Analysis summary of project Cax23_GC_FL_test2

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The analysis was run using count data imported from a precomputed counts table file: APEX5_Hiseq_Hisat_Counts_V6_CAX23_TEST.txt

Between the samples defined in the imported counts table, the following contrastshave been computed:

A4FL-B7FL

B7FL-B3FL

B3FL-A8FL

A8FL-A4FL

A4GC-B7GC

B7GC-B3GC

B3GC-A8GC

A8GC-A4GC

The normalization and statistical evaluation of differential gene expression has been performed using edgeR (Robinson et al., 2010) with a p-value cut-off of 0.05 and using the Benjamini-Hochberg (1995) method for multiple testing correction.

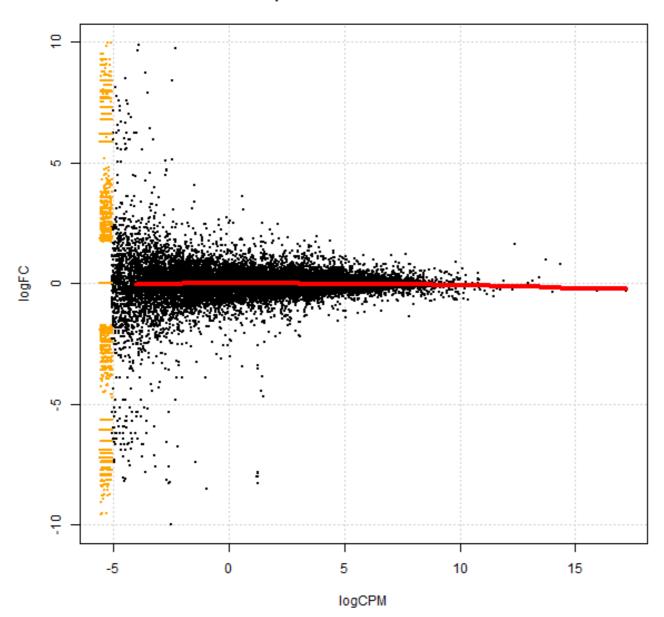
The raw data was normalized according to the default procedure of the differential expression analysis package used. The dispersion was estimated using the auto setting

MA plots of each comparison

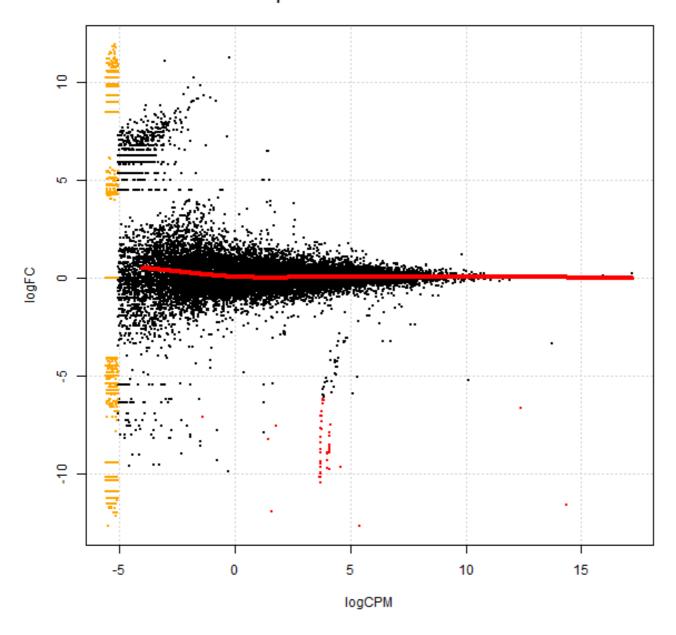
The MA plots show the log2 fold change (M; logFC) plotted versus the average expression strength (A; LogConc) for each of the comparisons that was computed. Usually, these scatter plots show a trumpet-like shape which is attributed to the fact that genes with a lower expression signal strength are more strongly affected by noise than strongly expressed genes.

According to the assumption that under most experimental conditions the bulk of the genes of an organism are not responding differentially, the cloud of points should be centered around a log fold change of 0. Genes that were called significantly differentially expressed are shown in red.

