Supplementary Data 1. Table of all Minimal Synthetic Promoters (MinSyns) tested in this study. Sequence-variants of cis-regulatory elements (CREs) predicted to bind the same class of transcription factors (TFs) are identified by a subscript numerator (e.g. 3 x bHLH$_1$ and 3 x bHLH$_2$). Some CREs consist of multiple, overlapping TF binding sites indicated by a "+" followed by a list of all TFs predicted to bind to that CRE in parentheses (e.g. C2C2dof+$_2$(C2C2dof+MADS+Orphan+REM). Multiple CREs within in the same MinSyn are separated by "/". Asterisks (*) indicate that the MinSyn sequence is spilt into multiple Level 0 plasmids (e.g. distal, proximal and core regions), which are co-assembled into the expression construct.

Name	CREs in Var region	Description	Length (bp)	Link to sequence	Plasmid Code (Level 0 Phytobrick)	Plasmid Code (Expression cassette)
MinSyn_000	NONE	Control MinSyn (no CREs in variable region)	93	https://benchling.com/s/seq-0qsQE70PiNhTiNi5bHiB	pEPYC0CM0035	pEPYC1CB0007
MinSyn_001	3 x bHLH$_1$	three copies of a single CRE	107	https://benchling.com/s/seq-wZFNbyhVnAZN2L4t976N	pEPYC0CM0366	pEPYC1CB0426
MinSyn_002	3 x bZIP	three copies of a single CRE	116	https://benchling.com/s/seq-1EFNTdKRRpjTkhYw2sDh	pEPYC0CM0367	pEPYC1CB0427
MinSyn_003	3 x AP2+$_1$ (TCP)	three copies of a single CRE	150	https://benchling.com/s/seq-FgX1DQl9OQ9jr6nHEfuo	pEPYC0CM0368	pEPYC1CB0428
MinSyn_004	3 x C2C2dof+$_2$ (C2C2dof+MADS+Orphan+REM)	three copies of a single CRE	161	https://benchling.com/s/seq-Ie8CjiZ1fgHjECHX2DEb	pEPYC0CM0379	pEPYC1CB0439
MinSyn_005	3 x TCP$_2$	three copies of a single CRE	113	https://benchling.com/s/seq-k6tmMv8g91T31lMmRcyu	pEPYC0CM0380	pEPYC1CB0440
MinSyn_006	3 x MYB+ (MYB+c2c2gata+C3H)	three copies of a single CRE	167	https://benchling.com/s/seq-YiWhJ0E1fSpbn0D6zcfl	pEPYC0CM0381	pEPYC1CB0441
MinSyn_007	3 x C2H2+ (C2H2+C3H+GeBP)	three copies of a single CRE	104	https://benchling.com/s/seq-CqGe4PaJqf5EVxmf63YM	pEPYC0CM0372	pEPYC1CB0432
MinSyn_008	3 x C2C2dof+$_1$ (C2C2dof+TCP+NAC)	three copies of a single CRE	119	https://benchling.com/s/seq-Gu0h6lV0fgko9wq4Ooic	pEPYC0CM0373	pEPYC1CB0433
MinSyn_009	3 x RWPRK$_1$	three copies of a single CRE	119	https://benchling.com/s/seq-4DiYhtKMS4jTrO9z8O4t	pEPYC0CM0374	pEPYC1CB0434
MinSyn_010	3 x bHLH$_2$	three copies of a single CRE	113	https://benchling.com/s/seq-F3OqlBKFww0p5Ue40ZF1	pEPYC0CM0385	pEPYC1CB0445
MinSyn_011	3 x bHLH+	three copies of a single CRE	158	https://benchling.com/s/seq-Lf2OvoC3FHuWrlDtdO3z	pEPYC0CM0386	pEPYC1CB0446
MinSyn_012	3 x WRKY+ (C2C2dof+WRKY+ABI3VP1+RWPRK+CPP+C2H2+Orphan+REM+ARID)	three copies of a single CRE	182	https://benchling.com/s/seq-PSxlZv6z9gCLbq50TCnl	pEPYC0CM0387	pEPYC1CB0447
MinSyn_013	3 x C2H2	three copies of a single CRE	107	https://benchling.com/s/seq-9Qmk9BuaKbdFtHq2BtW6	pEPYC0CM0390	pEPYC1CB0450
MinSyn_014	3 x Homeobox	three copies of a single CRE	113	https://benchling.com/s/seq-wHkZrqd5FzLVbSi82twd	pEPYC0CM0391	pEPYC1CB0451
MinSyn_015	3 x G2like+ (G2like+ABI3VP1+NAC)	three copies of a single CRE	116	https://benchling.com/s/seq-de11VZwrJhuE9NySaMs7	pEPYC0CM0392	pEPYC1CB0452
MinSyn_016	3 x RWPRK$_2$	three copies of a single CRE	131	https://benchling.com/s/seq-OGYnTcMdmkvb2WEWlhSq	pEPYC0CM0375	pEPYC1CB0435
MinSyn_017	3 x WRKY	three copies of a single CRE	122	https://benchling.com/s/seq-Ptw5qtT6l7qAcuVQWg7q	pEPYC0CM0376	pEPYC1CB0436
MinSyn_018	3 x DBP	three copies of a single CRE	119	https://benchling.com/s/seq-PSPzNNkut5USu9SK6J0O	pEPYC0CM0377	pEPYC1CB0437
MinSyn_019	3 x MADS+$_2$ (MADS+C2C2gata)	three copies of a single CRE	146	https://benchling.com/s/seq-B9obPiQwht5tHuhS89yN	pEPYC0CM0382	pEPYC1CB0442
MinSyn_020	3 x TCP$_3$	three copies of a single CRE	119	https://benchling.com/s/seq-V34zUQX5ySxNzGN0qLOb	pEPYC0CM0383	pEPYC1CB0443
MinSyn_021	3 x G2like	three copies of a single CRE	113	https://benchling.com/s/seq-N6u8ZjGf94wXLTeNUbyn	pEPYC0CM0384	pEPYC1CB0444
MinSyn_022	3 x AP2+ (AP2+LOBAS2)	three copies of a single CRE	152	https://benchling.com/s/seq-IbRApeJR28SUd6pQg99w	pEPYC0CM0393	pEPYC1CB0453
MinSyn_023	3 x C-CRE	three copies of a single CRE	140	https://benchling.com/s/seq-PH818sWZDkwfe5LkP1MS	pEPYC0CM0365	pEPYC1CB0425
MinSyn_024	bHLH$_1$/bZIP/AP2+$_1$	three different CREs	122	https://benchling.com/s/seq-Pdin3HP2AviGfrRDnB60	pEPYC0CM0431	pEPYC1CB0493
MinSyn_026	C2C2dof+$_2$/TCP$_2$/MYB+	three different CREs	144	https://benchling.com/s/seq-HT8QBHITlc0aUofyzNtH	pEPYC0CM0435	pEPYC1CB0497
MinSyn_027	C2H2+/C2C2dof+$_1$/RWPRK$_1$	three different CREs	111	https://benchling.com/s/seq-SUOKjZKcdhbo042o130i	pEPYC0CM0433	pEPYC1CB0495
MinSyn_028	bHLH$_2$/bHLH+/WRKY+	three different CREs	148	https://benchling.com/s/seq-3JYJRKIjujcE0QF8fe36	pEPYC0CM0437	pEPYC1CB0499
MinSyn_029	C2H2/Homeobox/G2like+	three different CREs	109	https://benchling.com/s/seq-0tR8wRGTga3dWw2ojdUw	pEPYC0CM0439	pEPYC1CB0501
MinSyn_030	RWPRK$_2$/WRKY+/DBP	three different CREs	121	https://benchling.com/s/seq-QzeRW1REYLnxpLKTQ8K5	pEPYC0CM0434	pEPYC1CB0496
MinSyn_031	MADS+$_2$/TCP$_3$/G2like	three different CREs	149	https://benchling.com/s/seq-cjnH9arWrL87HofRr8p2	pEPYC0CM0436	pEPYC1CB0498
MinSyn_032	Homeobox/G2like$_2$/AP2+$_2$	three different CREs	122	https://benchling.com/s/seq-qOrS1fNh1I3sknYW7YZE	pEPYC0CM0440	pEPYC1CB0502
MinSyn_033	1 x C-CRE	single copy of the C-CRE	96	https://benchling.com/s/seq-e1nuSZ2sZzYsudP557Jh	pEPYC0CM0041	pEPYC1CB0079
MinSyn_034	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	three different CREs + C-CRE	199	https://benchling.com/s/seq-esQkM6GttTF3qfAQAQND	pEPYC0CM0310	pEPYC1CB0352
MinSyn_035	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	25 bp between CREs and TATA	224	https://benchling.com/s/seq-AvdnsDcbLsTGoydoVsOf	pEPYC0CM0312	pEPYC1CB0354
MinSyn_036	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	50 bp between CREs and TATA	249	https://benchling.com/s/seq-i6vT6WeKtnr5SauKJDR2	pEPYC0CM0313	pEPYC1CB0355
MinSyn_037	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	75 bp between CREs and TATA	274	https://benchling.com/s/seq-gskfrYVYdC3Fi8vEOL8z	pEPYC0CM0314	pEPYC1CB0356
MinSyn_038	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	three different CREs + C-CRE	232	https://benchling.com/s/seq-apzE3SCGRK74bHdhJlvS	pEPYC0CM0225	pEPYC1CB0269
MinSyn_039	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	25 bp between CREs and TATA	241	https://benchling.com/s/seq-Eu3N4i4XhQDJbSHC3Ovb	pEPYC0CM0209	pEPYC1CB0253
MinSyn_040	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	50 bp between CREs and TATA	266	https://benchling.com/s/seq-3ghoZvi65XsWYie06FCb	pEPYC0CM0210	pEPYC1CB0254
MinSyn_041	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	75 bp between CREs and TATA	291	https://benchling.com/s/seq-LGRCpftG1qJMzZj67PFb	pEPYC0CM0211	pEPYC1CB0255
MinSyn_042	C-CRE/Homeobox/C2H2	two different CREs + C-CRE	158	https://benchling.com/s/seq-Mjgku0iWBVrSI1v132qv	pEPYC0CM0311	pEPYC1CB0353
MinSyn_043	C-CRE/Homeobox/C2H2	25 bp between CREs and TATA	182	https://benchling.com/s/seq-llYzHiCBO6XzLOE1zowj	pEPYC0CM0212	pEPYC1CB0256
MinSyn_044	C-CRE/Homeobox/C2H2	50 bp between CREs and TATA	207	https://benchling.com/s/seq-qu6hTPHmly538zhUWBUe	pEPYC0CM0213	pEPYC1CB0257
MinSyn_045	C-CRE/Homeobox/C2H2	75 bp between CREs and TATA	232	https://benchling.com/s/seq-apzE3SCGRK74bHdhJlvS	pEPYC0CM0214	pEPYC1CB0258
MinSyn_046	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	three different CREs + C-CRE	147	https://benchling.com/s/seq-TBv49IqInULaRzZrA6z7	pEPYC0CM0182	pEPYC1CB0187
MinSyn_048	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	Random flanking sequence between CREs	203	https://benchling.com/s/seq-m70LnNmMxibPARIVXdTq	pEPYC0CM0395	pEPYC1CB0455
MinSyn_049	AP2+$_1$/bZIP/bHLH$_1$/C-CRE	Random flanking sequence between CREs	203	https://benchling.com/s/seq-hKF7cEnrzRI7ZvmT8TQH	pEPYC0CM0396	pEPYC1CB0456
MinSyn_050	bZIP/C-CRE/bHLH$_1$/AP2+$_1$	three different CREs + C-CRE	143	https://benchling.com/s/seq-JYXCbEXuLujUG4vRS6Sa	pEPYC0CM0451	pEPYC1CB0509
MinSyn_051	bHLH$_1$/AP2+$_1$/C-CRE/bZIP	three different CREs + C-CRE	143	https://benchling.com/s/seq-4ysOthO8IwMi4Gza4KvA	pEPYC0CM0452	pEPYC1CB0510
MinSyn_052	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	three different CREs + C-CRE	169	https://benchling.com/s/seq-84vUPFSvAkNf4HlawIf2	pEPYC0CM0183	pEPYC1CB0188
MinSyn_054	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	Random flanking sequence between CREs	226	https://benchling.com/s/seq-16dbTNGncrGBQ98PC2fq	pEPYC0CM0397	pEPYC1CB0457
MinSyn_055	MYB+/C2C2dof+$_2$/TCP$_2$/C-CRE	Random flanking sequence between CREs	226	https://benchling.com/s/seq-SLE1so0KdCvy4Ceg2GoO	pEPYC0CM0398	pEPYC1CB0458
MinSyn_056	TCP$_2$/MYB+/C-CRE/C2C2dof+$_2$	three different CREs + C-CRE	166	https://benchling.com/s/seq-p5YhEx6oyxBxS2jEiHpq	pEPYC0CM0453	pEPYC1CB0511
MinSyn_057	C2C2dof+$_2$/TCP$_2$/MYB+/C-CRE	three different CREs + C-CRE	166	https://benchling.com/s/seq-cTjP9K65UEBrXAVDv6pp	pEPYC0CM0454	pEPYC1CB0512
MinSyn_058	C-CRE/Homeobox/C2H2	two different CREs + C-CRE	120	https://benchling.com/s/seq-QSCATVwH0gJ3UiGp2JCX	pEPYC0CM0184	pEPYC1CB0189
MinSyn_060	C-CRE/Homeobox/C2H2	Random flanking sequence between CREs	159	https://benchling.com/s/seq-mGTHb9piclAMIRJRPBpW	pEPYC0CM0401	pEPYC1CB0461
MinSyn_061	C-CRE/Homeobox/C2H2	Random flanking sequence between CREs	159	https://benchling.com/s/seq-ojbsHEj0CNtVv71B8JPE	pEPYC0CM0402	pEPYC1CB0462
MinSyn_062	C2H2/Homeobox/C-CRE	two different CREs + C-CRE	117	https://benchling.com/s/seq-i7GRR4HRQxNjR00gv1Ty	pEPYC0CM0455	pEPYC1CB0513
MinSyn_063	Homeobox/C-CRE/C2H2	two different CREs + C-CRE	117	https://benchling.com/s/seq-qyco6lU97tfWXfMmb9Gp	pEPYC0CM0456	pEPYC1CB0514
MinSyn_064	1 x TALE AvrXa27 binding site	Binding site for synthetic TF	88	https://benchling.com/s/seq-MkgA2YoAajmr7xhfPyBJ	pEPAS0CMR0015	pEPKKα2KN0091/ pEPYCα2rKN0010
MinSyn_065	2 x TALE AvrXa27 binding sites	Binding site for synthetic TF	126	https://benchling.com/s/seq-slokOMWiDRAxfmqqNsjN	pEPAS0CMR0016	pEPKKα2KN0092
MinSyn_066	4 x TALE AvrXa27 binding sites	Binding site for synthetic TF	202	https://benchling.com/s/seq-gDZylOe6miWzsyrgor0n	pEPKK0CM0107	pEPKKα2KN0093/ pEPYCα2rKN0009/ pEPYCα1KN0008
MinSyn_067	2 x ϕC3 binding sites	Binding site for synthetic TF	242	https://benchling.com/s/seq-fgzjQewCH5vr3GfCEkiG	pEPKK0CM0065	pEPKKα2KN0100
MinSyn_068	4 x ϕC3 binding sites	Binding site for synthetic TF	360	https://benchling.com/s/seq-t0a3QQRnQ7uywEow0mdL https://benchling.com/s/seq-JioHeeBtqPHTH6h1YVs4	pEPKK0CM0062 + pEPKK0CM0111*	pEPKKα2KN0101

