1. Primer design for selected nsSNP of APC gene

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| Primer Criteria | Forward Primer | Reverse Primer |
| Sequence | TCCAAGGTCTTCAATGATAAGC | TCCCTGGAAAGGTCAACATC |
| Length | 22 bp | 20 bp |
| Start | 486 | 658 |
| Tm | 58.3 °C | 59.9 °C |
| GC | 40.9 % | 50.0 % |
| Tm | 56.5 °C | 56.96 °C |
| GC% | 40.91 | 50.0 |
| Self-Dimer ( ΔG) | -4.54 kcal/mol |  |
| Hairpin ( ΔG) | -0.44 kcal/mol | -0.17 kcal/mol |
| Cross Dimer (ΔG) | -6.6 kcal/mol | |
| Product size | 173 bp | |

2. Restriction enzyme for selected nsSNP of APC gene

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| Enzyme Name | Position | Recognition Site |
| TfiI | 46 487 580 637 724 | G/AWTC |