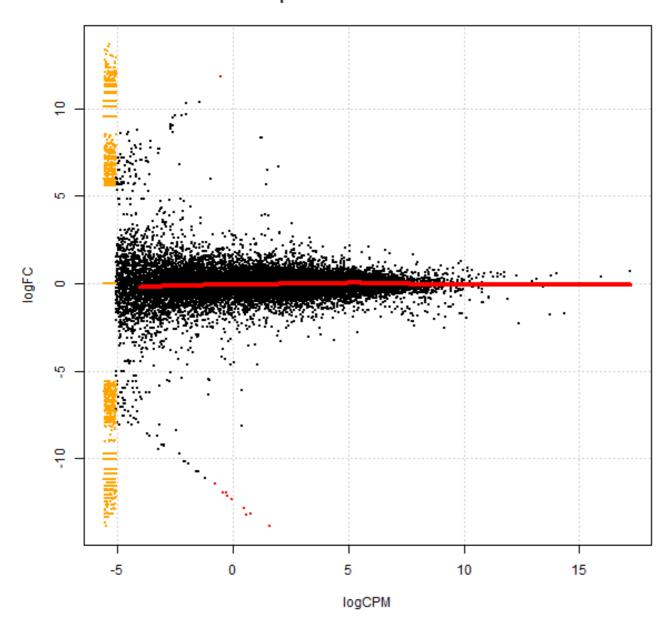
MA plot of contrast A4FL-B7FL



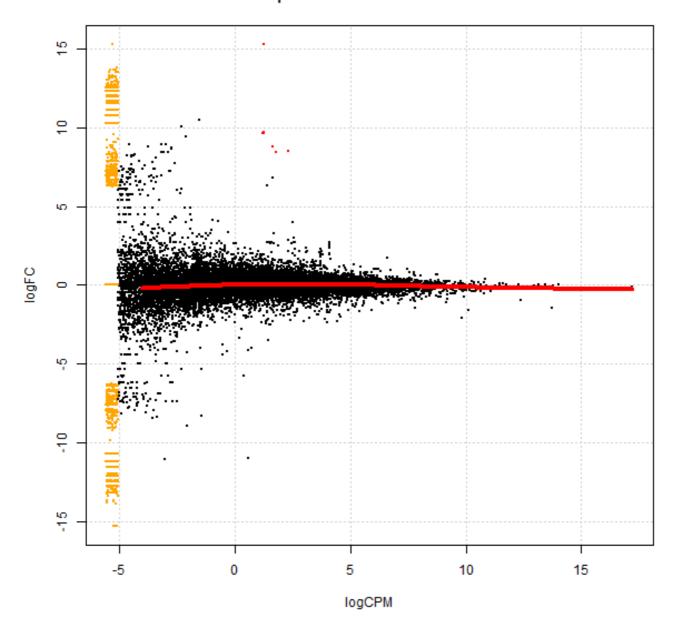
MA plot of contrast A4GC-B7GC



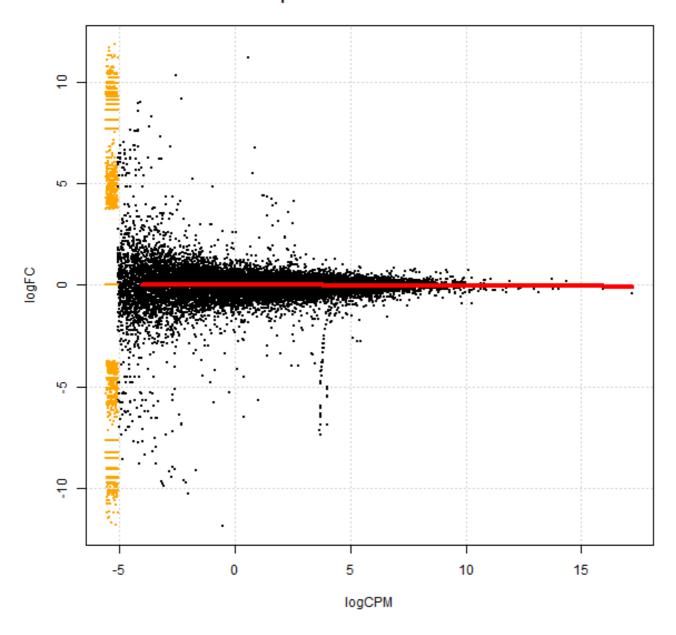
MA plot of contrast A8FL-A4FL



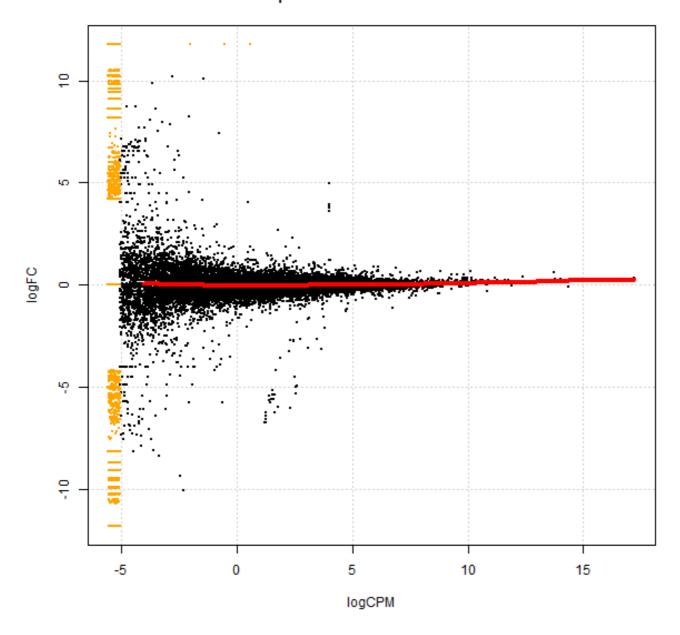
MA plot of contrast A8GC-A4GC



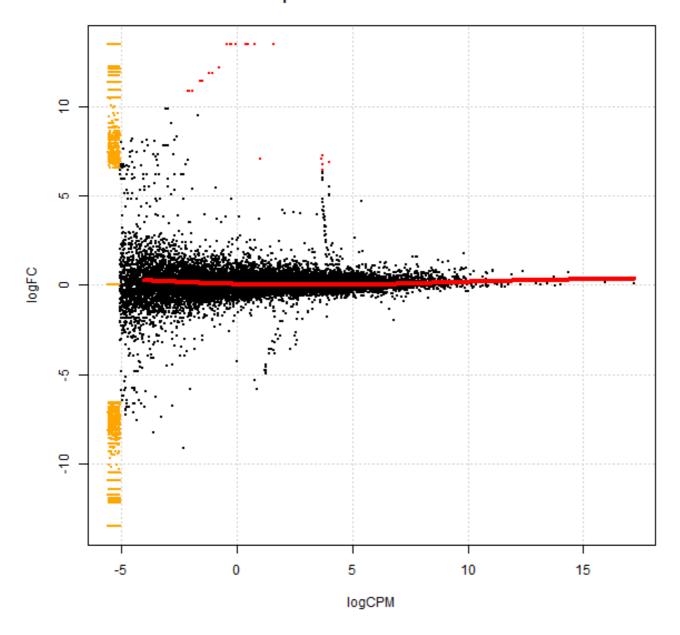
MA plot of contrast B3FL-A8FL



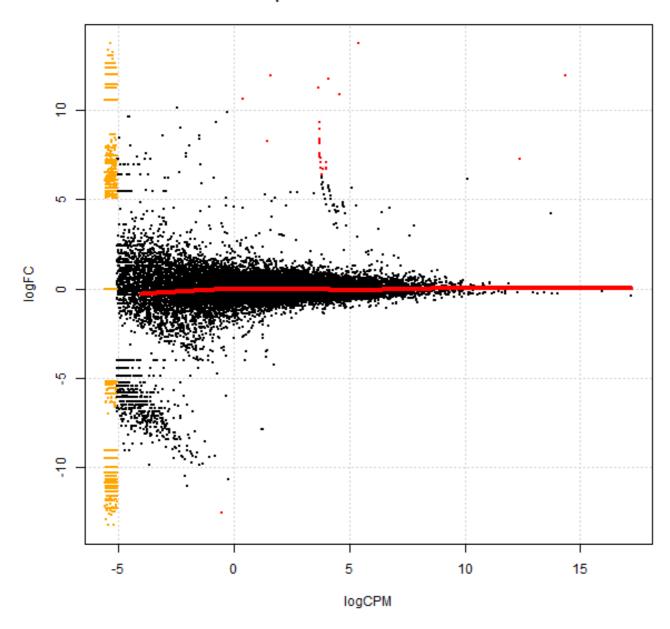
MA plot of contrast B3GC-A8GC



MA plot of contrast B7FL-B3FL



MA plot of contrast B7GC-B3GC



Venn Diagrams

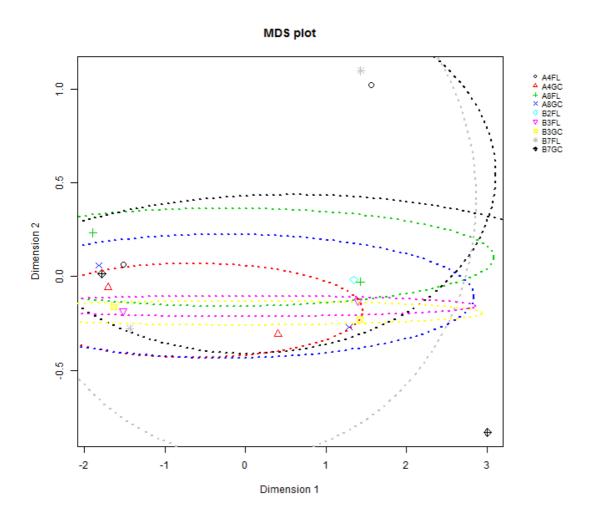
Venn diagrams visualize the amount of genes that were called significantly differentially expressed in each comparison. The conditions are represented by circles. Genes that show a significant reponse to more than one condition are plotted in the overlapping areas while the amount of not significantly changed genes is given in the lower right corner of the plots.

Venn diagrams allow a simple and quick overview of the impact of the treatments on the gene expression profile and also the specificity of the responses

Multi-dimensional scaling (MDS) plot

The MDS or principal coordinate plot visualizes the distances between the RNA-Seq libraries in the experiment. To compute the points, a set of 500 tags(genes) that have the largest variation bewteen the libraries (i.e. the largest tagwise dispersion when treating all libraries as one experimental group) is selected. The distance between each pair of libraries is equivalent to the square root of the common disperion between these two libraries (using the top 500 genes.

Hence, the MDS plot gives an insight into the structure of the experiment - libraries that were generated on biological replicates of the same treatment should cluster together



Top 10 differentially expressed genes tables for each contrast Top differentially expressed genes: full_table_A4FL-B7FL.txt

			1	I	
Identifier	logFC	logCPM	LR	PValue	FDR
AT5G53960 .1	9.88717676 616966	- 3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT5G53960 .1	9.88717676 616966	3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT5G53960 .1	9.88717676 616966	- 3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT5G53960 .1	9.88717676 616966	- 3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT5G53960 .1	9.88717676 616966	- 3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT5G53960 .1	9.88717676 616966	- 3.89463085 201692	14.2794055 623079	0.00015757 955081925 7	1
AT2G39320 .1	- 9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT2G39320 .1	- 9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT2G39320 .1	9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT2G39320 .1	- 9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT2G39320 .1	- 9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT2G39320 .1	- 9.97074062 035653	- 2.49742489 93021	14.1765252 428349	0.00016643 402671287 9	1
AT4G21640 .1	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	1
AT4G21640 .1	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	1
AT4G21640 .1	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	1
AT4G21640 .1	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	1
AT4G21640 .1	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	1

