**Additional file 6**

**Table S2**. **Oligonucleotides used in this study.** The oligonucleotides that were used for either construction of cassettes or verification of the genomic integration of both OE*cre1* or KO*cre1* are detailed in the table. The location of the primer within the cassettes or in the genome is given in Fig. 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Template | Target | Primer designation | Sequence (5'→3') | Expected amplicon (bp) |
| **Cassette construction** | | | | |
| *cre1* over-expression cassette (TMS17) | | | | |
| PC9 genomic DNA | *beta-tubulin* | SacII-btubPF | CCGCGGATGCTGTTGGGAGGAAACTAAAT | 1704 |
| *beta-tubulin* | cre1F-btubPR | CGACTAACTTCTTTTCCATGCAGAATGCCCTCCTCGTCCCAG |
| PC9 genomic DNA | *cre1* | btubPR-cre1F | CTGGGACGAGGAGGGCATTCTGCATGGAAAAGAAGTTAGTCG | 3614 |
| *cre1* | cre1R-SphI | TCACGTACGATGAAACGACTGCATGC |
| *cre1* replacement cassette (TMS18) | | | | |
| PC9 genomic DNA | *cre1* | cre1PF | GCCCCTGCCCCTATGCT | 2023 |
| *cre1* | hygF-cre1PR | ATTTAGTTTCCTCCCAACAGCATGGCGGTGGTGGTGGTG |
| pTMS14 (see reference xx) | *Hygr* | cre1PR-hygF | CACCACCACCACCGCCATGCTGTTGGGAGGAAACTAAAT | 3204 |
| *Hygr* | cre1TF-hygR | CGTAAGAAGAGAAAGAGGCGGAATGTTGGTCAGCGCTGTGG |
| PC9 genomic DNA | *cre1* | hygR-cre1TF | CCACAGCGCTGACCAACATTCCGCCTCTTTCTCTTCTTACG | 2019 |
| *cre1* | cre1TR | CGAACACAACCTGCAATATGCCT |
| **Analysis of construct integration** | | | | |
| *cre1* over-expression cassette (TMS17) | | | | |
| strain-specific genomic DNA | *Cbxr* | TMS17DF | CGGGAACACACAAATCATTG | 6147 |
| *cre1* | TMS17DR | GCTGTCCAAAAGAGGGTGTC |
| *cre1* replacement cassette (TMS18) | | | | |
| strain-specific genomic DNA | *cre1* | cre1DF | TCCTTTAAGTGTGTGCCGCT | 3589 |
| *cre1* | cre1DR | CTGCGGCACTGAAACCAAAA |