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*Published in:*  
Plant Growth Regulation

*DOI:*  
[10.1007/s10725-009-9407-7](https://doi.org/10.1007/s10725-009-9407-7)

*Publication date:*  
2009

*Citation for published version (APA):*

Byrne, S., Guiney, E., Donnison, I. S., Mur, L. A. J., Milbourne, D., & Barth, S. (2009). Identification of genes involved in the floral transition at the shoot apical meristem of *Lolium perenne* L. by use of suppression subtractive hybridisation. *Plant Growth Regulation*, 59(3), 215-225. <https://doi.org/10.1007/s10725-009-9407-7>

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Identification of genes involved in the floral transition at the shoot apical meristem of *Lolium perenne* L. by use of suppression subtractive hybridisation.

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Supporting Information (for online edition)

A table (S1) detailing the complete list of transcripts sequenced in the four SSH libraries together with accession numbers corresponding to these sequences.

Table S1: Putative functions associated with 144 transcripts identified from four SSH libraries. E-values and results of a BLAST search against the rice genome on TIGR. Sequences have been deposited to GenBank with the accession numbers shown in the table.

SSH Identifier	Description	E - Value	Accession
<b>Genes with higher expression in line J43 after 12 weeks PI</b>			
JV43-241	pleckstrin homology domain-containing protein, putative, expressed	1.40E-32	<a href="#"><u>FG356121</u></a>
JV43-257	NC domain-containing protein, putative, expressed	6.10E-16	<a href="#"><u>FG356122</u></a>
JV43-295	uridine kinase family protein, expressed	6.90E-16	<a href="#"><u>FG356123</u></a>
JV43-321	NADH-cytochrome b5 reductase, putative, expressed	2.00E-25	<a href="#"><u>FG356124</u></a>
JV43-324	Agenet domain containing protein, expressed	2.60E-25	<a href="#"><u>FG356125</u></a>
JV43-348	MCM2/3/5 family protein, expressed	3.50E-13	<a href="#"><u>FG356126</u></a>
JV43-372	Helicase associated domain family protein, expressed	8.10E-47	<a href="#"><u>FG356127</u></a>
JV43-384	Adenosylhomocysteinase, putative, expressed	1.60E-20	<a href="#"><u>FG356128</u></a>
JV43-70	Pre-mRNA processing splicing factor 8, putative, expressed	2.10E-10	<a href="#"><u>FG356129</u></a>
<b>Genes with higher expression in line J51 after 12 weeks PI</b>			
JV51-9	polyubiquitin containing 7 ubiquitin monomers, putative, expressed	2.50E-30	<a href="#"><u>FG356130</u></a>
JV51-23	Splicing factor U2AF 35 kDa subunit, putative, expressed	2.20E-25	<a href="#"><u>FG356131</u></a>
JV51-41	dnaK protein, expressed	1.40E-85	<a href="#"><u>FG356132</u></a>
JV51-55	Drooping leaf protein, putative, expressed	5.00E-65	<a href="#"><u>FE905361</u></a>
JV51-56	Auxin response factor 3, putative, expressed	3.00E-64	<a href="#"><u>FE905362</u></a>
JV51-65	SART-1 family protein, expressed	9.30E-37	<a href="#"><u>FG356133</u></a>
JV51-99	Lactoylglutathione lyase, putative, expressed	2.40E-08	<a href="#"><u>FG356134</u></a>
JV51-128	Protein kinase APK1B, chloroplast precursor, putative, expressed	2.80E-24	<a href="#"><u>FG356135</u></a>
JV51-154	Mitochondrial 60S ribosomal protein L5, putative	1.00E-19	<a href="#"><u>FG356136</u></a>
JV51-309	40S ribosomal protein S20, putative, expressed	4.30E-22	<a href="#"><u>FG356137</u></a>