Identifier	logFC	logCPM	LR	PValue	FDR
	9.74674310 922932	- 2.29874841 650826	13.7997565 468437	0.00020336 258000022 7	
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT1G51810 .1	9.63658961 208484	- 3.93958567 875662	13.4339013 048536	0.00024711 766912828 3	1
AT5G54000 .1	6.41089179 420839	3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT5G54000 .1	6.41089179 420839	3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT5G54000 .1	6.41089179 420839	- 3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT5G54000 .1	6.41089179 420839	- 3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT5G54000 .1	6.41089179 420839	3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT5G54000 .1	6.41089179 420839	3.39710061 907414	12.2033807 041821	0.00047702 990399584 8	1
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1

Identifier	logFC	logCPM	LR	PValue	FDR
AT4G10540 .1	8.70357402 108217	- 3.63303571 947897	10.5372299 62253	0.00116993 635505802	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0127 0.1	5.13757645 177758	- 2.47462778 466503	10.0026123 709615	0.00156318 324143019	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
ATMG0129 0.1	5.09467064 293048	- 2.74160161 266871	9.86176589 081952	0.00168749 054520897	1
AT2G21720 .1	8.50002195 939629	- 4.48118379 356525	9.72944860 632223	0.00181338 880392565	1
AT2G21720 .1	8.50002195 939629	- 4.48118379 356525	9.72944860 632223	0.00181338 880392565	1
AT2G21720 .1	8.50002195 939629	- 4.48118379 356525	9.72944860 632223	0.00181338 880392565	1
AT2G21720 .1	8.50002195 939629	- 4.48118379 356525	9.72944860 632223	0.00181338 880392565	1
AT2G21720 .1	8.50002195 939629	- 4.48118379 356525	9.72944860 632223	0.00181338 880392565	1

Identifier	logFC	logCPM	LR	PValue	FDR
AT2G21720	1	- 4.48118379	9.72944860	0.00181338 880392565	1
'		356525		000002000	

Top differentially expressed genes: full_table_A4GC-B7GC.txt

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41979 .1	- 12.6718987 472533	5.39933726 106797	37.7121295 453879	8.19931363 696701e-10	3.41673598 566052e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
AT3G41768 .1	- 11.5849039 204963	14.3462770 0502	35.2110582 471426	2.95838905 327426e-09	6.16395151 194959e-05
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	

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Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	I I
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0079 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0080 0.1	- 10.4618113 667188	3.69425251 244415	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	
ATMG0091 0.1	- 10.4618113 667188	3.69443894 107473	29.2016840 6977	6.52224916 211673e-08	0.00017899 257067240 8
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	I I

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Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0082 0.1	- 10.4618113 667188	3.69469280 665353	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0085 0.1	- 10.4618113 667188	3.69440738 612867	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	
ATMG0087 0.1	- 10.4618113 667188	3.69439365 212408	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0088 0.1	- 10.4618113 667188	3.69460944 665259	29.2016840 6977	6.52224916 211676e-08	0.00017899 257067240 8
ATMG0088 0.1	- 10.4618113 667188	3.69460944 665259	29.2016840 6977	6.52224916 211676e-08	
ATMG0088 0.1	- 10.4618113 667188	3.69460944 665259	29.2016840 6977	6.52224916 211676e-08	

Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0088 0.1	- 10.4618113 667188		29.2016840 6977	6.52224916 211676e-08	
ATMG0088 0.1	- 10.4618113 667188		29.2016840 6977	6.52224916 211676e-08	
ATMG0088 0.1	- 10.4618113 667188		29.2016840 6977	6.52224916 211676e-08	

Top differentially expressed genes: full_table_A8FL-A4FL.txt

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT3G42190 .1	- 13.8428729 567822	1.58299433 823146	27.9134816 301356	1.26862760 43928e-07	0.00528649 809026524
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT4G04545 .1	- 13.2141670 139013	0.55665319 8623348	25.6143808 618931	4.16920620 922918e-07	0.00657010 760684147
AT3G42530 .1	- 13.1438152 656664	0.75525861 9433747	25.3709049 345162	4.72998555 842778e-07	0.00657010 760684147

Identifier	logFC	logCPM	LR	PValue	FDR
	_ logi C	0.75525861	25.3709049	4.72998555	0.00657010
AT3G42530 .1	13.1438152 656664	9433747	345162	842778e-07	760684147
AT3G42530 .1	- 13.1438152 656664	0.75525861 9433747	25.3709049 345162	4.72998555 842778e-07	0.00657010 760684147
AT3G42530 .1	- 13.1438152 656664	0.75525861 9433747	25.3709049 345162	4.72998555 842778e-07	0.00657010 760684147
AT3G42530 .1	- 13.1438152 656664	0.75525861 9433747	25.3709049 345162	4.72998555 842778e-07	0.00657010 760684147
AT3G42530 .1	- 13.1438152 656664	0.75525861 9433747	25.3709049 345162	4.72998555 842778e-07	0.00657010 760684147
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42410 .1	- 12.8450793 945288	0.46173990 3361866	24.2886055 587023	8.29281770 654252e-07	0.00863925 016623333
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42400 .1	- 12.3165046 365195	- 0.05786643 19816898	22.3822915 026361	2.23424606 159756e-06	0.01862065 35265664
AT3G42290 .1	- 12.1473621 046543	- 0.22327450 4161684	21.7751721 108666	3.06541386 030269e-06	0.02029667 45816609

