

**Supplemental Table S1** Details of primer sequences used in the qRT-PCR analysis

| Gene name                      | Gene ID           | Primer sequence (5'-3')                                      | Product length (bp) |
|--------------------------------|-------------------|--------------------------------------------------------------|---------------------|
| <i>GAPDH</i>                   | Cluster-27311.70  | F: CTTCAACATCATTCCCAGCAGCACT<br>R: CTTCCACATAGCCCAAGATTCCCTT | 227                 |
| <i>H2A</i>                     | Cluster-25187.4   | F: CATCGTTTCATAGCCCATCACC<br>R: TGCCCAACATTCACAATCTCCT       | 155                 |
| <i>EF-1<math>\alpha</math></i> | Cluster-134664.12 | F: TGTCCTTTCAAGTGTCGCAAAC<br>R: CAATACAGCCTTGTAGCCAGCA       | 115                 |
| <i>ACT</i>                     | Cluster-127175.0  | F: GAAGTGGCTCGGAAGGTGAAAGAA<br>R: ATAACGGTGGGCAAAGGAGTGGTA   | 236                 |
| <i>TUA</i>                     | Cluster-34083.58  | F: GTTCACTGTTTACCCGTCTCCCC<br>R: GTAGGTCGGTCGCTCAATGTCTG     | 169                 |
| <i>UBC</i>                     | Cluster-114224.0  | F: GACTTCAAGAGGCAGCAGCAGGAT<br>R: CGAACGGTTGGTGGCTTATTAGGA   | 179                 |
| <i>RPL</i>                     | Cluster-124103.0  | F: TGGGCTTGTTGTCCTTTCTGTC<br>R: TCCTTCACCTTCTCTGCCTGTG       | 144                 |
| <i>PP2A</i>                    | Cluster-50217.11  | F: CCATGTGTGACCTCTTATGGTCTG<br>R: TTGTTGGTGTGATTGAACTGCTCT   | 118                 |
| <i>18S</i>                     | Cluster-104997.2  | F: GTGGGAAGGATGACGATGAGAT<br>R: CGGTTGCGAGTAAAGGGGTAC        | 109                 |
| <i>TUB</i>                     | Cluster-42369.164 | F: TGCTGTGTTTCAAGGCAAGATG<br>R: CGGTGTACCAATGAAGGAAAGC       | 257                 |
| <i>UBQ</i>                     | Cluster-13365.24  | F: GATTCGTTGGAGTCTCAAGCGT<br>R: CCTGATCTAAATTGGATTCTGGG      | 235                 |
| <i>KO</i>                      | Cluster-43519.6   | F: CACAGAGCAGAAGAAACGGATTG<br>R: CATTTCGGTTGTTACCAAAGTCGT    | 159                 |
| <i>KAM</i>                     | Cluster-121932.4  | F: ATTCCAGGAAGTGCATTCCACC<br>R: CTCATCAACCGAATCCAACAGG       | 141                 |
| <i>GA13-ox</i>                 | Cluster-50859.156 | F: CCTGTGATGCCTTGCTTTCTAA<br>R: TGTCAGTGCTTGCAAGTTGCTG       | 109                 |
| <i>GA44-dio</i>                | Cluster-65218.0   | F: AGTCCCAGCACCTCCATTATCACCA<br>R: CTCACAGTTGCGTGCAGTCCTTCTT | 289                 |
| <i>ALDH7A1</i>                 | Cluster-34991.425 | F: ATTTTCGGCACCATTGGTAGGTATA<br>R: GCCTCAAGGTTTAAGCAGCTCTAT  | 123                 |
| <i>IPM</i>                     | Cluster-21187.19  | F: ATTACCCTGGCCGACATATCC<br>R: ACACTTCTCACGCATTCTACACG       | 145                 |