JV51-317	60S ribosomal protein L18a, putative, expressed	9.40E-39	<b><u>FG356138</u></b>
JV51-23	expressed protein	2.20E-27	<b><u>FG356131</u></b>
JV51-41	Per1-like family protein, expressed	3.50E-46	<b><u>FG356132</u></b>
JV51-16	expressed protein	2.20E-35	<b><u>FG356139</u></b>
JV51-28	Trafficking protein particle complex subunit 3, putative, expressed	5.80E-34	<b><u>FG356140</u></b>
JV51-32	retrotransposon protein, putative, unclassified, expressed	2.20E-14	<b><u>FG356141</u></b>
JV51-35	Piwi domain containing protein, expressed (Similar to AGO4 in wheat)	3.20E-32	<b><u>FE905359</u></b>
JV51-40	expressed protein	7.10E-18	<b><u>FG356142</u></b>
JV51-45	SNF7 family protein, expressed	1.90E-20	<b><u>FG356143</u></b>
JV51-46	Elongation factor 2, putative, expressed	1.60E-48	<b><u>FE905360</u></b>
JV51-70	Pre-mRNA processing splicing factor 8, putative, expressed	5.30E-17	<b><u>FG356144</u></b>
JV51-74	Myb-like DNA-binding domain containing protein, expressed	7.60E-29	<b><u>FG356145</u></b>
JV51-87	40S ribosomal protein S25, putative, expressed	1.60E-24	<b><u>FG356146</u></b>
JV51-98	Fibrillarin-2, putative, expressed	6.20E-36	<b><u>FG356147</u></b>
JV51-100	SNF7 family protein, expressed	4.90E-20	<b><u>FG356148</u></b>
JV51-106	NADH ubiquinone oxidoreductase, 20 Kd subunit family protein, expressed	8.60E-52	<b><u>FG356149</u></b>
JV51-119	60S ribosomal protein L44, putative, expressed	7.70E-49	<b><u>FG356150</u></b>
JV51-132	60S ribosomal protein L15, putative, expressed	7.60E-23	<b><u>FG356151</u></b>
JV51-135	glycogen/starch/alpha-glucan phosphorylases family protein, expressed	2.90E-10	<b><u>FG356152</u></b>
JV51-153	Acyl-desaturase, chloroplast precursor, putative, expressed	1.00E-79	<b><u>FG356153</u></b>
JV51-164	metallo-beta-lactamase family protein, putative, expressed	1.20E-34	<b><u>FG356154</u></b>
JV51-165	polyubiquitin OUB2, putative, expressed	1.10E-30	<b><u>FG356155</u></b>
JV51-178	NAC domain containing protein, expressed	7.20E-22	<b><u>FG356156</u></b>
JV51-188	1-acyl-sn-glycerol-3-phosphate acyltransferase PLS1, putative, expressed	5.50E-27	<b><u>FG356157</u></b>
JV51-195	eukaryotic translation initiation factor 4G, putative, expressed	1.60E-67	<b><u>FG356158</u></b>
JV51-206	Phosphotyrosyl phosphate activator protein, expressed	2.50E-08	<b><u>FG356159</u></b>
JV51-211	Vacuolar ATPase G subunit family protein, expressed	1.70E-18	<b><u>FG356160</u></b>