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42290	-	-	21.7751721	3.06541386	0.02029667
.1	12.1473621 046543	0.22327450 4161684	108666	030269e-06	45816609
AT3G42290	-	-	21.7751721	3.06541386	0.02029667
.1	12.1473621 046543	0.22327450 4161684	108666	030269e-06	45816609
AT3G42290	-	-	21.7751721	3.06541386	0.02029667
.1	12.1473621 046543	0.22327450 4161684	108666	030269e-06	45816609
AT3G42290	-	-	21.7751721	3.06541386	0.02029667
.1	12.1473621 046543	0.22327450 4161684	108666	030269e-06	45816609
AT3G42290	- 12.1473621	0.22327450	21.7751721 108666	3.06541386 030269e-06	0.02029667 45816609
. 1	046543	4161684	100000	0302096-00	43610009
AT3G42320	-	- 44020956	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42320	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42320	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42320	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42320	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42320	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540		-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540		-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540		-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42540			21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.41029856 6174781	951976	255423e-06	45816609
AT3G42060	-	-	21.0893284	4.38362581	0.02029667
.1	11.9557183 307072	0.28805587 0930409	951976	255424e-06	45816609
	001012	0300403			

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42060 .1	- 11.9557183 307072	- 0.28805587 0930409	21.0893284 951976	4.38362581 255424e-06	0.02029667 45816609
AT3G42060 .1	- 11.9557183 307072	- 0.28805587 0930409	21.0893284 951976	4.38362581 255424e-06	0.02029667 45816609
AT3G42060 .1	- 11.9557183 307072	- 0.28805587 0930409	21.0893284 951976	4.38362581 255424e-06	0.02029667 45816609
AT3G42060 .1	- 11.9557183 307072	- 0.28805587 0930409	21.0893284 951976	4.38362581 255424e-06	0.02029667 45816609
AT3G42060 .1	- 11.9557183 307072	- 0.28805587 0930409	21.0893284 951976	4.38362581 255424e-06	0.02029667 45816609

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Identifier	logFC	logCPM	LR	PValue	FDR
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0114 0.1	14.6354765 732727	1.23728839 083477	29.0232563 345446	7.15145788 829776e-08	0.00074878 677729704 4
ATCG0116 0.1	14.6328050 936933	1.23032608 9937	29.0134892 30641	7.18760555 107425e-08	0.00074878 677729704 4
ATCG0116 0.1	14.6328050 936933	1.23032608 9937	29.0134892 30641	7.18760555 107425e-08	0.00074878 677729704 4
ATCG0116 0.1	14.6328050 936933	1.23032608 9937	29.0134892 30641	7.18760555 107425e-08	0.00074878 677729704 4
ATCG0116 0.1	14.6328050 936933	1.23032608 9937	29.0134892 30641	7.18760555 107425e-08	0.00074878 677729704 4
ATCG0116 0.1	14.6328050 936933	1.23032608 9937	29.0134892 30641	7.18760555 107425e-08	0.00074878 677729704 4

Identifier	logEC	logCPM	LR	PValue	FDR
ATCG0116	logFC 14.6328050	1.23032608	29.0134892		0.00074878
0.1	936933	9937	30641	107425e-08	677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0115 0.1	14.6328050 936933	1.23048046 752178	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0117 0.1	14.6328050 936933	1.24167897 510486	29.0134892 30641	7.18760555 107431e-08	0.00074878 677729704 4
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	0.00654479 224057589
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	0.00654479 224057589
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	0.00654479 224057589
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	0.00654479 224057589
ATCG0099 0.1	9.66443883 247335	1.24148407 909039	23.4963225 395948	1.25152757 416759e-06	0.00654479 224057589
ATCG0098 0.1	9.66235574 509584	1.23330598 937558	23.4887405 412355	1.25646943 736908e-06	
ATCG0098 0.1	9.66235574 509584	1.23330598 937558	23.4887405 412355	1.25646943 736908e-06	0.00654479 224057589

Identifier	logFC	logCPM	LR	PValue	FDR
ATCG0098	9.66235574	1.23330598	23.4887405	1.25646943	0.00654479
0.1	509584	937558	412355	736908e-06	224057589
ATCG0098	9.66235574	1.23330598	23.4887405	1.25646943	0.00654479
0.1	509584	937558	412355	736908e-06	224057589
ATCG0098	9.66235574	1.23330598	23.4887405	1.25646943	0.00654479
0.1	509584	937558	412355	736908e-06	224057589
ATCG0098	9.66235574	1.23330598	23.4887405	1.25646943	0.00654479
0.1	509584	937558	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0096	9.66235574	1.23448617	23.4887405	1.25646943	0.00654479
0.1	509584	304395	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	0.00654479
0.1	509584	663173	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	0.00654479
0.1	509584	663173	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	0.00654479
0.1	509584	663173	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	0.00654479
0.1	509584	663173	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	0.00654479
0.1	509584	663173	412355	736908e-06	224057589
ATCG0097	9.66235574	1.22811850	23.4887405	1.25646943	
0.1	509584	663173	412355	736908e-06	
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592
ATCG0119	8.48984091	2.29906286	22.1425516	2.53136176	0.01109577
0.1	082528	750707	397623	39008e-06	13735592

