

Supplementary Table 2: Alternate promoters in 5' UTR regions (genomic) of *A.thaliana*

<b>S.N o.</b>	<b>Accession No. (Rice)</b>	<b>Length and Promoter positions</b>	<b>uORF positions</b>	<b>Functions</b>
1	AT1G01080.1	Length of sequence- 1480 Promoter Pos: 357	59 to 205 138 to 161 3 to 11	33 kDa ribonucleoprotein, chloroplast, putative / RNA-binding protein cp33
2	AT1G01080.2	Length of sequence- 1493 Promoter Pos: 357	59 to 205 138 to 161 3 to 11	similar to 33 kDa ribonucleoprotein, chloroplast, putative / RNA-binding protein cp33
3	AT1G01090.1	Length of sequence- 1681 Promoter Pos: 291	No uORF	pyruvate dehydrogenase E1 component alpha subunit, chloroplast, identical to pyruvate dehydrogenase E1 alpha subunit
4	AT1G01120.1	Length of sequence- 1709 Promoter Pos: 806	No uORF	fatty acid elongase 3-ketoacyl-CoA synthase 1 (KCS1)
5	AT1G01390.1	Length of sequence- 1641 Promoter Pos: 637	No uORF	UDP-glucuronosyl/UDP-glucosyl transferase family protein
6	AT1G01470.1	Length of sequence- 680 Promoter Pos: 138	No uORF	late embryogenesis abundant protein
7	AT1G01490.1	Length of sequence- 1946 Promoter Pos: 172 Promoter Pos: 794	20 to 37	heavy-metal-associated domain-containing protein

8	AT1G01490.2	Length of sequence- 2124 Promoter Pos: 147 Promoter Pos: 1962 Promoter Pos: 769	No uORF	similar to heavy-metal-associated domain-containing
9	AT1G01610.1	Length of sequence- 2564 Promoter Pos: 1078	No uORF	Encodes a protein with glycerol-3-phosphate acyltransferase activity.
10	AT1G01650.1	Length of sequence- 4806 Promoter Pos: 112 Promoter Pos: 4749	No uORF	similar to protease-associated (PA) domain-containing protein
11	AT1G01650.2	Length of sequence- 4300 Promoter Pos: 112	337 to 474 589 to 609 171 to 650	similar to protease-associated (PA) domain-containing
12	AT1G01670.1	Length of sequence- 2931 Promoter Pos: 295	No uORF	U-box domain-containing protein
13	AT1G01680.1	Length of sequence- 1918 Promoter Pos: 1695	No uORF	U-box domain-containing protein
14	AT1G01725.1	Length of sequence- 941 Promoter Pos: 249 Promoter Pos: 329	No uORF	expressed protein
15	AT1G01750.1	Length of sequence- 162 Promoter Pos: 106	5 to 16	actin-depolymerizing factor
16	AT1G01910.1	Length of sequence- 2616 Promoter Pos: 837	No uORF	anion-transporting ATPase

17	AT1G01910.2	Length of sequence- 2602 Promoter Pos: 837	No uORF	anion-transporting ATPase
18	AT1G01910.3	Length of sequence- 2621 Promoter Pos: 837	No uORF	similar to anion-transporting ATPase family protein
19	AT1G01930.1	Length of sequence- 2973 Promoter Pos: 129	No uORF	zinc finger protein-related
20	AT1G01990.1	Length of sequence- 1033 Promoter Pos: 234	51 to 74	expressed protein
21	AT1G02020.1	Length of sequence- 2208 Promoter Pos: 787 Promoter Pos: 250	No uORF	nitroreductase family protein
22	AT1G02020.2	Length of sequence- 2208 Promoter Pos: 787 Promoter Pos: 250	No uORF	nitroreductase family protein
23	AT1G02030.1	Length of sequence- 867 Promoter Pos: 519	247 to 354 667 to 741 40 to 57 119 to 124 165 to 227 489 to 587 354 to 359 660 to 671 798 to 836	zinc finger (C2H2 type) family protein

24	AT1G02065.1	Length of sequence- 416 Promoter Pos: 364	100 to 186 41 to 100 306 to 329	squamosa promoter-binding protein-like 8 (SPL8)
25	AT1G02130.1	Length of sequence- 1743 Promoter Pos: 1698	No uORF	Ras-related protein (ARA-5)
26	AT1G02310.1	Length of sequence- 2519 Promoter Pos: 1440	No uORF	glycosyl hydrolase family protein 5 / cellulase family protein / (1-4)-beta-mannan endohydrolase
27	AT1G02340.1	Length of sequence- 1967 Promoter Pos: 1814	71 to 97	long hypocotyl in far-red 1 (HFR1) / reduced phytochrome signaling (REP1) / basic helix-loop-helix FBI1 protein (FBI1) / reduced sensitivity to far-red light (RSF1) / bHLH protein 26 (BHLH026) (BHLH26)
28	AT1G02360.1	Length of sequence- 1126 Promoter Pos: 112	No uORF	chitinase, putative, similar to chitinase precursor
29	AT1G02380.1	Length of sequence- 304 Promoter Pos: 127	No uORF	expressed protein
30	AT1G02400.1	Length of sequence- 162 Promoter Pos: 101	No uORF	gibberellin 2-oxidase, putative /
31	AT1G02460.1	Length of sequence- 2426 Promoter Pos: 249 Promoter Pos: 1457 Promoter Pos: 1026	No uORF	glycoside hydrolase family 28 protein / polygalacturonase (pectinase) family protein

32	AT1G02475.1	Length of sequence- 1415 Promoter Pos: 141	No uORF	expressed protein
33	AT1G02790.1	Length of sequence- 1777 Promoter Pos: 742	No uORF	exopolygalacturonase / galacturan 1,4-alpha-galacturonidase
34	AT1G02800.1	Length of sequence- 2887 Promoter Pos: 216 Promoter Pos: 2596	No uORF	endo-1,4-beta-glucanase / cellulase (CEL2), identical to endo-1,4-beta glucanase; ATCEL2
35	AT1G02820.1	Length of sequence- 522 Promoter Pos: 189	No uORF	late embryogenesis abundant 3 family protein / LEA3 family protein
36	AT1G02860.1	Length of sequence- 330 Promoter Pos: 139	1 to 21 267 to 275	SPX
37	AT1G02930.1	Length of sequence- 1014 Promoter Pos: 158	No uORF	glutathione S-transferase
38	AT1G03130.1	Length of sequence- 835 Promoter Pos: 113	No uORF	photosystem I reaction center subunit II
39	AT1G03180.2	Length of sequence- 578 Promoter Pos: 289	133 to 390 457 to 462 490 to 510 284 to 424 236 to 241 446 to 469 321 to 338 438 to 479	expressed protein