JV51-221	UDP-N-acetylglucosamine pyrophosphorylase, putative, expressed	1.70E-11	<b><u>FG356161</u></b>
JV51-240	BPM, putative, expressed	3.80E-34	<b><u>FG356162</u></b>
JV51-253	Endoglucanase 1 precursor, putative, expressed	4.10E-09	<b><u>FG356163</u></b>
JV51-297	60S ribosomal protein L34, putative, expressed	4.20E-40	<b><u>FG356164</u></b>
JV51-306	50S ribosomal protein L13, chloroplast precursor, putative, expressed	1.60E-34	<b><u>FG356165</u></b>
JV51-313	Thioredoxin-like protein 4A, putative, expressed	1.60E-35	<b><u>FG356166</u></b>
JV51-316	Helicase associated domain family protein, expressed	5.10E-29	<b><u>FG356167</u></b>
JV51-325	expressed protein (bHLH transcription factor like)	2.80E-45	<b><u>FE905363</u></b>
JV51-346	26S protease regulatory subunit 6A homolog, putative, expressed	8.30E-57	<b><u>FG356168</u></b>
JV51-353	Casein kinase II beta-4 subunit, putative, expressed	6.60E-29	<b><u>FE905364</u></b>
JV51-356	Guanine nucleotide-binding protein beta subunit, putative, expressed	8.40E-93	<b><u>FG356169</u></b>
JV51-365	RmlD substrate binding domain containing protein, expressed	5.60E-76	<b><u>FG356170</u></b>
JV51-370	Histone H3, putative, expressed	2.60E-47	<b><u>FE905365</u></b>
<b><u>Genes with higher expression in line J51 during days 3-6 of SI</u></b>			
JS51-1	expressed protein	4.40E-61	<b><u>FG356084</u></b>
JS51-128	ATP synthase alpha chain, mitochondrial, putative, expressed	5.10E-79	<b><u>FG356085</u></b>
JS51-132	YDG/SRA domain containing protein, expressed	2.30E-29	<b><u>FE905352</u></b>
JS51-137	Inositol-3-phosphate synthase, putative, expressed	1.80E-48	<b><u>FE905353</u></b>
JS51-149	F-box domain containing protein, expressed	1.30E-14	<b><u>FG356086</u></b>
JS51-15	transposon protein, putative, CACTA, En/Spm sub-class	1.20E-09	<b><u>FG356087</u></b>
JS51-158	Protein of unknown function containing protein, expressed	7.70E-32	<b><u>FG356088</u></b>
JS51-159	diacylglycerol kinase, putative, expressed	6.10E-21	<b><u>FG356089</u></b>
JS51-167	Phosphoethanolamine N-methyltransferase, putative, expressed	4.60E-30	<b><u>FG356090</u></b>
JS51-170	40S ribosomal protein S3a, putative, expressed	2.50E-29	<b><u>FG356091</u></b>
JS51-196	Oxysterol-binding protein, expressed	2.00E-19	<b><u>FG356092</u></b>
JS51-209	DNA-directed RNA polymerase II 36 kDa polypeptide A, putative, expressed	4.40E-35	<b><u>FG356093</u></b>
JS51-213	expressed protein	4.70E-23	<b><u>FG356094</u></b>
JS51-216	expressed protein	2.10E-25	<b><u>FG356095</u></b>