Name	CREs in Var region	Description	Length (bp)	Link to sequence	Plasmid Code (Level 0 Phytobrick)	Plasmid Code (Expression cassette)
MinSyn_069	6 x ϕC3 binding sites	Binding site for synthetic TF	478	https://benchling.com/s/seq-NpXSAnIIWwDqevLWFfSt https://benchling.com/s/seq-aoVmB0iw0bGZJpfb4zu4 https://benchling.com/s/seq-JioHeeBtqPHTH6h1YVs4	pEPKK0cm0063 + pEPKK0CM0064 + pEPKK0CM0111*	pEPKKα2KN0102/ pEPYCα1KN0003
MinSyn_101	$bHLH_2$/$bHLH_1$/AP2+$_1$/Homeobox/WRKY	computationally designed	274	https://benchling.com/s/seq-4DGAEuNIAqGYKpgxFpuE	pEPYC0CM0407	pEPYC1CB0467
MinSyn_102	C2C2dof+/AP2+$_1$/WRKY	computationally designed	208	https://benchling.com/s/seq-8fiNn13Fn41xS0R1NwAa	pEPYC0CM0408	pEPYC1CB0468
MinSyn_103	$bHLH_1$/MYB+	computationally designed	149	https://benchling.com/s/seq-viwbvfSENd3wupQtCuh8	pEPYC0CM0409	pEPYC1CB0469
MinSyn_104	$RWPRK_1$/CCAAT+/HSF+/MADS+/AP2+$_2$/G2like/DBP/C-CRE/MYB+	computationally designed	417	https://benchling.com/s/seq-UkP4FqWF5RxWyr0d4wNf	pEPYC0CM0410	pEPYC1CB0470
MinSyn_105	bZIP/C-CRE/Homeobox/MYB+/C-CRE	computationally designed	272	https://benchling.com/s/seq-OeJ5B32kVlqfCwcM449w	pEPYC0CM0411	pEPYC1CB0471
MinSyn_106	C-CRE/AP2+$_1$/HSF+/C2C2dof+$_2$/CCAAT+/C-CRE	computationally designed	330	https://benchling.com/s/seq-MzLsjqJF4Wk33AQyMV5N	pEPYC0CM0412	pEPYC1CB0472
MinSyn_107	$RWPRK_2$/C-CRE/WRKY/G2like+/C-CRE	computationally designed	247	https://benchling.com/s/seq-kbeGUgNxVrqNfb80nFY2	pEPYC0CM0413	pEPYC1CB0473
MinSyn_108	$bHLH_1$/C2H2/AP2+$_2$/AP2+$_1$/Homeobox/C-CRE	computationally designed	272	https://benchling.com/s/seq-PLJyq4WT8G03wG3gQY8o	pEPYC0CM0414	pEPYC1CB0474/pEPYCα1KN0002/pEPYCα1KN0007
MinSyn_109	$bHLH_1$/C-CRE/MYB+/C-CRE	computationally designed	224	https://benchling.com/s/seq-vH4V5K7vNg2X7tWDlGy4	pEPYC0CM0415	pEPYC1CB0475
MinSyn_110	TCP_2/$RWPRK_1$/$bHLH_1$/MYB+/C-CRE/C-CRE	computationally designed	285	https://benchling.com/s/seq-sX2AR6aULzb2IyuoMLYX	pEPYC0CM0416	pEPYC1CB0476
MinSyn_111	MADS+$_1$/MYB+/C-CRE/WRKY+/MADS+$_2$/C2H2+	computationally designed	261	https://benchling.com/s/seq-pBG4wmcNc3SwSlXKuhWS	pEPYC0CM0417	pEPYC1CB0479
MinSyn_112	TCP_3/C2H2+/Homeobox	computationally designed	143	https://benchling.com/s/seq-VkwMb37FrE9KbWSkpxI5	pEPYC0CM0418	pEPYC1CB0480
MinSyn_113	C-CRE/Homeobox/AP2+$_2$/MADS+$_1$/WRKY/$bHLH_2$	computationally designed	258	https://benchling.com/s/seq-odcECHuFtf3378P8NuD1	pEPYC0CM0419	pEPYC1CB0481
MinSyn_114	C-CRE/C2H2+/G2like/MADS+$_1$/AP2+$_2$/$bHLH_1$/$RWPRK_2$	computationally designed	243	https://benchling.com/s/seq-1plZVxeHhgxrTP8IH7Fz	pEPYC0CM0420	pEPYC1CB0482
MinSyn_115	CCAAT+/C2H2+/DBP	computationally designed	161	https://benchling.com/s/seq-gtv2NB02AKAKqMo9z4M3	pEPYC0CM0421	pEPYC1CB0483
MinSyn_116	$RWPRK_2$/bHLH+/C-CRE/TCP_1/$bHLH_2$/bZIP/$bHLH_1$	computationally designed	262	https://benchling.com/s/seq-NTaiQg01dsWOX8fZ2nik	pEPYC0CM0422	pEPYC1CB0484
MinSyn_117	MADS+$_1$/$bHLH_1$/C2H2+/bHLH+/bZIP/WRKY/G2like+/TCP_3/AP2+$_1$	computationally designed	315	https://benchling.com/s/seq-LPnjtxz4pTd5Clrc5IAC	pEPYC0CM0423	pEPYC1CB0485
MinSyn_118	Homeobox/C-CRE	computationally designed	137	https://benchling.com/s/seq-917cevKHSyFgOWBg3jra	pEPYC0CM0424	pEPYC1CB0486
MinSyn_119	TCP_2/TCP_3/C2H2+/AP2+$_2$/DBP/C2H2/C-CRE	computationally designed	245	https://benchling.com/s/seq-1WZttWPPAJjzSQqTEmkS	pEPYC0CM0425	pEPYC1CB0487
MinSyn_120	C-CRE/HSF+	computationally designed	118	https://benchling.com/s/seq-0ngHrUjGdIIUWOUsjwBz	pEPYC0CM0426	pEPYC1CB0488
MinSyn_121	MADS+$_1$/C2C2dof+$_1$/bHLH+/TCP_1/MADS+$_2$/AP2+$_2$/DBP/C2H2/AP2+$_1$	computationally designed	329	https://benchling.com/s/seq-HFTwco2h8HqVVgcKtsoT	pEPYC0CM0427	pEPYC1CB0489
MinSyn_122	C2H2+/Homeobox/AP2+$_2$/AP2+$_1$/$RWPRK_2$	computationally designed	187	https://benchling.com/s/seq-bnSRl1g6bO8GMnlJlThr	pEPYC0CM0428	pEPYC1CB0490
MinSyn_123	WRKY+/Homeobox/$RWPRK_2$/CCAAT+/C2C2dof+/G2like+/DBP/C-CRE/bZIP	computationally designed	354	https://benchling.com/s/seq-n1wTXpDjDpO1EEmi2CES	pEPYC0CM0429	pEPYC1CB0491
MinSyn_124	MYB+/MADS+$_2$/AP2+$_2$/AP2+$_1$/C-CRE	computationally designed	214	https://benchling.com/s/seq-7EzWHcgHl3lvJTQBBtuB	pEPYC0CM0430	pEPYC1CB0492
MinSyn_285	bZIP/Homeobox/C2C2dof+$_2$/C-CRE	computationally designed	209	https://benchling.com/s/seq-EouughPWqfDqXnyTEFR9	pEPYC0CM0244	pEPYC1CB0286