40	AT1G03260.1	Length of sequence- 2570 Promoter Pos: 453	100 to 141	expressed protein
41	AT1G03330.1	Length of sequence- 1314 Promoter Pos: 127	No uORF	small nuclear ribonucleoprotein D
42	AT1G03445.1	Length of sequence- 5246 Promoter Pos: 1906 Promoter Pos: 3365	No uORF	similar to kelch repeat-containing serine/threonine phosphoesterase family protein
43	AT1G03457.1	Length of sequence- 3231 Promoter Pos: 1149	No uORF	RNA-binding protein, putative
44	AT1G03457.2	Length of sequence- 3231 Promoter Pos: 1130	No uORF	RNA-binding protein, putative
45	AT1G03475.1	Length of sequence- 2125 Promoter Pos: 106	No uORF	coproporphyrinogen III oxidase
46	AT1G03530.1	Length of sequence- 2841 Promoter Pos: 2463	No uORF	expressed protein
47	AT1G03550.1	Length of sequence- 2155 Promoter Pos: 1500	5 to 34	secretory carrier membrane protein (SCAMP) family protein
48	AT1G03610.1	Length of sequence- 417 Promoter Pos: 332 Promoter Pos: 370	26 to 61	expressed protein
49	AT1G03730.1	Length of sequence- 692 Promoter Pos: 242 Promoter Pos: 378	176 to 193 45 to 143	expressed protein, similar to ESTs

50	AT1G03840.1	Length of sequence- 2552 Promoter Pos: 1051 Promoter Pos: 1782 Promoter Pos: 440	No uORF	zinc finger (C2H2 type) family protein
51	AT1G03850.1	Length of sequence- 1585 Promoter Pos: 788	No uORF	glutaredoxin family protein
52	AT1G03870.1	Length of sequence- 859 Promoter Pos: 135 Promoter Pos: 201	No uORF	fasciclin-like arabinogalactan-protein (FLA9)
53	AT1G03940.1	Length of sequence- 1409 Promoter Pos: 297 Promoter Pos: 392	No uORF	transferase family protein
54	AT1G03960.2	Length of sequence- 942 Promoter Pos: 758	847 to 861 371 to 616 477 to 524 585 to 629 636 to 692	calcium-binding EF hand family protein
55	AT1G03980.1	Length of sequence- 3764 Promoter Pos: 122 Promoter Pos: 3075	60 to 98	phytochelatin synthase 2 (PCS2)
56	AT1G04050.1	Length of sequence- 3094 Promoter Pos: 1851	No uORF	SET domain-containing protein / suppressor of variegation related 1 (SUVR1)
57	AT1G04140.1	Length of sequence- 4776	262 to 291	transducin family protein / WD-40 repeat

		Promoter Pos: 1873	73 to 117 278 to 286 3 to 20	family protein
58	AT1G04140.2	Length of sequence- 4776 Promoter Pos: 1873	262 to 291 73 to 117 278 to 286 3 to 20	transducin family protein / WD-40 repeat family protein
59	AT1G04170.1	Length of sequence- 199 Promoter Pos: 103	No uORF	eukaryotic translation initiation factor 2 subunit 3
60	AT1G04220.1	Length of sequence- 3123 Promoter Pos: 334 Promoter Pos: 284 Promoter Pos: 2023	No uORF	beta-ketoacyl-CoA synthase
61	AT1G04290.1	Length of sequence- 785 Promoter Pos: 103	58 to 69	thioesterase family protein
62	AT1G04300.1	Length of sequence- 5664 Promoter Pos: 5105 Promoter Pos: 5155	207 to 329 165 to 191	meprin and TRAF homology domain-containing protein / MATH domain-containing protein
63	AT1G04310.1	Length of sequence- 2765 Promoter Pos: 567	No uORF	ethylene receptor-related
64	AT1G04360.1	Length of sequence- 1195 Promoter Pos: 106	No uORF	zinc finger
65	AT1G04500.1	Length of sequence- 2802	No uORF	zinc finger CONSTANS-related

		Promoter Pos: 1001		
66	AT1G04510.1	Length of sequence- 174 Promoter Pos: 116	No uORF	transducin family protein / WD-40 repeat family protein
67	AT1G04510.2	Length of sequence- 174 Promoter Pos: 116	No uORF	similar to transducin family protein / WD-40 repeat family protein
68	AT1G04520.1	Length of sequence- 274 Promoter Pos: 143 Promoter Pos: 229	176 to 193 12 to 95	33 kDa secretory protein-related
69	AT1G04570.1	Length of sequence- 1872 Promoter Pos: 258	12 to 17 51 to 77	integral membrane transporter family protein
70	AT1G04620.1	Length of sequence- 3747 Promoter Pos: 105	No uORF	coenzyme F420 hydrogenase family / dehydrogenase, beta subunit family
71	AT1G04660.1	Length of sequence- 820 Promoter Pos: 408	121 to 153 235 to 276 128 to 136 170 to 181 228 to 302 312 to 317 342 to 386	glycine-rich protein
72	AT1G04680.1	Length of sequence- 4251 Promoter Pos: 1365 Promoter Pos: 1984	No uORF	pectate lyase family protein
73	AT1G04820.1	Length of sequence- 2075	No uORF	tubulin alpha-2/alpha-4 chain (TUA4)