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Identifier	logFC	logCPM	LR	PValue	FDR
	11.8609627	- 0.50868588 2312537	21.1517246 187974	4.24319234 017147e-06	

Identifier	logFC	logCPM	LR	PValue	FDR
AT2G08986		-	21.1517246	4.24319234	0.09560112
.1	11.8609627 342981	0.50868588 2312537	187974	017147e-06	02639166
AT2G08986	11.8609627	- 0.50868588	21.1517246 187974	4.24319234 017147e-06	0.09560112 02639166
. 1	342981	2312537	107374	0171476-00	02039100
AT2G08986	-	-	21.1517246	4.24319234	0.09560112
.1	11.8609627 342981	0.50868588 2312537	187974	017147e-06	02639166
AT2G08986	-	-	21.1517246	4.24319234	1
.1	11.8609627 342981	0.50868588 2312537	187974	017147e-06	02639166
AT2G08986	-	-	21.1517246	4.24319234	0.09560112
.1	11.8609627 342981	0.50868588 2312537	187974	017147e-06	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
ATMG0118	-	3.68885212	18.6213361	1.59426262	0.09560112
0.1	7.36635022 917344	839938	358896	660885e-05	02639166
AT4G04545	11.1784125 974134	0.55665319 8623348	18.2893917 69407	1.89760944 645984e-05	
AT4G04545	11.1784125	0.55665319	18.2893917	1.89760944	0.09560112
.1	974134	8623348	69407	645984e-05	
AT4G04545 .1	11.1784125 974134	0.55665319 8623348	18.2893917 69407	1.89760944 645984e-05	0.09560112 02639166
AT4G04545	11.1784125 974134	0.55665319 8623348	18.2893917 69407	1.89760944 645984e-05	1
AT4G04545	11.1784125	0.55665319	18.2893917	1.89760944	0.09560112
.1 AT4C04545	974134	8623348	69407	645984e-05	
AT4G04545 .1	11.1784125 974134	0.55665319 8623348	18.2893917 69407	1.89760944 645984e-05	0.09560112 02639166
ATMG0123	-	3.68398442		2.17129255	0.09560112
0.1	7.16251975 509897	109174	624541	04875e-05	02639166
ATMG0123	-	3.68398442		2.17129255	0.09560112
0.1	7.16251975 509897	109174	624541	04875e-05	02639166
ATMG0123	-	3.68398442		2.17129255	0.09560112
0.1	7.16251975 509897	109174	624541	04875e-05	02639166
	,	!	!	ļ	

Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0123 0.1	- 7.16251975 509897	3.68398442 109174	18.0328194 624541	2.17129255 04875e-05	0.09560112 02639166
ATMG0123 0.1	- 7.16251975 509897	3.68398442 109174	18.0328194 624541	2.17129255 04875e-05	0.09560112 02639166
ATMG0123 0.1	- 7.16251975 509897	3.68398442 109174	18.0328194 624541	2.17129255 04875e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0114 0.1	- 6.87895705 016713	3.69160527 311551	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0115 0.1	- 6.87895705 016713	3.69181053 673482	17.2177555 261001	3.33306611 047894e-05	0.09560112 02639166
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166

Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166
ATMG0010 0.1	- 6.86934894 220652	3.99394438 900623	17.1832745 566057	3.39411538 154961e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
AT1G53480 .2	6.76803230 942426	0.88435150 3920179	16.7045778 684371	4.36754797 548322e-05	0.09560112 02639166
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	0.09560112 02639166
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	0.09560112 02639166
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	0.09560112 02639166
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	1
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	
ATMG0088 0.1	- 6.52390369 685399	3.69460944 665259	16.0619340 356719	6.13040384 322996e-05	

Top differentially expressed genes: full_table_B3GC-A8GC.txt

Identifier	logFC	logCPM	LR	PValue	FDR
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	

Identifier	logFC	logCPM	LR	PValue	FDR
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	0.05676864 88000274
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	0.05676864 88000274
AT2G08986 .1	12.5717106 217868	- 0.50868588 2312537	23.3331657 575235	1.36230589 138795e-06	0.05676864 88000274
AT4G04545	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT4G04545	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT4G04545	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT4G04545 .1	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT4G04545 .1	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT4G04545	11.7903842 499453	0.55665319 8623348	20.4894220 522416	5.99617131 185304e-06	0.12493322 7368114
AT2G07981 .1	i	- 2.01237448 292464	17.9476515 141031	2.27064408 811211e-05	0.30343439 3974228
AT2G07981 .1	11.0607757 789813	- 2.01237448 292464	17.9476515 141031	2.27064408 811211e-05	0.30343439 3974228
AT2G07981 .1	11.0607757 789813	- 2.01237448 292464	17.9476515 141031	2.27064408 811211e-05	0.30343439 3974228
AT2G07981 .1	11.0607757 789813	- 2.01237448 292464		2.27064408 811211e-05	
AT2G07981 .1	11.0607757 789813	- 2.01237448 292464	17.9476515 141031	2.27064408 811211e-05	0.30343439 3974228
AT2G07981 .1	11.0607757 789813	- 2.01237448 292464	17.9476515 141031	2.27064408 811211e-05	0.30343439 3974228
ATCG0097 0.1	- 6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0097 0.1	- 6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0097 0.1	- 6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0097 0.1	- 6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0097 0.1	- 6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228

