

Table S1: List of primers used in gene expression analysis

|      | Maize GDB<br>Accession ID | Primer Fw                     | Primer Rv                |
|------|---------------------------|-------------------------------|--------------------------|
| HATS | Zm00001d054057            | TCATCCATGTTACCTGCTACCTACCTCTA | TCAACGGAGCACACGTGTATTGTA |
|      | Zm00001d054060            | GCCTCAAGTTTGCCGAGAAC          | CGTAGAGGTAGGTAGCAGGTG    |
|      | Zm00001d014976            | CGAGCACCAGAAAGAAGCTG          | AAGGAGAGCAGGCGGATG       |
|      | Zm00001d017095            | CGATGAGTGGCTGTCGTTG           | TTGAGCCCCTCCATTCGTAA     |
|      | Zm00001d003287            | GAGGAGGAAGGACGAGTAGG          | CTGACGCTGGGTTTGGATTG     |

|      |                |                      |                       |
|------|----------------|----------------------|-----------------------|
| LATS | Zm00001d024587 | CCGCCTCGACAACTTCTACT | GGGTTCAATTTAGGGTCGTC  |
|      | Zm00001d029932 | GCCATCAACCTCGTCCTCTT | CCACCGATTTTCAGGCCAAAA |
|      | Zm00001d036941 | CTGAAGAATGAGGGCCCAGA | ACGAAGACAGCGCAGATTTG  |
|      | Zm00001d017666 | GGCGAGCATGGACATAGTGA | ACTCTGTAGACCACGCAAAGA |
|      | Zm00001d007785 | AGGAGGAGGAGAGGGAGAAG | TGGAAACGGACAAGAAGGCT  |

|     |                |         |                                     |                       |                      |
|-----|----------------|---------|-------------------------------------|-----------------------|----------------------|
| ROS | Zm00001d042961 | ZmRbohA | respiratory burst oxidase protein A | CAGCGCACACAAGAACTCTC  | CCCCGCACACAAGAACTCTC |
|     | Zm00001d043543 | ZmRbohB | respiratory burst oxidase protein B | TTGGGTTACACGTGAGCAAG  | AATGGAGCAAAGGCAACTGT |
|     | Zm00001d038762 | ZmRbohC | respiratory burst oxidase protein C | GGCACAGGAACTAAGCAAGC  | AAACTCATCGCCAAGAAAGC |
|     | Zm00001d052653 | ZmRbohD | respiratory burst oxidase protein D | TGTCTCTGGTCGTTCTCAGC  | CTCATCGCCCTCTAGAACCC |
|     | Zm00001d031908 | ZmSOD   | superoxide dismutase [Cu-Zn]        | GCTTGAAGATGATTTGGGGA  | ACAGCGTAGCTCAACTGCAA |
|     | Zm00001d027511 | ZmCAT2  | catalase 2                          | TAGCACGCAAACCTGAATCGC | TGGAAACCCAGCCAAACATT |