Supplementary Data 2 List of Plasmids

1. Level 0 Phytobricks

Addgene #	Plasmid code	Part type	Description/Origin	Compatibility with Assembly Systems	Cloning overhang (top strand) 5'	3'	Source of plasmid
68187	GB0036	3UTR+TERM	35s (Cauliflower Mosaic Virus)	MoClo, Loop, GB	GCTT	CGCT	Vazquez-Vilar et al (2017)
-	GB0552	PROM+5UTR	35s (Cauliflower Mosaic Virus)	GB, Loop	GGAG	CCAT	Vazquez-Vilar et al (2017)
154477	pEPYC0CM0071	PROM	35s (Cauliflower Mosaic Virus)	MoClo, Loop, GB	GGAG	TACT	This study
50337	pICH41414	3UTR+TERM	35s (Cauliflower Mosaic Virus)	MoClo, Loop, GB	GCTT	CGCT	Engler et al (2014)
154598	pEPYC0CM0168	PROM	35s (ΔAP2+$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154599	pEPYC0CM0170	PROM	35s(ΔbHLH$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154600	pEPYC0CM0169	PROM	35s(ΔbZIP)	MoClo, Loop, GB	GGAG	TACT	This study
154601	pEPYC0CM0171	PROM	35s(ΔC_CRE)	MoClo, Loop, GB	GGAG	TACT	This study
154485	pEPYC0CM0281	PROM	35s(ΔC2C2dof+$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154486	pEPYC0CM0280	PROM	35s(ΔC2H2+)	MoClo, Loop, GB	GGAG	TACT	This study
154487	pEPYC0CM0285	PROM	35s(ΔDBP)	MoClo, Loop, GB	GGAG	TACT	This study
154488	pEPYC0CM0279	PROM	35s(ΔHSF+)	MoClo, Loop, GB	GGAG	TACT	This study
154489	pEPYC0CM0277	PROM	35s(ΔMADS+$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154490	pEPYC0CM0282	PROM	35s(ΔRWPRK$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154491	pEPYC0CM0283	PROM	35s(ΔRWPRK$_2$)	MoClo, Loop, GB	GGAG	TACT	This study
154492	pEPYC0CM0278	PROM	35s(ΔTCP$_1$)	MoClo, Loop, GB	GGAG	TACT	This study
154493	pEPYC0CM0284	PROM	35s(ΔWRKY)	MoClo, Loop, GB	GGAG	TACT	This study
154479	pEPYC0CM0084	PROM	CaMV35S (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154480	pEPYC0CM0089	PROM	CaMV35S (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154597	pICSL20002	5UTR	CPMV (CowPea Mosaic Virus)	MoClo, Loop, GB	TACT	CCAT	This study
50270	pICSL12006	PROM+5UTR	CsVMV (Cassava Vein Mosaic Virus)	MoClo, Loop, GB	GGAG	AATG	Engler et al (2014)
50308	pICSL50007	CTAG	FLAG tag	MoClo, Loop, GB	TTCG	GCTT	Engler et al (2014)
50338	pICH72400	3UTR+TERM	g7 (Agrobacterium tumefaciens)	MoClo, Loop, GB	GCTT	CGCT	Engler et al (2014)
-	GB0900	NTAG	GAL4 activation domain	MoClo, Loop, GB	CCAT	AATG	Vazquez-Vilar et al (2017)
154593	pEPYC0CM0258	NTAG	HiBit	MoClo, Loop, GB	CCAT	AATG	This study
154594	pEPAS0CM0008	CDS	LucF	MoClo, Loop, GB	AATG	TTCG	This study
154595	pEPYC0CM0133	CDS	LucN	MoClo, Loop, GB	AATG	TTCG	This study
50272	pICH85281	PROM	MAS (Agrobacterium tumefaciens)	MoClo, Loop, GB	GGAG	AATG	Engler et al (2014)
154503	pEPYC0CM0035	PROM	MinSyn_000	MoClo, Loop, GB	GGAG	TACT	This study
154504	pEPYC0CM0366	PROM	MinSyn_001	MoClo, Loop, GB	GGAG	TACT	This study
154505	pEPYC0CM0367	PROM	MinSyn_002	MoClo, Loop, GB	GGAG	TACT	This study
154506	pEPYC0CM0368	PROM	MinSyn_003	MoClo, Loop, GB	GGAG	TACT	This study
154507	pEPYC0CM0379	PROM	MinSyn_004	MoClo, Loop, GB	GGAG	TACT	This study
154508	pEPYC0CM0380	PROM	MinSyn_005	MoClo, Loop, GB	GGAG	TACT	This study
154509	pEPYC0CM0381	PROM	MinSyn_006	MoClo, Loop, GB	GGAG	TACT	This study
154510	pEPYC0CM0372	PROM	MinSyn_007	MoClo, Loop, GB	GGAG	TACT	This study
154511	pEPYC0CM0373	PROM	MinSyn_008	MoClo, Loop, GB	GGAG	TACT	This study
154512	pEPYC0CM0374	PROM	MinSyn_009	MoClo, Loop, GB	GGAG	TACT	This study
154513	pEPYC0CM0385	PROM	MinSyn_010	MoClo, Loop, GB	GGAG	TACT	This study
154514	pEPYC0CM0386	PROM	MinSyn_011	MoClo, Loop, GB	GGAG	TACT	This study
154515	pEPYC0CM0387	PROM	MinSyn_012	MoClo, Loop, GB	GGAG	TACT	This study
154516	pEPYC0CM0390	PROM	MinSyn_013	MoClo, Loop, GB	GGAG	TACT	This study
154517	pEPYC0CM0391	PROM	MinSyn_014	MoClo, Loop, GB	GGAG	TACT	This study
154518	pEPYC0CM0392	PROM	MinSyn_015	MoClo, Loop, GB	GGAG	TACT	This study
154519	pEPYC0CM0375	PROM	MinSyn_016	MoClo, Loop, GB	GGAG	TACT	This study
154520	pEPYC0CM0376	PROM	MinSyn_017	MoClo, Loop, GB	GGAG	TACT	This study
154521	pEPYC0CM0377	PROM	MinSyn_018	MoClo, Loop, GB	GGAG	TACT	This study
154522	pEPYC0CM0382	PROM	MinSyn_019	MoClo, Loop, GB	GGAG	TACT	This study
154523	pEPYC0CM0383	PROM	MinSyn_020	MoClo, Loop, GB	GGAG	TACT	This study
154524	pEPYC0CM0384	PROM	MinSyn_021	MoClo, Loop, GB	GGAG	TACT	This study
154525	pEPYC0CM0393	PROM	MinSyn_022	MoClo, Loop, GB	GGAG	TACT	This study
154526	pEPYC0CM0365	PROM	MinSyn_023	MoClo, Loop, GB	GGAG	TACT	This study
154527	pEPYC0CM0431	PROM	MinSyn_024	MoClo, Loop, GB	GGAG	TACT	This study
154528	pEPYC0CM0435	PROM	MinSyn_026	MoClo, Loop, GB	GGAG	TACT	This study
154529	pEPYC0CM0433	PROM	MinSyn_027	MoClo, Loop, GB	GGAG	TACT	This study
154530	pEPYC0CM0437	PROM	MinSyn_028	MoClo, Loop, GB	GGAG	TACT	This study
154531	pEPYC0CM0439	PROM	MinSyn_029	MoClo, Loop, GB	GGAG	TACT	This study
154532	pEPYC0CM0434	PROM	MinSyn_030	MoClo, Loop, GB	GGAG	TACT	This study
154533	pEPYC0CM0388	PROM	MinSyn_031	MoClo, Loop, GB	GGAG	TACT	This study
154534	pEPYC0CM0440	PROM	MinSyn_032	MoClo, Loop, GB	GGAG	TACT	This study
154535	pEPYC0CM0041	PROM	MinSyn_033	MoClo, Loop, GB	GGAG	TACT	This study
154536	pEPYC0CM0310	PROM	MinSyn_034	MoClo, Loop, GB	GGAG	TACT	This study
154537	pEPYC0CM0312	PROM	MinSyn_035	MoClo, Loop, GB	GGAG	TACT	This study
154538	pEPYC0CM0313	PROM	MinSyn_036	MoClo, Loop, GB	GGAG	TACT	This study
154539	pEPYC0CM0314	PROM	MinSyn_037	MoClo, Loop, GB	GGAG	TACT	This study
154540	pEPYC0CM0225	PROM	MinSyn_038	MoClo, Loop, GB	GGAG	TACT	This study
154541	pEPYC0CM0209	PROM	MinSyn_039	MoClo, Loop, GB	GGAG	TACT	This study
154542	pEPYC0CM0210	PROM	MinSyn_040	MoClo, Loop, GB	GGAG	TACT	This study
154543	pEPYC0CM0211	PROM	MinSyn_041	MoClo, Loop, GB	GGAG	TACT	This study
154544	pEPYC0CM0311	PROM	MinSyn_042	MoClo, Loop, GB	GGAG	TACT	This study
154545	pEPYC0CM0212	PROM	MinSyn_043	MoClo, Loop, GB	GGAG	TACT	This study
154546	pEPYC0CM0213	PROM	MinSyn_044	MoClo, Loop, GB	GGAG	TACT	This study
154547	pEPYC0CM0214	PROM	MinSyn_045	MoClo, Loop, GB	GGAG	TACT	This study
154609	pEPYC0CM0182	PROM	MinSyn_046	MoClo, Loop, GB	GGAG	TACT	This study
154548	pEPYC0CM0395	PROM	MinSyn_048	MoClo, Loop, GB	GGAG	TACT	This study
154549	pEPYC0CM0396	PROM	MinSyn_049	MoClo, Loop, GB	GGAG	TACT	This study
154550	pEPYC0CM0451	PROM	MinSyn_050	MoClo, Loop, GB	GGAG	TACT	This study
154551	pEPYC0CM0452	PROM	MinSyn_051	MoClo, Loop, GB	GGAG	TACT	This study
154610	pEPYC0CM0183	PROM	MinSyn_052	MoClo, Loop, GB	GGAG	TACT	This study
154552	pEPYC0CM0397	PROM	MinSyn_054	MoClo, Loop, GB	GGAG	TACT	This study
154553	pEPYC0CM0398	PROM	MinSyn_055	MoClo, Loop, GB	GGAG	TACT	This study

