**Supplementary File 3: Constructs and related primers used in this study.**

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| --- | --- | --- | --- |
| **construct #** | **transgene(s)** | **primer** | **sequence (5' to 3')** |
| pCZGY3006, pCZGY3007 | *juEx7015/juEx7016,juEx7045/juEx7046* | YJ11959 | AGGGATTACAATCAACGAAAGG |
| YJ11960 | AAGTAGTCTTTCCAGCGTTGTC |
| pCZGY3008, pCZGY3009  | *juEx7045/juEx7046, juEx7019/juEx7020, juEx7439/juEx7440, juEx7021/juEx7022, juEx8062/juEx8063* | YJ74 | GTTTAATTACCCAAGTTTGAG |
| YJ11560 | AACTATGATATTTTACATTGGACAG |
| pCZGY3018, pCZGY3019 | *juSi320/juSi321* | YJ12604 | GGTGGAGGTGGAGCAACTGGCATTAACGCAATG |
| YJ12605 | AGTTCTTCTCCTTTACTCATAGCTGTAACTTTACTACCTC |
| YJ12602 | CTATGAGTAAAGGAGAAGAACTTTTCACTGGAGTTGTCC |
| YJ12603 | TGCTCCACCTCCACCTCCTTTGTATAGTTCATCCATGCC |
| pCZGY3508 | *juEx8087/juEx8088* | YJ12453 | tcaggaggacccttggctagcgtcgacggtacatcatgcgtccactttcgctga |
| YJ12454 | ggccgatgcggagctcagataattttaactcaaaataatatttatttatgaaaaaaaaaacaattaaaagccacc |
| pCZGY3509 | *juEx8089/juEx8090* | YJ12457 | agagacgcgatgcaggtcacacagacgtctgtctctgc |
| YJ12458 | acctgcatcgcgtctcttcctcctccaaggcaaatgtg |
| pCZGY3512 | *juEx8095/juEx8096* | YJ12463 | TAAaagtgcagagccagtcagg |
| YJ12464 | ctggctctgcacttTTAgtcgtc |
| YJ12465 | GCTGCCGCTgttacatttgaatcaagagatgacgccgcc |
| YJ12466 | tcaaatgtaacAGCGGCAGCtcctttcgggagaccagt |
| pCZGY3026, pCZGY3027 | *juEx7113, juEx7114/juEx7115,* | YJ11561 | ATCTTCCGTAAGAGATGAACGAAGACGAACTTCGTG |
| YJ11562 | GTTCATCTCTTACGGAAGATTGGTGACACGGCATGT |
| pCZGY3536, pCZGY3537 | *juSi363, juSi366* | YJ12607 | CTAGAAAGTATAGGAACTTCGCATGAGGGATTACAATCAACGAAAGGAAT |
| YJ12608 | GTCATCGTCTTTATAATCcatAGCTGTAACTTTACTACCTGAAAAAC |
| YJ12419 | GGTAGTAAAGTTACAGCTatgGATTATAAAGACGATGACGATAAG |
| YJ12420 | AGTaggatgagacagcTTAGTTGCTCGGACGTGTCC  |
| YJ12421 | CGtccgagcaactaaGCTGTCTCATCCTACTTTCACC |
| YJ12422 | CAATTCTTctcctttactcatGATGCGTTGAAGCAGTTTCCC |
| YJ12423 | CTgcttcaacgcatcATGAGTAAAGGAGAAGAATTGTTCAC  |
| YJ12424 | gcaaaaatcaatagaggaccgctacacaTTACTTGTAGAGCTCGTCC  |
| pCZGY3538, pCZGY3539, pCZGY3540 | *juSi364, juSi365, juSi368* | YJ12164 | aagtataggaacttcgcatgAAGCTTTTGGTTTTCACAATTTTC |
| YJ12418 | gtcatcgtctttataatccatTTGAACAAGAGATGCGGAAAATAG |
| YJ12419 | ccgcatctcttgttcaaATGGATTATAAAGACGATGACGATAAG |
| YJ12420 | AGTaggatgagacagcTTAGTTGCTCGGACGTGTCC  |
| YJ12421 | CGtccgagcaactaaGCTGTCTCATCCTACTTTCACC |
| YJ12422 | CAATTCTTctcctttactcatGATGCGTTGAAGCAGTTTCCC |
| YJ12423 | CTgcttcaacgcatcATGAGTAAAGGAGAAGAATTGTTCAC  |
| YJ12424 | gcaaaaatcaatagaggaccgctacacaTTACTTGTAGAGCTCGTCC  |
| pCZGY3526 | *juSi391* | YJ12554 | tcaaagaaatcgccgacttaaactacacggaggcttcaacaatc |
| YJ12555 | tcaaacttgggtaattaaacctgcaaaaaaacgagaaattcatgtaacaaaac |
| YJ12556 | gtttaattacccaagtttgaggtagtaaagttacagctatgggaatcaagggttccaagc |
| YJ12557 | aagtataggaacttcgcatgaagtcaagagaggtggaacgagag |
| pCZGY3533 | *juSi392* | YJ12554 | tcaaagaaatcgccgacttaaactacacggaggcttcaacaatc |
| YJ12579 | TCCGCCGCCACCTGCCTTGATTCCCATggtttgggc |
| YJ12580 | TCAAGGCAGGTGGCGGCGGATCCatggtgagcaagggc |
| YJ12557 | aagtataggaacttcgcatgaagtcaagagaggtggaacgagag |
| pCZGY3534 | *juSi393* | YJ12554 | tcaaagaaatcgccgacttaaactacacggaggcttcaacaatc |
| YJ12555 | tcaaacttgggtaattaaacctgcaaaaaaacgagaaattcatgtaacaaaac |
| YJ12581 | aattacccaagtttgaggtagtaaagttacagctATGGGAATCAAGGCAGGTGGCGGCGG |
| YJ12557 | aagtataggaacttcgcatgaagtcaagagaggtggaacgagag |