**SUPPLEMENTARY FILE 2 Primer information.**

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| **Primer name** | **Primer sequences (5‘ -> 3‘)** | | | **Target gene** | | |
| Primers to amplify full-length seuqences of *M. melolontha* β-glucosidases. | | | | | | |
| 1-pIB-fwd | GTAATGAAGCATCTACTATTATTTTTAAT | | | Mm\_bGlc1 | | |
| 1-pIB-rev | CCATTCACAAACTTCGAATCCTTC | | | Mm\_bGlc1 | | |
| 2-pIB-fwd | GTAATGAAACCAATCGGTTTAATTGTT | | | Mm\_bGlc2 | | |
| 2-pIB-rev | CCAATCGCAAGCTTCAAATCCAT | | | Mm\_bGlc2 | | |
| 3(2)-pIB-fwd | GTAATGAAATCACTAATTTTAATTTTAGTT | | | Mm\_bGlc3 | | |
| 3(2)-pIB-rev | CCATTCGCAGACTTCGAATCCAT | | | Mm\_bGlc3 | | |
| 5-pIB-fwd | GATATGAAAGCGATTATTATATTGGCT | | | Mm\_bGlc5 | | |
| 5-pIB-rev | AAAATGCCTAATATAAATGTACAAAC | | | Mm\_bGlc5 | | |
| 6neu-pIB-fwd | GTAATGAGGCGCGTCTTAATATTAATC | | | Mm\_bGlc6 | | |
| 6neu-pIB-rev | TAGAATACTCAAGCTATGCATCAAG | | | Mm\_bGlc6 | | |
| 11-pIB-fwd | GATATGAAAGTGCAGGTTGTATTAAT | | | Mm\_bGlc11 | | |
| 11-pIB-rev | AAAATATCTCATACGAATAAATAATA | | | Mm\_bGlc11 | | |
| 14-pIB-fwd | GATATGAGACGAATCATTTTCCTTTTG | | | Mm\_bGlc14 | | |
| 14-pIB-rev | CTCTGGCACTTCGTCCTCGTCA | | | Mm\_bGlc14 | | |
| 15-pIB-fwd | GTA ATGAAGCTCGTAATTTTCGCTCTG | | | Mm\_bGlc15 | | |
| 15-pIB-rev | TGACCAATCGCACTCTTCGAAACC | | | Mm\_bGlc15 | | |
| 16-pIB-fwd | GATATGAAGGTTCTAGTTATACTTTG | | | Mm\_bGlc16 | | |
| 16-pIB-rev | CCATTCACAGTCGCTAAAATTTT | | | Mm\_bGlc16 | | |
| 17-pIB-fwd | GATATGAAGAGACTAATTCTTATTTTC | | | Mm\_bGlc17 | | |
| 17-pIB-rev | CCACTCGCAGGCATCAAATCCA | | | Mm\_bGlc17 | | |
| 18-pIB-fwd | GATATGGGATACTTTGAACCATTAATA | | | Mm\_bGlc18 | | |
| 18-pIB-rev | CCACCACGAACATGCTTCAAAT | | | Mm\_bGlc18 | | |
| 19v-pIB-fwd | GATATGTCGTCATATGTATACAAAAAC | | | Mm\_bGlc19v | | |
| 19v-pIB-rev | AACATCTTCATCTGACTCGGTA | | | Mm\_bGlc19v | | |
| 5‘ RACE and nested-PCR primer | | | | | | |
| Mm\_6-5’-RACE | CAATTTCGGCATCAATTTCGTTACTATCACTA | | | Mm\_bGlc6 | | |
| Mm\_6-5’-Nest | CACAAATCCTGCGTCCATACTTAATTGATA | | | Mm\_bGlc6 | | |
| 3‘ RACE und Nested-PCR Primer | | | | | | |
| Mm\_15-3’-RACE | | | | CTGATACCGGTGAATTAAATGATTGTCGAAGAG | | Mm\_bGlc15 | |