1. Level 0 Phytobricks							
Addgene #	Plasmid code	Part type	Description/Origin	Compatibility with Assembly Systems	Cloning overhang (top strand) 5'	3'	Source of plasmid
154554	pEPYC0CM0453	PROM	MinSyn_056	MoClo, Loop, GB	GGAG	TACT	This study
154555	pEPYC0CM0454	PROM	MinSyn_057	MoClo, Loop, GB	GGAG	TACT	This study
154611	pEPYC0CM0184	PROM	MinSyn_058	MoClo, Loop, GB	GGAG	TACT	This study
154556	pEPYC0CM0401	PROM	MinSyn_060	MoClo, Loop, GB	GGAG	TACT	This study
154557	pEPYC0CM0402	PROM	MinSyn_061	MoClo, Loop, GB	GGAG	TACT	This study
154558	pEPYC0CM0455	PROM	MinSyn_062	MoClo, Loop, GB	GGAG	TACT	This study
154559	pEPYC0CM0456	PROM	MinSyn_063	MoClo, Loop, GB	GGAG	TACT	This study
154560	pEPAS0CMR0015	PROM	MinSyn_064	MoClo, Loop, GB	GGAG	AATG	This study
154561	pEPAS0CMR0016	PROM	MinSyn_065	MoClo, Loop, GB	GGAG	AATG	This study
154562	pEPKK0CM0107	PROM	MinSyn_066	MoClo, Loop, GB	GGAG	AATG	This study
154563	pEPKK0CM0065	PROM	MinSyn_067	MoClo, Loop, GB	GGAG	AATG	This study
154590	pEPKK0CM0062	DIST+PROX+CORE	MinSyn_068	MoClo, Loop, GB	GGAG	CCAT	This study
154592	pEPKK0CM0111	NTAG	MinSyn_068 and MinSyn_069	MoClo, Loop, GB	CCAT	AATG	This study
154589	pEPKK0CM0063	DIST	MinSyn_069	MoClo, Loop, GB	GGAG	TGAC	This study
154591	pEPKK0CM0064	PROX+CORE	MinSyn_069	MoClo, Loop, GB	TGAC	CCAT	This study
154564	pEPYC0CM0407	PROM	MinSyn_101	MoClo, Loop, GB	GGAG	TACT	This study
154565	pEPYC0CM0408	PROM	MinSyn_102	MoClo, Loop, GB	GGAG	TACT	This study
154566	pEPYC0CM0409	PROM	MinSyn_103	MoClo, Loop, GB	GGAG	TACT	This study
154567	pEPYC0CM0410	PROM	MinSyn_104	MoClo, Loop, GB	GGAG	TACT	This study
154568	pEPYC0CM0411	PROM	MinSyn_105	MoClo, Loop, GB	GGAG	TACT	This study
154569	pEPYC0CM0412	PROM	MinSyn_106	MoClo, Loop, GB	GGAG	TACT	This study
154570	pEPYC0CM0413	PROM	MinSyn_107	MoClo, Loop, GB	GGAG	TACT	This study
154571	pEPYC0CM0414	PROM	MinSyn_108	MoClo, Loop, GB	GGAG	TACT	This study
154572	pEPYC0CM0415	PROM	MinSyn_109	MoClo, Loop, GB	GGAG	TACT	This study
154573	pEPYC0CM0416	PROM	MinSyn_110	MoClo, Loop, GB	GGAG	TACT	This study
154574	pEPYC0CM0417	PROM	MinSyn_111	MoClo, Loop, GB	GGAG	TACT	This study
154575	pEPYC0CM0418	PROM	MinSyn_112	MoClo, Loop, GB	GGAG	TACT	This study
154576	pEPYC0CM0419	PROM	MinSyn_113	MoClo, Loop, GB	GGAG	TACT	This study
154577	pEPYC0CM0420	PROM	MinSyn_114	MoClo, Loop, GB	GGAG	TACT	This study
154578	pEPYC0CM0421	PROM	MinSyn_115	MoClo, Loop, GB	GGAG	TACT	This study
154579	pEPYC0CM0422	PROM	MinSyn_116	MoClo, Loop, GB	GGAG	TACT	This study
154580	pEPYC0CM0423	PROM	MinSyn_117	MoClo, Loop, GB	GGAG	TACT	This study
154581	pEPYC0CM0424	PROM	MinSyn_118	MoClo, Loop, GB	GGAG	TACT	This study
154582	pEPYC0CM0425	PROM	MinSyn_119	MoClo, Loop, GB	GGAG	TACT	This study
154583	pEPYC0CM0426	PROM	MinSyn_120	MoClo, Loop, GB	GGAG	TACT	This study
154584	pEPYC0CM0427	PROM	MinSyn_121	MoClo, Loop, GB	GGAG	TACT	This study
154585	pEPYC0CM0428	PROM	MinSyn_122	MoClo, Loop, GB	GGAG	TACT	This study
154586	pEPYC0CM0429	PROM	MinSyn_123	MoClo, Loop, GB	GGAG	TACT	This study
154587	pEPYC0CM0430	PROM	MinSyn_124	MoClo, Loop, GB	GGAG	TACT	This study
154588	pEPYC0CM0244	PROM	MinSyn_285	MoClo, Loop, GB	GGAG	TACT	This study
154481	pEPYC0CM0099	PROM	MMV (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154482	pEPYC0CM0115	PROM	MMV (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154478	pEPYC0CM0095	PROM	MMV (Mirabalis Mosaic Virus)	MoClo, Loop, GB	GGAG	TACT	This study
154496	pEPYC0CM0290	PROM	MMV(ΔbHLH+)	MoClo, Loop, GB	GGAG	TACT	This study
154497	pEPYC0CM0289	PROM	MMV(Δ$bHLH_2$)	MoClo, Loop, GB	GGAG	TACT	This study
154603	pEPYC0CM0175	PROM	MMV(ΔC_CRE)	MoClo, Loop, GB	GGAG	TACT	This study
154602	pEPYC0CM0174	PROM	MMV(ΔC2C2dof+$_2$)	MoClo, Loop, GB	GGAG	TACT	This study
154495	pEPYC0CM0292	PROM	MMV(ΔCCAAT+)	MoClo, Loop, GB	GGAG	TACT	This study
154494	pEPYC0CM0288	PROM	MMV(ΔG2like)	MoClo, Loop, GB	GGAG	TACT	This study
154498	pEPYC0CM0286	PROM	MMV(ΔMADS+$_2$)	MoClo, Loop, GB	GGAG	TACT	This study
154604	pEPYC0CM0172	PROM	MMV(ΔMYB+)	MoClo, Loop, GB	GGAG	TACT	This study
154608	pEPYC0CM0173	PROM	MMV(ΔTCP_2)	MoClo, Loop, GB	GGAG	TACT	This study
154502	pEPYC0CM0287	PROM	MMV(ΔTCP_3)	MoClo, Loop, GB	GGAG	TACT	This study
154499	pEPYC0CM0291	PROM	MMV(ΔWRKY+)	MoClo, Loop, GB	GGAG	TACT	This study
50339	pICH41421	3UTR+TERM	NOS (Agrobacterium tumefaciens)	MoClo, Loop, GB	GCTT	CGCT	Engler et al (2014)
50255	pICH42211	PROM	NOS (Agrobacterium tumefaciens)	MoClo, Loop, GB	GGAG	TACT	Engler et al (2014)
154484	pEPYC0CM0119	PROM	NOS (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154483	pEPYC0CM0120	PROM	NOS (C-CRE relocated)	MoClo, Loop, GB	GGAG	TACT	This study
154500	pEPYC0CM0294	PROM	NOS(ΔAP2+$_2$)	MoClo, Loop, GB	GGAG	TACT	This study
154605	pEPYC0CM0178	PROM	NOS(ΔC_CRE)	MoClo, Loop, GB	GGAG	TACT	This study
154606	pEPYC0CM0177	PROM	NOS(ΔC2H2)	MoClo, Loop, GB	GGAG	TACT	This study
154501	pEPYC0CM0293	PROM	NOS(ΔG2like+)	MoClo, Loop, GB	GGAG	TACT	This study
154607	pEPYC0CM0176	PROM	NOS(Δhomeobox)	MoClo, Loop, GB	GGAG	TACT	This study
68257	pICSL12009	PROM	ZmUbi (Zae mays)	MoClo, Loop, GB	GGAG	AATG	Lawrenson et al (2015)
68260	pICSL80037	CDS	NptII	MoClo, Loop, GB	AATG	GCTT	Lawrenson et al (2015)
50343	pICH41432	3UTR+TERM	OCS (Agrobacterium tumefaciens)	MoClo, Loop, GB	GCTT	CGCT	Engler et al (2014)
-	GB_UD_32AB	CDS	PhiC3 binding domain	GB	AATG	GCTT	Vazquez-Vilar et al (2017)
154596	pEPKK0CM0068	CDS	TALE	MoClo, Loop, GB	AATG	GCTT	This study
50285	pICH41402	5UTR	TMVΩ (Tobacco Mosaic Virus)	MoClo, Loop, GB	TACT	AATG	Engler et al (2014)
50332	pICSL80016	CDS	uidA (GUS)	MoClo, Loop, GB	AATG	TTCG	Engler et al (2014)
117536	pICSL50005	CTAG	YFP	MoClo, Loop, GB	TTCG	GCTT	Raitskin et al (2019)

2. Expression cassettes

		Level 0 Parts									Cloning overhang		
		PROM											
Addgene #	Plasmid code	DIST	PROX	CORE	5UTR	NTAG	CDS	CTAG	3'UTR/TERM	Acceptor	5'	3'	Source
154624	pEPYC1CB0308	pICSL12006			-	-	pUAP80037	-	pICH41414	pICH47732	TGCC	GCAA	This study
154625	pEPYC1CB0305	pEPYC0CM0244			pICSL20002	pEPYC0CM0258	pICSL80016	pICSL50005	pICH41432	pICH47811	TAGT	TTGC	This study
154626	pEPYC1CB0477	pEPYC0CM0410			pICSL20002	pEPYC0CM0258	pICSL80016	pICSL50005	pICH41432	pICH47811	TAGT	TTGC	This study
154627	pEPYC1CB0478	pEPYC0CM0414			pICSL20002	pEPYC0CM0258	pICSL80016	pICSL50005	pICH41432	pICH47811	TAGT	TTGC	This study
154628	pEPYC1CB0503	pEPYC0CM0035			pICSL20002	pEPYC0CM0258	pICSL80016	pICSL50005	pICH41432	pICH47811	TAGT	TTGC	This study
154612	pEPYCα1KN0002	pEPYC0CM0414			pICSL20002	GB0900	GB_UD_32AB	-	pICH41432	pDGB3_α1	GGAG	GTCA	This study
154614	pEPYCα1KN0007	pEPYC0CM0414			pICH41402	-	pEPKK0CM0068	-	pICH41432	pDGB3_α1	GGAG	GTCA	This study
-	GB_UA_114A	GB0552			-	GB0900	GB_UD_32AB	-	GB0036	pDGB3_α1	GGAG	GTCA	Vazquez-Vilar et al (2017)
154615	pEPYCα1KN0008	pEPKK0CM0107			-	-	pEPAS0CM0008	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154616	pEPYCα2rKN0009	pEPKK0CM0107			-	-	pEPYC0CM0133	pICSL50007	pICH41421	pDGB3_α2R	GTCA	GGAG	This study
154617	pEPYCα2rKN0010	pEPAS0CMR0015			-	-	pEPYC0CM0133	pICSL50007	pICH41421	pDGB3_α2R	GTCA	GGAG	This study
154618	pEPKKα2KN0091	pEPAS0CMR0015			-	-	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154619	pEPKKα2KN0092	pEPAS0CMR0016			-	-	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154620	pEPKKα2KN0093	pEPKK0CM0107			-	-	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154621	pEPKKα2KN0100	pEPKK0CM0065			-	-	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154622	pEPKKα2KN0101	pEPKK0CM0062				pEPKK0CM0111	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154623	pEPKKα2KN0102	pEPKK0CM0063	pEPKK0CM0064			pEPKK0CM0111	pEPYC0CM0133	pICSL50007	pICH72400	pDGB3_α1	GGAG	GTCA	This study
154629	pEPYC1CB0003	pICH42211			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154630	pEPYC1CB0007	pEPYC0CM0035			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154631	pEPYC1CB0079	pEPYC0CM0041			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154632	pEPYC1CB0109	pEPYC0CM0071			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154633	pEPYC1CB0122	pEPYC0CM0084			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154634	pEPYC1CB0127	pEPYC0CM0089			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154635	pEPYC1CB0133	pEPYC0CM0095			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154636	pEPYC1CB0137	pEPYC0CM0099			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154637	pEPYC1CB0153	pEPYC0CM0115			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154638	pEPYC1CB0157	pEPYC0CM0119			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154639	pEPYC1CB0158	pEPYC0CM0120			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154640	pEPYC1CB0173	pEPYC0CM0168			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154641	pEPYC1CB0174	pEPYC0CM0169			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154642	pEPYC1CB0175	pEPYC0CM0170			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154643	pEPYC1CB0176	pEPYC0CM0171			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154644	pEPYC1CB0177	pEPYC0CM0172			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154645	pEPYC1CB0178	pEPYC0CM0173			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154646	pEPYC1CB0179	pEPYC0CM0174			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154647	pEPYC1CB0180	pEPYC0CM0175			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154648	pEPYC1CB0181	pEPYC0CM0176			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154649	pEPYC1CB0182	pEPYC0CM0177			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
154650	pEPYC1CB0183	pEPYC0CM0178			pICH41402	-	pEPAS0CM0008	pICSL50007	pICH41432	pICH47732	TGCC	GCAA	This study
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		Level 0 Parts									Acceptor	Cloning overhang		Source
		PROM												
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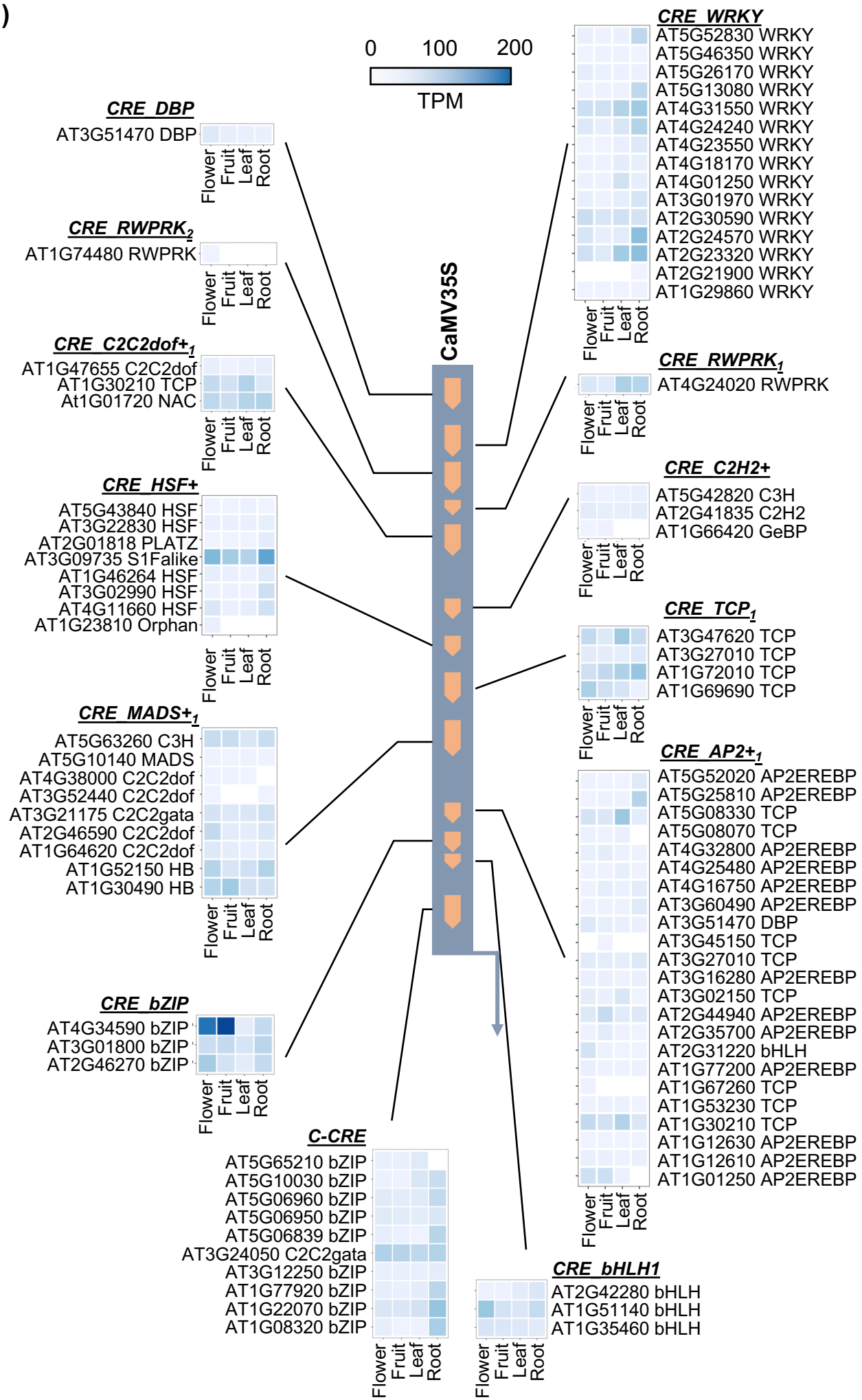
Supplementary Data 3

