**Table S1. PCR primer sequences.** Summary of PCR primers used for sequencing, cDNA and HRM analyses.

|  |  |  |
| --- | --- | --- |
| **Primers**  | **Sequence 5’ > 3’**  | **Position of primers a/b/c** |
| ***RAD51C* a** |
| RC\_1f | TTTGGCTGCTCCGGGGTTA | 9-27 |
| RC\_1r | AGGCGAGAGAACGAAGACTG | 241-260 |
| RC\_2f | CTCCTAGCATCACTGTTGTCTAC | 2225-2247 |
| RC\_2r | CCCACCCTTAAAAGGAGAACAC | 2599-2620 |
| RC\_3f | CCTTAGATCATCATCATGATTTGG | 4043-4066 |
| RC\_3r | GGTCTCAGATGGGCACAAATGC | 4308-4329 |
| RC\_4f | CAATTGCCAATACATCCAAACAGG | 10539-10562 |
| RC\_4r | CTTTGATTTTATGCTACTGTACTGG | 10800-10824 |
| RC\_5f | CAAATCTAATATTATCTCTTCTG | 17228-17250 |
| RC\_5r | CGCTATTTTGACATTTCTAGAC | 17450-17471 |
| RC\_6f | AGACTGGTCTACTTGATAATTTTC | 28081-28104 |
| RC\_6r | CTCAATGAGAATCAAATGAAAGAG | 28261-28284 |
| RC\_7f | ACCAAGTCAGTAAGGCCATATAC | 31392-31414 |
| RC\_7r | CACAGGACTAGCTCTAAGAAACC | 31564-32586 |
| RC\_8f | CTCTCCTTTTTGTGTTCTTAGAG | 39742-39764 |
| RC\_8r | CCCATCAATATCAAAATCCCACTC | 39962-39985 |
| RC\_9f | GATCAGTCTTCAAATGTTCTTAAAGC | 41461-41486 |
| RC\_9r | TAACAAGTCCACTTGTACACATTG | 41669-41692 |
| ***RAD51C* b for cDNA analysis** |
| R\_RC\_5F | CGTCATGACCTAGATGACCTG | c.745-765 |
| R\_RC\_9r | GGTAACAAGTCCACTTGTACAC | c.1131+52-1131+73 |
| ***RAD51D* c** |
| RD\_1f\* | GCCTCCTCCTCTCTCCTTTC | 110-129 |
| RD\_2f | GGTAGAATTGACACCCCATTTG | 603-624 |
| RD\_2r | TGACTTCTGACTCCAAGTGACC | 979-1000 |
| RD\_3r\* | TGTCCTGACCCCTTTCCTTC | 1489-1508 |
| RD\_4f\* | TGGCCAGTGATGTTCAAAGA | 12300-12319 |
| RD\_5f | GACTCAGCCCATTTGTGTTG | 12644-12663 |
| RD\_5r | AGCAAGTTTGAAGGCAAGGA | 12974-12993 |
| RD\_6r\* | GATTGCACATCTGCATTTCCA | 13569-13589 |
| RD\_7f\* | CAGCTTGCTGTATTTGGGATG | 16203-16223 |
| RD\_8r\* | TTTGGGGTTCAGAAGCTGAC | 16684-16704 |
| RD\_9f\* | TCTCCGTAAAATGAAGCGGTAG | 18428-18449 |
| RD\_10r\* | TAAACAGCAGGCGTTACTGG | 18975-18994 |

Note: NCBI reference sequences: a – NG\_023199 used for *RAD51C* gene; b – NM\_058216 used for RAD51C mRNA; c – NG\_031858 used for *RAD51D* gene. (\*) denotes primers used for amplification of four genomic regions containing clustered coding exons 1-3, 4-6, 7-8, and 9-10.