**Table S2. Primers used in this study**

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| Primer | Sequence |
| UBQp attB4　F | 5’-GGGGACAACTTTGTATAGAAAAGTTGTGGGCTGCAGTGCAGCGTGAC-3’ |
| UBQp attB1　R | 5’-GGGGACTGCTTTTTTGTACAAACTTGTGCAGAAGTAACACCAAACAACAG-3’ |
| DXS3p 2k F | 5’-GGGGGTACCTATATATGTGTAAAGTTGGATCTTG-3’ |
| DXS3p R | 5’-GGGAAGCTTTGGAGATCGACAAGCTAAGC-3’ |
| DXS3p m1 F | 5’-GTTTTATTTATTTACCACGTCATTATTCCCCTCT-3’ |
| DXS3p m1 R | 5’-AGAGGGGAATAATGACGTGGTAAATAAATAAAAC-3’ |
| DXS3p m2 F | 5’-GTTTTATTTATTTATGACGTGGTTATTCCCCTCT-3’ |
| DXS3p m2 R | 5’-AGAGGGGAATAACCACGTCATAAATAAATAAAAC-3’ |
| DXS3p m3 F | 5’-GTTTTATTTATTTACCACGTGGTTATTCCCCTCT-3’ |
| DXS3p m3 R | 5’- AGAGGGGAATAACCACGTGGTAAATAAATAAAAC-3’ |
| DXS3p 250 F | 5’-AGATCTATGACGTCATTATTCCCCTC-3’ |
| DXS3p 240 F | 5’-AGATCTTATTCCCCTCTCGCGCGCC-3’ |
| DXS3p 250 m1 F | 5’-AGATCTACCACGTCATTATTCCCCTC-3’ |
| DXS3p 250 m2 F | 5’-AGATCTATGACGTGGTTATTCCCCTC-3’ |
| DXS3p 250 m3 F | 5’-AGATCTACCACGTGGTTATTCCCCTC-3’ |
| DXS3p TGACGT F | 5’-CTCCCGCTAAAACTTGCTTG-3’ |
| DXS3p TGACGT R | 5’-TGGGAGGAGAAGCAGAGAATG-3’ |

Restriction enzyme sites are indicated by underline. Mutated sequence is indicated in red letters.