Expression profiles of *Arabidopsis thaliana* genes encoding transcription factors predicted to bind to the following constitutive promoters:

(1) Cauliflower Mosaic Virus 35s (*CaMV35s*)
(2) Mirabilis Mosaic Virus (*MMV*)
(3) Agrobacterium tumefaciens *nopaline synthase* (*AtuNOS*)
(4) *A. thaliana* actin (*AtACT2*)
(5) *A. thaliana* ubiquitin-conjugating enzyme 9 (*AtUBC9*)
(6) *A. thaliana* polyubiquitin 10 (*AtUBI10*)

TPM = Transcripts per million

(1)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AT1G08320 bZIP
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AT1G51140 bHLH
AT1G35460 bHLH
CRE_RWPRK1
AT4G24020 RWPRK
CRE_C2H2+
AT5G42820 C3H
AT2G41835 C2H2
AT1G66420 GeBP
CRE_TCP1
AT3G47620 TCP
AT3G27010 TCP
AT1G72010 TCP
AT1G69690 TCP
CRE_AP2+1
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AT5G25810 AP2EREBP
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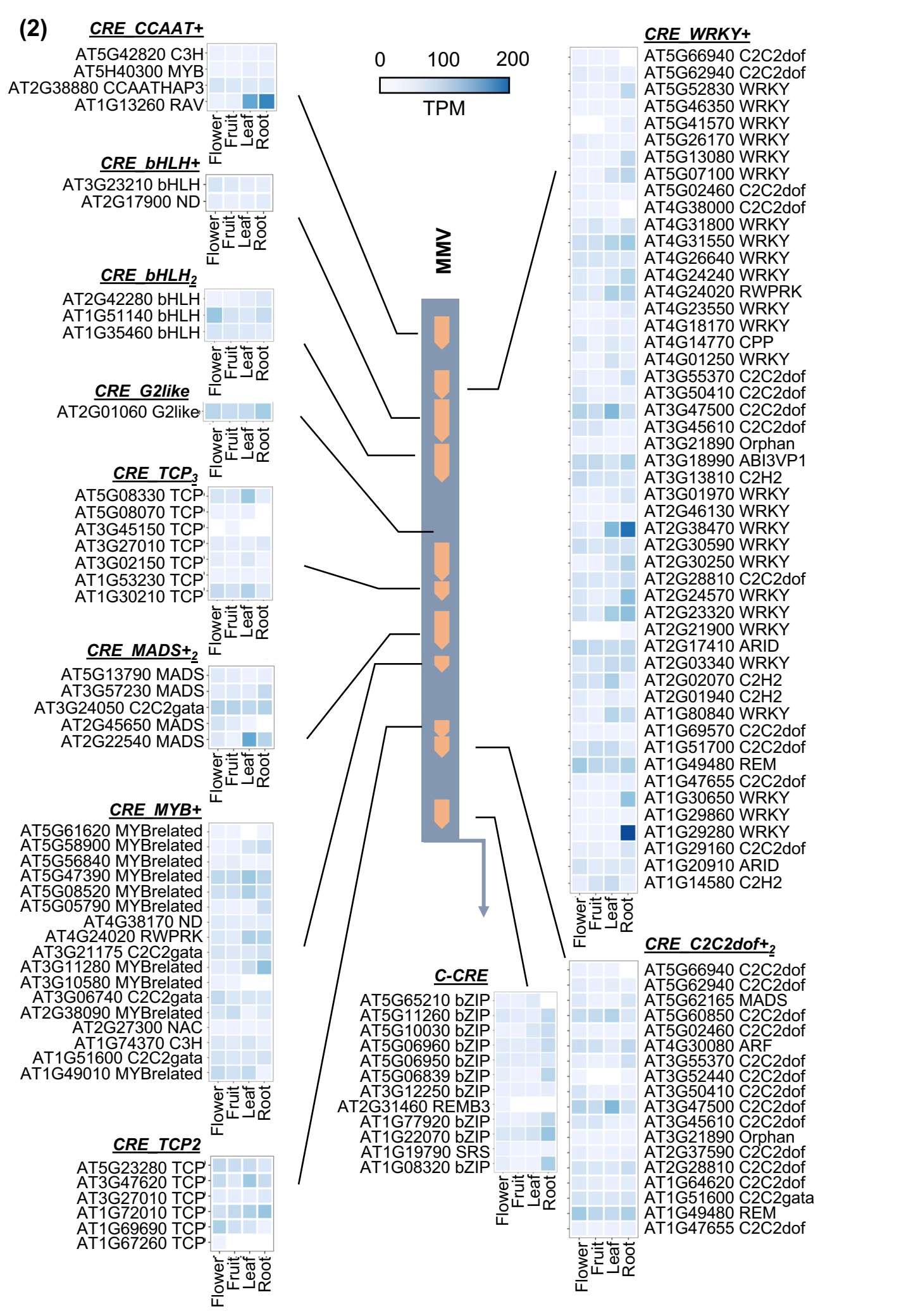
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AT3G23210 bHLH
AT2G17900 ND
Flower Fruit Leaf Root
CRE_bHLH2
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AT2G28810 C2C2dof
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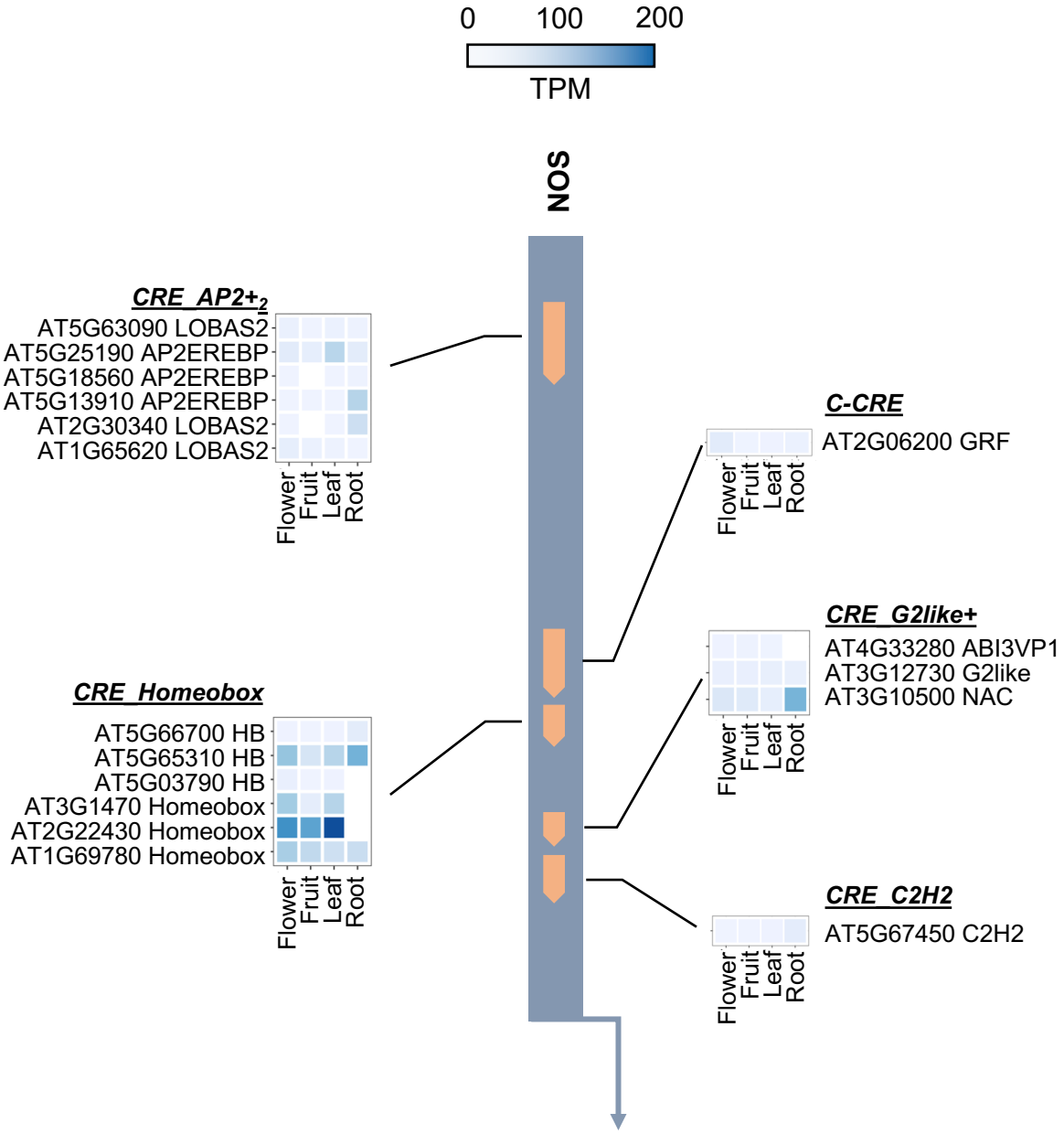
Flower Fruit Leaf Root