		Promoter Pos: 1136		
74	AT1G04920.1	Length of sequence- 4254 Promoter Pos: 2438	No uORF	sucrose-phosphate synthase
75	AT1G05010.1	Length of sequence- 1505 Promoter Pos: 129	13 to 66	1-aminocyclopropane-1-carboxylate oxidase / ACC oxidase / ethylene-forming enzyme (ACO) (EAT1)
76	AT1G05020.1	Length of sequence- 2091 Promoter Pos: 148	No uORF	epsin N-terminal homology (ENTH) domain-containing protein / clathrin assembly protein-related
77	AT1G05060.1	Length of sequence- 1800 Promoter Pos: 235	No uORF	expressed protein
78	AT1G05070.1	Length of sequence- 1463 Promoter Pos: 158	No uORF	expressed protein
79	AT1G05170.1	Length of sequence- 2820 Promoter Pos: 2494	204 to 227	galactosyltransferase family protein
80	AT1G05200.1	Length of sequence- 227 Promoter Pos: 104	168 to 176	glutamate receptor family protein
81	AT1G05230.1	Length of sequence- 4241 Promoter Pos: 804 Promoter Pos: 1943	3 to 44	homeobox-leucine zipper family protein / lipid-binding START domain-containing protein
82	AT1G05230.2	Length of sequence- 5589 Promoter Pos: 180 Promoter Pos: 2361	243 to 263	homeobox-leucine zipper family protein / lipid-binding START domain-containing protein

		Promoter Pos: 3500 Promoter Pos: 739		
83	AT1G05280.1	Length of sequence- 1970 Promoter Pos: 135	No uORF	fringe-related protein
84	AT1G05300.1	Length of sequence- 2603 Promoter Pos: 114 Promoter Pos: 1054	No uORF	metal transporter, putative (ZIP5)
85	AT1G05300.2	Length of sequence- 2493 Promoter Pos: 117 Promoter Pos: 1057	No uORF	metal transporter, putative (ZIP)
86	AT1G05560.1	Length of sequence- 1585 Promoter Pos: 215	No uORF	UDP-glucose transferase
87	AT1G05570.1	Length of sequence- 10957 Promoter Pos: 5541	No uORF	similar to glycosyl transferase family 48 protein
88	AT1G05580.1	Length of sequence- 3330 Promoter Pos: 1973	13 to 57	cation/hydrogen exchanger, putative (CHX23), monovalent cation:proton antiporter family 2 (CPA2) member
89	AT1G05580.2	Length of sequence- 3024 Promoter Pos: 1977	151 to 249 230 to 298 17 to 61 111 to 383	similar to cation/hydrogen exchanger
90	AT1G05630.1	Length of sequence- 165	No uORF	similar to

		Promoter Pos: 103		endonuclease/exonuclease/phosphatase family protein
91	AT1G05670.1	Length of sequence- 4141 Promoter Pos: 1692	No uORF	UDP-glucuronosyl/UDP-glucosyl transferase family protein
92	AT1G05730.1	Length of sequence- 552 Promoter Pos: 462	232 to 354 7 to 12 338 to 382 354 to 431	expressed protein
93	AT1G05890.1	Length of sequence- 274 Promoter Pos: 187	No uORF	zinc finger protein-related
94	AT1G05940.1	Length of sequence- 2764 Promoter Pos: 147	No uORF	amino acid permease family protein
95	AT1G05960.1	Length of sequence- 7324 Promoter Pos: 7042	No uORF	expressed protein, similar to hypothetical protein
96	AT1G06000.1	Length of sequence- 1494 Promoter Pos: 324	No uORF	UDP-glucuronosyl/UDP-glucosyl transferase family protein, contains similarity to UDP
97	AT1G06070.1	Length of sequence- 2570 Promoter Pos: 2243	11 to 115	bZIP transcription factor
98	AT1G06110.1	Length of sequence- 1861 Promoter Pos: 1026	No uORF	F-box family protein, contains similarity to F-box protein FBX3
99	AT1G06220.1	Length of sequence- 156 Promoter Pos: 107	No uORF	elongation factor Tu family protein
100	AT1G06220.2	Length of sequence- 289	202 to 207	elongation factor Tu family protein, similar to

		Promoter Pos: 132	152 to 175 218 to 241	Cryptosporidium parvum elongation factor-2
101	AT1G06230.1	Length of sequence- 431 Promoter Pos: 116	309 to 326 99 to 104	DNA-binding bromodomain-containing protein
102	AT1G06350.1	Length of sequence- 1496 Promoter Pos: 1054	No uORF	fatty acid desaturase family protein
103	AT1G06360.1	Length of sequence- 1454 Promoter Pos: 1051	No uORF	fatty acid desaturase family protein
104	AT1G06440.1	Length of sequence- 1525 Promoter Pos: 104	42 to 62	expressed protein
105	AT1G06460.1	Length of sequence- 2579 Promoter Pos: 2452	No uORF	31.2 kDa small heat shock family protein / hsp20 family protein
106	AT1G06520.1	Length of sequence- 2089 Promoter Pos: 193	No uORF	Encodes a membrane associated mitochondrial localized protein with glycerol-3-phosphate acyltransferase activity
107	AT1G06590.1	Length of sequence- 8197 Promoter Pos: 4465	No uORF	expressed protein
108	AT1G06700.2	Length of sequence- 2600 Promoter Pos: 304	No uORF	similar to serine/threonine protein kinase
109	AT1G06890.1	Length of sequence- 2771 Promoter Pos: 102	145 to 156 137 to 145	transporter-related
110	AT1G07020.1	Length of sequence- 983 Promoter Pos: 801	No uORF	expressed protein