| Mm\_15-3’-Nest | | | | CAGTTCTAGAGGCAATCGTAGAAGATG | | Mm\_bGlc15 | |
| Mm\_6-3’-RACE | | | | TTATACTGTCCTTCTAGCTCATGCTAGAAC | | Mm\_bGlc6 | |
| Mm\_6-3’-Nest | | | | TGCAGATGTTAATGCTGAAGATACGGC | | Mm\_bGlc6 | |
| SMARTer RACE cDNA Amplification Kit Primer | | | | | | |
| Long Universal Primer | | | CTAATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGAGT | | | |
| Short Universal Primer | | | CTAATACGACTCACTATAGGGC | | | |
| Nested Universal Primer | | | AAGCAGTGGTATCAACGCAGAGT | | | |
| Primers for dsRNA biosynthesis with and without the T7 promoter sequence (highlighted in green). | | | | | | |

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| Mm-Tubulin-fwd  Mm-Tubulin-rev  GFP-RNAi\_fwd | CACGCATACGACTTTGGA  GAGGCCGTGATTGAAGAT  GCTTTGCAAGATACCCAG |
| GFP-RNAi\_rev | GTTCATCCATGCCATGTG |
| Mm\_bGlc\_16\_fwd\_T7 | TAATACGACTCACTATAGGGAGAACAGTATGGCACCTTTGGC |
| Mm\_bGlc\_16\_rev\_T7 | TAATACGACTCACTATAGGGAGATCTAGCTATTCTTTCTTTCATGG |
| Mm\_bGlc\_16\_fwd | ACAGTATGGCACCTTTGGC |
| Mm\_bGlc\_16\_rev | TCTAGCTATTCTTTCTTTCATGG |
| Mm\_bGlc\_17\_fwd\_T7 | TAATACGACTCACTATAGGGAGAACCCACTCCCATTTGTATTGG |
| Mm\_bGlc\_17\_rev\_T7 | TAATACGACTCACTATAGGGAGAGATAGGCAATCTGGACCTCG |
| Mm\_bGlc\_17\_fwd | ACCCACTCCCATTTGTATTGG |
| Mm\_bGlc\_17\_rev | GATAGGCAATCTGGACCTCG |
| Mm\_bGlc\_18\_fwd\_T7 | TAATACGACTCACTATAGGGAGATTCATATATTTTGTGAACTTGGAC |
| Mm\_bGlc\_18\_rev\_T7 | TAATACGACTCACTATAGGGAGAGTCTTCAGACCTTCTTCGG |
| Mm\_bGlc\_18\_fwd | TTCATATATTTTGTGAACTTGGAC |
| Mm\_bGlc\_18\_rev | GTCTTCAGACCTTCTTCGG |
| Primers for RT-qPCR | |
| qPCR\_Mm \_bGlc\_16\_fwd | GACTCAGCAGTAGAGTTAGCATTACAGG |
| qPCR\_Mm \_bGlc\_16\_rev | CGTTGTAAGTTCTGGTAGTCTGGATGC |
| qPCR\_Mm \_bGlc\_17\_fwd | GAAGACATTCAAGCAGCTGAAGACAGTG |
| qPCR\_Mm \_bGlc\_17\_rev | CCTCCGTAAAGATAGGCAATCTGGAC |
| qPCR\_Mm \_bGlc\_18\_fwd | TACAAATGGAGTTTGGTTGGATAGCG |
| qPCR\_Mm \_bGlc\_18\_rev | GGCACTCATCACGTCAATTCTGC |
| qPCR\_Mm \_actin-fwd | CTGCCAGCTCAAGTTCCC |
| qPCR\_Mm \_actin-rev | GAACAGAGCTTCTGGGCA |
| qPCR\_Mm\_Tubulin\_fwd | CACGCATACGACTTTGGAACAC |
| qPCR\_Mm\_Tubulin\_rev | GAGGCCGTGATTGAAGATACG |