JS51-220	Serine hydroxymethyltransferase, mitochondrial precursor, putative, expressed	1.50E-38	<b><u>FG356096</u></b>
JS51-234	Alcohol dehydrogenase 1, putative, expressed	2.70E-17	<b><u>FG356097</u></b>
JS51-24	C9orf114 protein, putative, expressed	7.00E-42	<b><u>FG356098</u></b>
JS51-252	Glycosyl hydrolase family 1 protein, expressed	7.30E-36	<b><u>FG356099</u></b>
JS51-262	DNA replication licensing factor MCM5, putative, expressed	1.40E-50	<b><u>FG356100</u></b>
JS51-264	myb family transcription factor, putative, expressed	2.00E-15	<b><u>FG356101</u></b>
JS51-267	Splicing factor 3B subunit 1, putative, expressed	2.00E-23	<b><u>FG356102</u></b>
JS51-27	zinc finger family protein, putative, expressed	6.50E-08	<b><u>FG356103</u></b>
JS51-273	Gamma-tubulin complex component 4 homolog, putative, expressed	2.30E-56	<b><u>FG356104</u></b>
JS51-276	speckle-type POZ protein, putative, expressed	1.20E-24	<b><u>FE905354</u></b>
JS51-282	Methyl-binding domain protein MBD111, putative, expressed	2.50E-29	<b><u>FE905355</u></b>
JS51-289	CUE domain containing protein, expressed	3.80E-67	<b><u>FG356105</u></b>
JS51-294	50S ribosomal protein L18, chloroplast precursor, putative, expressed	1.10E-17	<b><u>FG356106</u></b>
JS51-304	Monocopper oxidase precursor, putative, expressed	3.0-36	<b><u>FG356107</u></b>
JS51-305	ATP-dependent Clp protease ATP-binding subunit clpA homolog CD4B, chloroplast precursor, putative, expressed	1.40E-51	<b><u>FG356108</u></b>
JS51-310	expressed protein	1.30E-88	<b><u>FG356109</u></b>
JS51-314	Cell elongation protein DIMINUTO, putative, expressed	4.40E-05	<b><u>FG356110</u></b>
JS51-321	DnaJ domain containing protein, expressed	7.20E-62	<b><u>FE905356</u></b>
JS51-325	Filamin/ABP280 repeat family protein, expressed	2.10E-18	<b><u>FG356111</u></b>
JS51-330	expressed protein	1.30E-24	<b><u>FG356112</u></b>
JS51-343	oxidoreductase, aldo/keto reductase family protein, expressed	7.70E-38	<b><u>FG356113</u></b>
JS51-344	Phosphoribosylanthranilate transferase, putative, expressed	1.30E-50	<b><u>FE905357</u></b>
JS51-346	Isocitrate dehydrogenase, chloroplast precursor, putative, expressed	3.00E-65	<b><u>FG356114</u></b>
JS51-351	esterase/lipase/thioesterase family protein, putative, expressed	9.00E-28	<b><u>FG356115</u></b>
JS51-352	Mitogen-activated protein kinase kinase 2, putative, expressed	2.60E-30	<b><u>FE905358</u></b>

JS51-354	Phosphoethanolamine N-methyltransferase, putative, expressed	1.20E-29	<b><u>FG356116</u></b>
JS51-367	microtubule-associated protein MAP65-1a, putative, expressed	2.20E-28	<b><u>FG356117</u></b>
JS51-369	sugar transporter family protein, putative, expressed	1.30E-15	<b><u>FG356118</u></b>
JS51-37	tRNA <sup>His</sup> guanylyltransferase family protein, expressed	3.50E-56	<b><u>FG356119</u></b>
JS51-377	expressed protein	3.70E-28	<b><u>FG356120</u></b>
<b>Genes with higher expression in line J43 during days 3-6 of SI</b>			
JS43-14	pfkB-type carbohydrate kinase family protein, putative, expressed	2.70E-41	<b><u>FG356046</u></b>
JS43-104	Methylenetetrahydrofolate reductase, putative, expressed	1.20E-84	<b><u>FG356047</u></b>
JS43-254	Aspartic proteinase oryzasin-1 precursor, putative, expressed	1.30E-91	<b><u>FE905350</u></b>
JS43-151	BTB/POZ domain containing protein, expressed	5.80E-102	<b><u>FG356048</u></b>
JS43-156	Saposin-like type B, region 1 family protein, expressed	1.10E-39	<b><u>FG356049</u></b>
JS43-16	20 kDa chaperonin, chloroplast precursor, putative, expressed	8.20E-34	<b><u>FG356050</u></b>
JS43-42	Ubiquitin-conjugating enzyme family protein, expressed	1.00E-57	<b><u>FG356051</u></b>
JS43-148	F-box family protein, putative, expressed	1.30E-94	<b><u>FE905347</u></b>
JS43-18	hydroxyproline-rich glycoprotein family protein, putative, expressed	1.80E-30	<b><u>FG356052</u></b>
JS43-180	Plasma membrane ATPase, putative, expressed	1.20E-31	<b><u>FG356053</u></b>
JS43-205	expressed protein	1.20E-35	<b><u>FG356054</u></b>
JS43-211	40S ribosomal protein S14, putative, expressed	3.70E-50	<b><u>FG356055</u></b>
JS43-26	DNA-binding protein, putative, expressed	2.40E-21	<b><u>FG356056</u></b>
JS43-264	Nuclear pore protein 84/107 containing protein, expressed	2.50E-88	<b><u>FG356057</u></b>
JS43-343	Actin-97, putative, expressed	2.00E-82	<b><u>FG356058</u></b>
JS43-288	retrotransposon protein, putative, unclassified	5.40E-101	<b><u>FG356059</u></b>
JS43-297	Uncharacterised protein family containing protein, expressed	1.80E-42	<b><u>FG356060</u></b>
JS43-313	BTB/POZ domain containing protein, expressed	1.90E-103	<b><u>FG356061</u></b>
JS43-316	T-complex protein 1, epsilon subunit, putative, expressed	9.20E-33	<b><u>FG356062</u></b>
JS43-323	Endothelial differentiation-related factor 1, putative, expressed	5.00E-17	<b><u>FG356063</u></b>
JS43-344	Vacuolar ATP synthase catalytic subunit A, putative, expressed	1.00E-30	<b><u>FG356064</u></b>

