**Comparative proteomics reveals that central metabolism changes are associated with resistance against *Sporisorium scitamineum* in sugarcane**

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**Additional file 2: Table S1** The primers used for RT-qPCR amplification of correlated differentially expressed genes

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene Name** | **ID name** | **Forward primer (5’-3’)** | **Reverse primer (5’-3’)** |
| *beta-1,3-glucanase* | Sugarcane\_Unigene\_BMK.34407 | CCATGCTTGCACTGGCATTGCTT | TTGTCGCCGTTCACGCCGTAG |
| *POD* | Sugarcane\_Unigene\_BMK.59640 | CAGAGCGTGGTCGTCATAG | GAAGCAGTCGTGGAAGAAGAG |
| *POD* | gi34949353 | CATCCTCCGCCTCTTCTT | CATCTTCTCGCCCTGGAA |
| *xylanase* | Sugarcane\_Unigene\_BMK.55512 | ACGATTACTCCGCCTACAC | TGGTGGTCTTGTTGAGGTT |
| *PR1* | gi36048114 | GTCAGGCAGTTCAACTTCAC | TGTCCAGGTCCAGGAAATC |
| *PR1* | Sugarcane\_Unigene\_BMK.51436 | CAGCATCAGGCAGTTCAAC | TGTCCAGGTCCAGGAAATC |
| *HSP* | Sugarcane\_Unigene\_BMK.42413 | CGCAAGCACAAGAAGGAC | GGGTGATGGTGGTGTAGAA |
| *Lectin* | Sugarcane\_Unigene\_BMK.84564 | CCAACTGGTCCGTGTCATA | GTGGAGTCTCGTCTTCATCA |
| *CaM* | gi34970702 | AAGATGAAGGACACCGACTC | CAGCCGAGATGAAACCATTC |
| *CML* | Sugarcane\_Unigene\_BMK.53658 | CATTCCGCATTATTGACCAAGA | GCTAGTCCTCCTCATCATCC |
| *CaMBP* | Sugarcane\_Unigene\_BMK.57746 | TGGTGAATGATGTGGAAGAGA | CAGGCTTAGTTGAGAATGAAGAC |
| *CBL* | Sugarcane\_Unigene\_BMK.25350 | TGCCTGGATGGAGTGAAG | GCTCATACAACGCCTCAAC |
| *MDAR* | Sugarcane\_Unigene\_BMK.69164 | TCGCCATCATCTCCAAGG | GTACTCAGGATCAGTTCAATGC |
| *Prx* | Sugarcane\_Unigene\_BMK.42965 | CCTCCACCTCTGCGTTCC | CTTGCCGTTCTGGTCCTTGA |
| *RPM1* | Sugarcane\_Unigene\_BMK.66398 | GGATGACTGAGGAGAAGAAGAT | CACTCTGGTGGAGAATTGTTG |
| *PBS1* | Sugarcane\_Unigene\_BMK.67719 | TGACTGCTCTGAGGTGTATC | CTCCTGCCACTGTTATTCTTG |
| *HSP90* | Sugarcane\_Unigene\_BMK.42924 | TTGTTAAGGGTATTGTTGACTCTG | ACACTTCTTCACGAGGTTCT |
| *HSP90* | gi35034166 | CCTCATCATCAACACCTTCTACTC | ACTTGTCCGTCAGGCTCTC |
| *PP2C* | Sugarcane\_Unigene\_BMK.63236 | ATGTGGTCTCTAACGAGGAAG | GTTATGTTGTCACTGCTCTCC |
| *ACO* | gi35014290 | CACCAAGTTCGCCATGTAC | CTGGAGGAGCAGGATGATG |
| *EIN3* | Sugarcane\_Unigene\_BMK.65773 | CCTCGTTCGTCAGTCCAA | GCTCCTCTTCCTGCTTGA |
| *GID1* | Sugarcane\_Unigene\_BMK.57806 | CCATCCTCGTCTACTACCAC | TGTTGAAGTAGGCGTGGAA |
| *GAPDH* | - | CACGGCCACTGGAAGCA | TCCTCAGGGTTCCTGATGCC |

Notes: *POD*, peroxidase; *PR1*, pathogenesis-related protein 1; *HSP*, heat shock protein; *CaM*, calmodulin; *CML*, calcium-binding protein; *CaMBP*, calmodulin-binding protein; *CBL*, calcineurin B-like protein; *MDAR*, monodehydroascorbic acid reductase; *Prx*, peroxiredoxin; *RPM1*, effector-triggered immune receptor; *PBS1*, serine-threonine kinase; *HSP90*, heat shock protein 90; *PP2C*, protein phosphatase 2C; *ACO*, 1-aminocycopropane-1-carbosylic acid oxidase; *EIN3*, ethylene sensitive 3; *GID1*, gibberellic acid-insensitive dwarf 1; *GAPDH*, glyceraldehyde-3-phosphate dehydrogenase.