Identifier	logEC	logCPM	LR	PValue	FDR
	logFC	logCPM			
ATCG0097 0.1	6.73623584 5842	1.22811850 663173	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0098 0.1	- 6.73623584 5842	1.23330598 937558	16.7039468 671215	4.36900089 713556e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0096 0.1	- 6.73623584 5842	1.23448617 304395	16.7039468 671215	4.36900089 713557e-05	0.30343439 3974228
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179

Identifier	logFC	logCPM	LR	PValue	FDR
ATCG0116 0.1	- 6.54953123 694082	1.23032608 9937	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0117 0.1	- 6.54953123 694082	1.24167897 510486	16.1184088 451796	5.95028275 626078e-05	0.30994279 0920179
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	0.32615584 1369528
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	0.32615584 1369528
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	0.32615584 1369528
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	0.32615584 1369528
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	
ATCG0099 0.1	- 6.38972229 251205	1.24148407 909039	15.6145308 360489	7.76555378 848622e-05	

Top differentially expressed genes: full_table_B7FL-B3FL.txt

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	
.1	916649	823146	420194	589912e-08	
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	
.1	916649	823146	420194	589912e-08	
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	
.1	916649	823146	420194	589912e-08	
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	
.1	916649	823146	420194	589912e-08	
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	
.1	916649	823146	420194	589912e-08	

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42190	14.5282643	1.58299433	30.8957946	2.72261103	0.00113453
.1	916649	823146	420194	589912e-08	
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
.1	980236	9433747	638087	299454e-07	338642728
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
.1	980236	9433747	638087	299454e-07	338642728
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
	980236	9433747	638087	299454e-07	338642728
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
.1	980236	9433747	638087	299454e-07	338642728
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
.1	980236	9433747	638087	299454e-07	338642728
AT3G42530	13.8288948	0.75525861	28.3396255	1.01790856	0.00212086
.1	980236	9433747	638087	299454e-07	338642728
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42410	13.5299742	0.46173990	27.2492780	1.78841893	0.00248417
.1	377142	3361866	682391	680189e-07	351718238
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	0.00274462
.1	995325	741452	409721	616874e-07	090936786
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	0.00274462
.1	995325	741452	409721	616874e-07	090936786
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	
.1	995325	741452	409721	616874e-07	
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	
.1	995325	741452	409721	616874e-07	
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	
.1	995325	741452	409721	616874e-07	
AT3G42110	13.3184757	0.39105683	26.4787258	2.66456458	
.1	995325	741452	409721	616874e-07	
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	
.1	799338	8208386	249233	817122e-07	
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	
.1	799338	8208386	249233	817122e-07	
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	
.1	799338	8208386	249233	817122e-07	
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	
.1	799338	8208386	249233	817122e-07	
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	0.00274462
.1	799338	8208386	249233	817122e-07	090936786
AT3G42100	13.2061371	0.38241868	26.0696490	3.29320259	0.00274462
.1	799338	8208386	249233	817122e-07	090936786
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418
AT3G42400 .1	13.0009682 027776	- 0.05786643 19816898	25.3241989 622638	4.84590978 172952e-07	0.00336556 510857418
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42290 .1	12.8316531 308999	- 0.22327450 4161684	24.7095784 555786	6.66520975 117815e-07	0.00396779 936487635
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42060 .1	12.6556626 820397	- 0.28805587 0930409	24.0716740 463131	9.28156254 803169e-07	0.00398492 478546513
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534	9.56282495 132137e-07	0.00398492 478546513

Identifier	logFC	logCPM	LR	PValue	FDR
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534	9.56282495 132137e-07	0.00398492 478546513
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534	9.56282495 132137e-07	0.00398492 478546513
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534		0.00398492 478546513
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534	9.56282495 132137e-07	0.00398492 478546513
AT3G42320 .1	12.6397897 460264	- 0.41029856 6174781	24.0141915 537534	9.56282495 132137e-07	0.00398492 478546513

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Identifier	logFC	logCPM	LR	PValue	FDR
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41979	13.7553828	5.39933726	41.1211501	1.43079649	5.96227205
.1	007445	106797	613709	136613e-10	91718e-06
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT3G41768	11.9654559	14.3462770	36.6083644	1.44410729	3.00886975
	277957	0502	185091	368822e-09	176409e-05
AT2G01010	11.7780417	4.07293470	34.5648950	4.12274702	5.72663303
.1	937375	578351	058845	210371e-09	860279e-05
AT2G01010	11.7780417	4.07293470	34.5648950	4.12274702	5.72663303
.1	937375	578351	058845	210371e-09	860279e-05
AT2G01010	11.7780417	4.07293470	34.5648950	4.12274702	5.72663303
.1	937375	578351	058845	210371e-09	860279e-05
AT2G01010	11.7780417	4.07293470	34.5648950	4.12274702	5.72663303
.1	937375	578351	058845	210371e-09	860279e-05

