**Supplementary file 3.** List of the sets of forward and reverse primers and dual fluorescent-labeled FAM/HEX MGB probes used.

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| --- | --- | --- | --- |
| **SNP** | **Forward primer** | **Reverse primer** | **Probe** |
| **C580** | p7251TCGTATGAAAGCATGGGTAGAG | p7252CCATTAGTTCCACCAATGACATAAA | p7253FAM-5'-CATCAGCTATGTGTGTTGCT-3'-MGB-EclipseDLP |
| **580Y** | p7251TCGTATGAAAGCATGGGTAGAG | p7252CCATTAGTTCCACCAATGACATAAA | p7254HEX-5'-ATCATCAGCTATGTATGTTGCT-3'-MGB-EclipseDLP |
| **R539** | p7255CCTAGAAGAAATAATTGTGGTGTTACG | p7256GTGCCACCTCTACCCATGCT | p7257FAM-5'-CAAATGGTAGAATTTATTG-3'-MGB-EclipseDLP |
| **539T** | p7255CCTAGAAGAAATAATTGTGGTGTTACG | p7256GTGCCACCTCTACCCATGCT | p7258HEX-5'-CAAATGGTACAATTTATTG-3'-MGB-EclipseDLP |
| **ZFN WT** | p7247AGCTTATTTTGGAAGTGCTGTATTGAA | p7248TGACGTAACACCACAATTATTTCTTCT | p7249FAM-5'-TGATCGTTTAAGAGATGTATGGTAT-3'-MGB-EclipseDLP |
| **ZFN bsm** | p7247AGCTTATTTTGGAAGTGCTGTATTGAA | p7248TGACGTAACACCACAATTATTTCTTCT | p7250HEX-5'-TGATAGATTAAGAGACGTCTGGTAT-3'-MGB-EclipseDLP |