111	AT1G07040.1	Length of sequence- 2090 Promoter Pos: 234 Promoter Pos: 331	119 to 124 155 to 199 45 to 62	expressed protein
112	AT1G07090.1	Length of sequence- 840 Promoter Pos: 766 Promoter Pos: 114	No uORF	expressed protein
113	AT1G07140.1	Length of sequence- 1965 Promoter Pos: 102	No uORF	Ran-binding protein 1a (RanBP1a)
114	AT1G07160.1	Length of sequence- 1770 Promoter Pos: 245	No uORF	protein phosphatase 2C, putative / PP2C
115	AT1G07230.1	Length of sequence- 2525 Promoter Pos: 150	86 to 121	phosphoesterase family protein
116	AT1G07240.1	Length of sequence- 198 Promoter Pos: 139	11 to 166 102 to 131	UDP-glucuronosyl/UDP-glucosyl transferase family protein
117	AT1G07260.1	Length of sequence- 1584 Promoter Pos: 120 Promoter Pos: 202	32 to 64	UDP-glucuronosyl/UDP-glucosyl transferase family protein
118	AT1G07310.1	Length of sequence- 1324 Promoter Pos: 625	20 to 37 30 to 80	C2 domain-containing protein
119	AT1G07400.1	Length of sequence- 205 Promoter Pos: 114	No uORF	17.8 kDa class I heat shock protein (HSP17.8-CI)
120	AT1G07420.2	Length of sequence- 414 Promoter Pos: 101	142 to 276 289 to 294	sterol 4-alpha-methyl-oxidase 2 (SMO2), identical to sterol 4-alpha-methyl-oxidase

			119 to 142 54 to 308 357 to 365	
121	AT1G07480.1	Length of sequence- 2835 Promoter Pos: 2717	No uORF	transcription factor IIA large subunit / TFIIA large subunit (TFIIA-L)
122	AT1G07490.1	Length of sequence- 469 Promoter Pos: 355 Promoter Pos: 132	No uORF	expressed protein
123	AT1G07530.1	Length of sequence- 2656 Promoter Pos: 460	No uORF	scarecrow-like transcription factor 14 (SCL14)
124	AT1G07550.1	Length of sequence- 3857 Promoter Pos: 1062 Promoter Pos: 3107	No uORF	leucine-rich repeat protein kinase
125	AT1G07640.2	Length of sequence- 1444 Promoter Pos: 214	31 to 57 84 to 89	Dof-type zinc finger domain-containing protein, identical to zinc finger protein OBP2
126	AT1G07640.3	Length of sequence- 1658 Promoter Pos: 454	No uORF	similar to Dof-type zinc finger domain-containing protein
127	AT1G07650.1	Length of sequence- 6866 Promoter Pos: 561 Promoter Pos: 1383	64 to 105	leucine-rich repeat transmembrane protein kinase
128	AT1G07725.1	Length of sequence- 1804 Promoter Pos: 159	28 to 45 45 to 125	exocyst subunit EXO70 family protein
129	AT1G07740.1	Length of sequence- 3054	No uORF	pentatricopeptide (PPR) repeat-containing

		Promoter Pos: 1764		protein
130	AT1G07780.1	Length of sequence- 2269 Promoter Pos: 761	82 to 87	phosphoribosylanthranilate isomerase 1 (PAI1)
131	AT1G07780.2	Length of sequence- 2295 Promoter Pos: 742	No uORF	phosphoribosylanthranilate isomerase 1 (PAI1)
132	AT1G07780.3	Length of sequence- 1594 Promoter Pos: 755	466 to 519 350 to 406 519 to 527	phosphoribosylanthranilate isomerase 1 (PAI1)
133	AT1G07880.1	Length of sequence- 1678 Promoter Pos: 341	No uORF	mitogen-activated protein kinase, putative / MAPK, putative (MPK13), mitogen-activated protein kinase (MAPK)(AtMPK13)
134	AT1G07880.2	Length of sequence- 1653 Promoter Pos: 323	No uORF	similar to mitogen-activated protein kinase, putative / MAPK, putative (MPK6)
135	AT1G07890.4	Length of sequence- 238 Promoter Pos: 148 Promoter Pos: 120	23 to 70 108 to 149	similar to L-ascorbate peroxidase 1b (APX1b)
136	AT1G07890.5	Length of sequence- 238 Promoter Pos: 148 Promoter Pos: 120	23 to 70 108 to 149	similar to L-ascorbate peroxidase 1b (APX1b)
137	AT1G07980.1	Length of sequence- 1745 Promoter Pos: 1653	No uORF	histone-like transcription factor (CBF/NF-Y) family protein
138	AT1G08000.1	Length of sequence- 1643 Promoter Pos: 119	7 to 27 68 to 79	zinc finger

		Promoter Pos: 239		
139	AT1G08010.1	Length of sequence- 1938 Promoter Pos: 102	No uORF	zinc finger
140	AT1G08050.1	Length of sequence- 2475 Promoter Pos: 268	No uORF	zinc finger
141	AT1G08060.1	Length of sequence- 9033 Promoter Pos: 4851	8 to 25 162 to 167	MOM1, identical to MOM1
142	AT1G08060.2	Length of sequence- 8746 Promoter Pos: 8452 Promoter Pos: 4296	No uORF	MOM1, identical to MOM1
143	AT1G08070.1	Length of sequence- 2407 Promoter Pos: 128	No uORF	pentatricopeptide (PPR) repeat-containing protein
144	AT1G08125.1	Length of sequence- 2589 Promoter Pos: 659	No uORF	Expressed protein
145	AT1G08130.1	Length of sequence- 5113 Promoter Pos: 175	No uORF	DNA ligase / polydeoxyribonucleotide synthase (ATP)
146	AT1G08140.1	Length of sequence- 3031 Promoter Pos: 1533	No uORF	cation/hydrogen exchanger (CHX6a)
147	AT1G08160.1	Length of sequence- 850 Promoter Pos: 436	No uORF	harpin-induced protein-related / HIN1-related / harpin-responsive protein-related
148	AT1G08200.1	Length of sequence- 2749 Promoter Pos: 2518	No uORF	expressed protein
149	AT1G08210.1	Length of sequence- 3557	No uORF	aspartyl protease family protein

		Promoter Pos: 2171 Promoter Pos: 1236		
150	AT1G08220.1	Length of sequence- 2266 Promoter Pos: 1698	No uORF	expressed protein
151	AT1G08250.1	Length of sequence- 1378 Promoter Pos: 722 Promoter Pos: 838	No uORF	prephenate dehydratase family protein
152	AT1G08290.1	Length of sequence- 3184 Promoter Pos: 990 Promoter Pos: 1726	No uORF	zinc finger (C2H2 type) protein (WIP3
153	AT1G08320.1	Length of sequence- 5718 Promoter Pos: 243 Promoter Pos: 2480 Promoter Pos: 1500 Promoter Pos: 5046	No uORF	bZIP family transcription factor
154	AT1G08320.2	Length of sequence- 3821 Promoter Pos: 494 Promoter Pos: 3060	No uORF	similar to bZIP family transcription factor
155	AT1G08320.3	Length of sequence- 5547 Promoter Pos: 116 Promoter Pos: 2353 Promoter Pos: 1373 Promoter Pos: 4919	17 to 70	similar to bZIP family transcription factor

