

**TABLE S3. Oligonucleotides used in this study.**

| <b>Name</b> | <b>Nucleotide sequence (5'-3')<sup>a</sup></b> | <b>Description</b> | <b>Lab name</b> |
|-------------|--|--------------------|-----------------|
| p1          | [Biotin-5] GTGGTGTTACGTCAAATGGTAGAA            | I543T forward      | p5389           |
| p2          | CCACCTCTACCCATGCTTTCATA                        | I543T reverse      | p5390           |
| p3          | CCATCATATCCCCCA                                | I543T sequencing   | p5391           |
| p4          | GGTAATAACTATGATTATAAGGC                        | R539T forward      | p4668           |
| p5          | [Biotin-5]ACCTCTACCCATGCTTTCATACGA             | R539T reverse      | p4669           |
| p6          | GTGGTGTTACGTCAAATGGTA                          | R539T sequencing   | p4670           |
| p7          | CTATTATACCGAATGTAGAAGC                         | C580Y forward      | p4671           |
| p8          | [Biotin-5]AGGTAATTAAGCTGCTCCTGAA               | C580Y reverse      | p4672           |
| p9          | CCCCTAGATCATCAGCTATGT                          | C580Y sequencing   | p4673           |