JS43-357	1,3-beta-glucan synthase component bgs3, putative, expressed	4.00E-18	<b><u>FG356065</u></b>
JS43-46	expressed protein	2.30E-15	<b><u>FG356067</u></b>
JS43-138	MAR binding filament-like protein 1, putative, expressed	9.90E-47	<b><u>FG356068</u></b>
JS43-102	Calcium-transporting ATPase 9, plasma membrane-type, putative, expressed	3.30E-18	<b><u>FG356069</u></b>
JS43-111	Ketol-acid reductoisomerase, chloroplast precursor, putative, expressed	7.90E-69	<b><u>FG356070</u></b>
JS43-150	ARID/BRIGHT DNA-binding domain-containing protein, putative, expressed	5.70E-39	<b><u>FG356071</u></b>
JS43-173	FH protein NFH2, putative, expressed	4.80E-26	<b><u>FG356072</u></b>
JS43-214	Cullin-4B, putative, expressed	9.80E-51	<b><u>FE905348</u></b>
JS43-219	CAP protein, expressed	6.90E-66	
JS43-241	zinc finger family protein, putative, expressed	5.10E-19	<b><u>FE905349</u></b>
JS43-253	expressed protein	1.40E-52	
JS43-92	OsMKK1 - putative MAPKK based on amino acid sequence homology, expressed	5.20E-85	<b><u>FE905346</u></b>
JS43-298	stress-inducible protein, putative, expressed	1.20E-64	<b><u>FG356075</u></b>
JS43-300	Protein kinase domain containing protein, expressed	4.90E-50	<b><u>FE905351</u></b>
JS43-309	Repressor of RNA polymerase III transcription MAF1 homolog, putative, expressed	1.30E-31	<b><u>FG356076</u></b>
JS43-310	Protein phosphatase inhibitor 2 containing protein, expressed	7.30E-08	<b><u>FG356077</u></b>
JS43-337	Activator 1 36 kDa subunit, putative, expressed	2.10E-20	<b><u>FG356078</u></b>
JS43-55	WW domain-containing protein, putative, expressed	5.90E-08	<b><u>FG356079</u></b>
JS43-60	Nudix hydrolase 24, chloroplast precursor, putative, expressed	2.50E-45	<b><u>FG356080</u></b>
JS43-63	Phosphatidylinositol N-acetylglucosaminyltransferase family protein, expressed	7.90E-93	<b><u>FG356081</u></b>
JS43-64	formin homology 2 domain-containing protein, putative, expressed	1.40E-43	<b><u>FG356082</u></b>
JS43-67	Annexin family protein, expressed	1.90E-18	<b><u>FG356083</u></b>