156	AT1G08450.1	Length of sequence- 3961 Promoter Pos: 2687 Promoter Pos: 176	1 to 9	calreticulin 3 (CRT3)
157	AT1G08450.2	Length of sequence- 3961 Promoter Pos: 2687 Promoter Pos: 176	1 to 9	calreticulin 3 (CRT3)
158	AT1G08470.1	Length of sequence- 1850 Promoter Pos: 206	No uORF	strictosidine synthase family protein
159	AT1G08490.1	Length of sequence- 2888 Promoter Pos: 183	No uORF	cysteine desulfurase, putative
160	AT1G08550.2	Length of sequence- 243 Promoter Pos: 169	No uORF	similar to violaxanthin de-epoxidase-related
161	AT1G08580.1	Length of sequence- 1268 Promoter Pos: 152	No uORF	expressed protein
162	AT1G08630.2	Length of sequence- 3966 Promoter Pos: 462	No uORF	L-allo-threonine aldolase-related
163	AT1G08630.4	Length of sequence- 4037 Promoter Pos: 466	No uORF	similar to threonine aldolase family protein
164	AT1G08660.1	Length of sequence- 2636 Promoter Pos: 256	No uORF	glycosyl transferase family 29 protein / sialyltransferase family protein
165	AT1G08660.2	Length of sequence- 2634 Promoter Pos: 255	No uORF	glycosyl transferase family 29 protein
166	AT1G08700.1	Length of sequence- 1533	93 to 98	presenilin family protein

		Promoter Pos: 481		
167	AT1G09060.1	Length of sequence- 4611 Promoter Pos: 108	23 to 40	transcription factor jumonji (jmjC) domain-containing protein
168	AT1G09060.2	Length of sequence- 4587 Promoter Pos: 124	63 to 80	transcription factor jumonji (jmjC) domain-containing protein
169	AT1G09060.3	Length of sequence- 4613 Promoter Pos: 141	No uORF	similar to transcription factor jumonji (jmjC) domain-containing protein
170	AT1G09140.1	Length of sequence- 3147 Promoter Pos: 2852	No uORF	SF2/ASF-like splicing modulator (SRP30),
171	AT1G09140.2	Length of sequence- 3254 Promoter Pos: 2872	No uORF	similar to pre-mRNA splicing factor SF2 (SF2) / SR1 protein
172	AT1G09155.1	Length of sequence- 1166 Promoter Pos: 105	48 to 74	SKP1 interacting partner 3-related
173	AT1G09230.1	Length of sequence- 3043 Promoter Pos: 1304	24 to 35	RNA recognition motif (RRM)-containing protein
174	AT1G09280.1	Length of sequence- 3703 Promoter Pos: 2207	No uORF	expressed protein
175	AT1G09280.2	Length of sequence- 3703 Promoter Pos: 2207	No uORF	expressed protein
176	AT1G09290.1	Length of sequence- 2198 Promoter Pos: 184	No uORF	expressed protein
177	AT1G09400.1	Length of sequence- 1392 Promoter Pos: 189	No uORF	12-oxophytodienoate reductase

178	AT1G09420.1	Length of sequence- Promoter Pos: 2852	3253 57 to 74	Encodes a protein similar to glucose-6-phosphate dehydrogenase
179	AT1G09530.1	Length of sequence- Promoter Pos: 160	210 147 to 155	phytochrome interacting factor 3 (PIF3),
180	AT1G09530.2	Length of sequence- Promoter Pos: 140	250 127 to 135	phytochrome interacting factor 3 (PIF3)
181	AT1G09570.1	Length of sequence- Promoter Pos: 265	4883 137 to 145	phytochrome A (PHYA)
182	AT1G09660.1	Length of sequence- Promoter Pos: 1222	3094 20 to 52 15 to 20	KH domain-containing quaking protein
183	AT1G09660.2	Length of sequence- Promoter Pos: 1197	3084 No uORF	KH domain-containing quaking protein
184	AT1G09830.1	Length of sequence- Promoter Pos: 151 Promoter Pos: 133	2255 No uORF	phosphoribosylamine--glycine ligase (PUR2)
185	AT1G09840.1	Length of sequence- Promoter Pos: 3973	4112 229 to 279 171 to 263	shaggy-related protein kinase kappa / ASK-kappa (ASK10)
186	AT1G09840.2	Length of sequence- Promoter Pos: 3980	4195 95 to 187 153 to 203	shaggy-related protein kinase kappa / ASK-kappa (ASK10)
187	AT1G09840.4	Length of sequence- Promoter Pos: 4017	4195 136 to 240 195 to 224 3 to 44	similar to shaggy-related protein kinase kappa, putative / ASK-kappa
188	AT1G09910.1	Length of sequence-	4416 No uORF	expressed protein

		Promoter Pos: 176		
189	AT1G09940.1	Length of sequence- 2267 Promoter Pos: 475	40 to 51	glutamyl-tRNA reductase 2
190	AT1G09970.1	Length of sequence- 168 Promoter Pos: 110	No uORF	leucine-rich repeat transmembrane protein kinase
191	AT1G10040.1	Length of sequence- 2573 Promoter Pos: 164	22 to 111 122 to 196 6 to 80	expressed protein
192	AT1G10040.2	Length of sequence- 2545 Promoter Pos: 166	124 to 198 8 to 82 24 to 113	expressed protein
193	AT1G10120.1	Length of sequence- 1942 Promoter Pos: 1758	38 to 46	similar to basic helix-loop-helix (bHLH) family protein
194	AT1G10140.1	Length of sequence- 671 Promoter Pos: 225	No uORF	expressed protein
195	AT1G10180.1	Length of sequence- 3191 Promoter Pos: 133	No uORF	expressed protein
196	AT1G10190.1	Length of sequence- 1905 Promoter Pos: 1157	No uORF	expressed protein
197	AT1G10400.1	Length of sequence- 1200 Promoter Pos: 285 Promoter Pos: 748	No uORF	UDP-glucuronosyl/UDP-glucosyl transferase family protein
198	AT1G10410.1	Length of sequence- 2579	334 to 348	expressed protein

