**Table S5. List of primers**

|  |  |  |
| --- | --- | --- |
| oAK # | Target | Sequence |
| C75 | *M2*-*mamI* | acacaggatccccaagcgtgattttcggactgc |
| D05 | *M2-mamI* | tgtgtgcggccgctcaaccatcgatgtcaggg |
| D04 | *mamI-M2* | acacaactagtatgccaagcgtgattttcgg |
| C77 | *mamI-M2* | tgtgtggatccaccatcgatgtcagggtctgaag |
| C73 | *M2-mamL* | acacaggatccgtaagattgatcggatcgttgg |
| C61 | *M2-mamL* | tgtgtgcggccgctcagcgcttgatgacgatg |
| 5SpeL\* | *mamL-M2* | ggactagtatggtaagattgatcggatcgttgg |
| C50 | *mamL-M2* | tgtgtggatccgcgcttgatgacgatgctcttc |
| C74 | *M2-mamQ* | acacaggatccgcattaggcgacgcgaatgttgg |
| C62 | *M2-mamQ* | tgtgtgcggccgctcatttcttgatgtcctgcgcatg |
| 5SpeQ\* | *mamQ-M2* | ggactagtatggcattaggcgacgcg |
| C51 | *mamQ-M2* | tgtgtggatcctttcttgatgtcctgcgc |
| C76 | *M2-mamB* | acacaggatccaccctgttcaagggggtcc |
| D02 | *M2-mamB* | tgtgtgcggccgctcaggcccgtgccgcg |
| D03 | *mamB-M2* | acacaactagtatgaccctgttcaagggggtcctcg |
| C78 | *mamB-M2* | tgtgtggatccggcccgtgccgcggc |
| 5EcoL | *mamL* | ggcgaattcatggtaagattgatcggatc |
| 3SpeL | *mamL* | ggactagttcagcgcttgatgacgatg |
| D25 | *lacI* | caaaagctgggtaccgggcccccccaagctttggtgcaaaacctttcgcgg |

\*Primer designed by Dorothée Murat

**Table S5. List of primers (continued)**

|  |  |  |
| --- | --- | --- |
| oAK # | Target | Sequence |
| D28 | *lacI* | cgatgattaattgtcaacagctcctcgagcattgcgttgcgctcactg |
| C19 | *tac* promoter | cggctcgtataatgtgtatttaaatgctaacaagtctagcgaaccgc |
| C20 | *tac* promoter | gcggttcgctagacttgttagcatttaaatacacattatacgagccg |
| C21 | *tac* promoter | acacaatttaaataattgtgagcgctcacaattcacacattatacgagccg |
| D10 | riboswitch | tgtgtactagtcatcttgttgataccccctgcgcagcg |
| D13 | *lacI* | acacaagatcttggtgcaaaacctttcgcggtatgg |
| D62 | *mms16* promoter | ctggagctccaccgcggtggcggccatcaccgtctgtgcgccggg |
| D63 | *mms16* promoter | gacggactagttctagagcggccgcgttattcctccaacccgggg |
| E07 | *mamQ* | gcagggggtatcaacaagatgactagtatggcattaggcgacgcgaatg |
| E12 | M2 | gcggccgctctagaactagttcacttgtcgtcgtcgtccttgtagt |
| F02 | *amb0956* | tcctgcagcccgggggatccactagtggccatgactctacactccgaatc |
| F03 | *amb0956* | ctccagtgaaaagttcttctcctttactcattcccccctcctcctcgttc |
| F04 | *amb0957* downstream intergenic region | gcggcggccaaagcagcagcgggatccactgaagctatccttcgcagcac |
| F05 | *amb0957* downstream intergenic region | caccgcggtggcggccgctctagaactagttggcgccagcttgtcgg |
| E69 | *gfp* (mutant 3) | atgagtaaaggagaagaacttttcactggag |
| E70 | *gfp* (mutant 3) | ggatcccgctgctgctttg |