**Supplementary Table 1. Primer sequences**

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| --- | --- | --- | --- | --- | --- |
| primer | sequence(5'->3') | start | end | product |  |
| A | forward | GATCACAGGTCTATCACCCTATTA | 1 | 24 | 1949 |
| reverse | CGGGTGTGCTCTTTTAGCTG | 1949 | 1930 |
| B | forward | TAAGACCCCCGAAACCAGAC | 1896 | 1915 | 1955 |
| reverse | CCAAGGGTCATGATGGCAGG | 3850 | 3831 |
| C | forward | TCTCCACCCTTATCACAACACA | 3791 | 3812 | 1951 |
| reverse | CGGCGGGAGAAGTAGATTGA | 5722 | 5741 |
| D | forward | CACTTAGTTAACAGCTAAGCACCC | 5685 | 5708 | 1983 |
| reverse | GGGCGTGATCATGAAAGGTG | 7667 | 7648 |
| E | forward | CATGCAGCGCAAGTAGGTCT | 7592 | 7611 | 1996 |
| reverse | TAGGGGATTTAGCGGGGTGA | 9587 | 9568 |
| F | forward | CCCGCTAAATCCCCTAGAAG | 9536 | 9555 | 1976 |
| reverse | GGGGGTTGAGAATGAGTGTG | 11511 | 11491 |
| G | forward | CGGCTATGGTATAATACGCCTCA | 11476 | 11498 | 1988 |
| reverse | CCAATGGTGAGGGAGGTTGA | 13463 | 13444 |
| H | forward | TATGTGCTCCGGGTCCATCA | 13356 | 13375 | 1327 |
| reverse | GGTCGTGGTTGTAGTCCGTG | 14701 | 14682 |
| I | forward | GAGAAGGCTTAGAAGAAAAC | 14620 | 14601 | 1969 |
| reverse | CATCGTGATGTCTTATTTAAGGGGA | 16569 | 16546 |