		Promoter Pos: 140 Promoter Pos: 564	320 to 355 216 to 242	
199	AT1G10460.1	Length of sequence- 909 Promoter Pos: 128	No uORF	germin-like protein
200	AT1G10470.1	Length of sequence- 1432 Promoter Pos: 108	No uORF	two-component responsive regulator / response regulator 4 (ARR4)
201	AT1G10585.1	Length of sequence- 1147 Promoter Pos: 183 Promoter Pos: 248	No uORF	similar to basic helix-loop-helix (bHLH) family protein
202	AT1G10610.1	Length of sequence- 277 Promoter Pos: 127 Promoter Pos: 213	103 to 207 66 to 152	basic helix-loop-helix (bHLH) family protein
203	AT1G10690.1	Length of sequence- 576 Promoter Pos: 413	No uORF	expressed protein
204	AT1G10750.1	Length of sequence- 3503 Promoter Pos: 365 Promoter Pos: 123	13 to 90 68 to 79	expressed protein
205	AT1G10770.1	Length of sequence- 729 Promoter Pos: 238	No uORF	invertase/pectin methylesterase inhibitor family protein
206	AT1G10820.1	Length of sequence- 3845 Promoter Pos: 114	No uORF	expressed protein
207	AT1G10830.1	Length of sequence- 1860 Promoter Pos: 133	No uORF	sodium symporter-related

208	AT1G10840.1	Length of sequence- 2668 Promoter Pos: 115	No uORF	eukaryotic translation initiation factor 3 subunit 3 / eIF-3 gamma / eIF3h (TIF3H1)
209	AT1G10870.1	Length of sequence- 7002 Promoter Pos: 1041	No uORF	ARF
210	AT1G10880.1	Length of sequence- 2986 Promoter Pos: 294 Promoter Pos: 955 Promoter Pos: 1486	No uORF	expressed protein
211	AT1G10900.1	Length of sequence- 4650 Promoter Pos: 101	187 to 192 140 to 172	phosphatidylinositol-4-phosphate 5-kinase family protein
212	AT1G10930.1	Length of sequence- 7485 Promoter Pos: 3770	No uORF	DNA helicase (RECQ14A)
213	AT1G10990.1	Length of sequence- 813 Promoter Pos: 314	No uORF	expressed protein
214	AT1G10990.2	Length of sequence- 813 Promoter Pos: 314	No uORF	expressed protein
215	AT1G11020.1	Length of sequence- 277 Promoter Pos: 120	175 to 207 86 to 172	zinc finger
216	AT1G11080.1	Length of sequence- 3052 Promoter Pos: 203 Promoter Pos: 920 Promoter Pos: 2633	161 to 178 33 to 80	serine carboxypeptidase S10 family protein
217	AT1G11130.1	Length of sequence- 278	103 to 120	leucine-rich repeat family protein / protein

		Promoter Pos: 138		kinase family protein
218	AT1G11170.2	Length of sequence- 521 Promoter Pos: 119	412 to 435 416 to 448 261 to 284	expressed protein
219	AT1G11190.1	Length of sequence- 2630 Promoter Pos: 1285	8 to 19	bifunctional nuclease (BFN1)
220	AT1G11270.2	Length of sequence- 6347 Promoter Pos: 1816 Promoter Pos: 2349	62 to 88 57 to 62	F-box family protein
221	AT1G11270.3	Length of sequence- 6330 Promoter Pos: 1816 Promoter Pos: 2349	62 to 88 57 to 62	F-box family protein
222	AT1G11310.1	Length of sequence- 3123 Promoter Pos: 1061	84 to 104	seven transmembrane MLO family protein / MLO-like protein 2 (MLO2)
223	AT1G11360.1	Length of sequence- 1439 Promoter Pos: 106	No uORF	universal stress protein (USP) family protein
224	AT1G11360.2	Length of sequence- 1370 Promoter Pos: 106	No uORF	universal stress protein (USP) family protein
225	AT1G11400.1	Length of sequence- 200 Promoter Pos: 144	No uORF	expressed protein
226	AT1G11400.2	Length of sequence- 236 Promoter Pos: 173 Promoter Pos: 105	No uORF	expressed protein

227	AT1G11540.1	Length of sequence- 1813 Promoter Pos: 1761	41 to 79	expressed protein
228	AT1G11630.1	Length of sequence- 1483 Promoter Pos: 302 Promoter Pos: 422	No uORF	pentatricopeptide (PPR) repeat-containing protein
229	AT1G11670.1	Length of sequence- 3300 Promoter Pos: 472	No uORF	MATE efflux family protein
230	AT1G11940.1	Length of sequence- 2366 Promoter Pos: 349	98 to 115	expressed protein
231	AT1G12020.1	Length of sequence- 843 Promoter Pos: 121 Promoter Pos: 111	No uORF	expressed protein
232	AT1G12090.1	Length of sequence- 742 Promoter Pos: 163 Promoter Pos: 148	10 to 36	protease inhibitor/seed storage/lipid transfer protein (LTP) family protein
233	AT1G12380.1	Length of sequence- 2618 Promoter Pos: 632	160 to 198 107 to 169	expressed protein
234	AT1G12430.1	Length of sequence- 4679 Promoter Pos: 4318 Promoter Pos: 2484	No uORF	armadillo/beta-catenin repeat family protein / kinesin motor family protein
235	AT1G12440.1	Length of sequence- 1178 Promoter Pos: 829	No uORF	zinc finger (AN1-like) family protein
236	AT1G12500.1	Length of sequence- 1807	No uORF	phosphate translocator-related