(3)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Flower
Fruit
Leaf
Root
C-CRE
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CRE_G2like+
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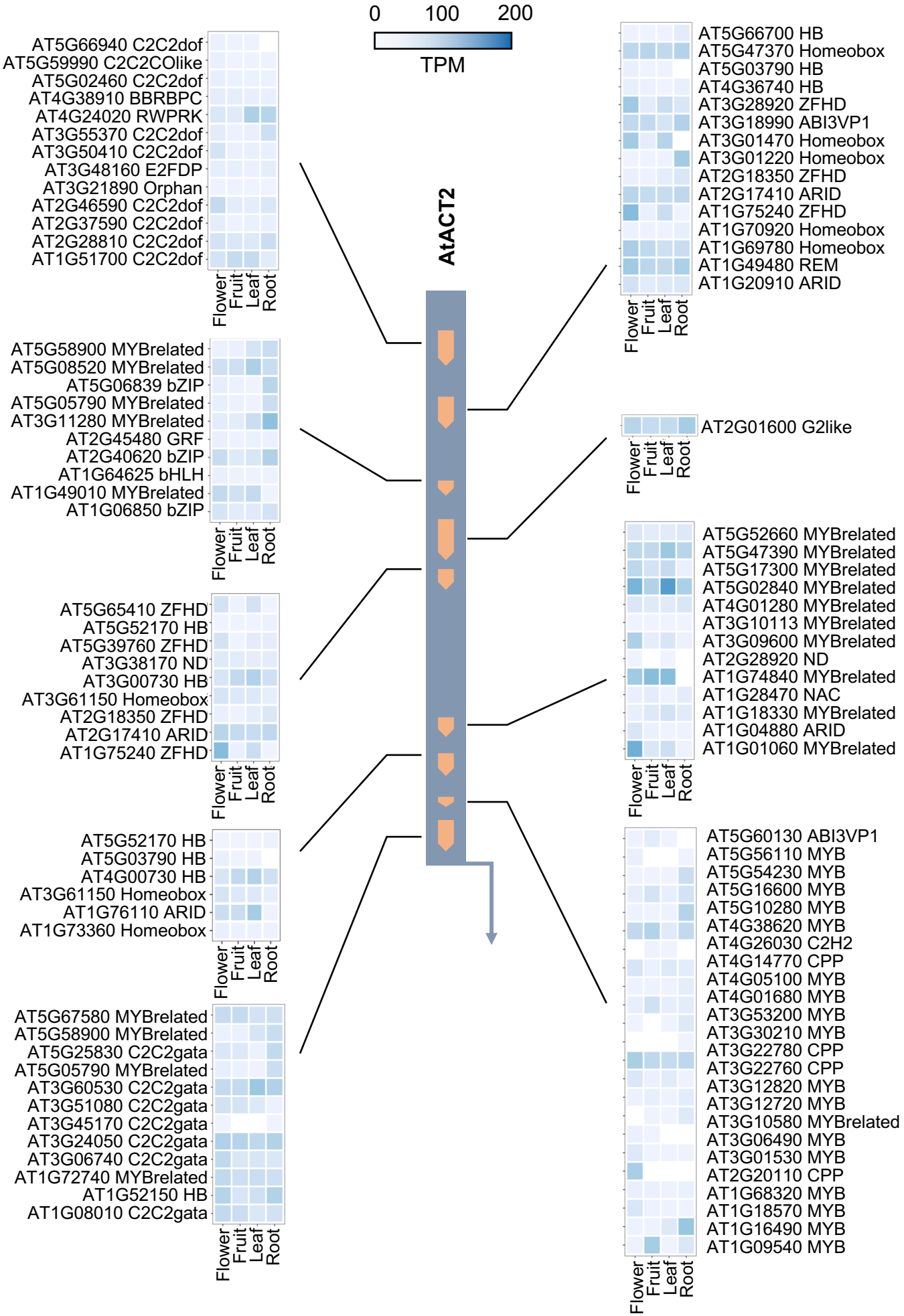
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Flower
Fruit
Leaf
Root
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AT3G00730 HB
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AT1G08010 C2C2gata
AT5G66700 HB
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AT5G03790 HB
AT4G36740 HB
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AT5G10280 MYB
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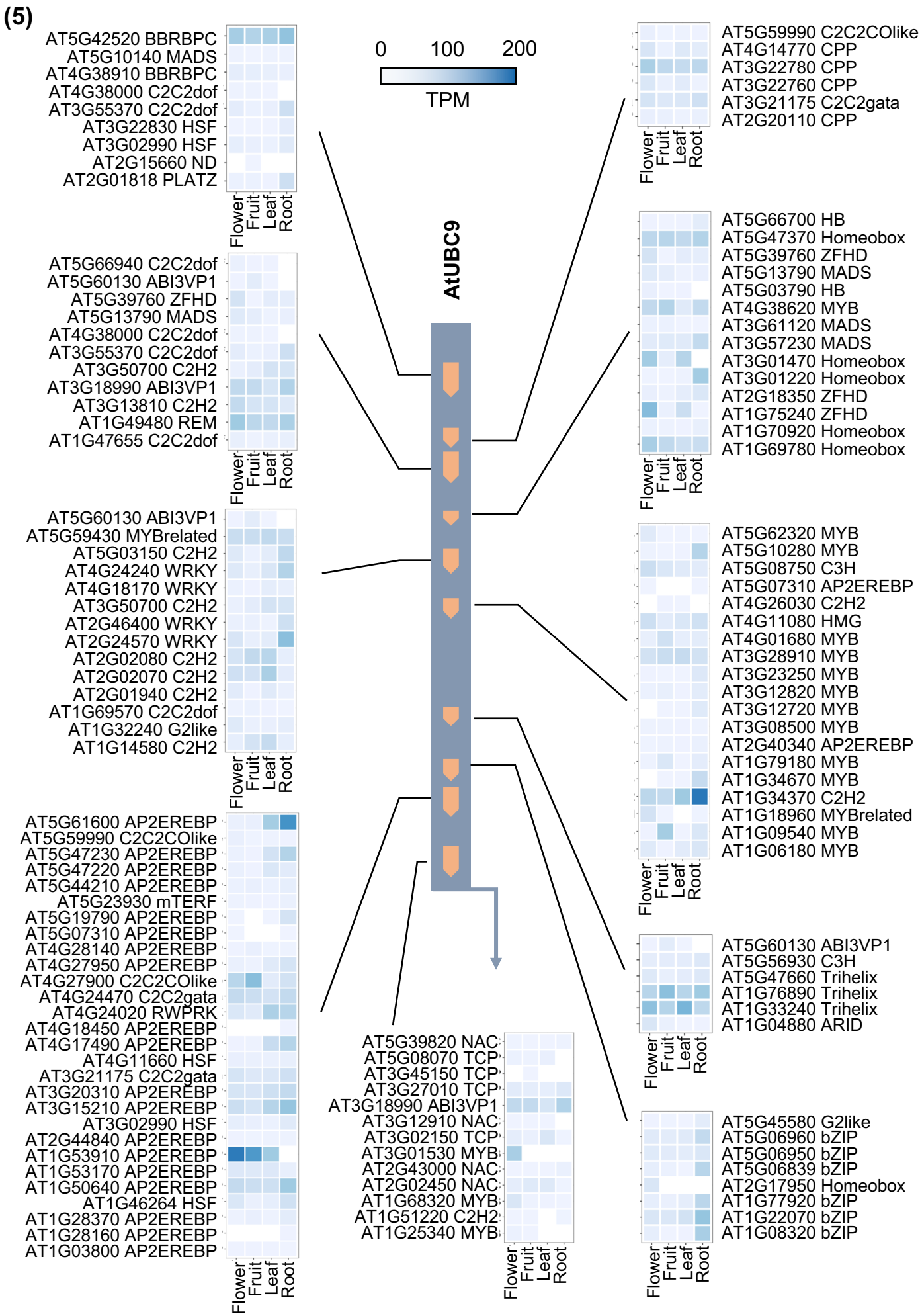
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AT3G02990 HSF
AT2G15660 ND
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Flower
Fruit
Leaf
Root
AT5G66940 C2C2dof
AT5G60130 ABI3VP1
AT5G39760 ZFHD
AT5G13790 MADS
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AT5G56930 C3H
AT5G47660 Trihelix
AT1G76890 Trihelix
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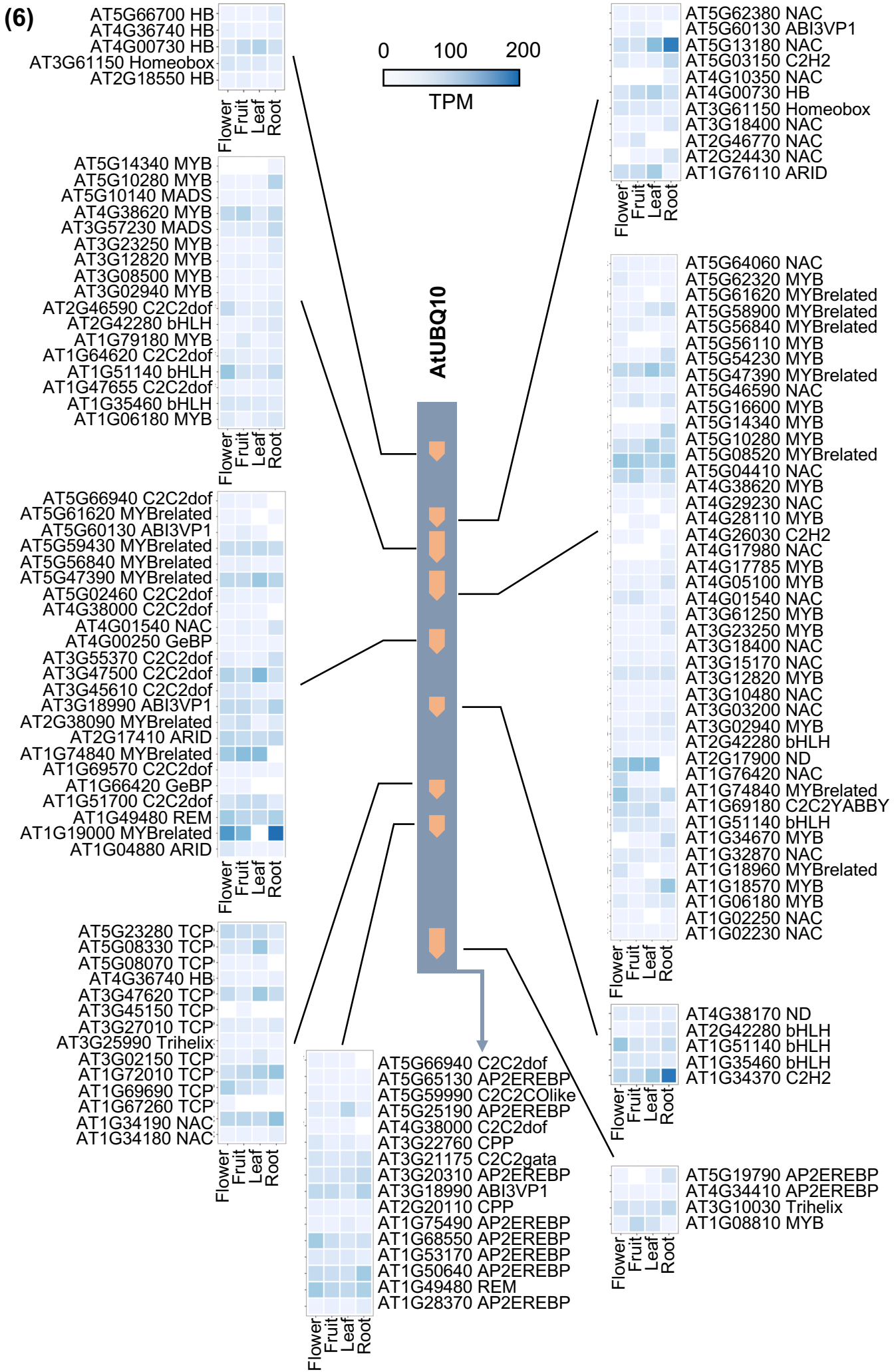
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Fruit
Leaf
Root
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AT3G02940 MYB
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AT1G64620 C2C2dof
AT1G51140 bHLH
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AT3G45150 TCP
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AT3G02150 TCP
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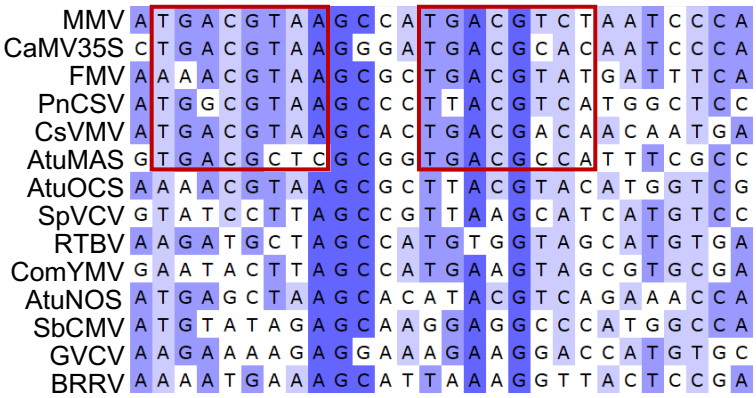
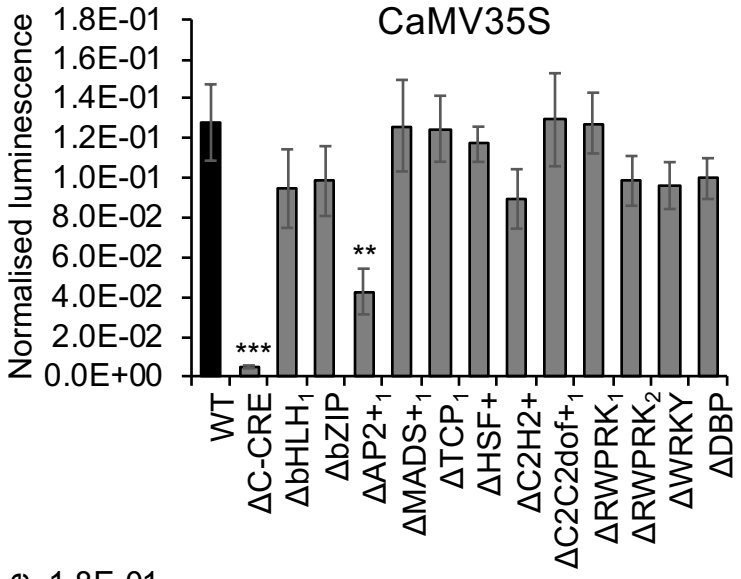
Supplementary Data File 4

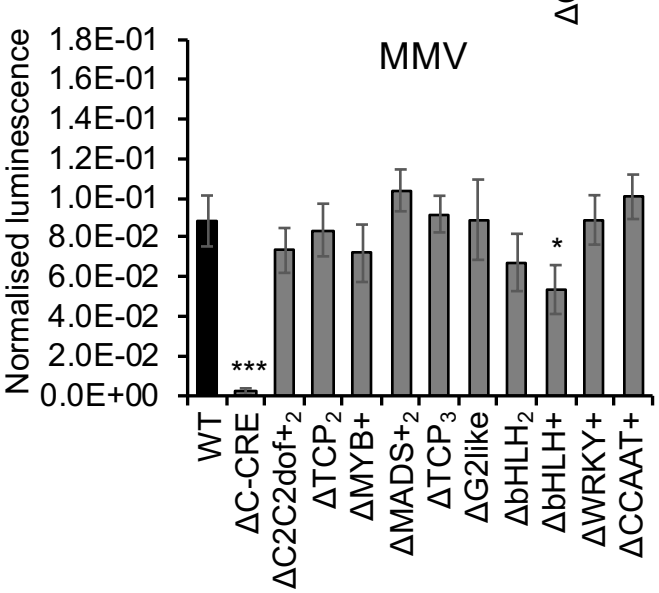
Multiple sequence alignment of a *cis*-regulatory element common to all 14 promoters from plant-infecting viruses and bacteria. The red box ☐ highlights consensus binding motifs for the TGACG-motif binding (TGA) basic-leucine zipper (B-ZIP) transcription factors.

