At1g15620, At1g15630, At1g15640, At1g15680, At1g16390, At1g16400, At1g16410, At1g16530, At1g16900, At1g16910, At1g16930, At1g16940, At1g16950, At1g17000, At1g17010, At1g17200, At1g17310, At1g17420, At1g17700, At1g17710, At1g17770, At1g17800, At1g17950, At1g17960, At1g18100, At1g18140, At1g18220, At1g18230, At1g18410, At1g18570, At1g18710, At1g18760, At1g18770, At1g18780, At1g18810, At1g18860, At1g18940, At1g19060, At1g19230, At1g19250, At1g19390, At1g19415, At1g19420, At1g19560, At1g19610, At1g19620, At1g19640,

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Supplemental Data 2. List of *Arabidopsis* genes with LND regions in their promoters (LND promoter genes).

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