		Promoter Pos: 207 Promoter Pos: 284		
237	AT1G12520.1	Length of sequence- 1596 Promoter Pos: 169	No uORF	superoxide dismutase copper chaperone
238	AT1G12520.2	Length of sequence- 1440 Promoter Pos: 172	194 to 307	similar to superoxide dismutase (Cu-Zn)
239	AT1G12520.3	Length of sequence- 1289 Promoter Pos: 163	391 to 408 185 to 424 291 to 296 366 to 395	similar to superoxide dismutase (Cu-Zn)
240	AT1G12570.1	Length of sequence- 2751 Promoter Pos: 792 Promoter Pos: 1498	No uORF	glucose-methanol-choline
241	AT1G12600.1	Length of sequence- 2445 Promoter Pos: 1078	No uORF	expressed protein
242	AT1G12730.2	Length of sequence- 292 Promoter Pos: 242	No uORF	cell division cycle protein-related
243	AT1G12780.1	Length of sequence- 2194 Promoter Pos: 101	No uORF	Encodes a UDP-glucose epimerase
244	AT1G12790.1	Length of sequence- 2071 Promoter Pos: 1858	No uORF	expressed protein
245	AT1G12850.1	Length of sequence- 1870 Promoter Pos: 330	No uORF	phosphoglycerate/bisphosphoglycerate mutase family protein

246	AT1G13030.1	Length of sequence- 3235 Promoter Pos: 1662	No uORF	sphere organelles protein-related
247	AT1G13210.1	Length of sequence- 4811 Promoter Pos: 3982	12 to 29	haloacid dehalogenase-like hydrolase family protein
248	AT1G13250.1	Length of sequence- 1379 Promoter Pos: 438	No uORF	glycosyl transferase family 8 protein
249	AT1G13260.1	Length of sequence- 218 Promoter Pos: 135 Enhancer Pos: 170	No uORF	DNA-binding protein RAV1 (RAV1)
250	AT1G13290.1	Length of sequence- 1374 Promoter Pos: 148	No uORF	zinc finger (C2H2 type) family protein
251	AT1G13310.1	Length of sequence- 1188 Promoter Pos: 554	No uORF	expressed protein
252	AT1G13320.1	Length of sequence- 4148 Promoter Pos: 2386 Promoter Pos: 3829	No uORF	serine/threonine protein phosphatase 2A (PP2A) 65 kDa regulatory subunit
253	AT1G13320.2	Length of sequence- 4185 Promoter Pos: 2387 Promoter Pos: 3830	No uORF	similar to serine/threonine protein phosphatase 2A (PP2A) regulatory subunit A (RCN1)
254	AT1G13350.1	Length of sequence- 4128 Promoter Pos: 160	No uORF	protein kinase family protein, contains protein kinase domain
255	AT1G13390.2	Length of sequence- 1615 Promoter Pos: 110	No uORF	expressed protein

		Promoter Pos: 626 Promoter Pos: 566		
256	AT1G13450.1	Length of sequence- 2358 Promoter Pos: 251	No uORF	DNA binding protein
257	AT1G13450.2	Length of sequence- 2384 Promoter Pos: 399	34 to 81	similar to DNA-binding protein
258	AT1G13600.1	Length of sequence- 590 Promoter Pos: 181	No uORF	bZIP transcription factor family protein
259	AT1G13610.1	Length of sequence- 2140 Promoter Pos: 853	No uORF	similar to expressed protein
260	AT1G13610.2	Length of sequence- 1845 Promoter Pos: 867	190 to 207 232 to 252 292 to 330	similar to expressed protein
261	AT1G13700.1	Length of sequence- 1953 Promoter Pos: 1893	No uORF	glucosamine/galactosamine-6-phosphate isomerase family protein
262	AT1G13730.1	Length of sequence- 264 Promoter Pos: 153	No uORF	nuclear transport factor 2 (NTF2) family protein / RNA recognition motif (RRM)-containing protein
263	AT1G14030.1	Length of sequence- 2134 Promoter Pos: 155	No uORF	ribulose-1,5 bisphosphate carboxylase oxygenase large subunit N-methyltransferase
264	AT1G14160.1	Length of sequence- 963 Promoter Pos: 850 Promoter Pos: 171	48 to 53	integral membrane family protein

265	AT1G14210.1	Length of sequence- 1163 Promoter Pos: 188	No uORF	ribonuclease T2 family protein
266	AT1G14260.2	Length of sequence- 158 Promoter Pos: 111	No uORF	zinc finger
267	AT1G14360.1	Length of sequence- 2400 Promoter Pos: 207	No uORF	UDP-galactose/UDP-glucose transporter
268	AT1G14380.1	Length of sequence- 3836 Promoter Pos: 3564	53 to 76	calmodulin-binding family protein
269	AT1G14380.2	Length of sequence- 3836 Promoter Pos: 3564	53 to 76	calmodulin-binding family protein
270	AT1G14380.3	Length of sequence- 3827 Promoter Pos: 3503	No uORF	similar to calmodulin-binding family protein
271	AT1G14410.1	Length of sequence- 1687 Promoter Pos: 115	No uORF	DNA-binding protein-related
272	AT1G14510.1	Length of sequence- 2267 Promoter Pos: 130	81 to 86	PHD finger family protein
273	AT1G14580.1	Length of sequence- 256 Promoter Pos: 107	No uORF	zinc finger (C2H2 type) family protein
274	AT1G14590.1	Length of sequence- 1801 Promoter Pos: 254	No uORF	expressed protein, similar to
275	AT1G14685.1	Length of sequence- 235 Promoter Pos: 132 Promoter Pos: 119	No uORF	expressed protein

