

Supplemental Material

Table I, Supplemental Material. Gene structure information for Arabidopsis GATA factor genes

^a Genes are numbered according to Jeong and Shih (2003). The lengths of 5' and 3' UTRs are given in nucleotides and the presence in 5' UTRs of motifs with roles in translational control is indicated. The lengths of longer introns are also given.

GATA gene ^a	Gene ID	5' leader length (nt)	Intron	CATT	FED-A	C/T-rich sequences	Other	suORF	AUG sequence context	3' UTR length (nt)
1	At3g24050	138		1x (CATT) ₁ .					GACTATGGA	215
2	At2g45050	86		-					AACAATGGA	238
3	At4g34680	77	215nt	1x (CATT) ₁ .		TCTCTCTT CCTCT			GTGAATGGA	130
4	At3g60530	71		-					AACAATGGA	236
5	At5g66320	198	325nt					33nt (incl. ATG, but not TGA). suORF to ATG, 110nt	GAAAATGGA	253
6	At3g51080	134	292nt	.				27nt (incl. ATG, but not TAA). suORF to ATG, 82nt	AATAATGGA	224
7	At4g36240	10 (very short)			1x ACAAAA/TTTTGT				AAAAATGGA	180
8	At3g54810	165	529nt	.		(TTC) ₉			AAACATGAT	455
9	At4g32890	128				CTCTTCTT CTTCTTCT		18nt (incl. ATG, but not TAA). suORF to ATG, 105nt	CTTGATGGA	147
10	At1g08000	223	322nt	1x (CATT) ₁ .					CAAGATGAA	220
11	At1g08010	175	442nt			(TC) ₆ , (TC) ₉			TAGCATGAA	276
12	At5g25830	47					3x A ₆		ACTTATGGA	85
13	At2g28340	139	861nt			(TC) ₇		102nt (incl. ATG, but not TAG). suORF to ATG, 29nt	ACAAATGAA	198
14	At3g45170	N.D.		-					AAGAATGTC	73
15	At3g06740	239			1x ACAAAA/TTTTGT	(TC) ₅		36nt (incl. ATG, but not TAG). suORF to ATG, 63nt	GGTAATGCT	202
16	At5g49300	216		.				ATGTGA	CAGAATGCT	N.D.

				1x (CATT) ₁ .				adjacent initiation and termination codons		
17	At3g16870	78		-		(TC) ₇			AAAGATGTC	166
18	At3g50870	122		-					AGCGATGAT	239
19	At4g36620	85		.		TCTCTTTC TCCTTCT CTC	3x A ₆ /T ₆		AGTGATGGG	48
20	At2g18380	79		1x (CATT) ₁ .					TTTCATGAT	258
21	At5g56860	116		1x (CATT) ₁ .		(TC) ₅		24nt (incl. ATG, but not TAG). suORF to ATG, 45nt	ATCAATGGA	365
22	At4g26150	87			1x ACAAAA/TTTTGT				GGTCATGGG	245
23	At5g26930	126		-					TTTGATGGA	136
24	At3g21175	196	600	2x (CATT) ₁ .	1x ACAAAA/TTTTGT				GACCATGGA	212
25	At4g24470	139			1x ACAAAA/TTTTGT			30nt (incl. ATG, but not TGA). suORF to ATG, 77nt Also ATGTGA.	TCCGATGTT	206
26	At4g17570	446 (very long)		1x (CATT) ₁ .	2x ACAAAA/TTTTGT		7x A ₆ /T ₆ , 4x A ₅ T/AT ₅		TATTATGGG	427
27	At5g47140	420 very long		3x (CATT) ₁ .	3x ACAAAA/TTTTGT	(TC) ₈	6x A ₆ /T ₆ .		AAAGATGGG	187
28	At1g51600	254	488nt	2x (CATT) ₁ .					AACCATGGA	273
29	At3g20750	88	189nt				2x A ₅ T.		AAAAATGGA	177

Table II, Supplemental Material. Sequences of primers used for quantitative RT-PCR analysis of GATA gene expression patterns.

^a Gene names are given according to Jeong and Shih (2003). However, primer names are based on a numbering scheme used in our laboratory before this publication. ^b Genes numbered 26-29 were not identified by Jeong and Shih (2003) and we have therefore numbered them sequentially.

