**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-fwdMm-Tubulin-rev GFP-RNAi\_fwd | CACGCATACGACTTTGGAGAGGCCGTGATTGAAGATGCTTTGCAAGATACCCAG |
| 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 |