276	AT1G14687.1	Length of sequence- 243 Promoter Pos: 181	27 to 59	zinc finger homeobox family protein / ZF-HD homeobox family protein
277	AT1G14710.1	Length of sequence- 2991 Promoter Pos: 2604	130 to 141	hydroxyproline-rich glycoprotein family protein
278	AT1G14710.2	Length of sequence- 2831 Promoter Pos: 2624	310 to 321 239 to 259	hydroxyproline-rich glycoprotein family protein
279	AT1G14720.1	Length of sequence- 1830 Promoter Pos: 134 Promoter Pos: 158 Promoter Pos: 942	No uORF	xyloglucan:xyloglucosyl transferase / xyloglucan endotransglycosylase / endo-xyloglucan transferase (XTR2)
280	AT1G14790.1	Length of sequence- 4491 Promoter Pos: 4058	48 to 113	RNA-dependent RNA polymerase
281	AT1G14810.1	Length of sequence- 2209 Promoter Pos: 102	No uORF	semialdehyde dehydrogenase family protein
282	AT1G14860.1	Length of sequence- 251 Promoter Pos: 106 Promoter Pos: 162	No uORF	MutT/nudix family protein
283	AT1G14960.1	Length of sequence- 793 Promoter Pos: 179	No uORF	major latex protein-related / MLP-related
284	AT1G15020.1	Length of sequence- 3008 Promoter Pos: 335 Promoter Pos: 529	No uORF	Encodes a protein disulfide isomerase-like (PDIL) protein
285	AT1G15020.2	Length of sequence- 2980	No uORF	thioredoxin family protein

		Promoter Pos: 335 Promoter Pos: 529		
286	AT1G15040.1	Length of sequence- 1693 Promoter Pos: 144	No uORF	glutamine amidotransferase-related
287	AT1G15040.2	Length of sequence- 1693 Promoter Pos: 143	No uORF	glutamine amidotransferase-related
288	AT1G15110.1	Length of sequence- 194 Promoter Pos: 107	No uORF	phosphatidyl serine synthase family protein
289	AT1G15130.1	Length of sequence- 3846 Promoter Pos: 3563 Promoter Pos: 264	No uORF	hydroxyproline-rich glycoprotein family protein
290	AT1G15140.1	Length of sequence- 1931 Promoter Pos: 215 Promoter Pos: 280	5 to 46 51 to 59	oxidoreductase NAD-binding domain-containing protein
291	AT1G15140.2	Length of sequence- 1855 Promoter Pos: 215 Promoter Pos: 280	5 to 46 51 to 59	oxidoreductase NAD-binding domain-containing protein
292	AT1G15140.3	Length of sequence- 1855 Promoter Pos: 215 Promoter Pos: 280	5 to 46 51 to 59	oxidoreductase NAD-binding domain-containing protein
293	AT1G15240.1	Length of sequence- 349 Promoter Pos: 167	246 to 254	phox (PX) domain-containing protein
294	AT1G15385.1	Length of sequence- 441	No uORF	expressed protein

		Promoter Pos: 362		
295	AT1G15410.1	Length of sequence- 633 Promoter Pos: 278	384 to 440 63 to 104	aspartate-glutamate racemase family
296	AT1G15420.1	Length of sequence- 1683 Promoter Pos: 114	No uORF	expressed protein
297	AT1G15550.1	Length of sequence- 1600 Promoter Pos: 127 Promoter Pos: 735	No uORF	gibberellin 3-beta-dioxygenase / gibberellin 3 beta-hydroxylase
298	AT1G15750.1	Length of sequence- 6101 Promoter Pos: 3892 Promoter Pos: 5326	60 to 89	WD-40 repeat family protein
299	AT1G15750.2	Length of sequence- 6364 Promoter Pos: 4126 Promoter Pos: 5560	31 to 60 26 to 46	WD-40 repeat family protein
300	AT1G15750.3	Length of sequence- 5994 Promoter Pos: 4058 Promoter Pos: 5492	226 to 255 8 to 151	similar to WD-40 repeat family protein
301	AT1G15750.4	Length of sequence- 6399 Promoter Pos: 4175 Promoter Pos: 5609	75 to 83	similar to WD-40 repeat family protein
302	AT1G15800.1	Length of sequence- 2502 Promoter Pos: 751	No uORF	expressed protein, similar to expressed protein
303	AT1G15880.1	Length of sequence- 1554	No uORF	

		Promoter Pos: 1281		
304	AT1G15920.2	Length of sequence- 427 Promoter Pos: 223 Promoter Pos: 175	304 to 327 379 to 396	CCR4-NOT transcription complex protein
305	AT1G16030.1	Length of sequence- 2120 Promoter Pos: 121 Promoter Pos: 142	No uORF	heat shock protein 70, putative / HSP70
306	AT1G16170.1	Length of sequence- 808 Promoter Pos: 110	No uORF	expressed protein
307	AT1G16510.1	Length of sequence- 655 Promoter Pos: 165	121 to 168 81 to 110	auxin-responsive family protein
308	AT1G16610.1	Length of sequence- 2982 Promoter Pos: 214	No uORF	arginine/serine-rich protein
309	AT1G16610.2	Length of sequence- 2956 Promoter Pos: 175	No uORF	arginine/serine-rich protein
310	AT1G16630.1	Length of sequence- 2631 Promoter Pos: 119	No uORF	expressed protein
311	AT1G16670.1	Length of sequence- 255 Promoter Pos: 143 Promoter Pos: 116	97 to 150	protein kinase family protein
312	AT1G16840.1	Length of sequence- 1271 Promoter Pos: 117	No uORF	expressed protein
313	AT1G16840.2	Length of sequence- 1278	No uORF	expressed protein

		Promoter Pos: 113		
314	AT1G16870.1	Length of sequence- 2422 Promoter Pos: 1173	No uORF	mitochondrial 28S ribosomal protein S29-related
315	AT1G16970.1	Length of sequence- 4813 Promoter Pos: 3530	No uORF	Ku70-like protein, identical to Ku70-like protein
316	AT1G17060.1	Length of sequence- 3158 Promoter Pos: 1629 Promoter Pos: 115	105 to 113	cytochrome P450
317	AT1G17210.1	Length of sequence- 4527 Promoter Pos: 2509	No uORF	expressed protein
318	AT1G17220.1	Length of sequence- 300 Promoter Pos: 102	148 to 171 205 to 240 240 to 245	translation initiation factor IF-2
319	AT1G17370.1	Length of sequence- 3283 Promoter Pos: 374	No uORF	oligouridylate-binding protein
320	AT1G17380.1	Length of sequence- 1582 Promoter Pos: 127 Promoter Pos: 1274	1 to 9	expressed protein
321	AT1G17440.1	Length of sequence- 3672 Promoter Pos: 2180 Promoter Pos: 476 Promoter Pos: 3518	No uORF	transcription initiation factor IID (TFIID) subunit A family protein