Identifier	logFC	logCPM	LR	PValue	FDR
AT2G01010	11.7780417	4.07293470	34.5648950		5.72663303
.1 AT2G01010	937375 11.7780417	578351 4.07293470	058845 34.5648950	210371e-09 4.12274702	860279e-05 5.72663303
1.1	937375	578351	058845	210371e-09	860279e-05
ATMG0123	11.2819756	3.68398442	31.9644187	1.57022513	0.00013812
0.1	43463	109174	286299	485844e-08	468967709
ATMG0123	11 2010756	3.68398442	31.9644187	1.57022513	5 0.00013812
0.1	11.2819756 43463	109174	286299		468967709
					5
ATMG0123	11.2819756	3.68398442	31.9644187	1.57022513	0.00013812
0.1	43463	109174	286299	485844e-08	468967709 5
ATMG0123	11.2819756	3.68398442	31.9644187	1.57022513	0.00013812
0.1	43463	109174	286299	485844e-08	468967709
ATMC0402	11 0010756	2.69200442	24 0644497	1 57000510	5
ATMG0123 0.1	11.2819756 43463	3.68398442 109174	31.9644187 286299	1.57022513 485844e-08	0.00013812 468967709
					5
ATMG0123	11.2819756	3.68398442	31.9644187	1.57022513	0.00013812
0.1	43463	109174	286299	485844e-08	468967709 5
AT2G01020	10.8526831	4.56716621	31.8595548	1.65732391	0.00013812
.1	473493	673	773975	443804e-08	468967709
AT0004000	40.050004	4 5074 0004	04.0505540	4.0570004	5
AT2G01020 .1	10.8526831 473493	4.56716621 673	31.8595548 773975	1.65732391 443804e-08	0.00013812 468967709
					5
AT2G01020		4.56716621	31.8595548	1.65732391	0.00013812
.1	473493	673	773975	443804e-08	468967709 5
AT2G01020	10.8526831	4.56716621	31.8595548	1.65732391	0.00013812
.1	473493	673	773975	443804e-08	
AT2G01020	10 8526831	4.56716621	31.8595548	1.65732391	5 0.00013812
1.1	473493	673	773975	443804e-08	
					5
AT2G01020	10.8526831 473493	4.56716621	31.8595548	1.65732391	0.00013812
.1	473493	673	773975	443804e-08	5
ATMG0118	9.34190775	3.68885212	26.2571818	2.98841408	0.00207550
0.1	659214	839938	405975	779022e-07	339087177
ATMG0118	9.34190775 659214	3.68885212 839938	26.2571818		0.00207550
0.1 ATMG0118	9.34190775	3.68885212	405975 26.2571818	779022e-07 2.98841408	0.00207550
0.1	659214	839938	405975	779022e-07	339087177
ATMG0118	9.34190775	3.68885212	26.2571818	2.98841408	0.00207550
0.1	659214	839938	405975	779022e-07	339087177
ATMG0118 0.1	9.34190775 659214	3.68885212 839938	26.2571818 405975	2.98841408 779022e-07	0.00207550 339087177
ATMG0118	9.34190775	3.68885212	26.2571818		0.00207550
0.1	659214	839938	405975	779022e-07	339087177
ATMG0124	8.93573734				0.00273824
0.1	072215	86467	976378	55279e-07	621321555

Identifier	logFC	logCPM	LR	PValue	FDR
ATMG0124	8.93573734	3.69874942	25.0377908	5.62175938	0.00273824
0.1	072215	86467	976378	55279e-07	621321555
ATMG0124	8.93573734	3.69874942	25.0377908	5.62175938	0.00273824
0.1	072215	86467	976378	55279e-07	621321555
ATMG0124	8.93573734	3.69874942	25.0377908	5.62175938	0.00273824
0.1	072215	86467	976378	55279e-07	621321555
ATMG0124	8.93573734	3.69874942	25.0377908	5.62175938	0.00273824
0.1	072215	86467	976378	55279e-07	621321555
ATMG0124	8.93573734	3.69874942	25.0377908	5.62175938	0.00273824
0.1	072215	86467	976378	55279e-07	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0075	8.40368603	3.69443946	23.2865943	1.39569413	0.00273824
0.1	419411	607821	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555
ATMG0078	8.40368603	3.69495653	23.2865943	1.39569413	0.00273824
0.1	419411	358075	931385	47458e-06	621321555

Literature

Robinson MD, McCarthy DJ, Smyth GK (2010) edgeR: a Bioconductor package for differential expression analysis of digital gene expression data. Bioinformatics 26: 139-140

Benjamini, Y., and Hochberg, Y. (1995). Controlling the false discovery rate: a practical and powerful approach to multiple testing. Journal of the Royal Statistical Society Series B, 57, 289–300.

R session information

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Base packages: base, datasets, graphics, grDevices, methods,
stats, utils
Other packages: edgeR 2.6.12, limma 3.12.3
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