

Table S2. List of Gene Differential Expression Multiples of Three Groups of Differential Genes

Genes ID	DEG1 (F1 VS <i>M.sacchariflorus</i>)		DEG2 (F1 VS <i>M.lutarioriparius</i>)		DEG3 (<i>M.sacchariflorus</i> VS <i>M.lutarioriparius</i>)		notes
	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
K41_C316020	-1.310712759	down	6.210400498	up	7.894091613	up	Shared gene
MluLR5042	-1.134759322	down	1.207996123	up	2.377303044	up	Shared gene
K41_C314568	-1.106776896	down	3.795597058	up	5.116595396	up	Shared gene
MluLR17506	-3.018267179	down	-1.386026048	down	1.618657177	up	Shared gene
MluLR7864	2.653612163	up	-1.59550086	down	-4.534463024	down	Shared gene
MluLR3275	4.901128752	up	-1.033135479	down	-6.716931891	down	Shared gene
K41_C234516	-2.467297676	down	—	—	3.906518874	up	Special gene in female
K41_C293894	-1.999383638	down	—	—	5.846984104	up	Special gene in female
MluLR9293	-3.582257016	down	—	—	4.330865357	up	Special gene in female
MluLR14171	-2.660586136	down	—	—	2.920393234	up	Special gene in female
K41_C312250	-2.640868129	down	—	—	2.947430247	up	Special gene in female
K41_C315280	-1.731277353	down	—	—	3.031240453	up	Special gene in female
MluLR10849	-1.719890672	down	—	—	2.533910335	up	Special gene in female

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
MluLR7765	-1.327309567	down	——	——	1.983842989	up	Special gene in female
MluLR9600	1.531903716	up	——	——	-2.232163456	down	Special gene in female
MluLR1095	1.962500737	up	——	——	-2.302934658	down	Special gene in female
MluLR1136	2.202262544	up	——	——	-2.677583045	down	Special gene in female
MluLR8565	2.620413984	up	——	——	-3.26452968	down	Special gene in female
MluLR522	2.768744757	up	——	——	-3.114343886	down	Special gene in female
MluLR866	2.835889981	up	——	——	-3.392799407	down	Special gene in female
MluLR7052	2.868002423	up	——	——	-3.836759967	down	Special gene in female
MluLR5589	3.004559452	up	——	——	-4.409667274	down	Special gene in female
MluLR11938	3.009790294	up	——	——	-3.722479591	down	Special gene in female
MluLR12032	3.034736934	up	——	——	-3.700377543	down	Special gene in female

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
MluLR173	3.085295742	up	—	—	-4.484100601	down	Special gene in female
MluLR547	3.184687715	up	—	—	-4.523585149	down	Special gene in female
MluLR14284	3.262087745	up	—	—	-3.807535039	down	Special gene in female
MluLR4295	3.694526265	up	—	—	-4.918811601	down	Special gene in female
MluLR4430	3.697432047	up	—	—	-5.014681131	down	Special gene in female
MluLR10658	3.96448026	up	—	—	-4.574209078	down	Special gene in female
MluLR16622	4.187043391	up	—	—	-5.094321356	down	Special gene in female
MluLR12926	4.34834363	up	—	—	-4.723583903	down	Special gene in female
MluLR7800	4.628757594	up	—	—	-6.455196979	down	Special gene in female
MluLR13074	5.124462195	up	—	—	-5.613101069	down	Special gene in female
MluLR9925	5.181407175	up	—	—	-6.151757592	down	Special gene in female

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
MluLR8018	5.315341345	up	—	—	-6.879088338	down	Special gene in female
MluLR863	5.86104175	up	—	—	-7.409988854	down	Special gene in female
MluLR10478	6.176455702	up	—	—	-7.195964028	down	Special gene in female
MluLR11561	—	—	-2.519564614	down	-4.308497635	down	Special gene in male
MluLR8367	—	—	-1.454118256	down	-4.451498976	down	Special gene in male
MluLR8818	—	—	-1.417877597	down	-3.509151551	down	Special gene in male
MluLR13134	—	—	-1.235348518	down	-2.408920686	down	Special gene in male
MluLR7989	—	—	-1.224506666	down	-1.947200315	down	Special gene in male
MluLR5039	—	—	-1.179279053	down	-1.954943223	down	Special gene in male
MluLR12920	—	—	-1.171837288	down	-2.914360594	down	Special gene in male
MluLR13656	—	—	-1.142505676	down	-2.944666935	down	Special gene in male

