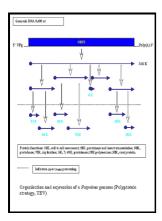
Studies of transcription and gene expression in African cassava mosaic virus.

University of EastAnglia - Transcriptional analysis of South African cassava mosaic virus



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Transcriptional analysis of South African cassava mosaic virus

The results of qRT-PCR in wheat protoplast cells with instantaneous overexpression of TaWRKY40 indicated that the expression level of TaGAPC1 induced by abiotic stress was upregulated by TaWRKY40. They are: East African cassava mosaic virus EACMV; , East African cassava mosaic virus EACMV; , East African cassava mosaic Cameroon virus EACMCV; , Indian cassava mosaic virus ICMV; ; , Sri Lankan cassava mosaic virus SLCMV; , East African cassava mosaic Zanzibar virus EACMZV; , East African cassava mosaic Kenya virus EACMKV; and Cassava mosaic Madagascar virus CMMGV;

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The best example of this is the large-scale replacement of heavily CMD-affected local cassava varieties by improved CMD-resistant material in northeastern Uganda in the 1950s. All four monocotyledonous TTs carried the AUGAAU motif in their PPSGs, which generated a major poly A site 14 to 26 nt downstream. All the tissues were sampled at 0, 2, 4, 6, 8, 12 and 24 h.

Cassava geminivirus agroclones for virus

These were then incubated for 10 minutes at 37° C primer annealing, followed by 90 minutes at 42° C and finally 10 minutes at 70° C to inactivate the enzyme.

Cassava geminivirus agroclones for virus

The quality of total RNA was evaluated using LabChipGX Caliper LifeSciences, Waltham, MA, USA and total RNA was used for sRNA library preparation and sequencing.

Attenuation of Histone Methyltransferase KRYPTONITE

CLCuMV: Cotton leaf curl Multan virus.

Attenuation of Histone Methyltransferase KRYPTONITE

A total of 30-50 plants per construct were analyzed. Taken together, our data again demonstrates that the widely-used reference genes 18S and $EF1\alpha$, may not be the optimal choices for testing transcript abundance in N.

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Arabidopsis plants overexpressing TaGAPC1 gene showed TaGAPC1 expression using pr1 and pr2 primer pair, and TaGAPC1-GFP fusion genes using the pr1 and pr3 primer pair, but no expression was observed in wild type Additional file: Figure S1B and S1C Transgenic lines expressing TaGAPC1 showed a higher survival rate than Col-0 wild type after 25 days of withholding water. These results were consistent with the above results Fig. B Leaves of early stage of infected N.

Transcriptional analysis of South African cassava mosaic virus

Interestingly, the expression of NbKYP was highly upregulated than those of sTRV vectors treated N.

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