Gene name	AGI code	Primer name	Primer sequence (5' – 3')
<i>GATA1^a</i>	At3g24050	GATA1(Q-PCR_left)	CTTTCACGGCGGAGTTACAT
		GATA1(Q-PCR_right)	ATCTTTCCGATCACCGTCAC
<i>GATA2</i>	At2g45050	GATA2(Q-PCR_left)	GCCAAATTCAAGCCAAAAGAA
		GATA2(Q-PCR_right)	CCGTAGTCTCCGATGACGAT
<i>GATA3</i>	At4g34680	GATA3(Q-PCR_left)	CCGGTTAAACCAAGAACCAA
		GATA3(Q-PCR_rt_2)	CTGTTGCTGCATGTTGATGA
<i>GATA4</i>	At4g60530	GATA4(Q-PCR_left)	CCCAGCAAATCCTTTAACCA
		GATA4(Q-PCR_rt_2)	AAGGTGCTGGTGCTCTTGAT
<i>GATA5</i>	At5g66320	GATA8(Q-PCR_left)	AGAGCAGCGTCAGGAAAGAG
		GATA8(Q-PCR_right)	GACGGAAAAGCCATTTTGAG
<i>GATA6</i>	At3g51080	GATA9(Q-PCR_left)	CACCGCTGATTTCCACACTA
		GATA9(Q-PCR_right)	CGGCGTGAAAGAAGAATCAT
<i>GATA7</i>	At4g36240	GATA7(Q-PCR_left_2)	GGAGACAGTGCGTTCCTGTT
		GATA7(Q-PCR_right_2)	CGGTGGATAGCAGAGGAGAT
<i>GATA8 (BME3)</i>	At3g54810	GATA11(Q-PCR_left)	CCCTTGTTCTCCCTGGAAAG
		GATA11(Q-PCR_right)	ACCGCACACATTGTCTTTGA
<i>GATA9</i>	At4g32890	GATA12(Q-PCR_left)	GTGGGCTTCCCGTCTTTTAT
		GATA12(Q-PCR_right)	CGGCGAAGTCTTGTCTTTTC
<i>GATA10</i>	At1g08000	GATA15(Q-PCR_left)	GTGAATCAGTAACCGAGGGT
		GATA15(Q-PCR_right)	AGACTCGGTGTGGGTGATC
<i>GATA11</i>	At1g08010	GATA16(Q-PCR_left)	GCAAACCTGAATCCGAGTG
		GATA16(Q-PCR_right)	AGAGACCGTGCGGGTGGT
<i>GATA12</i>	At5g25830	GATA13(Q-PCR_left)	ACCATCACGGTACGGACACT
		GATA13(Q-PCR_right)	CAACGTTGTGGTGGATCAAG
<i>GATA13</i>	At2g28340	GATA17(Q-PCR_left)	AGCTCGTACCTCCACCATTG
		GATA17(Q-PCR_right)	TCAAAAATTGGCACATGCTTC
<i>GATA14</i>	At3g45170	GATA14(Q-PCR_left)	CGAGAAAGACTCCGCTATGG

		GATA14(Q-PCR_right)	ACCTGTCCTGTATCGCATCC
<i>GATA15</i>	At3g06740	GATA24(Q-PCR_left)	AGAAACCCGAAGTTTGGGTGA
		GATA24(Q-PCR_right)	TGATCGCTGCATCATCACTT
<i>GATA16</i>	At5g49300	GATA26(Q-PCR_left)	CGGAAACCGTAAATTTGGTG
		GATA26(Q-PCR_right)	GTTGCTTCTCCACCGTTGAT
<i>GATA17</i>	At3g16870	GATA23(Q-PCR_left)	TCTGAGGGATCAGAAGATACGA
		GATA23(Q-PCR_right)	GCTGCTACTGCAGTTCTCGTT
<i>GATA18 (HAN)</i>	At3g50870	GATA22(Q-PCR_left)	GGTTCAAACCGACCAGTACG
		GATA22(Q-PCR_right)	GAGCCCACGGAGTACCATTA
<i>GATA19 (HANL2)</i>	At4g36620	GATA6(Q-PCR_left)	CTCTGCAACGAGGATGATGA
		GATA6(Q-PCR_right)	TGGAACCGTTCAAGAAGTCC
<i>GATA20 (HANL1)</i>	At2g18380	GATA21(Q-PCR_left)	GACGGCCAGAACTTAACGA
		GATA21(Q-PCR_right)	TCCACCTCCGTTGTACGAAT
<i>GATA21 (GNC)</i>	At5g56860	GATA25(Q-PCR_left)	AAGACCAACCCCATCCTCTT
		GATA25(Q-PCR_right)	CATCTTTGGGGACATCAACC
<i>GATA22</i>	At4g26150	GATA20(Q-PCR_left)	TGCCCCATAAGGTAAACACG
		GATA20(Q-PCR_right)	AGTTGCTCTGGGTCTCCAAA
<i>GATA23</i>	At5g26930	GATA5(Q-PCR_left)	TGGATCCAAGGAAGCTACTATC
		GATA5(Q-PCR_right)	TCACTGCAACACCTAATTGTCC
<i>GATA24 (ZML1)</i>	At3g21175	GATA19utr(Q-PCR_left)	ACGCAAATCTTGAGGCTGAT
		GATA19utr(Q-PCR_right)	TGGTTTCTCAGTTCTCACTGTGT
<i>GATA25 (ZIM)</i>	At4g24470	GATA18(Q-PCR_left)	AAGATACGGTGTTCGCCAAG
		GATA18(Q-PCR_right)	AGCCCCATCTGTCATCTTTG
<i>GATA26^b</i>	At4g17570	GATA27(Q-PCR_left)	AAGGGACCGGAGATTCTGTT
		GATA27(Q-PCR_right)	TGGTTTTCATAGCGCCTCTT
<i>GATA27^b</i>	At5g47140	GATA28(Q-PCR_left)	AAGATTCCCAAGAGGAAACCA
		GATA28(Q-PCR_right)	TCCTCTTGAAACCGGTATGG
<i>GATA28^b (ZML2)</i>	At1g51600	GATA29(Q-PCR_left)	TGAATCGCCTCAGGTTCTGT
		GATA29(Q-PCR_right)	TCAAATCCTGATAACCTAAATCGAG
<i>GATA29^b</i>	At3g20750	GATA30(Q-PCR_left)	TCCTATGTGGCGAAGAGGTC
		GATA30(Q-PCR_right)	TTTGGCTTTCCTCTCTTCCTC
<i>CCA1</i>	At2g46830	CCA1(Q-PCR_left)	AAGGCTCGATCTTCACTGGA
		CCA1(Q-PCR_right)	TCTCCTGCTCCATCTGAACC