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
K41_scaffold13579	—	—	1.310948261	up	1.630580575	up	Special gene in male
Cap3i95_Contig32036	—	—	1.361092931	up	1.587620729	up	Special gene in male
Cap3i94_Contig4783	—	—	1.411582504	up	2.395017543	up	Special gene in male
K41_scaffold1343	—	—	1.422305257	up	2.507670222	up	Special gene in male
K41_scaffold1865	—	—	1.484796406	up	2.35984742	up	Special gene in male
Cap3i94_Contig4598	—	—	1.680471097	up	2.3759353	up	Special gene in male
K41_C316852	—	—	1.704902246	up	1.274974515	up	Special gene in male
MluLR7657	—	—	1.764699655	up	2.323282252	up	Special gene in male
Cap3i94_Contig3416	—	—	1.845008878	up	2.981480289	up	Special gene in male
MluLR15067	—	—	1.902757151	up	3.162190831	up	Special gene in male
K41_scaffold14908	—	—	1.961047524	up	2.524477436	up	Special gene in male

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
Cap3i97_Contig2585	—	—	1.970469177	up	2.497857506	up	Special gene in male
Cap3i94_Contig28339	—	—	2.014524382	up	2.277640184	up	Special gene in male
K61_scaffold3236	—	—	2.113558929	up	2.958379626	up	Special gene in male
MluLR1093	—	—	2.272019255	up	2.933764132	up	Special gene in male
K51_scaffold12551	—	—	2.593865838	up	3.435471282	up	Special gene in male
K41_scaffold13483	—	—	2.611655173	up	3.302503281	up	Special gene in male
K51_scaffold12750	—	—	2.622661891	up	3.318228227	up	Special gene in male
K51_C245430	—	—	2.631147036	up	3.975537724	up	Special gene in male
MluLR8595	—	—	2.838171278	up	2.646369957	up	Special gene in male
K41_C317200	—	—	2.885646422	up	3.772971622	up	Special gene in male
K41_scaffold2760	—	—	2.907625187	up	2.927164006	up	Special gene in male

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
MluLR3385	—	—	2.915141257	up	3.795654281	up	Special gene in male
MluLR16240	—	—	3.132804182	up	4.081445375	up	Special gene in male
K41_scaffold9209	—	—	3.356017732	up	3.983372537	up	Special gene in male
MluLR7808	—	—	3.418072787	up	4.238508046	up	Special gene in male
MluLR1137	—	—	3.803629542	up	4.946398817	up	Special gene in male
Cap3i94_Contig5243	—	—	3.817698096	up	5.461881175	up	Special gene in male
K41_scaffold8733	—	—	3.942657081	up	4.060251694	up	Special gene in male
MluLR9531	—	—	4.001188839	up	4.622841112	up	Special gene in male
MluLR4601	—	—	4.381250266	up	6.943004662	up	Special gene in male
Cap3i94_Contig3566	—	—	4.755337989	up	6.004998228	up	Special gene in male
K41_scaffold16362	—	—	4.793801101	up	5.980813882	up	Special gene in male

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	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	log2(FoldChange)	Regulation	
Cap3i94_Contig5885	—	—	5.073914834	up	5.96013965	up	Special gene in male
MluLR7772	—	—	5.410270836	up	6.700246247	up	Special gene in male
K61_C140346	—	—	5.888314699	up	7.135694261	up	Special gene in male
Cap3i94_Contig5889	—	—	5.98504523	up	7.654340148	up	Special gene in male
K41_scaffold15739	—	—	6.055356158	up	7.744241047	up	Special gene in male
MluLR7047	—	—	6.357827388	up	7.117399267	up	Special gene in male
Cap3i94_Contig5645	—	—	6.885703871	up	7.734530695	up	Special gene in male
K61_C145926	—	—	7.171568049	up	6.959085157	up	Special gene in male