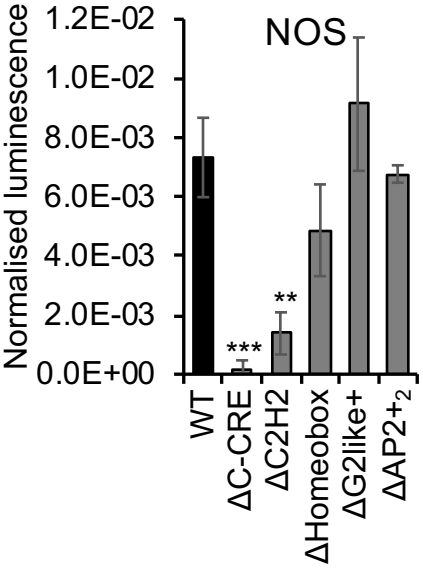


Supplementary Data File 5

Deletion of many candidate *cis*-regulatory elements (CRE) had no significant impact on expression. Error bars = 2 x standard error; P-values were calculated using unpaired two-tailed Student's t-test; *P<0.05, **P< 0.01, ***P< 0.001; n=3

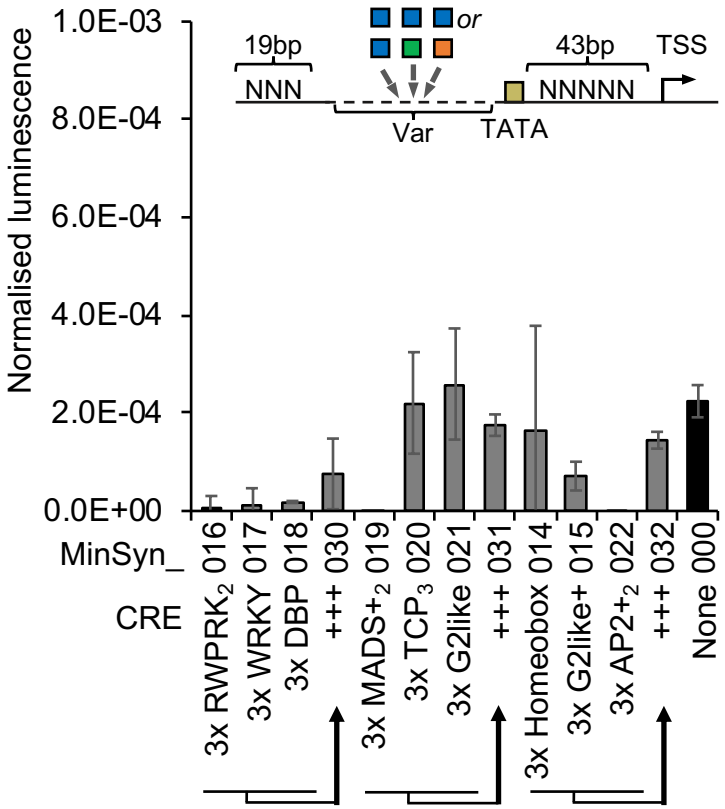






Supplementary Data 6

Combining certain *cis*-regulatory elements (CREs) into the variable regions of MinSyns did not result in significant expression



Supplementary Data 7. Sequences and predicted strengths of all computationally designed Minimal Synthetic Promoters (MinSyns)

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>MinSyn_1161|Strength:0.000223739
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AGTGGATGGCTATCAGCTTAGCAAGACCTCTACAACTATATAAGGTTTTGCTATTCATTGAAAGCAGT
AGTGACTGATTTGTATATA
>MinSyn_1970|Strength:0.0003525
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CTATCAGCTTCACTATCAGCCTTGTGTACAGGGCTCACTGCTATATAAGGTTTTGCTATTCATTGAAA
GCAGTAGTGACTGATTTGTATATA
>MinSyn_1951|Strength:0.000375771
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GACTGATTTGTATATA
>MinSyn_1490|Strength:0.000396386
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CAGCTTAGGTGGCTCCTACGATCTTGCCAGCAAGTGGATGCGGTAGCTATATAAGGTTTTGCTATTCA
TTGAAAGCAGTAGTGACTGATTTGTATATA
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CTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACTGATTTGTATATA
>MinSyn_1108|Strength:0.000437209
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TGATCTTGCCTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACTGATTTGTATATA
>MinSyn_1653|Strength:0.000456944
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TGTATATA
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TATA
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>MinSyn_1992|Strength:0.000553661
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>MinSyn_1232|Strength:0.000601829
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>MinSyn_1677|Strength:0.000611834
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>MinSyn_1899|Strength:0.000647599
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>MinSyn_1967|Strength:0.000651825
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>MinSyn_1806|Strength:0.000722811
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>MinSyn_1771|Strength:0.000942817
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>MinSyn_1952|Strength:0.000943963
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>MinSyn_1054|Strength:0.000954328
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>MinSyn_1977|Strength:0.000992454
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>MinSyn_1373|Strength:0.000994991
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>MinSyn_1356|Strength:0.000996292
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>MinSyn_1476|Strength:0.001002206
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>MinSyn_1985|Strength:0.00100963
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>MinSyn_1007|Strength:0.001011806
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>MinSyn_1249|Strength:0.001012206
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>MinSyn_1245|Strength:0.001030027
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>MinSyn_1258|Strength:0.001033333
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>MinSyn_1329|Strength:0.001037241
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>MinSyn_1298|Strength:0.001038432
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>MinSyn_1960|Strength:0.001038463
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>MinSyn_1466|Strength:0.001038565
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>MinSyn_1627|Strength:0.001040714
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>MinSyn_1175|Strength:0.001041216
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>MinSyn_1273|Strength:0.001042256
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>MinSyn_1976|Strength:0.001044985
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>MinSyn_1262|Strength:0.001045603

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>MinSyn_1189|Strength:0.001045763
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>MinSyn_1781|Strength:0.001047461
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>MinSyn_1842|Strength:0.001056306
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>MinSyn_1679|Strength:0.001056359
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>MinSyn_1902|Strength:0.001056813
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>MinSyn_1702|Strength:0.001068182
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>MinSyn_1160|Strength:0.001078689
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>MinSyn_1720|Strength:0.001089835
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>MinSyn_1301|Strength:0.001093806
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>MinSyn_1435|Strength:0.001095891
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>MinSyn_1125|Strength:0.001099116
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>MinSyn_1389|Strength:0.001100543
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>MinSyn_1247|Strength:0.001100585
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>MinSyn_1765|Strength:0.001101563
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>MinSyn_1836|Strength:0.00110268
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>MinSyn_1453|Strength:0.001102726
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>MinSyn_1099|Strength:0.001102732
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>MinSyn_1528|Strength:0.001103357
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>MinSyn_1005|Strength:0.00110521
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>MinSyn_1646|Strength:0.001105393
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>MinSyn_1728|Strength:0.001105791
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>MinSyn_1766|Strength:0.001105882
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>MinSyn_1251|Strength:0.00110594
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>MinSyn_1136|Strength:0.00110793
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>MinSyn_1386|Strength:0.001109961
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>MinSyn_1993|Strength:0.001111612
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>MinSyn_1794|Strength:0.001113158
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>MinSyn_1829|Strength:0.001115254
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>MinSyn_1030|Strength:0.001118412
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GACTGATTTGTATATA
>MinSyn_1197|Strength:0.001118766

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>MinSyn_1535|Strength:0.001119058
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>MinSyn_1638|Strength:0.001120774
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>MinSyn_1041|Strength:0.001123009
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>MinSyn_1355|Strength:0.001123894
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>MinSyn_1847|Strength:0.001124128
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>MinSyn_1542|Strength:0.001127273
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>MinSyn_1361|Strength:0.001128668
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>MinSyn_1999|Strength:0.001133957
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>MinSyn_1306|Strength:0.001137132
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>MinSyn_1156|Strength:0.001137203
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>MinSyn_1686|Strength:0.001152609
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>MinSyn_1272|Strength:0.001153486
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>MinSyn_1953|Strength:0.001154386
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>MinSyn_1209|Strength:0.001160608
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>MinSyn_1735|Strength:0.001162694
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>MinSyn_1563|Strength:0.001165289
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>MinSyn_1773|Strength:0.0011656

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>MinSyn_1392|Strength:0.001166774
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>MinSyn_1025|Strength:0.001168407
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CGATGCTGATCTTGCCTCTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACTGATTTGTATAT
A
>MinSyn_1501|Strength:0.001168911
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>MinSyn_1642|Strength:0.001171816
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GATTTGTATATA
>MinSyn_1180|Strength:0.001171913
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>MinSyn_1843|Strength:0.001172035
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TATA
>MinSyn_1312|Strength:0.001172528
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TACTTGTGTACAGGGCTCACTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACTGATTTGTAT
ATA
>MinSyn_1150|Strength:0.001173184
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>MinSyn_1144|Strength:0.001173861
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>MinSyn_1704|Strength:0.001175
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CTTGCTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACTGATTTGTATATA
>MinSyn_1904|Strength:0.001175894

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>MinSyn_1145|Strength:0.001176612
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AGATAAGATAATAATGTTGAAGATAAGAATGCTGATCTTGCCTGCCTCTATATAAGGTTTTGCTATTC
ATTGAAAGCAGTAGTGACTGATTTGTATATA
>MinSyn_1486|Strength:0.001179716
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>MinSyn_1128|Strength:0.001184252
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>MinSyn_1297|Strength:0.001184755
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>MinSyn_1360|Strength:0.001184792
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>MinSyn_1016|Strength:0.001185336
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>MinSyn_1496|Strength:0.001185586
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GTGACTGATTTGTATATA
>MinSyn_1187|Strength:0.001186972
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>MinSyn_1450|Strength:0.001187181
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GCAGTAGTGACTGATTTGTATATA
>MinSyn_1658|Strength:0.00118726
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TTGAAAGCAGTAGTGACTGATTTGTATATA
>MinSyn_1968|Strength:0.001187915
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CAGTAGTGACTGATTTGTATATA
>MinSyn_1567|Strength:0.00119055
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>MinSyn_1132|Strength:0.00119218
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GTAGTGACTGATTTGTATATA
>MinSyn_1867|Strength:0.001193813
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GTATATA
>MinSyn_1601|Strength:0.001194577
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>MinSyn_1493|Strength:0.001194786
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>MinSyn_1357|Strength:0.001196069
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>MinSyn_1271|Strength:0.001196343
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>MinSyn_1089|Strength:0.001203319
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CATGTGTTGATCACCAGCTCTTGTGTACCTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGTGACT

GATTTGTATATA
>MinSyn_1385|Strength:0.001203817
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>MinSyn_1010|Strength:0.001203877
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TTTGTATATA
>MinSyn_1427|Strength:0.0012047
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ATA
>MinSyn_1670|Strength:0.001204723
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>MinSyn_1791|Strength:0.001206829
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>MinSyn_1339|Strength:0.001207311
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>MinSyn_1699|Strength:0.001208571
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TATA
>MinSyn_1880|Strength:0.001209116
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>MinSyn_1946|Strength:0.001222589
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>MinSyn_1381|Strength:0.001224474
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GACTGATTTGTATATA
>MinSyn_1729|Strength:0.001224865
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>MinSyn_1510|Strength:0.00122806
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>MinSyn_1586|Strength:0.001230952
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>MinSyn_1029|Strength:0.001232497
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>MinSyn_1425|Strength:0.001234153
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>MinSyn_1950|Strength:0.001238784
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>MinSyn_1480|Strength:0.001239296
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>MinSyn_1443|Strength:0.001240917
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>MinSyn_1309|Strength:0.001241396
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>MinSyn_1856|Strength:0.001245289
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>MinSyn_1841|Strength:0.001247467
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>MinSyn_1807|Strength:0.001248041
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>MinSyn_1268|Strength:0.001250065
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>MinSyn_1051|Strength:0.001251079
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>MinSyn_1164|Strength:0.001253891
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>MinSyn_1611|Strength:0.001253974

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>MinSyn_1974|Strength:0.001254936
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>MinSyn_1171|Strength:0.001258361
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>MinSyn_1226|Strength:0.00125968
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>MinSyn_1989|Strength:0.001261901
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>MinSyn_1641|Strength:0.001262996
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>MinSyn_1657|Strength:0.001269417
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>MinSyn_1541|Strength:0.001269606
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>MinSyn_1837|Strength:0.001271311
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>MinSyn_1335|Strength:0.001275725
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>MinSyn_1008|Strength:0.001277468
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>MinSyn_1892|Strength:0.001279776
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>MinSyn_1556|Strength:0.00128026
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>MinSyn_1372|Strength:0.001280806
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GTATATA
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>MinSyn_1397|Strength:0.001285156
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>MinSyn_1543|Strength:0.001285156
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>MinSyn_1592|Strength:0.001285786
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GATTTGTATATA
>MinSyn_1424|Strength:0.001285875
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>MinSyn_1991|Strength:0.001287024
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>MinSyn_1513|Strength:0.001287468
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>MinSyn_1622|Strength:0.0012925
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>MinSyn_1217|Strength:0.0012971
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>MinSyn_1481|Strength:0.001314328
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>MinSyn_1102|Strength:0.001325641
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>MinSyn_1349|Strength:0.001326771
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>MinSyn_1736|Strength:0.001337891
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>MinSyn_1259|Strength:0.001349365
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>MinSyn_1672|Strength:0.00135362
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>MinSyn_1539|Strength:0.001356504
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CATCCTTACCGCTATGGGTAAGATTACTTGTGTACAGGGCTCACTGCTAGTGAAGCATCTTCCTTGAT
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>MinSyn_1318|Strength:0.001359504
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>MinSyn_1009|Strength:0.001360771
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>MinSyn_1399|Strength:0.001363436
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>MinSyn_1384|Strength:0.001363626
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CGATCTTGCCTGCCTATTGCGATAAAGGAAAGGACTATATAAGGTTTTGCTATTCATTGAAAGCAGTA

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>MinSyn_1881|Strength:0.001365307
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>MinSyn_1239|Strength:0.001368524
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GTATATA
>MinSyn_1126|Strength:0.001372878
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GATTTGTATATA
>MinSyn_1317|Strength:0.001375497
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TATA
>MinSyn_1534|Strength:0.001376174
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CAGCATGTGTTGATCACCAGCTCACATGTAGGCTATATAAGGTTTTGCTATTCATTGAAAGCAGTAGT
GACTGATTTGTATATA
>MinSyn_1789|Strength:0.001376429
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TATA
>MinSyn_1346|Strength:0.001377545
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>MinSyn_1828|Strength:0.001378694
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>MinSyn_1070|Strength:0.001382353
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>MinSyn_1211|Strength:0.001386601
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>MinSyn_1280|Strength:0.00138751
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>MinSyn_1285|Strength:0.001388297
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>MinSyn_1620|Strength:0.001391135
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>MinSyn_1518|Strength:0.001396735
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>MinSyn_1578|Strength:0.00141
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>MinSyn_1235|Strength:0.001418006
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>MinSyn_1666|Strength:0.001422533
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>MinSyn_1489|Strength:0.001423239
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>MinSyn_1878|Strength:0.001424307
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TATATA
>MinSyn_1549|Strength:0.00142526
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>MinSyn_1448|Strength:0.001426437
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>MinSyn_1412|Strength:0.001430075
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>MinSyn_1230|Strength:0.001430435
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>MinSyn_1940|Strength:0.001430435
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>MinSyn_1674|Strength:0.00143262
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>MinSyn_1169|Strength:0.001441601
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>MinSyn_1213|Strength:0.001443571
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>MinSyn_1649|Strength:0.001444946
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>MinSyn_1553|Strength:0.00144513
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>MinSyn_1300|Strength:0.001452033
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>MinSyn_1275|Strength:0.001473729
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>MinSyn_1311|Strength:0.001492174
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>MinSyn_1080|Strength:0.001493798
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>MinSyn_1112|Strength:0.001495455
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>MinSyn_1426|Strength:0.00150514
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>MinSyn_1414|Strength:0.001516778
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>MinSyn_1978|Strength:0.001528429
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TTGTATATA
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>MinSyn_1440|Strength:0.001530233
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>MinSyn_1662|Strength:0.001531061
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>MinSyn_1133|Strength:0.001540984
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>MinSyn_1236|Strength:0.001553959
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>MinSyn_1874|Strength:0.001554615
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>MinSyn_1143|Strength:0.001555396

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>MinSyn_1929|Strength:0.001556146
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>MinSyn_1477|Strength:0.001556808
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>MinSyn_1718|Strength:0.001557292
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>MinSyn_1096|Strength:0.001577622
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>MinSyn_1732|Strength:0.001577631
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TTGTATATA
>MinSyn_1188|Strength:0.001596257
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>MinSyn_1785|Strength:0.0015981
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>MinSyn_1573|Strength:0.001608725
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>MinSyn_1932|Strength:0.001612409
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>MinSyn_1491|Strength:0.001617532
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>MinSyn_1222|Strength:0.001618033
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>MinSyn_1547|Strength:0.001618889

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>MinSyn_1610|Strength:0.001629839
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>MinSyn_1848|Strength:0.001631405
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>MinSyn_1498|Strength:0.001648052
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>MinSyn_1715|Strength:0.001649669
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>MinSyn_1597|Strength:0.001681434
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>MinSyn_1482|Strength:0.02464178
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>MinSyn_1342|Strength:0.024902135
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>MinSyn_1231|Strength:0.025061356
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>MinSyn_1964|Strength:0.026810648
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>MinSyn_1875|Strength:0.027232371
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>MinSyn_1914|Strength:0.02765369
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>MinSyn_1076|Strength:0.029263333
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>MinSyn_1962|Strength:0.030383533
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>MinSyn_1852|Strength:0.030410964
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>MinSyn_1822|Strength:0.030571413
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>MinSyn_1107|Strength:0.033780574
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>MinSyn_1767|Strength:0.045549509
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>MinSyn_1063|Strength:0.046194565
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>MinSyn_1548|Strength:0.046282293
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>MinSyn_1193|Strength:0.046791942
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>MinSyn_1047|Strength:0.04762969
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>MinSyn_1520|Strength:0.047672452
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>MinSyn_1208|Strength:0.047701997
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>MinSyn_1935|Strength:0.048057973
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>MinSyn_1580|Strength:0.048207255
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>MinSyn_1639|Strength:0.048459816
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>MinSyn_1965|Strength:0.048975389
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>MinSyn_1103|Strength:0.049011637
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>MinSyn_1043|Strength:0.049100844
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>MinSyn_1011|Strength:0.050455516
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>MinSyn_1049|Strength:0.050789693
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>MinSyn_1229|Strength:0.050810391

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>MinSyn_1937|Strength:0.052045891
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>MinSyn_1831|Strength:0.052197764
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>MinSyn_1698|Strength:0.052354216
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>MinSyn_1982|Strength:0.05270437
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>MinSyn_1101|Strength:0.053164342
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>MinSyn_1286|Strength:0.053267457
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>MinSyn_1452|Strength:0.053867002
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>MinSyn_1012|Strength:0.054010338
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>MinSyn_1631|Strength:0.054784057
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>MinSyn_1800|Strength:0.055130407
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>MinSyn_1512|Strength:0.056327692
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>MinSyn_1367|Strength:0.059201853
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>MinSyn_1691|Strength:0.059757227
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>MinSyn_1864|Strength:0.060126627
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>MinSyn_1375|Strength:0.061540366
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>MinSyn_1803|Strength:0.062827629
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>MinSyn_1562|Strength:0.063200827
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>MinSyn_1618|Strength:0.063541768
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>MinSyn_1761|Strength:0.063678396

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>MinSyn_1330|Strength:0.06389896
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>MinSyn_1467|Strength:0.064227164
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>MinSyn_1287|Strength:0.064876152
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>MinSyn_1081|Strength:0.064877495
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>MinSyn_1859|Strength:0.065200022
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>MinSyn_1906|Strength:0.065600057
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>MinSyn_1757|Strength:0.065708603
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>MinSyn_1514|Strength:0.065858846

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>MinSyn_1260|Strength:0.065903815
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>MinSyn_1748|Strength:0.066337952
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>MinSyn_1675|Strength:0.068105943
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>MinSyn_1395|Strength:0.068111186
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>MinSyn_1750|Strength:0.068597126
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>MinSyn_1394|Strength:0.069087006
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>MinSyn_1154|Strength:0.069399162
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>MinSyn_1031|Strength:0.070789853
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>MinSyn_1779|Strength:0.07107987
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>MinSyn_1833|Strength:0.071149981
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>MinSyn_1098|Strength:0.071728758
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>MinSyn_1276|Strength:0.071778609
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>MinSyn_1057|Strength:0.07197451
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>MinSyn_1961|Strength:0.072025166
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>MinSyn_1696|Strength:0.073162552
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>MinSyn_1494|Strength:0.074816292
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>MinSyn_1866|Strength:0.076279371
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>MinSyn_1799|Strength:0.088162903
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>MinSyn_1936|Strength:0.0908275
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>MinSyn_1923|Strength:0.092955556
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>MinSyn_1508|Strength:0.095582719
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>MinSyn_1819|Strength:0.09604893
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>MinSyn_1325|Strength:0.096907364
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CACGACCACTATCAGCCACTTGTGTATCTTGCCTGCCTTGATGCTATATAAGGTTTTGCTATTCATTG
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>MinSyn_1694|Strength:0.097166886
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>MinSyn_1506|Strength:0.097421955
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TATATA
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>MinSyn_1045|Strength:0.131618431

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>MinSyn_1818|Strength:0.147457228
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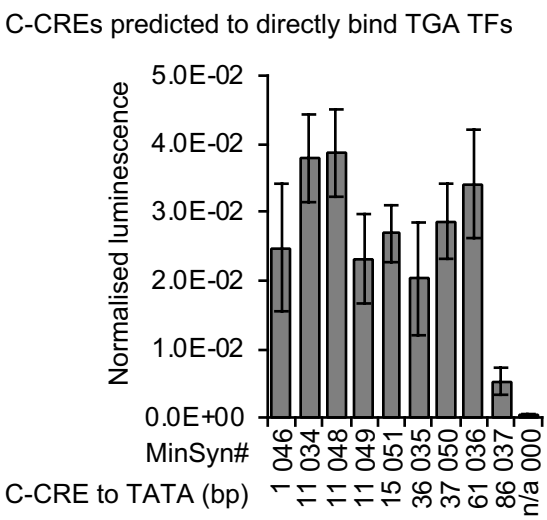
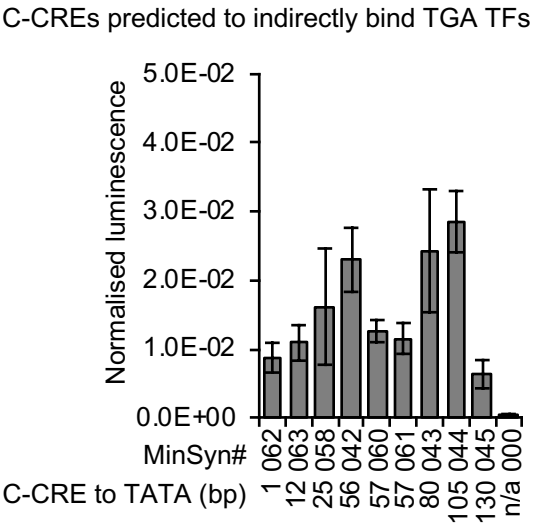
Supplementary Data File 8

Expression levels of MinSyns containing C-CREs in different locations relative to the TATA box.





Supplementary Data File 9

Transient expression in mesophyll protoplasts of *Hordeum vulgare* (barley). Both MinSyns and promoters from dicot-infecting viruses show minimal expression compared to the positive control (*Zea mays UBIQUITIN - ZmUbi*).